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# U.S. NAVAL WEATHER SERVICE COMMAND. SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS, NORTH AMERICAN COASTAL MARINE AREAS - REVISED. PACIFIC COAST. VOLUME 5. AREA 30 - BAJA, AREA 31 - SAN DIEGO 200 SW, AREA 32 - SAN DIEGO, AREA 33 - SANTA ROSA ISLAND SW, AREA 34 - POINT MUGU NW, AREA 35 - SAN FRANCISCO

National Climatic Center
Asheville, North Carolina

May 1976

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.

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# U. S. NAVAL WEATHER SERVICE COMMAND

# SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

## NORTH AMERICAN COASTAL MARINE AREAS - REVISED

## PACIFIC COAST

## VOLUME 5

**AREA 30 - BAJA**
**AREA 31 - SAN DIEGO 200 SW**
**AREA 32 - SAN DIEGO**
**AREA 33 - SANTA ROSA ISLAND SW**
**AREA 34 - POINT MUGU NW**
**AREA 35 - SAN FRANCISCO**

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Prepared under the direction of the U.S. Naval Weather Service Command
by the National Climatic Center, Federal Building, Asheville, N.C. 28801.

## SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

## THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency $> 0$ and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH <5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH <5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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| AREA | NAME | PAGES |
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| 30 | Baja | 1-79 |
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| 34 | Point Mugu NW | 317-395 |
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# DIRECTION AND WEATHER CODES

## CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal grand totals.

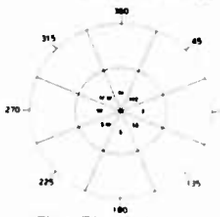


Fig 1. The 8 point direction system.

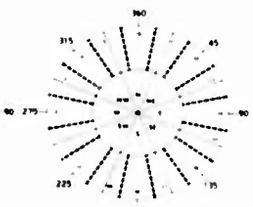


Fig 2. The 16 point direction system superimposed on the 8 point system.

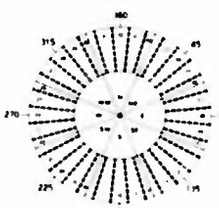


Fig 3. The 32 point direction system superimposed on the 8 point system.

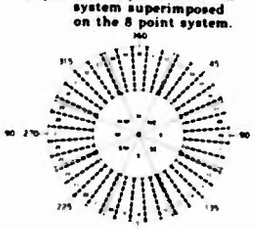


Fig 4. The 36 point direction system superimposed on the 8 point system.

## VISIBILITY (VV)

| CODE | INTERPRETATION (NAUTICAL MILES) |
|---|---|
| 90-93 | VV<1/2 |
| 94 | 1/2≤VV<1 |
| 95 | 1≤VV<2 |
| 96 | 2≤VV<5 |
| 97 | 5≤VV<10 |
| 98 | 10≤VV<25 |
| 99 | VV≥25 |

NOTE: <means less than; >means greater than; ≤means less than or equal to; ≥means greater than or equal to.

## PRESENT WEATHER (1960 WMO CODE 4677)

| CODE | INTERPRETATION |
|---|---|
| 58-59, 60-65, 91-94, (68-69,95,97 IF TEMP >40°F) | RAIN |
| 80-82,(83-84 IF TEMP >40°F) | RAIN SHOWERS |
| 50-55,58-59 | DRIZZLE |
| 56-57, 66-67 | FREEZING PRECIPITATION |
| 70-75,85-86 (68-69,83-84, 95,97 IF TEMP ≤40°F) | SNOW |
| 76-79 | OTHER FROZEN PRECIPITATION |
| 87-90, 93-94, 96,99 | HAIL |
| 13,17, 19,29, 95-99 | THUNDER LIGHTNING THUNDERSTORM |

| CODE | INTERPRETATION |
|---|---|
| 10-12, 40-49 | FOG (WITHOUT PRECIPITATION) |
| 28 | FOG (WITHOUT PRECIPITATION) PAST HOUR |
| 04-05 | SMOKE HAZE |
| 06-09, 30-39 | SPRAY BLOWING DUST BLOWING SNOW |
| 00-03, 14-16, 18 | NO SIGNIFICANT WEATHER AT OB TIME |
| 00-49 | NO PRECIPITATION AT OB TIME |
| 50-99 | PRECIPITATION AT OB TIME |
| 20-27 | PRECIPITATION PAST HOUR |

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

## WAVE HEIGHT (from source decks 128 and 116)

| RECORDED CODE (HALF METERS) | RANGE (METERS) | AS RECORDED IN TABULATION (FEET) |
|---|---|---|
| 00 | ≤.25 | <1 |
| 01 | >.25 to .75 | 1-2 |
| 02 | >.75 to 1.25 | 3-4 |
| 03 | >1.25 to 1.75 | 5-6 |
| 04 | >1.75 to 2.25 | 7 |
| 05 | >2.25 to 2.75 | 8-9 |
| 06 | >2.75 to 3.25 | 10-11 |
| 07 | >3.25 to 3.75 | 12 |
| 08 | >3.75 to 4.25 | 13-16 |
| 09 | >4.25 to 4.75 | |
| 10 | >4.75 to 5.25 | 17-19 |
| 11 | >5.25 to 5.75 | |
| 12 | >5.75 to 6.25 | 20-22 |
| 13 | >6.25 to 6.75 | |
| 14 | >6.75 to 7.25 | 23-25 |
| 15 | >7.25 to 7.75 | |
| 16 | >7.75 to 8.25 | 26-32 |
| 17 | >8.25 to 8.75 | |
| 18 | >8.75 to 9.25 | |
| 19 | >9.25 to 9.75 | |
| 20 | >9.75 to 10.25 | 33-40 |
| 21 | >10.25 to 10.75 | |
| 22 | >10.75 to 11.25 | |
| 23 | >11.25 to 11.75 | |
| 24 | >11.75 to 12.25 | |
| 25 | >12.25 to 12.75 | 41-48 |
| 26 | >12.75 to 13.25 | |
| 27 | >13.25 to 13.75 | |
| 28 | >13.75 to 14.25 | |
| 29 | >14.25 to 14.75 | |
| 30 | >14.75 to 15.25 | 49-60 |
| 31 | >15.25 to 15.75 | |
| 32 | >15.75 to 16.25 | |
| 33 | >16.25 to 16.75 | |
| 34 | >16.75 to 17.25 | |
| 35 | >17.25 to 17.75 | |
| 36 | >17.75 to 18.25 | |
| 37 | >18.25 to 18.75 | 61-70 |
| 38 | >18.75 to 19.25 | |
| 39 | >19.25 to 19.75 | |
| 40 | >19.75 to 20.25 | |
| 41 | >20.25 to 20.75 | |
| 42 | >20.75 to 21.25 | |
| 43 | >21.25 to 21.75 | 71-86 |
| 44 | >21.75 to 22.25 | |
| 45 | >22.25 to 22.75 | |
| 46 | >22.75 to 23.25 | |
| 47 | >23.25 to 23.75 | |
| 48 | >23.75 to 24.25 | |
| 49 | >24.25 to 24.75 | |
| 50 | >24.75 to 25.25 | |
| 51 | >25.25 to 25.75 | |
| 52 | >25.75 to 26.25 | |
| 53-99 | >26.25 to 49.75 | ≥87 |

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1863-1974

AREA 0030 BAJA
29.3N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .1 | .3 | .0 | .0 | .0 | .0 | .9 | .2 | .3 | 2.7 | .1 | 2.9 | | .0 | 93.0 |
| NE | 1.0 | .4 | .0 | .0 | .0 | .0 | .0 | 1.4 | .5 | .8 | 1.8 | .0 | 2.2 | | .0 | 93.4 |
| E | .5 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.4 | 2.6 | .0 | 1.0 | .0 | 2.6 | | .0 | 92.3 |
| SE | 4.2 | .9 | 2.7 | .0 | .0 | .0 | .0 | 7.8 | 3.6 | .0 | 1.8 | .0 | 1.8 | | .0 | 85.1 |
| S | 4.8 | .7 | 1.4 | .0 | .0 | .0 | .0 | 6.8 | 5.1 | .0 | 7.7 | .0 | .3 | | .0 | 90.1 |
| SW | 2.8 | .2 | 2.8 | .0 | .0 | .0 | .0 | 5.7 | 3.3 | .7 | 5.9 | .0 | 1.3 | | .0 | 83.0 |
| W | 1.1 | 1.8 | 2.1 | .0 | .0 | .0 | .0 | 4.9 | 2.2 | .0 | 2.5 | .2 | 1.9 | | .0 | 88.2 |
| NW | .5 | .6 | .6 | .0 | .0 | .0 | .0 | 1.6 | 1.0 | .1 | 3.3 | .5 | 3.5 | | .1 | 90.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | 1.1 | 1.1 | .0 | 5.9 | .0 | 7.4 | | .0 | 84.6 |
| TOT PCT | .9 | .5 | .7 | .0 | .0 | .0 | .0 | 2.1 | 1.1 | .2 | 3.2 | .2 | 3.0 | | * | 90.0 |
| TOT OBS: | 4264 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .9 | .6 | .5 | .0 | .0 | .0 | .0 | 1.9 | .8 | .1 | 3.6 | .4 | 3.7 | | .0 | 89.5 |
| 06&09 | .8 | .4 | 1.0 | .0 | .0 | .0 | .0 | 2.3 | 1.3 | .2 | 2.9 | .1 | 2.4 | | .1 | 90.7 |
| 12&15 | 1.3 | .5 | 1.1 | .0 | .0 | .0 | .0 | 2.8 | 1.5 | .6 | 3.4 | .3 | 2.8 | | .0 | 88.5 |
| 18&21 | .5 | .4 | .4 | .0 | .0 | .0 | .0 | 1.3 | .9 | .0 | 2.4 | .2 | 3.1 | | .0 | 91.2 |
| TOT PCT | .9 | .5 | .7 | .0 | .0 | .0 | .0 | 2.1 | 1.1 | .2 | 3.3 | .2 | 3.0 | | * | 90.0 |
| TOT OBS: | 4327 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.9 | 12.9 | 11.1 | 1.2 | * | .0 | | 27.2 | 11.1 | 24.6 | 29.1 | 26.8 | 25.5 | 27.9 | 24.9 | 29.6 | 29.4 |
| NE | .7 | 3.1 | 1.8 | .3 | * | .0 | | 6.0 | 10.1 | 3.9 | 5.5 | 6.1 | 7.3 | 5.9 | 10.5 | 6.3 | 9.6 |
| E | .4 | 1.3 | .8 | * | * | .0 | | 2.5 | 9.3 | 1.7 | 2.5 | 1.9 | 2.4 | 3.0 | 2.1 | 3.5 | 1.2 |
| SE | .4 | 1.7 | .5 | .1 | .0 | .0 | | 2.7 | 7.9 | 2.7 | 3.9 | 2.3 | 1.8 | 2.3 | 2.5 | 3.0 | 4.4 |
| S | .4 | 2.2 | .8 | .1 | .0 | .0 | | 3.4 | 8.7 | 3.6 | 4.6 | 3.3 | 1.7 | 3.1 | 3.4 | 3.4 | 5.4 |
| SW | .6 | 1.7 | .7 | * | .0 | .0 | | 3.1 | 8.0 | 2.8 | 1.8 | 2.7 | 2.9 | 3.7 | 4.1 | 3.3 | 3.8 |
| W | .9 | 4.0 | 2.0 | .4 | * | .0 | | 7.3 | 9.7 | 7.7 | 7.4 | 7.0 | 9.5 | 7.6 | 9.1 | 6.2 | 6.6 |
| NW | 2.3 | 21.0 | 17.8 | 2.0 | .1 | .0 | | 43.2 | 11.3 | 50.6 | 41.7 | 44.6 | 43.4 | 41.3 | 38.4 | 39.3 | 34.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.7 | | | | | | | 4.7 | .0 | 2.7 | 3.5 | 5.3 | 5.5 | 5.2 | 5.0 | 5.6 | 4.9 |
| TOT OBS | 576 | 2257 | 1670 | 197 | 8 | 0 | 4708 | | 10.2 | 1073 | 141 | 867 | 164 | 963 | 200 | 1095 | 203 |
| TOT PCT | 12.2 | 47.9 | 35.5 | 4.2 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.2 | 17.0 | 3.7 | .3 | .0 | | 27.2 | 11.1 | 25.1 | 26.6 | 27.3 | 29.5 |
| NE | 2.0 | 3.1 | .7 | .1 | .0 | | 6.0 | 10.1 | 4.1 | 6.3 | 6.7 | 6.8 |
| E | 1.0 | 1.2 | .2 | * | .0 | | 2.5 | 9.3 | 1.8 | 2.0 | 2.9 | 3.1 |
| SE | 1.3 | 1.1 | .2 | .0 | .0 | | 2.7 | 7.9 | 2.8 | 2.2 | 2.3 | 3.3 |
| S | 1.6 | 1.6 | .3 | .0 | .0 | | 3.4 | 8.7 | 3.7 | 3.0 | 3.2 | 3.7 |
| SW | 1.5 | 1.4 | .2 | .0 | .0 | | 3.1 | 8.0 | 2.5 | 2.7 | 3.8 | 3.3 |
| W | 2.5 | 3.7 | .9 | * | .0 | | 7.3 | 9.7 | 7.7 | 7.4 | 7.8 | 6.3 |
| NW | 10.0 | 25.8 | 6.9 | .6 | .0 | | 43.2 | 11.3 | 49.6 | 44.4 | 40.8 | 38.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.7 | | | | | | 4.7 | .0 | 2.8 | 5.3 | 5.2 | 5.5 |
| TOT OBS | 1457 | 2582 | 619 | 50 | 0 | 4708 | | 10.2 | 1114 | 1031 | 1163 | 1300 |
| TOT PCT | 30.9 | 54.8 | 13.1 | 1.1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JANUARY

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1863-1974

AREA 0030 BAJA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.8 | 7.0 | 47.0 | 38.8 | 4.1 | .3 | .0 | 10.8 | 100.0 | 1214 |
| 06&09 | 5.3 | 5.4 | 49.8 | 34.7 | 4.7 | .1 | .0 | 10.2 | 100.0 | 1031 |
| 12&15 | 5.2 | 8.0 | 49.6 | 32.9 | 4.2 | .1 | .0 | 9.9 | 100.0 | 1163 |
| 18&21 | 5.5 | 9.4 | 45.9 | 35.2 | 3.8 | .2 | .0 | 9.9 | 100.0 | 1300 |
| TOT | 220 | 356 | 2257 | 1670 | 197 | 8 | 0 | 10.2 | | 4708 |
| PCT | 4.7 | 7.6 | 47.9 | 35.5 | 4.2 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 14.7 | 4.5 | 5.8 | 3.0 | | 2.9 |
| NE | 4.1 | .5 | 1.0 | .3 | | 2.0 |
| E | 1.2 | .3 | .4 | .5 | | 3.4 |
| SE | .7 | .3 | .7 | .6 | | 4.7 |
| S | .6 | .3 | .7 | 1.6 | | 5.8 |
| SW | .6 | .3 | .9 | .8 | | 5.1 |
| W | 2.7 | .9 | 1.9 | 1.5 | | 4.1 |
| NW | 18.2 | 7.5 | 11.1 | 7.2 | | 3.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.3 | .6 | .7 | .8 | | 3.0 |
| TOT OBS | 1461 | 500 | 750 | 527 | 3238 | 3.5 |
| TOT PCT | 45.1 | 15.4 | 23.2 | 16.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .4 | .9 | 2.3 | 1.3 | .5 | .2 | .1 | .1 | 22.0 | |
| NE | .0 | .0 | * | .1 | .3 | .2 | .0 | * | * | * | 5.3 | |
| E | .0 | * | .1 | .1 | .2 | .2 | .1 | .0 | * | * | 1.8 | |
| SE | .1 | .0 | .0 | .2 | .4 | .2 | .1 | .1 | .0 | * | 1.3 | |
| S | .2 | .1 | .1 | .3 | .6 | .4 | .2 | * | .0 | * | 1.2 | |
| SW | * | .0 | .1 | .2 | .7 | .2 | .1 | .1 | .0 | .0 | 1.3 | |
| W | .1 | * | .1 | .6 | .9 | .5 | .4 | .1 | .0 | * | 4.4 | |
| NW | .8 | .4 | .7 | 2.5 | 5.0 | 2.7 | 1.0 | .3 | .2 | .2 | 30.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | * | .2 | .3 | .2 | * | .0 | * | .1 | 3.4 | |
| TOT OBS | 51 | 20 | 48 | 163 | 345 | 184 | 78 | 24 | 12 | 16 | 2297 | 3238 |
| TOT PCT | 1.6 | .6 | 1.5 | 5.0 | 10.7 | 5.7 | 2.4 | .7 | .4 | .5 | 70.9 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >3000 | 1.4 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| * OR >1500 | 3.5 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| * OR >2000 | 8.4 | 9.5 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| * OR >1000 | 17.3 | 20.1 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 |
| * OR >600 | 21.0 | 24.9 | 25.2 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 |
| * OR >300 | 22.0 | 26.2 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 |
| * OR >150 | 22.3 | 26.8 | 27.2 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| * OR > 0 | 22.5 | 27.2 | 27.9 | 28.1 | 28.2 | 28.4 | 28.8 | 28.9 |
| TOTAL | 733 | 889 | 910 | 916 | 922 | 927 | 940 | 943 |

TOTAL NUMBER OF OBS: 3265

PCT FREQ NH <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 33.4 | 11.0 | 10.2 | 9.2 | 6.3 | 5.3 | 6.5 | 6.1 | 10.8 | 1.1 | 3484 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | |
| <1/2 | NO PCP | .1 | * | .0 | * | .1 | * | .1 | .3 | .0 | .2 | .8 | |
| | TOT % | .1 | * | .0 | * | .1 | * | .1 | .3 | .0 | .2 | .8 | |
| | PCP | * | .0 | .0 | .0 | * | * | * | .0 | .0 | .0 | .1 | |
| 1/2<1 | NO PCP | .2 | .1 | * | .0 | .1 | .1 | .0 | .1 | .0 | .0 | .6 | |
| | TOT % | .2 | .1 | * | .0 | .1 | .1 | * | .1 | .0 | .0 | .7 | |
| | PCP | .0 | .0 | .0 | * | .0 | * | * | .1 | .0 | .0 | .2 | |
| 1<2 | NO PCP | .0 | .0 | .0 | .0 | * | * | * | .2 | .0 | .0 | .2 | |
| | TOT % | .0 | .0 | .0 | * | * | * | * | .2 | .0 | .0 | .4 | |
| | PCP | * | * | * | * | .1 | .1 | .1 | .1 | .0 | .0 | .5 | |
| 2<5 | NO PCP | .4 | .0 | .0 | * | .1 | .1 | .1 | .8 | .0 | .1 | 1.6 | |
| | TOT % | .4 | * | * | * | .2 | .1 | .2 | .9 | .0 | .1 | 2.1 | |
| | PCP | .1 | * | * | .1 | .1 | * | .1 | .2 | .0 | * | .7 | |
| 5<10 | NO PCP | 3.1 | .4 | .2 | .5 | .5 | .5 | .8 | 5.3 | .0 | .5 | 11.7 | |
| | TOT % | 3.2 | .4 | .2 | .6 | .6 | .6 | .9 | 5.4 | .0 | .5 | 12.4 | |
| | PCP | .1 | * | .0 | * | * | * | .1 | .3 | .0 | * | .6 | |
| 10+ | NO PCP | 23.5 | 5.4 | 2.2 | 1.9 | 2.4 | 2.2 | 5.9 | 35.9 | .0 | 3.7 | 83.1 | |
| | TOT % | 23.6 | 5.4 | 2.2 | 2.0 | 2.4 | 2.2 | 6.0 | 36.2 | .0 | 3.7 | 83.7 | |
| | TOT OBS | | | | | | | | | | | | 4251 |
| | TOT PCT | 27.6 | 6.0 | 2.4 | 2.6 | 3.4 | 3.2 | 7.3 | 43.1 | .0 | 4.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .2 | .3 | |
| <1/2 | 4-10 | .1 | .0 | .0 | * | .1 | * | .1 | .2 | .0 | | .4 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | * | .0 | * | .1 | * | .1 | .3 | .0 | .2 | .8 | |
| | 0-3 | * | .1 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .2 | |
| 1/2<1 | 4-10 | .1 | .0 | * | .0 | .1 | .1 | * | .1 | .0 | | .4 | |
| | 11-21 | .1 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | .1 | * | .0 | .1 | .1 | * | .1 | .0 | .0 | .7 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 1<2 | 4-10 | * | .0 | .0 | * | * | * | * | .2 | .0 | | .3 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | * | * | * | * | .3 | .0 | .0 | .4 | |
| | 0-3 | .0 | .0 | * | .0 | * | * | * | * | .0 | .1 | .2 | |
| 2<5 | 4-10 | .3 | .0 | .0 | .0 | * | .1 | .1 | .5 | .0 | | 1.0 | |
| | 11-21 | .1 | * | .0 | * | .1 | .1 | .1 | .4 | .0 | | .9 | |
| | 22+ | .0 | * | * | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .5 | * | * | * | .2 | .2 | .2 | 1.0 | .0 | .1 | 2.2 | |
| | 0-3 | .3 | .1 | * | .1 | .1 | .1 | .1 | .3 | .0 | .5 | 1.5 | |
| 5<10 | 4-10 | 1.6 | .2 | .2 | .4 | .3 | .2 | .5 | 2.6 | .0 | | 6.0 | |
| | 11-21 | 1.1 | .1 | * | * | .2 | .2 | .2 | 2.1 | .0 | | 4.0 | |
| | 22+ | .1 | .0 | .0 | * | * | * | .1 | .2 | .0 | | .5 | |
| | TOT % | 3.2 | .4 | .3 | .6 | .6 | .5 | .9 | 5.2 | .0 | .5 | 12.1 | |
| | 0-3 | 1.5 | .5 | .3 | .3 | .2 | .5 | .7 | 1.9 | .0 | 3.7 | 9.5 | |
| 10+ | 4-10 | 10.8 | 3.0 | 1.1 | 1.1 | 1.7 | 1.3 | 3.4 | 17.4 | .0 | | 39.8 | |
| | 11-21 | 10.0 | 1.7 | .8 | .5 | .5 | .5 | 1.6 | 15.1 | .0 | | 30.6 | |
| | 22+ | 1.1 | .3 | * | * | * | * | .3 | 1.9 | .0 | | 3.8 | |
| | TOT % | 23.4 | 5.5 | 2.2 | 2.0 | 2.4 | 2.2 | 6.1 | 36.3 | .0 | 3.7 | 83.8 | |
| | TOT OBS | | | | | | | | | | | | 4525 |
| | TOT PCT | 27.3 | 6.0 | 2.5 | 2.7 | 3.4 | 3.1 | 7.4 | 43.2 | .0 | 4.4 | 100.0 | |

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | .4 | 1.3 | 5.0 | 10.6 | 5.0 | 2.3 | .7 | .4 | .3 | 27.2 | 72.8 | 903 |
| 06&09 | 1.8 | .8 | .9 | 3.7 | 9.1 | 4.8 | 2.0 | .9 | .1 | .5 | 24.7 | 75.3 | 757 |
| 12&15 | 2.1 | .6 | 2.2 | 5.3 | 8.4 | 5.7 | 1.3 | .3 | .1 | .9 | 26.8 | 73.2 | 775 |
| 18&21 | 1.1 | .5 | 1.4 | 5.4 | 12.4 | 6.3 | 3.3 | .9 | .6 | .3 | 32.3 | 67.7 | 960 |
| TOT | 51 | 20 | 49 | 166 | 349 | 185 | 78 | 26 | 12 | 17 | 951 | 2444 | 3395 |
| PCT | 1.5 | .6 | 1.4 | 4.9 | 10.3 | 5.4 | 2.3 | .7 | .4 | .5 | 28.0 | 72.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | .3 | .3 | 2.0 | 11.9 | 84.4 | 1165 |
| 06&09 | .9 | .8 | .3 | 1.6 | 12.9 | 83.6 | 1017 |
| 12&15 | .7 | 1.1 | .8 | 2.5 | 14.0 | 81.0 | 1130 |
| 18&21 | .6 | .6 | .3 | 2.6 | 10.3 | 85.5 | 1277 |
| TOT | 38 | 32 | 19 | 100 | 560 | 3840 | 4589 |
| PCT | .8 | .7 | .4 | 2.2 | 12.2 | 83.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 3.1 | 9.6 | 20.0 | 70.4 | 871 |
| 06&09 | 1.9 | 3.7 | 7.8 | 17.7 | 74.4 | 727 |
| 12&15 | 2.2 | 5.5 | 12.2 | 16.8 | 71.1 | 740 |
| 18&21 | 1.2 | 3.2 | 9.9 | 24.6 | 65.5 | 927 |
| TOT | 51 | 125 | 323 | 655 | 2287 | 3265 |
| PCT | 1.6 | 3.8 | 9.9 | 20.1 | 70.0 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .1 | .1 | .1 | .1 | .0 | .0 | 8 | .2 |
| 70/74 | .0 | * | .1 | .2 | .4 | .3 | .2 | * | 43 | 1.2 |
| 65/69 | .0 | .2 | .3 | .6 | 2.1 | 2.8 | 1.9 | .7 | 298 | 8.7 |
| 60/64 | .0 | .1 | 1.0 | 2.2 | 7.8 | 15.5 | 15.5 | 5.0 | 1620 | 47.0 |
| 55/59 | * | .1 | .9 | 2.4 | 5.9 | 11.5 | 12.2 | 6.3 | 1357 | 39.4 |
| 50/54 | .0 | * | .1 | .6 | .8 | .8 | .5 | .5 | 115 | 3.3 |
| 45/49 | .0 | .0 | * | .1 | .0 | .0 | * | .0 | 4 | .1 |
| TOTAL | 1 | 15 | 88 | 212 | 590 | 1066 | 1046 | 428 | 3446 | 100.0 |
| PCT | * | .4 | 2.6 | 6.2 | 17.1 | 30.9 | 30.4 | 12.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | * |
| .4 | .1 | .1 | .0 | * | * | .1 | .6 | .0 | .1 |
| 2.3 | .7 | .3 | .1 | .3 | .3 | .5 | 3.5 | .0 | .6 |
| 12.6 | 2.7 | 1.0 | 1.6 | 1.8 | 1.4 | 3.6 | 19.9 | .0 | 2.4 |
| 11.4 | 2.2 | .7 | .8 | 1.2 | 1.3 | 2.7 | 17.9 | .0 | 1.1 |
| .9 | .3 | .2 | .1 | .1 | * | .1 | 1.4 | .0 | .1 |
| * | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| 27.6 | 6.0 | 2.4 | 2.6 | 3.5 | 2.9 | 7.1 | 43.6 | .0 | 4.3 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 74 | 68 | 61 | 56 | 52 | 47 | 61.4 | 1214 |
| 06&09 | 69 | 66 | 64 | 59 | 54 | 52 | 49 | 59.2 | 1045 |
| 12&15 | 71 | 66 | 63 | 59 | 54 | 52 | 48 | 58.7 | 1178 |
| 18&21 | 81 | 70 | 67 | 61 | 55 | 52 | 48 | 61.2 | 1305 |
| TOT | 81 | 70 | 66 | 60 | 55 | 52 | 47 | 60.2 | 4742 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 12.1 | 21.0 | 31.0 | 27.8 | 8.0 | 74 | 886 |
| 06&09 | .0 | 6.3 | 12.8 | 31.4 | 34.1 | 15.4 | 79 | 791 |
| 12&15 | .0 | 6.9 | 13.0 | 28.5 | 34.7 | 16.9 | 79 | 859 |
| 18&21 | .0 | 11.2 | 20.4 | 32.2 | 25.8 | 10.4 | 75 | 934 |
| TOT | 1 | 323 | 594 | 1075 | 1060 | 437 | 77 | 3490 |

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .1 | 7 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .1 | .1 | .2 | .1 | .1 | 20 | .0 | .5 |
| 9/10 | .0 | .0 | .0 | * | .1 | .2 | .4 | .1 | .0 | 29 | .0 | .7 |
| 7/8 | .0 | .0 | .1 | .0 | .3 | .8 | .4 | * | .0 | 59 | * | 1.5 |
| 6 | .0 | .0 | .0 | .2 | .3 | .6 | .2 | .0 | .0 | 51 | .0 | 1.3 |
| 5 | .0 | .0 | .0 | .1 | .8 | 1.2 | .1 | .0 | .0 | 89 | .0 | 2.2 |
| 4 | .0 | .0 | .0 | .2 | 1.8 | 1.2 | .1 | * | .0 | 131 | .1 | 3.2 |
| 3 | .0 | .0 | .1 | .6 | 1.7 | .9 | .1 | .0 | .0 | 131 | .1 | 3.2 |
| 2 | .0 | .0 | .1 | 1.3 | 4.4 | .9 | .0 | .0 | .0 | 267 | .2 | 6.6 |
| 1 | .0 | .0 | .1 | 2.2 | 4.4 | .6 | * | .0 | .0 | 293 | .5 | 6.9 |
| 0 | .0 | * | .3 | 5.9 | 7.3 | .9 | .0 | .0 | .0 | 574 | .3 | 14.1 |
| -1 | .0 | .0 | .6 | 6.6 | 4.1 | .3 | .0 | .0 | .0 | 458 | .4 | 11.1 |
| -2 | .0 | .1 | 1.5 | 7.9 | 4.0 | .2 | .0 | .0 | .0 | 540 | .5 | 13.1 |
| -3 | .0 | .1 | 1.6 | 6.1 | 1.9 | .2 | .0 | .0 | .0 | 391 | .4 | 9.5 |
| -4 | .0 | * | 2.2 | 5.1 | 1.1 | .1 | .0 | .0 | .0 | 337 | .3 | 8.2 |
| -5 | .0 | * | 2.1 | 2.8 | .6 | .0 | .0 | .0 | .0 | 220 | .3 | 5.3 |
| -6 | .0 | .1 | 1.8 | 1.8 | .3 | .0 | .0 | .0 | .0 | 157 | .2 | 3.8 |
| -7/-8 | .0 | .4 | 1.3 | 1.6 | .5 | * | .0 | .0 | .0 | 148 | .2 | 3.5 |
| -9/-10 | .1 | .3 | .4 | .5 | .1 | .0 | .0 | .0 | .0 | 51 | .0 | 1.3 |
| -11/-13 | .0 | .1 | .2 | .1 | * | .0 | .0 | .0 | .0 | 14 | .0 | .4 |
| -14/-16 | .0 | * | .0 | .1 | .0 | .0 | .0 | .0 | .0 | 3 | * | .1 |
| -17/-19 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 3 | 41 | 479 | 1717 | 1332 | 330 | 55 | 10 | 6 | 3973 | 132 | 3841 |
| PCT | .1 | 1.0 | 12.1 | 43.2 | 33.5 | 8.3 | 1.4 | .3 | .2 | 100.0 | 3.3 | 96.7 |

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .7 | 1.6 | .1 | .0 | .0 | .0 | 2.3 |
| 1-2 | .4 | 8.2 | 3.1 | .0 | .0 | .0 | 11.7 |
| 3-4 | .2 | 3.2 | 5.6 | .2 | .0 | .0 | 9.2 |
| 5-6 | .0 | .9 | 3.1 | .7 | .0 | .0 | 4.7 |
| 7 | .0 | .1 | .9 | .5 | .0 | .0 | 1.6 |
| 8-9 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 10-11 | .0 | .1 | .1 | .2 | .1 | .0 | .5 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.2 | 14.2 | 13.2 | 1.8 | .1 | .0 | 30.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | 2.0 | .7 | .0 | .0 | .0 | 2.9 |
| 3-4 | .0 | .5 | 1.2 | .1 | .0 | .0 | 1.9 |
| 5-6 | .0 | .2 | .8 | .5 | .0 | .0 | 1.5 |
| 7 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .1 | .1 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.2 | 3.0 | 2.8 | .7 | .1 | .0 | 6.8 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | .6 | .1 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .3 | .3 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.4 | .6 | .0 | .0 | .0 | 2.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .5 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.0 | .5 | .0 | .0 | .0 | 1.7 |

PERIOD: (OVER-ALL) 1963-1974

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AREA 0030 BAJA
29.3N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .0 | 1.0 | .3 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.0 | .7 | .0 | .0 | .0 | 2.8 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .3 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | * | .7 | .4 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.2 | .8 | .0 | .0 | .0 | 2.3 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | .5 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .3 | 1.8 | .6 | .0 | .0 | .0 | 2.7 |
| 3-4 | .0 | .4 | .4 | .1 | .0 | .0 | .8 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.8 | 1.4 | .1 | .0 | .0 | 5.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.0 | 3.1 | * | .0 | .0 | .0 | 4.2 | |
| 1-2 | .7 | 10.5 | 4.2 | .0 | .0 | .0 | 15.4 | |
| 3-4 | .1 | 5.8 | 9.0 | .4 | .0 | .0 | 15.3 | |
| 5-6 | .0 | 1.7 | 3.6 | .8 | .0 | .0 | 6.1 | |
| 7 | .0 | .3 | .9 | .6 | .0 | .0 | 1.7 | |
| 8-9 | .0 | .0 | .3 | .2 | .1 | .0 | .6 | |
| 10-11 | .0 | * | .3 | .1 | .0 | .0 | .4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.9 | 21.4 | 18.4 | 2.2 | .1 | .0 | 44.0 | 95.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.8 | 7.4 | .1 | .0 | .0 | .0 | 15.3 | |
| 1-2 | 2.0 | 25.2 | 9.5 | .0 | .0 | .0 | 36.7 | |
| 3-4 | .4 | 10.5 | 17.1 | .8 | .0 | .0 | 28.8 | |
| 5-6 | .0 | 2.9 | 8.2 | 1.9 | .0 | .0 | 13.0 | |
| 7 | .0 | .5 | 1.9 | 1.2 | .0 | .0 | 3.6 | |
| 8-9 | .0 | .0 | .6 | .4 | .2 | .0 | 1.3 | |
| 10-11 | .0 | .1 | .6 | .3 | .1 | .0 | 1.1 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 10.2 | 46.7 | 38.2 | 4.7 | .3 | .0 | 100.0 | 1386 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 6.0 | 16.0 | 17.1 | 6.6 | 1.8 | .4 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1439 | 3 |
| 6-7 | .0 | 2.2 | 8.2 | 6.9 | 2.8 | 1.5 | .8 | .2 | .3 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 688 | 5 |
| 8-9 | .0 | .9 | 1.9 | 4.4 | 2.5 | 1.1 | .3 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 345 | 6 |
| 10-11 | .0 | .9 | 1.1 | 1.4 | 1.1 | .5 | .4 | .1 | .2 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 171 | 6 |
| 12-13 | .0 | .0 | .8 | .2 | .4 | .2 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 54 | 6 |
| >13 | .0 | .0 | .0 | .3 | .1 | .3 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 34 | 8 |
| INDET | 4.4 | 1.5 | 1.4 | .5 | .4 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 255 | 2 |
| TOTAL | 311 | 645 | 912 | 614 | 273 | 119 | 64 | 17 | 28 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2986 | 4 |
| PCT | 10.4 | 21.6 | 30.5 | 20.6 | 9.1 | 4.0 | 2.1 | .6 | .9 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .1 | .4 | .0 | .0 | .0 | .0 | .9 | .1 | .2 | 3.4 | .2 | 2.7 | .0 | | 92.5 |
| NE | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | 1.1 | .0 | .0 | 2.0 | .7 | 1.3 | .0 | | 94.9 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.5 | .0 | .9 | .0 | | 93.6 |
| SE | 2.8 | 1.1 | 3.3 | .0 | .0 | .0 | .0 | 7.2 | .6 | .0 | 6.1 | 1.1 | .0 | .0 | | 85.0 |
| S | 2.8 | .9 | 1.3 | .0 | .0 | .0 | .0 | 5.1 | 7.7 | .0 | 1.3 | .0 | .0 | .0 | | 85.9 |
| SW | 1.3 | 2.3 | .8 | .0 | .0 | .0 | .0 | 4.5 | 5.3 | 1.3 | 2.8 | .2 | 1.3 | .0 | | 84.5 |
| W | .5 | .3 | .8 | .0 | .0 | .0 | .0 | 1.5 | 2.8 | .0 | 3.6 | .5 | 1.9 | .0 | | 89.7 |
| NW | .3 | .1 | .7 | .0 | .0 | .0 | .0 | 1.0 | .9 | .0 | 3.0 | .1 | 3.3 | .0 | | 91.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .0 | .7 | 7.2 | .0 | 5.1 | .0 | | 86.2 |
| TOT PCT | .5 | .2 | .7 | .0 | .0 | .0 | .0 | 1.4 | 1.2 | .1 | 3.3 | .2 | 2.7 | .0 | | 91.0 |
| TOT OBS: | 4191 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .5 | .0 | .7 | .0 | .0 | .0 | .0 | 1.0 | .9 | .1 | 2.6 | .4 | 4.1 | .0 | | 91.0 |
| 06&09 | .3 | .0 | .3 | .0 | .0 | .0 | .0 | .6 | 1.3 | .2 | 2.6 | .1 | 2.4 | .0 | | 92.8 |
| 12&15 | .6 | .7 | 1.0 | .0 | .0 | .0 | .0 | 2.3 | 1.5 | .3 | 3.5 | .4 | 1.3 | .0 | | 90.6 |
| 18&21 | .7 | .2 | .7 | .0 | .0 | .0 | .0 | 1.6 | 1.2 | .0 | 4.3 | .0 | 2.8 | .0 | | 90.1 |
| TOT PCT | .5 | .2 | .7 | .0 | .0 | .0 | .0 | 1.4 | 1.2 | .1 | 3.3 | .2 | 2.7 | .0 | | 91.0 |
| TOT OBS: | 4241 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.3 | 11.4 | 10.6 | .9 | * | .0 | | 24.2 | 11.5 | 21.6 | 22.4 | 24.8 | 25.2 | 25.5 | 24.0 | 26.1 | 21.0 |
| NE | .4 | 2.0 | 1.1 | .1 | * | .0 | | 3.5 | 9.3 | 2.0 | 1.8 | 3.0 | 4.0 | 3.8 | 6.3 | 4.8 | 3.7 |
| E | .5 | 1.1 | .2 | .1 | .0 | .0 | | 2.0 | 7.0 | .8 | .0 | 2.2 | 2.0 | 2.1 | 2.3 | 2.5 | 4.5 |
| SE | .5 | 1.1 | .3 | * | .0 | .0 | | 2.0 | 7.0 | 1.3 | 3.6 | 1.2 | 1.3 | 2.5 | 2.7 | 2.6 | 3.7 |
| S | .7 | 2.0 | 1.0 | .1 | .0 | .0 | | 3.8 | 8.4 | 3.5 | 6.0 | 3.8 | 7.7 | 3.0 | 5.8 | 3.2 | 4.8 |
| SW | .6 | 2.0 | .8 | .1 | * | .0 | | 3.5 | 8.8 | 3.7 | 3.2 | 3.9 | 4.0 | 2.9 | 5.7 | 2.6 | 4.8 |
| W | .7 | 5.3 | 2.2 | .2 | * | .0 | | 8.4 | 9.2 | 7.9 | 6.3 | 9.3 | 10.3 | 9.0 | 6.5 | 7.8 | 8.0 |
| NW | 1.9 | 20.4 | 24.2 | 2.6 | .1 | .0 | | 49.2 | 12.3 | 56.8 | 52.8 | 47.0 | 42.2 | 47.2 | 44.2 | 47.0 | 47.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.5 | | | | | | | 3.5 | .0 | 2.3 | 4.0 | 4.8 | 3.3 | 4.1 | 2.5 | 3.5 | 1.8 |
| TOT OBS | 462 | 2075 | 1853 | 186 | 9 | 0 | 4585 | | 10.8 | 1067 | 126 | 876 | 150 | 886 | 197 | 1065 | 218 |
| TOT PCT | 10.1 | 45.3 | 40.4 | 4.1 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.7 | 14.9 | 4.4 | .1 | * | | 24.2 | 11.5 | 21.7 | 24.9 | 25.3 | 25.2 |
| NE | 1.4 | 1.7 | .4 | * | .0 | | 3.5 | 9.3 | 2.0 | 3.1 | 4.2 | 4.6 |
| E | 1.1 | .8 | .1 | .0 | .0 | | 2.0 | 7.0 | .7 | 2.2 | 2.1 | 2.8 |
| SE | 1.2 | .7 | .1 | * | .0 | | 2.0 | 7.0 | 1.5 | 1.2 | 2.5 | 2.8 |
| S | 1.7 | 1.8 | .3 | * | .0 | | 3.8 | 8.4 | 3.8 | 4.4 | 3.5 | 3.5 |
| SW | 1.6 | 1.5 | .4 | * | .0 | | 3.5 | 8.8 | 3.7 | 3.9 | 3.4 | 3.0 |
| W | 3.2 | 4.4 | .7 | .1 | .0 | | 8.4 | 9.2 | 7.8 | 9.5 | 8.5 | 7.9 |
| NW | 8.3 | 30.6 | 9.6 | .7 | * | | 49.2 | 12.3 | 56.4 | 46.3 | 46.6 | 47.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.5 | | | | | | 3.5 | .0 | 2.5 | 4.6 | 3.8 | 3.2 |
| TOT OBS | 1217 | 2587 | 733 | 46 | 2 | 4585 | | 10.8 | 1193 | 1026 | 1083 | 1283 |
| TOT PCT | 26.5 | 56.4 | 16.0 | 1.0 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

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29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.5 | 5.2 | 44.3 | 43.8 | 3.9 | .3 | .0 | 11.3 | 100.0 | 1193 |
| 06&09 | 4.6 | 6.6 | 43.7 | 41.4 | 3.5 | .2 | .0 | 10.8 | 100.0 | 1026 |
| 12&15 | 3.8 | 6.4 | 47.4 | 38.0 | 4.3 | .2 | .0 | 10.6 | 100.0 | 1083 |
| 18&21 | 3.2 | 8.1 | 45.6 | 38.5 | 4.4 | .2 | .0 | 10.6 | 100.0 | 1283 |
| TOT | 159 | 303 | 2075 | 1853 | 186 | 9 | 0 | 10.8 | | 4585 |
| PCT | 3.5 | 6.6 | 45.3 | 40.4 | 4.1 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 12.9 | 2.9 | 5.6 | 3.9 | | 3.1 |
| NE | 2.1 | .4 | 1.0 | .3 | | 2.8 |
| E | 1.1 | .1 | .4 | .2 | | 2.8 |
| SE | .4 | .3 | .7 | .9 | | 5.1 |
| S | .9 | .4 | 1.0 | 1.1 | | 5.1 |
| SW | .7 | .4 | 1.2 | .9 | | 5.2 |
| W | 2.1 | 1.5 | 2.4 | 1.9 | | 4.5 |
| NW | 20.2 | 8.4 | 13.2 | 8.0 | | 3.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.4 | .5 | 1.1 | .4 | | 3.7 |
| TOT OBS | 1358 | 483 | 867 | 540 | 3248 | 3.7 |
| TOT PCT | 41.8 | 14.9 | 26.7 | 16.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .2 | 1.1 | 1.9 | 1.4 | .4 | .3 | .2 | * | 18.8 | |
| NE | * | * | .0 | * | .3 | .2 | .1 | .0 | .1 | .1 | 3.1 | |
| E | .1 | .0 | .0 | .1 | .1 | * | * | .0 | * | .0 | 1.5 | |
| SE | .1 | .0 | * | .2 | .2 | .2 | * | .1 | .0 | .0 | 1.1 | |
| S | .0 | .0 | * | .3 | .5 | .4 | .1 | .1 | * | .1 | 2.0 | |
| SW | .1 | * | * | .3 | .5 | .4 | .1 | * | * | .0 | 1.7 | |
| W | .1 | * | .1 | .6 | 1.2 | .8 | .2 | .1 | .1 | * | 4.7 | |
| NW | .8 | * | .6 | 3.0 | 5.6 | 4.0 | 1.3 | .3 | .2 | .2 | 33.6 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .0 | .1 | .2 | .1 | * | .0 | * | * | 2.6 | |
| TOT OBS | 54 | 6 | 30 | 188 | 340 | 241 | 75 | 30 | 22 | 14 | 2248 | 3248 |
| TOT PCT | 1.7 | .2 | .9 | 5.8 | 10.5 | 7.4 | 2.3 | .9 | .7 | .4 | 69.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >5000 | 1.9 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| * OR >3500 | 4.1 | 4.3 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| * OR >2000 | 10.9 | 11.6 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| * OR >1000 | 19.1 | 21.8 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 |
| * OR >600 | 23.1 | 27.1 | 27.8 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 |
| * OR >900 | 23.5 | 27.9 | 28.7 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 |
| * OR >150 | 23.6 | 28.0 | 28.8 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| * OR > 0 | 23.8 | 28.4 | 29.5 | 29.7 | 29.8 | 30.1 | 30.4 | 30.5 |
| TOTAL | 775 | 925 | 960 | 967 | 970 | 980 | 992 | 994 |

TOTAL NUMBER OF OBS: 3259

PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 32.0 | 9.5 | 10.7 | 8.9 | 7.2 | 5.6 | 7.1 | 7.2 | 10.6 | 1.2 | 3468 |

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PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | NO PCP | .2 | * | * | * | * | * | .1 | .5 | .0 | .1 | 1.0 | |
| | TOT % | .2 | * | * | * | * | * | .1 | .5 | .0 | .1 | 1.0 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .3 | |
| | TOT % | * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .3 | |
| | PCP | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | * | |
| 1<2 | NO PCP | .2 | * | .0 | * | * | .1 | .1 | .3 | .0 | * | .6 | |
| | TOT % | .2 | * | .0 | * | * | .1 | .1 | .3 | .0 | * | .6 | |
| | PCP | .0 | .0 | .0 | .0 | * | * | * | .1 | .0 | .0 | .2 | |
| 2<5 | NO PCP | .5 | .1 | * | * | * | .1 | .1 | .8 | .0 | * | 1.7 | |
| | TOT % | .5 | .1 | * | * | * | .1 | .1 | .9 | .0 | * | 1.9 | |
| | PCP | .1 | * | .0 | * | .1 | .1 | .1 | .1 | .0 | * | .5 | |
| 5<10 | NO PCP | 2.9 | .4 | .5 | .2 | .7 | .6 | .7 | 5.5 | .0 | .6 | 12.0 | |
| | TOT % | 3.0 | .4 | .5 | .2 | .8 | .6 | .8 | 5.6 | .0 | .6 | 12.5 | |
| | PCP | .1 | * | .0 | .1 | * | * | .0 | .3 | .0 | .0 | .6 | |
| 10+ | NO PCP | 19.9 | 2.8 | 1.4 | 1.6 | 2.7 | 2.6 | 7.4 | 42.1 | .0 | 2.5 | 83.0 | |
| | TOT % | 20.0 | 2.8 | 1.4 | 1.8 | 2.8 | 2.7 | 7.4 | 42.3 | .0 | 2.5 | 83.6 | |
| | TOT OBS | | | | | | | | | | | | 4164 |
| | TOT PCT | 29.9 | 3.3 | 2.0 | 2.1 | 3.7 | 3.5 | 8.5 | 49.7 | .0 | 3.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .1 | .3 | |
| <1/2 | 4-10 | .1 | * | * | * | * | * | .1 | .3 | .0 | | .6 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | * | * | * | * | * | .1 | .5 | .0 | .1 | 1.0 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | |
| 1/2<1 | 4-10 | * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .3 | |
| | 0-3 | * | .0 | .0 | * | * | * | * | .1 | .0 | * | .2 | |
| 1<2 | 4-10 | * | * | .0 | * | * | * | * | .2 | .0 | | .3 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .2 | * | .0 | * | * | .1 | .1 | .3 | .0 | * | .8 | |
| | 0-3 | .1 | * | * | * | .1 | .1 | * | .1 | .0 | * | .4 | |
| 2<5 | 4-10 | .3 | * | .0 | * | * | .1 | .1 | .5 | .0 | | 1.1 | |
| | 11-21 | .2 | * | .0 | .0 | .0 | .0 | * | .3 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | * | .0 | .1 | .0 | | .2 | |
| | TOT % | .6 | .1 | * | * | .1 | .2 | .2 | 1.0 | .0 | * | 2.2 | |
| | 0-3 | .2 | * | .2 | .1 | .1 | .1 | * | .2 | .0 | .5 | 1.4 | |
| 5<10 | 4-10 | 1.3 | .3 | .3 | .1 | .4 | .4 | .4 | 2.0 | .0 | | 5.2 | |
| | 11-21 | 1.3 | .1 | * | * | .3 | .1 | .2 | 2.8 | .0 | | 4.9 | |
| | 22+ | .1 | .0 | .0 | * | * | * | .0 | .5 | .0 | | .7 | |
| | TOT % | 2.9 | .4 | .5 | .2 | .8 | .6 | .7 | 5.5 | .0 | .5 | 12.2 | |
| | 0-3 | 1.0 | .3 | .3 | .4 | .5 | .3 | .6 | 1.5 | .0 | 2.6 | 7.4 | |
| 10+ | 4-10 | 9.5 | 1.6 | .9 | 1.0 | 1.5 | 1.6 | 4.5 | 16.9 | .0 | | 37.4 | |
| | 11-21 | 9.2 | 1.1 | .2 | .3 | .7 | .6 | 2.0 | 21.3 | .0 | | 35.3 | |
| | 22+ | .8 | .1 | .1 | * | * | .1 | .2 | 2.2 | .0 | | 3.4 | |
| | TOT % | 20.5 | 3.0 | 1.4 | 1.7 | 2.7 | 2.6 | 7.2 | 41.8 | .0 | 2.6 | 83.5 | |
| | TOT OBS | | | | | | | | | | | | 4617 |
| | TOT PCT | 24.4 | 3.5 | 1.9 | 2.1 | 3.7 | 3.4 | 8.3 | 49.3 | .0 | 3.3 | 100.0 | |

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PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0020 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | .2 | .9 | 5.9 | 10.6 | 6.8 | 2.0 | .9 | .9 | .4 | 29.5 | 70.5 | 918 |
| 06&09 | .8 | .1 | .5 | 4.2 | 8.6 | 5.5 | 1.4 | .8 | .5 | .4 | 22.9 | 77.1 | 764 |
| 12&15 | 2.3 | .1 | 1.1 | 5.1 | 10.7 | 7.0 | 1.6 | .5 | .5 | .4 | 29.4 | 70.6 | 746 |
| 18&21 | 2.2 | .2 | 1.1 | 6.9 | 10.3 | 9.3 | 3.7 | 1.3 | .9 | .4 | 36.2 | 63.8 | 948 |
| TOT | 54 | 6 | 30 | 189 | 341 | 244 | 76 | 30 | 24 | 14 | 1008 | 2368 | 3376 |
| PCT | 1.6 | .2 | .9 | 5.6 | 10.1 | 7.2 | 2.3 | .9 | .7 | .4 | 29.9 | 70.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .8 | .2 | 1.0 | 1.7 | 11.3 | 85.1 | 1153 |
| 06&09 | .5 | .2 | .5 | 1.4 | 13.1 | 84.4 | 1011 |
| 12&15 | 1.2 | .2 | .9 | 2.3 | 15.0 | 80.4 | 1054 |
| 18&21 | 1.4 | .5 | .7 | 3.2 | 10.1 | 84.1 | 1251 |
| TOT | 45 | 12 | 35 | 98 | 546 | 3733 | 4469 |
| PCT | 1.0 | .3 | .8 | 2.2 | 12.2 | 83.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <5/8 AND 3+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.0 | 2.2 | 9.1 | 21.6 | 69.3 | 889 |
| 06&09 | .7 | 1.4 | 6.2 | 17.9 | 75.9 | 738 |
| 12&15 | 2.1 | 3.6 | 9.3 | 21.2 | 69.5 | 722 |
| 18&21 | 2.2 | 4.1 | 12.3 | 25.7 | 62.0 | 910 |
| TOT | 49 | 93 | 306 | 711 | 2242 | 3259 |
| PCT | 1.5 | 2.9 | 9.4 | 21.8 | 68.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | * | .0 | .1 | .1 | * | * | * | .0 | 9 | .3 |
| 70/74 | .0 | .1 | * | .2 | .2 | .3 | .1 | .1 | 38 | 1.1 |
| 65/69 | .0 | .1 | .1 | .4 | 1.6 | 2.4 | 1.6 | .6 | 234 | 6.8 |
| 60/64 | .0 | .1 | .8 | 2.5 | 8.3 | 13.9 | 14.8 | 4.6 | 1554 | 45.0 |
| 55/59 | * | .1 | .5 | 1.4 | 5.9 | 12.0 | 15.7 | 7.3 | 1487 | 43.1 |
| 50/54 | .0 | * | .1 | .3 | .7 | .8 | .7 | 1.0 | 126 | 3.7 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 2 | .1 |
| TOTAL | 2 | 18 | 56 | 171 | 578 | 1021 | 1138 | 466 | 3450 | 100.0 |
| PCT | .1 | .5 | 1.6 | 5.0 | 16.8 | 29.6 | 33.0 | 13.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | * | * | * | .1 | .1 | .0 | .0 |
| .2 | .1 | * | .0 | .1 | * | .1 | .6 | .0 | .1 |
| 1.7 | .2 | .2 | .1 | .3 | .4 | .5 | 3.4 | .0 | .1 |
| 11.1 | 1.6 | .7 | 1.2 | 2.3 | 1.8 | 3.4 | 21.5 | .0 | 1.5 |
| 11.2 | 1.6 | .8 | .6 | .7 | 1.0 | 3.7 | 22.5 | .0 | 1.0 |
| .6 | .2 | * | .1 | * | .1 | .3 | 2.1 | .0 | .1 |
| * | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 |
| 24.8 | 3.6 | 1.8 | 1.9 | 3.5 | 3.4 | 8.1 | 50.2 | .0 | 2.8 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 78 | 74 | 68 | 61 | 56 | 54 | 52 | 61.5 | 1196 |
| 06&09 | 79 | 66 | 63 | 59 | 54 | 52 | 48 | 58.9 | 1036 |
| 12&15 | 77 | 65 | 63 | 58 | 54 | 51 | 48 | 58.3 | 1089 |
| 18&21 | 78 | 70 | 67 | 61 | 55 | 53 | 52 | 61.0 | 1282 |
| TOT | 79 | 70 | 66 | 60 | 55 | 53 | 48 | 60.0 | 4603 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 9.1 | 21.8 | 30.7 | 29.4 | 8.9 | 75 | 935 |
| 06&09 | .0 | 4.0 | 12.9 | 28.3 | 37.0 | 17.9 | 80 | 801 |
| 12&15 | .0 | 4.5 | 11.4 | 26.9 | 38.3 | 18.8 | 81 | 814 |
| 18&21 | .1 | 9.9 | 19.4 | 31.2 | 29.2 | 10.1 | 76 | 941 |
| TOT | 2 | 247 | 583 | 1027 | 1158 | 474 | 78 | 3491 |

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PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

TABLE 17

AREA 0030 BAJA
29.4N 116.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .1 | .0 | * | .1 | .2 | 12 | .0 | .3 |
| 11/13 | .0 | .0 | .0 | .0 | .1 | .1 | .2 | .1 | * | 18 | * | .4 |
| 9/10 | .0 | .0 | * | * | .1 | .3 | .3 | .1 | .0 | 31 | .0 | .8 |
| 7/8 | .0 | .0 | * | .1 | .4 | .6 | .6 | .0 | .0 | 64 | .0 | 1.6 |
| 6 | .0 | .0 | .0 | .1 | .5 | .6 | .2 | .0 | .0 | 52 | .0 | 1.3 |
| 5 | .0 | .0 | * | .1 | .9 | 1.0 | .1 | .0 | .0 | 87 | .0 | 2.2 |
| 4 | .0 | .0 | * | .3 | 2.2 | 1.4 | .1 | .0 | .0 | 151 | .2 | 3.7 |
| 3 | .0 | .0 | .0 | .6 | 2.7 | 1.1 | .0 | .0 | .0 | 174 | .1 | 4.4 |
| 2 | .0 | .0 | .2 | 2.1 | 4.9 | .5 | .0 | .0 | .0 | 299 | .2 | 7.5 |
| 1 | .0 | .0 | .2 | 3.4 | 4.3 | .3 | * | .0 | .0 | 321 | .2 | 8.0 |
| 0 | .0 | .0 | .4 | 7.2 | 6.8 | .4 | .0 | * | .0 | 580 | .4 | 14.4 |
| -1 | .0 | .0 | .7 | 7.5 | 3.0 | .1 | .0 | .0 | .0 | 443 | .4 | 10.9 |
| -2 | .0 | * | 2.0 | 10.1 | 3.2 | .1 | .0 | .0 | .0 | 605 | .6 | 14.9 |
| -3 | .0 | .1 | 1.5 | 6.1 | 1.1 | .1 | .0 | .0 | .0 | 349 | .5 | 8.4 |
| -4 | .0 | .1 | 2.2 | 4.5 | .7 | .1 | .0 | .0 | .0 | 296 | .4 | 7.2 |
| -5 | .0 | .1 | 2.3 | 2.2 | .3 | .0 | .0 | .0 | .0 | 192 | .2 | 4.7 |
| -6 | .0 | .1 | 1.3 | 1.4 | .2 | .0 | * | .0 | .0 | 119 | .2 | 2.8 |
| -7/-8 | 0 | .1 | 1.0 | .8 | .1 | .0 | .0 | .0 | .0 | 80 | .1 | 2.0 |
| -9/-10 | * | .1 | .5 | .2 | .1 | .0 | .0 | .0 | .0 | 32 | * | .8 |
| -11/-13 | .1 | * | .1 | .1 | .1 | .0 | .0 | .0 | .0 | 13 | * | .3 |
| -14/-16 | .0 | * | * | * | * | .0 | .0 | .0 | .0 | 4 | .0 | .1 |
| -17/-19 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 3 | | 489 | | 1239 | | 57 | | 7 | | 132 | 3793 |
| | | 28 | | 1831 | | 258 | | 13 | | 3925 | | |
| PCT | .1 | .7 | 12.5 | 46.6 | 31.6 | 6.6 | 1.5 | .3 | .2 | 100.0 | 3.4 | 96.6 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.2 | .1 | .0 | .0 | .0 | 1.7 |
| 1-2 | .5 | 5.8 | 2.5 | .0 | .0 | .0 | 8.8 |
| 3-4 | .0 | 2.9 | 4.2 | .1 | .0 | .0 | 7.2 |
| 5-6 | .2 | .6 | 2.6 | .3 | .0 | .0 | 3.7 |
| 7 | .0 | .4 | .5 | .2 | .0 | .0 | 1.1 |
| 8-9 | .0 | .1 | .2 | .2 | .0 | .0 | .5 |
| 10-11 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 10.9 | 10.3 | .9 | .0 | .0 | 23.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .1 | .0 | .0 | .0 | .8 |
| 1-2 | .1 | 1.4 | .4 | .0 | .0 | .0 | 1.9 |
| 3-4 | .0 | .3 | .6 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | .1 | .6 | * | .0 | .0 | .7 |
| 7 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.4 | 2.0 | .1 | .0 | .0 | 4.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .1 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .7 | .0 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .1 | .0 | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | .9 | .1 | .1 | .0 | .0 | 1.5 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | .1 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .4 | .1 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .2 | .3 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | .6 | .1 | .0 | .0 | 1.7 |

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0030 BAJA
29.4N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .3 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .2 | .9 | .1 | .0 | .0 | .0 | 1.2 |
| 3-4 | .0 | .1 | .4 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 1.3 | .8 | .0 | .0 | .0 | 2.7 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .2 | 1.3 | .2 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .3 | .7 | .0 | .0 | .0 | 1.0 |
| 5-6 | .0 | .0 | .3 | * | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | * | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.0 | 1.2 | .1 | .0 | .0 | 3.5 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .7 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .4 | 2.3 | .5 | .0 | .0 | .0 | 3.2 |
| 3-4 | .1 | .8 | .9 | .0 | .0 | .0 | 1.8 |
| 5-6 | .0 | .1 | .6 | .2 | .0 | .0 | 1.0 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .1 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 4.0 | 2.1 | .4 | .0 | .0 | 7.3 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .2 | 2.0 | .1 | .0 | .0 | .0 | 2.3 | |
| 1-2 | .8 | 11.6 | 5.5 | .0 | .0 | .0 | 17.9 | |
| 3-4 | .2 | 4.4 | 11.0 | .3 | .0 | .0 | 15.9 | |
| 5-6 | * | 2.0 | 5.5 | .7 | .0 | .0 | 8.3 | |
| 7 | .0 | .3 | 2.7 | .7 | .1 | .0 | 3.8 | |
| 8-9 | .0 | .1 | .6 | .5 | .0 | .0 | 1.1 | |
| 10-11 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 12 | .1 | .0 | .1 | .3 | .0 | .0 | .5 | |
| 13-16 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.3 | 20.3 | 25.7 | 2.9 | .1 | .0 | 50.2 | 95.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.4 | 5.5 | .3 | .0 | .0 | .0 | 13.3 | |
| 1-2 | 2.2 | 24.3 | 9.2 | .0 | .0 | .0 | 35.8 | |
| 3-4 | .3 | 8.8 | 18.1 | .4 | .0 | .0 | 27.6 | |
| 5-6 | .2 | 2.8 | 9.9 | 1.4 | .0 | .0 | 14.4 | |
| 7 | .0 | .7 | 3.7 | 1.2 | .1 | .0 | 5.7 | |
| 8-9 | .0 | .2 | .9 | .8 | .0 | .0 | 1.9 | |
| 10-11 | .0 | .0 | .3 | .2 | .0 | .0 | .5 | |
| 12 | .1 | .0 | .1 | .5 | .0 | .0 | .6 | |
| 13-16 | .0 | .0 | .1 | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 10.3 | 42.4 | 42.6 | 4.6 | .1 | .0 | 100.0 | 1250 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.8 | 14.1 | 15.7 | 6.9 | 3.0 | .9 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1289 | 3 |
| 6-7 | .2 | 1.8 | 8.1 | 8.2 | 3.2 | 1.7 | .8 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 702 | 5 |
| 8-9 | .0 | 1.0 | 2.1 | 3.8 | 3.5 | 1.1 | .5 | .4 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 366 | 6 |
| 10-11 | .0 | 1.2 | 1.2 | 2.3 | 1.0 | .8 | .5 | .3 | .3 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 221 | 6 |
| 12-13 | .0 | .0 | .6 | .3 | .5 | .3 | .1 | .2 | * | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 59 | 8 |
| >13 | .0 | .0 | .0 | .3 | .2 | .4 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 60 | 7 |
| INDET | 2.6 | 1.5 | 1.1 | .9 | .4 | .3 | * | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 208 | 3 |
| TOTAL | 188 | 568 | 831 | 659 | 338 | 158 | 67 | 42 | 24 | 3 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2885 | 4 |
| PCT | 6.5 | 19.7 | 28.8 | 22.8 | 11.7 | 5.5 | 2.3 | 1.5 | .8 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

AREA 0030 BAJA
29.4N 115.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .0 | .2 | .2 | .0 | .0 | .0 | .0 | .4 | .3 | .1 | 1.8 | .0 | 2.4 | | .1 | 95.0 |
| NE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2.3 | .0 | 1.6 | | .0 | 96.1 |
| E | 1.7 | .0 | .0 | .0 | .0 | .0 | .0 | 1.7 | 2.3 | .0 | 10.2 | .0 | 4.5 | | .0 | 81.3 |
| SE | 2.3 | .0 | 1.8 | .0 | .0 | .0 | .0 | 2.3 | 2.3 | .0 | .9 | .0 | 3.7 | | .0 | 90.8 |
| S | 1.5 | 1.5 | .9 | .0 | .0 | .0 | .0 | 3.9 | 3.6 | .0 | 7.8 | .0 | 1.7 | | .0 | 88.0 |
| SW | 2.8 | 2.6 | 1.2 | .0 | .0 | .0 | .0 | 6.7 | 2.8 | 1.0 | .0 | .0 | 2.4 | | .0 | 86.1 |
| W | 1.5 | .4 | 1.1 | .0 | .0 | .0 | .0 | 2.9 | .9 | .8 | 1.7 | .0 | 3.2 | | .0 | 90.5 |
| NW | .1 | .3 | .3 | .0 | .0 | .0 | .0 | .7 | .5 | .1 | 1.6 | * | 2.5 | | * | 94.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | 7.7 | .0 | 6.7 | | .0 | 84.6 |
| TOT PCT | .4 | .4 | .4 | .0 | .0 | .0 | .0 | 1.1 | .7 | .2 | 1.9 | * | 2.6 | | * | 93.6 |
| TOT OBS: | 4824 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .2 | .2 | .5 | .0 | .0 | .0 | .0 | .9 | .6 | .1 | 1.8 | .0 | 3.4 | | .1 | 93.2 |
| 06&09 | .5 | .5 | .3 | .0 | .0 | .0 | .0 | 1.1 | .5 | .3 | 2.1 | .0 | 1.9 | | .0 | 94.2 |
| 12&15 | .5 | .3 | .4 | .0 | .0 | .0 | .0 | 1.1 | 1.0 | .4 | 1.8 | .0 | 1.8 | | .0 | 93.9 |
| 18&21 | .5 | .4 | .4 | .0 | .0 | .0 | .0 | 1.2 | .6 | .0 | 1.9 | .1 | 3.0 | | .0 | 93.1 |
| TOT PCT | .4 | .3 | .4 | .0 | .0 | .0 | .0 | 1.1 | .7 | .2 | 1.9 | * | 2.6 | | * | 93.6 |
| TOT OBS: | 4871 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .8 | 7.5 | 10.3 | 1.6 | .1 | .0 | | 20.2 | 13.0 | 16.6 | 18.8 | 20.1 | 17.7 | 21.6 | 24.4 | 22.6 | 20.2 |
| NE | .2 | .9 | .4 | .1 | * | .0 | | 1.6 | 9.8 | .8 | 2.2 | 1.6 | .7 | 1.7 | 2.2 | 2.3 | .7 |
| E | .2 | .4 | .2 | .1 | * | .0 | | .9 | 9.3 | .6 | .7 | .7 | 1.1 | .9 | .7 | 1.2 | .4 |
| SE | .2 | .9 | .3 | .0 | .0 | .0 | | 1.3 | 7.9 | 1.0 | 1.8 | 1.0 | 1.9 | .9 | 2.2 | 1.6 | 2.7 |
| S | .4 | 1.6 | .5 | .0 | .0 | .0 | | 2.6 | 7.3 | 2.4 | 6.1 | 2.0 | 2.7 | 2.9 | 2.8 | 2.3 | 3.0 |
| SW | .3 | 1.9 | .3 | .1 | .0 | .0 | | 2.6 | 7.6 | 2.0 | 2.4 | 2.4 | 5.4 | 2.9 | 4.8 | 2.2 | 4.3 |
| W | 1.0 | 5.5 | 2.5 | .3 | .0 | .0 | | 9.3 | 9.5 | 10.0 | 11.6 | 9.0 | 13.0 | 8.2 | 10.0 | 8.7 | 10.9 |
| NW | 1.7 | 20.3 | 32.6 | 4.5 | .2 | .0 | | 59.2 | 13.4 | 65.0 | 52.8 | 60.4 | 56.5 | 58.2 | 50.9 | 56.7 | 54.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | | 2.3 | .0 | 1.5 | 3.7 | 2.7 | 1.1 | 2.7 | 2.0 | 2.4 | 3.6 |
| TOT OBS | 376 | 2067 | 2492 | 347 | 13 | 0 | 5295 | | 12.2 | 1239 | 136 | 991 | 186 | 1025 | 203 | 1290 | 225 |
| TOT PCT | 7.1 | 39.0 | 47.1 | 6.6 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.1 | 11.5 | 5.3 | .3 | .0 | | 20.2 | 13.0 | 16.8 | 19.8 | 22.0 | 22.2 |
| NE | .6 | .8 | .2 | * | .0 | | 1.6 | 9.8 | .9 | 1.5 | 1.8 | 2.1 |
| E | .4 | .4 | .1 | * | .0 | | .9 | 9.3 | .7 | .7 | .9 | 1.1 |
| SE | .5 | .8 | * | .0 | .0 | | 1.3 | 7.9 | 1.1 | 1.2 | 1.1 | 1.7 |
| S | 1.3 | 1.2 | * | .0 | .0 | | 2.6 | 7.3 | 2.8 | 2.1 | 2.9 | 2.4 |
| SW | 1.3 | 1.2 | .1 | * | .0 | | 2.6 | 7.6 | 2.0 | 2.9 | 3.2 | 2.5 |
| W | 3.4 | 4.8 | 1.1 | .1 | .0 | | 9.3 | 9.5 | 10.2 | 9.6 | 8.5 | 9.0 |
| NW | 7.7 | 34.7 | 15.8 | 1.0 | .0 | | 59.2 | 13.4 | 63.8 | 59.8 | 57.0 | 56.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | 2.3 | .0 | 1.7 | 2.5 | 2.6 | 2.6 |
| TOT OBS | 1091 | 2930 | 1200 | 74 | 0 | 5295 | | 12.2 | 1375 | 1177 | 1228 | 1515 |
| TOT PCT | 20.6 | 55.3 | 22.7 | 1.4 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1879-1974

TABLE 4

AREA 0030 BAJA
29.4N 116.5W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 3.3 | 36.7 | 49.8 | 8.1 | .3 | .0 | 12.8 | 100.0 | 1375 |
| 06&09 | 2.3 | 4.6 | 37.1 | 48.9 | 6.6 | .3 | .0 | 12.4 | 100.0 | 1177 |
| 12&15 | 2.6 | 5.5 | 39.7 | 46.2 | 5.7 | .2 | .0 | 11.9 | 100.0 | 1228 |
| 18&21 | 2.6 | 5.6 | 42.0 | 43.8 | 5.7 | .2 | .0 | 11.6 | 100.0 | 1515 |
| TOT | 124 | 292 | 2067 | 2492 | 347 | 13 | 0 | 12.2 | | 5295 |
| PCT | 2.3 | 4.8 | 39.0 | 47.1 | 6.6 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.4 | 3.5 | 5.4 | 3.2 | | 3.7 |
| NE | .9 | .3 | .4 | .1 | | 2.6 |
| E | .4 | .1 | .2 | .2 | | 3.6 |
| SE | .2 | .1 | .4 | .3 | | 5.3 |
| S | .5 | .2 | .7 | .6 | | 5.0 |
| SW | .5 | .4 | .8 | .5 | | 5.0 |
| W | 2.5 | 1.4 | 3.2 | 2.0 | | 4.7 |
| NW | 19.3 | 10.8 | 18.3 | 11.9 | | 4.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .7 | .4 | .4 | .6 | | 4.1 |
| TOT OBS | 1240 | 639 | 1101 | 721 | 3701 | 4.2 |
| TOT PCT | 33.5 | 17.3 | 29.7 | 19.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .0 | .2 | 1.1 | 2.0 | 1.6 | .7 | .1 | .1 | .2 | 14.4 | |
| NE | .0 | .0 | * | .1 | * | * | .1 | * | .0 | .0 | 1.5 | |
| E | * | .0 | * | .1 | .1 | .0 | * | * | * | .0 | .5 | |
| SE | * | .0 | * | .2 | .1 | .1 | * | .0 | .0 | .1 | .5 | |
| S | * | .0 | .1 | .2 | .3 | .3 | * | .1 | .0 | .0 | 1.0 | |
| SW | * | * | .1 | .2 | .3 | .2 | .2 | .1 | * | .0 | 1.2 | |
| W | .2 | .0 | .1 | .7 | 1.6 | .7 | .2 | .1 | .1 | .1 | 5.3 | |
| NW | .5 | .3 | .9 | 4.2 | 9.1 | 5.5 | 1.9 | .5 | .3 | .2 | 36.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .0 | .2 | .3 | .1 | .1 | * | * | .0 | 1.3 | |
| TOT OBS | 38 | 13 | 55 | 256 | 513 | 313 | 121 | 31 | 19 | 20 | 2322 | 3701 |
| TOT PCT | 1.0 | .4 | 1.5 | 6.9 | 13.9 | 8.5 | 3.3 | .8 | .5 | .5 | 62.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >5000 | 1.6 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 4.3 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| * OR >2000 | 11.4 | 13.5 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 |
| * OR >1000 | 23.4 | 27.3 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| * OR >600 | 29.7 | 34.0 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| * OR >300 | 29.5 | 35.4 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| * OR >150 | 29.8 | 35.7 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 |
| * OR > 0 | 30.0 | 36.2 | 36.8 | 37.0 | 37.1 | 37.1 | 37.3 | 37.3 |
| TOTAL | 1118 | 1346 | 1371 | 1375 | 1380 | 1382 | 1387 | 1389 |

TOTAL NUMBER OF OBS: 3721

PCT FREQ NH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 24.6 | 8.9 | 10.4 | 9.2 | 8.3 | 5.8 | 8.5 | 9.1 | 14.6 | .6 | 4010 |

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

TABLE 8

AREA 0030 BAJA
29.4N 116.5W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | * | * | .0 | * | * | * | .1 | .0 | .0 | .3 | |
| | TOT % | .1 | * | * | .0 | * | * | * | .1 | .0 | .0 | .3 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | * | .0 | * | .0 | .0 | .0 | .0 | .1 | .0 | * | .1 | |
| | TOT % | * | .0 | * | .0 | .0 | .0 | .0 | .1 | .0 | * | .1 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| | NO PCP | .0 | .0 | .0 | * | * | .0 | * | .1 | .0 | * | .2 | |
| | TOT % | .0 | .0 | .0 | * | * | .0 | * | .1 | .0 | * | .2 | |
| 2<5 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | * | .0 | * | .0 | .2 | .7 | .0 | .1 | 1.1 | |
| | TOT % | .1 | * | * | .0 | * | .0 | .2 | .7 | .0 | .1 | 1.2 | |
| 5<10 | PCP | .1 | .0 | .0 | .0 | * | .1 | .1 | .2 | .0 | * | .5 | |
| | NO PCP | 2.2 | .1 | .2 | .1 | .6 | .6 | 1.2 | 6.5 | .0 | .4 | 11.9 | |
| | TOT % | 2.3 | .1 | .2 | .1 | .6 | .7 | 1.3 | 6.7 | .0 | .4 | 12.4 | |
| 10+ | PCP | * | .0 | * | * | .1 | .1 | .2 | .1 | .0 | .0 | .5 | |
| | NO PCP | 17.4 | 1.4 | .6 | 1.0 | 1.7 | 1.8 | 7.8 | 52.0 | .0 | 1.6 | 85.3 | |
| | TOT % | 17.4 | 1.4 | .6 | 1.0 | 1.8 | 1.9 | 7.9 | 52.1 | .0 | 1.6 | 85.7 | |
| | TOT OBS | | | | | | | | | | | | 4808 |
| | TOT PCT | 20.0 | 1.6 | .9 | 1.1 | 2.4 | 2.6 | 9.9 | 59.8 | .0 | 2.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | .0 | .0 | .0 | * | .0 | * | * | .0 | .0 | .1 | |
| | 4-10 | * | * | * | * | * | * | * | .1 | .0 | | .3 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | * | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | * | * | .1 | * | * | .2 | .0 | .0 | .5 | |
| 1/2<1 | 0-3 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | * | |
| | 4-10 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | * | .0 | .0 | .0 | .0 | .1 | .0 | * | .2 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| | 4-10 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | * | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | * | * | .0 | .1 | .2 | .0 | * | .3 | |
| 2<5 | 0-3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | |
| | 4-10 | .2 | * | * | .0 | * | * | .2 | .5 | .0 | | .9 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .4 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | * | * | .0 | * | * | .2 | .9 | .0 | .1 | 1.5 | |
| 5<10 | 0-3 | .1 | .0 | * | * | .1 | * | .1 | .4 | .0 | .4 | 1.3 | |
| | 4-10 | .8 | .1 | .1 | .1 | .3 | .4 | .8 | 2.7 | .0 | | 5.4 | |
| | 11-21 | 1.2 | .0 | * | * | .2 | .1 | .4 | 3.1 | .0 | | 5.1 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | * | * | .4 | .0 | | .6 | |
| | TOT % | 2.2 | .1 | .2 | .2 | .6 | .6 | 1.3 | 6.7 | .0 | .4 | 12.3 | |
| 10+ | 0-3 | .6 | .2 | .1 | .1 | .3 | .3 | .8 | 1.1 | .0 | 1.5 | 4.9 | |
| | 4-10 | 6.3 | .7 | .3 | .8 | 1.2 | 1.4 | 4.6 | 16.9 | .0 | | 32.2 | |
| | 11-21 | 9.0 | .4 | .2 | .2 | .3 | .2 | 2.1 | 29.6 | .0 | | 41.8 | |
| | 22+ | 1.6 | .1 | .1 | .0 | .0 | * | .3 | 4.3 | .0 | | 6.4 | |
| | TOT % | 17.5 | 1.3 | .6 | 1.1 | 1.9 | 1.9 | 7.8 | 51.7 | .0 | 1.5 | 85.3 | |
| | TOT OBS | | | | | | | | | | | | 5100 |
| | TOT PCT | 20.1 | 1.5 | .8 | 1.3 | 2.5 | 2.6 | 9.4 | 59.7 | .0 | 2.1 | 100.0 | |

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

AREA 0030 BAJA
29.4N 116.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .7 | .6 | 1.3 | 5.7 | 11.6 | 8.3 | 3.3 | .9 | .7 | .4 | 33.6 | 66.4 | 1076 |
| 06&09 | .6 | .1 | 1.2 | 6.7 | 13.6 | 6.4 | 2.6 | .5 | .1 | .7 | 32.4 | 67.6 | 854 |
| 12&15 | 1.1 | .2 | 2.2 | 7.0 | 15.2 | 8.3 | 2.7 | .9 | .5 | .4 | 38.5 | 61.5 | 811 |
| 18&21 | 1.4 | .4 | 1.2 | 7.4 | 14.0 | 9.5 | 3.9 | 1.0 | .5 | .6 | 40.0 | 60.0 | 1115 |
| TOT | 38 | 14 | 55 | 257 | 520 | 317 | 124 | 32 | 19 | 20 | 1396 | 2460 | 3856 |
| PCT | 1.0 | .4 | 1.4 | 6.7 | 13.5 | 8.2 | 3.2 | .8 | .5 | .5 | 36.2 | 63.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .2 | .4 | 1.4 | 10.0 | 88.0 | 1326 |
| 06&09 | .7 | .0 | .3 | 1.9 | 13.9 | 83.2 | 1155 |
| 12&15 | .7 | .1 | .2 | 1.1 | 15.6 | 82.4 | 1190 |
| 18&21 | .5 | .3 | .3 | 1.7 | 10.3 | 86.9 | 1475 |
| TOT | 24 | 8 | 15 | 78 | 631 | 4390 | 5146 |
| PCT | .5 | .2 | .3 | 1.5 | 12.3 | 85.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <3OYD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .8 | 2.7 | 8.9 | 25.9 | 69.2 | 1037 |
| 06&09 | .6 | 2.1 | 9.8 | 24.5 | 65.7 | 825 |
| 12&15 | 1.3 | 3.9 | 11.5 | 28.5 | 60.1 | 786 |
| 18&21 | 1.5 | 3.3 | 11.3 | 30.0 | 58.7 | 1073 |
| TOT | 39 | 111 | 384 | 1017 | 2320 | 3721 |
| PCT | 1.0 | 3.0 | 10.3 | 27.3 | 62.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | * | * | .1 | .0 | .0 | .0 | .0 | 4 | .1 |
| 70/74 | .0 | * | .1 | .2 | .4 | .2 | .1 | * | 37 | 1.0 |
| 65/69 | .0 | .0 | .2 | 1.1 | 1.9 | 3.0 | 1.9 | .9 | 344 | 8.9 |
| 60/64 | .0 | .1 | .4 | 1.9 | 9.2 | 13.6 | 12.5 | 2.9 | 1566 | 40.6 |
| 55/59 | .0 | .1 | .3 | 1.0 | 7.1 | 14.9 | 17.5 | 5.6 | 1797 | 46.5 |
| 50/54 | .0 | .0 | * | .2 | .5 | .6 | 1.1 | .4 | 113 | 2.9 |
| TOTAL | 0 | 6 | 37 | 171 | 740 | 1247 | 1281 | 379 | 3861 | 100.0 |
| PCT | .0 | .2 | 1.0 | 4.4 | 19.2 | 32.3 | 33.2 | 9.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * |
| .2 | .1 | * | .0 | * | .0 | .0 | .6 | .0 | * |
| 1.6 | .2 | .2 | .1 | .3 | .3 | .8 | 5.4 | .0 | .1 |
| 8.4 | .6 | .2 | .5 | .9 | 1.1 | 3.9 | 23.8 | .0 | 1.1 |
| 9.2 | .6 | .3 | .5 | 1.1 | .8 | 3.9 | 29.0 | .0 | 1.0 |
| .7 | .1 | .1 | .0 | .0 | .1 | .4 | 1.6 | .0 | .1 |
| 20.2 | 1.7 | .8 | 1.1 | 2.2 | 2.3 | 9.1 | 60.3 | .0 | 2.3 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 77 | 72 | 68 | 61 | 56 | 54 | 48 | 61.5 | 1372 |
| 06&09 | 71 | 66 | 63 | 58 | 55 | 52 | 49 | 58.6 | 1178 |
| 12&15 | 74 | 69 | 63 | 58 | 54 | 52 | 50 | 58.0 | 1237 |
| 18&21 | 75 | 70 | 68 | 61 | 56 | 54 | 48 | 61.1 | 1508 |
| TOT | 77 | 70 | 66 | 60 | 55 | 52 | 48 | 59.9 | 5295 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 7.6 | 23.1 | 34.1 | 27.5 | 7.7 | 75 | 1055 |
| 06&09 | .0 | 2.7 | 14.8 | 31.2 | 39.3 | 12.0 | 79 | 884 |
| 12&15 | .0 | 2.6 | 14.0 | 30.6 | 40.1 | 12.7 | 80 | 376 |
| 18&21 | .0 | 8.2 | 22.7 | 32.9 | 28.0 | 8.2 | 75 | 1085 |
| TOT | 0 | 216 | 744 | 1261 | 1292 | 387 | 77 | 3900 |

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

AREA 0030 BAJA
29.4N 116.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | * |
| 14/16 | .0 | .0 | .0 | * | * | .1 | .1 | .0 | 9 | .0 | .2 |
| 11/13 | .0 | .0 | * | .1 | .1 | .3 | .1 | .0 | 28 | .0 | .6 |
| 9/10 | .0 | .0 | * | .1 | .6 | .4 | .0 | .0 | 48 | .0 | 1.1 |
| 7/8 | .0 | * | .1 | .5 | 1.1 | .5 | * | .0 | 103 | .1 | 2.2 |
| 6 | .0 | .0 | * | .5 | 1.0 | .1 | .0 | .0 | 75 | .1 | 1.5 |
| 5 | .0 | .0 | .3 | 1.0 | 1.4 | .1 | * | .0 | 128 | .1 | 2.8 |
| 4 | .0 | * | .5 | 2.3 | 1.2 | * | .0 | .0 | 184 | .1 | 4.0 |
| 3 | .0 | .1 | .8 | 2.8 | 1.2 | .1 | .0 | .0 | 226 | .1 | 4.9 |
| 2 | * | .2 | 2.6 | 5.2 | .6 | .0 | .0 | .0 | 387 | .1 | 8.4 |
| 1 | .0 | .3 | 3.6 | 4.3 | .2 | .0 | .0 | .0 | 384 | .2 | 8.3 |
| 0 | .0 | 1.0 | 9.6 | 5.9 | .2 | .0 | .0 | .0 | 755 | .4 | 16.3 |
| -1 | * | 1.0 | 7.9 | 2.2 | .1 | .0 | .0 | .0 | 506 | .1 | 11.1 |
| -2 | .1 | 2.3 | 9.3 | 2.2 | * | .0 | .0 | .0 | 623 | .2 | 13.6 |
| -3 | .0 | 2.7 | 4.7 | .9 | * | * | .0 | .0 | 374 | .2 | 8.1 |
| -4 | .2 | 2.6 | 3.9 | .6 | * | .0 | .0 | .0 | 328 | .1 | 7.2 |
| -5 | .1 | 1.4 | 1.4 | .1 | * | * | .0 | .0 | 138 | .1 | 3.0 |
| -6 | .1 | .9 | 1.0 | .1 | .0 | .0 | .0 | .0 | 92 | * | 2.0 |
| -7/-8 | .2 | 1.0 | .8 | * | .0 | .0 | .0 | .0 | 91 | .0 | 2.0 |
| -9/-10 | * | .2 | .2 | .1 | * | .0 | .0 | .0 | 22 | .0 | .5 |
| -11/-13 | .0 | .1 | .1 | * | .0 | .0 | .0 | .0 | 9 | .0 | .2 |
| -14/-16 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 37 | 615 | 2108 | 1313 | 359 | 70 | 10 | 1 | 4513 | 82 | 4424 |
| PCT | .8 | 13.6 | 46.7 | 29.1 | 8.0 | 1.6 | .2 | * | 100.0 | 2.0 | 98.0 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .8 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .1 | 4.2 | 1.3 | .0 | .0 | .0 | 5.6 |
| 3-4 | .0 | 1.9 | 3.7 | .4 | .0 | .0 | 6.0 |
| 5-6 | .0 | .3 | 3.1 | .4 | .0 | .0 | 3.9 |
| 7 | .0 | .1 | 1.7 | .3 | .0 | .0 | 2.1 |
| 8-9 | .0 | .0 | .7 | .4 | .1 | .0 | 1.1 |
| 10-11 | .0 | .0 | .2 | .2 | .0 | .0 | .4 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 7.3 | 10.7 | 1.9 | .1 | .0 | 20.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | .5 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .2 | .2 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .2 | .0 | * | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | .5 | .1 | * | .0 | 1.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | .1 | .1 | .0 | .0 | .0 | .2 |
| 3-4 | .1 | .0 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .1 | .1 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .3 | .2 | .1 | .1 | .0 | .9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .3 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .7 | .3 | .0 | .0 | .0 | 1.0 |

PERIOD: (OVER-ALL) 1963-1974

MARCH

TABLE 18 (CONT)

AREA 0030 BAJA 29.4N 116.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .3 | .1 | .0 | .0 | .0 | .5 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .2 | .1 | .0 | .0 | .0 | .3 | .1 | .4 | .2 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .3 | .1 | .0 | .0 | .0 | .4 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .8 | .4 | .0 | .0 | .0 | 1.3 | .1 | 1.3 | .2 | .1 | .0 | .0 | 1.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .8 | .4 | 1.5 | .1 | .0 | .0 | .0 | 2.0 | |
| 1-2 | .5 | 3.0 | .5 | .0 | .0 | .0 | 4.0 | .2 | 8.1 | 4.8 | .0 | .0 | .0 | 13.0 | |
| 3-4 | .1 | 1.5 | 1.2 | .3 | .0 | .0 | 3.0 | .1 | 5.7 | 14.1 | 1.6 | .0 | .0 | 21.5 | |
| 5-6 | .1 | .3 | .9 | .2 | .0 | .0 | 1.4 | .0 | 1.4 | 10.4 | 1.7 | .0 | .0 | 13.5 | |
| 7 | .0 | .0 | .3 | .1 | .0 | .0 | .4 | .0 | .3 | 4.9 | 1.1 | .1 | .0 | 6.4 | |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | .0 | .0 | 1.4 | .6 | * | .0 | 2.0 | |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .8 | .7 | .1 | .0 | 1.6 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .2 | .1 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 5.2 | 3.1 | .6 | .0 | .0 | 9.9 | .7 | 17.0 | 36.9 | 5.8 | .4 | .0 | 60.8 | 97.9 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.9 | 4.0 | .2 | .0 | .0 | .0 | 8.1 | |
| 1-2 | 1.0 | 16.8 | 7.1 | .0 | .0 | .0 | 24.9 | |
| 3-4 | .3 | 10.1 | 19.4 | 2.2 | .0 | .0 | 32.1 | |
| 5-6 | .1 | 2.1 | 14.5 | 2.4 | .0 | .0 | 19.2 | |
| 7 | .0 | .4 | 7.1 | 1.6 | .1 | .0 | 9.1 | |
| 8-9 | .0 | .0 | 2.3 | 1.1 | .1 | .0 | 3.5 | |
| 10-11 | .0 | .0 | 1.1 | 1.0 | .1 | .0 | 2.2 | |
| 12 | .0 | .0 | .3 | .2 | .0 | .0 | .5 | |
| 13-16 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .1 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 5.2 | 33.4 | 52.3 | 8.5 | .5 | .0 | 100.0 | 1471 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.9 | 11.4 | 14.8 | 7.8 | 3.2 | 1.2 | .1 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1449 | 4 |
| 6-7 | .1 | 1.5 | 7.0 | 8.8 | 5.9 | 2.9 | 1.6 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 976 | 6 |
| 8-9 | .1 | .6 | 1.6 | 3.6 | 3.4 | 2.3 | .9 | .6 | .5 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 469 | 7 |
| 10-11 | .0 | .6 | .7 | 1.3 | .9 | .8 | .8 | .4 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 194 | 7 |
| 12-13 | .0 | .0 | .4 | .4 | .4 | .2 | .4 | .3 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 86 | 8 |
| >13 | .0 | .0 | .0 | .3 | .2 | .1 | .2 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 32 | 8 |
| INDET | 2.3 | 1.3 | .8 | 1.0 | .4 | .2 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 213 | 3 |
| TOTAL | 182 | 528 | 868 | 794 | 487 | 268 | 161 | 64 | 53 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3419 | 5 |
| PCT | 5.3 | 15.4 | 25.4 | 23.2 | 14.2 | 7.8 | 4.7 | 1.9 | 1.6 | .4 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .3 | .2 | .0 | 2.2 | .0 | 2.5 | .1 | | 94.7 |
| NE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100.0 |
| E | .0 | .0 | 5.7 | .0 | .0 | .0 | .0 | 5.7 | 5.7 | .0 | 4.3 | .0 | .0 | .0 | | 84.3 |
| SE | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | 3.0 | .0 | .0 | 4.5 | .0 | 6.7 | .0 | | 85.8 |
| S | .6 | 1.8 | 3.2 | .0 | .0 | .0 | .0 | 5.6 | 3.2 | .0 | 1.5 | .0 | 2.9 | .0 | | 86.8 |
| SW | .4 | 1.1 | .9 | .0 | .0 | .0 | .0 | 2.6 | 1.1 | .7 | 3.1 | .0 | 2.7 | .0 | | 90.0 |
| W | .2 | .4 | .3 | .0 | .0 | .0 | .0 | .9 | .9 | .0 | 2.1 | .2 | 3.6 | .0 | | 92.1 |
| NW | .1 | * | .1 | .0 | .0 | .0 | .0 | .2 | .4 | .0 | 2.1 | .2 | 3.6 | * | | 93.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | 1.3 | .0 | .0 | .0 | .0 | .0 | 1.3 | .0 | .0 | 9.0 | 1.3 | 10.3 | .0 | | 78.2 |
| TOT PCT | .1 | .2 | .2 | .0 | .0 | .0 | .0 | .5 | .5 | * | 2.2 | .1 | 3.5 | * | | 93.0 |
| TOT OBS: | 4713 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .2 | .2 | .2 | .0 | .0 | .0 | .0 | .5 | .2 | .0 | 1.8 | .2 | 5.1 | .0 | | 92.2 |
| 06&09 | .0 | .3 | .3 | .0 | .0 | .0 | .0 | .6 | .4 | .0 | 1.5 | .1 | 3.0 | .1 | | 94.4 |
| 12&15 | .2 | .1 | .4 | .0 | .0 | .0 | .0 | .7 | .6 | .1 | 2.4 | .1 | 2.1 | .0 | | 94.0 |
| 18&21 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .4 | .7 | .0 | 3.3 | .2 | 3.4 | .0 | | 92.0 |
| TOT PCT | .1 | .2 | .2 | .0 | .0 | .0 | .0 | .5 | .5 | * | 2.3 | .1 | 3.5 | * | | 93.1 |
| TOT OBS: | 4749 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 4.8 | 8.3 | .9 | * | .0 | | 14.4 | 13.2 | 11.9 | 14.7 | 13.5 | 13.8 | 15.0 | 18.6 | 16.7 | 15.9 |
| NE | .1 | .3 | .1 | * | .0 | .0 | | .5 | 9.9 | .1 | .0 | .6 | .6 | .9 | .6 | .5 | .8 |
| E | .1 | .2 | * | * | .0 | .0 | | .3 | 7.0 | .2 | .0 | .4 | .6 | .5 | .0 | .4 | .0 |
| SE | .2 | .4 | .1 | .0 | .0 | .0 | | .7 | 6.1 | .7 | 1.3 | .2 | .3 | .8 | .0 | 1.1 | .5 |
| S | .3 | 1.0 | .4 | * | * | .0 | | 1.7 | 8.4 | 1.6 | .8 | 2.4 | 1.3 | 1.3 | 1.2 | 1.9 | .3 |
| SW | .4 | 2.0 | .6 | * | * | .0 | | 3.1 | 7.8 | 2.9 | 2.8 | 3.1 | 3.1 | 3.2 | 4.3 | 2.8 | 3.9 |
| W | .7 | 6.4 | 3.8 | .2 | .0 | .0 | | 11.2 | 9.8 | 12.1 | 12.8 | 11.1 | 13.0 | 11.2 | 8.1 | 10.1 | 12.5 |
| NW | .9 | 22.7 | 38.5 | 4.1 | .2 | .0 | | 66.3 | 13.4 | 69.1 | 66.0 | 67.3 | 65.5 | 64.6 | 66.6 | 64.5 | 63.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.7 | | | | | | | 1.7 | .0 | 1.4 | 1.5 | 1.4 | 1.9 | 2.3 | .6 | 2.0 | 2.1 |
| TOT OBS | 249 | 1925 | 2641 | 273 | 10 | 0 | 5098 | | 12.4 | 1301 | 133 | 976 | 160 | 930 | 173 | 1235 | 190 |
| TOT PCT | 4.9 | 37.8 | 51.8 | 5.4 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.7 | 8.8 | 3.8 | .1 | .0 | | 14.4 | 13.2 | 12.1 | 13.5 | 15.6 | 16.6 |
| NE | .2 | .3 | .1 | .0 | .0 | | .5 | 9.9 | .1 | .6 | .8 | .5 |
| E | .2 | .1 | * | .0 | .0 | | .3 | 7.0 | .2 | .5 | .4 | .3 |
| SE | .5 | .2 | * | .0 | .0 | | .7 | 6.1 | .7 | .2 | .7 | 1.0 |
| S | .9 | .8 | .1 | * | .0 | | 1.7 | 8.4 | 1.6 | 2.2 | 1.5 | 1.7 |
| SW | 1.4 | 1.5 | .1 | * | .0 | | 3.1 | 7.8 | 2.9 | 3.1 | 3.4 | 2.9 |
| W | 3.4 | 6.7 | 1.1 | .1 | .0 | | 11.2 | 9.8 | 12.2 | 11.4 | 10.7 | 10.4 |
| NW | 6.8 | 41.5 | 17.0 | 1.0 | .0 | | 66.3 | 13.4 | 68.8 | 67.0 | 64.9 | 64.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.7 | | | | | | 1.7 | .0 | 1.4 | 1.5 | 2.0 | 2.0 |
| TOT OBS | 856 | 3052 | 1130 | 60 | 0 | 5098 | | 12.4 | 1434 | 1136 | 1103 | 1425 |
| TOT PCT | 16.8 | 59.9 | 22.2 | 1.2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

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29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.4 | 3.3 | 35.8 | 53.1 | 6.1 | .3 | .0 | 12.8 | 100.0 | 1434 |
| 06&09 | 1.5 | 2.4 | 37.2 | 53.0 | 5.7 | .2 | .0 | 12.6 | 100.0 | 1136 |
| 12&15 | 2.0 | 2.6 | 35.6 | 53.9 | 5.6 | .2 | .0 | 12.7 | 100.0 | 1103 |
| 18&21 | 2.0 | 4.1 | 41.8 | 47.9 | 4.1 | .1 | .0 | 11.8 | 100.0 | 1425 |
| TOT | 86 | 161 | 1925 | 2641 | 278 | 10 | 0 | 12.4 | | 5098 |
| PCT | 1.7 | 3.2 | 37.8 | 51.8 | 5.4 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 5.5 | 2.1 | 3.7 | 3.2 | | 4.1 |
| NE | .2 | .1 | .1 | .1 | | 3.7 |
| E | .1 | * | .1 | .2 | | 5.8 |
| SE | .1 | .1 | .1 | .3 | | 5.2 |
| S | .3 | .4 | .4 | .7 | | 5.6 |
| SW | .5 | .4 | .9 | .9 | | 5.5 |
| W | 2.8 | 1.5 | 3.2 | 3.7 | | 5.1 |
| NW | 19.8 | 10.2 | 20.4 | 16.1 | | 4.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .6 | .2 | .3 | .6 | | 4.6 |
| TOT OBS | 1075 | 540 | 1039 | 934 | 3608 | 4.6 |
| TOT PCT | 29.8 | 15.0 | 29.4 | 25.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | * | .2 | .8 | 1.9 | 1.7 | .8 | .1 | .1 | .1 | 9.0 | |
| NE | .0 | .0 | .0 | * | .1 | * | * | .0 | .0 | .0 | .4 | |
| E | * | .0 | .0 | * | * | .1 | * | .0 | * | * | .2 | |
| SE | * | .0 | .1 | * | .1 | .1 | * | * | .0 | .0 | .4 | |
| S | .0 | .0 | * | .1 | .5 | .2 | .1 | .0 | .0 | .0 | .8 | |
| SW | .1 | .0 | .1 | .3 | .5 | .5 | .2 | * | .0 | .0 | 1.1 | |
| W | .1 | * | .4 | .9 | 2.1 | 1.6 | .7 | .2 | .1 | .1 | 5.1 | |
| NW | .6 | .3 | 1.8 | 5.2 | 11.6 | 7.2 | 2.0 | .5 | .4 | .4 | 28.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .0 | .2 | .2 | .2 | * | * | .0 | .0 | .9 | |
| TOT OBS | 40 | 14 | 93 | 275 | 607 | 417 | 131 | 31 | 18 | 22 | 1960 | 3608 |
| TOT PCT | 1.1 | .4 | 2.6 | 7.6 | 16.8 | 11.6 | 3.6 | .9 | .5 | .6 | 54.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >5000 | 1.4 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 4.7 | 5.5 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| * OR >2000 | 14.3 | 17.0 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 |
| * OR >1000 | 28.3 | 33.8 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 |
| * OR >600 | 33.6 | 41.1 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
| * OR >300 | 35.2 | 43.3 | 44.2 | 44.2 | 44.3 | 44.3 | 44.3 | 44.3 |
| * OR >150 | 35.4 | 43.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| * OR > 0 | 35.7 | 44.2 | 45.2 | 45.3 | 45.3 | 45.4 | 45.6 | 45.7 |
| TOTAL | 1291 | 1601 | 1637 | 1639 | 1641 | 1642 | 1649 | 1654 |

TOTAL NUMBER OF OBS: 3620

PCT FREQ NH <5/8: 54.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 18.6 | 8.9 | 9.8 | 8.2 | 7.7 | 5.8 | 8.7 | 11.1 | 20.2 | .8 | 3840 |

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| <1/2 | NO PCP | .1 | .0 | .0 | .0 | .0 | * | * | .2 | .0 | .1 | .4 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | * | * | .2 | .0 | .1 | .4 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | * | .0 | * | * | * | * | .0 | .1 | .0 | * | .2 | |
| | TOT % | * | .0 | * | * | * | * | .0 | .1 | .0 | * | .2 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 1<2 | NO PCP | * | .0 | .0 | * | .0 | .0 | * | * | .0 | * | .1 | |
| | TOT % | * | .0 | .0 | * | .0 | .0 | * | * | .0 | * | .1 | |
| | PCP | .0 | .0 | .0 | .0 | * | * | * | * | .0 | .0 | * | |
| 2<5 | NO PCP | .2 | * | .0 | .0 | * | .1 | .2 | 1.2 | .0 | * | 1.8 | |
| | TOT % | .2 | * | .0 | .0 | * | .1 | .2 | 1.2 | .0 | * | 1.8 | |
| | PCP | * | .0 | * | .0 | .1 | * | .1 | * | .0 | .0 | .3 | |
| 5<10 | NO PCP | 2.1 | * | .1 | .2 | .4 | .6 | 1.7 | 10.4 | .0 | .3 | 15.7 | |
| | TOT % | 2.1 | * | .1 | .2 | .5 | .6 | 1.7 | 10.4 | .0 | .3 | 16.0 | |
| | PCP | .0 | .0 | .0 | * | * | * | * | .1 | .0 | * | .2 | |
| 10+ | NO PCP | 11.8 | .5 | .2 | .5 | 1.3 | 2.1 | 9.3 | 54.5 | .0 | 1.2 | 81.3 | |
| | TOT % | 11.8 | .5 | .2 | .5 | 1.3 | 2.2 | 9.3 | 54.6 | .0 | 1.2 | 81.5 | |
| | TOT OBS | | | | | | | | | | | | 4702 |
| | TOT PCT | 14.3 | .5 | .4 | .7 | 1.8 | 2.9 | 11.2 | 66.6 | .0 | 1.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .1 | .1 | |
| <1/2 | 4-10 | * | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | * | * | .3 | .0 | .1 | .5 | |
| | 0-3 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | * | * | |
| 1/2<1 | 4-10 | * | .0 | * | * | .0 | .0 | * | .1 | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | * | * | * | * | * | .2 | .0 | * | .2 | |
| | 0-3 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | * | * | |
| 1<2 | 4-10 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | * | .0 | .0 | * | .1 | .0 | * | .2 | |
| | 0-3 | * | * | .0 | .0 | .0 | * | .0 | .1 | .0 | * | .2 | |
| 2<5 | 4-10 | .1 | .0 | .0 | .0 | * | .1 | .1 | .6 | .0 | | 1.0 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .0 | .1 | .7 | .0 | | 1.0 | |
| | 22+ | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .3 | * | .0 | .0 | * | .1 | .2 | 1.4 | .0 | * | 2.2 | |
| | 0-3 | .0 | .0 | * | * | * | .1 | .2 | .1 | .0 | .3 | .8 | |
| 5<10 | 4-10 | .9 | * | * | .1 | .2 | .3 | 1.0 | 4.5 | .0 | | 7.1 | |
| | 11-21 | 1.1 | * | * | * | .1 | .2 | .6 | 5.0 | .0 | | 7.1 | |
| | 22+ | .2 | * | * | .0 | * | * | * | .4 | .0 | | .7 | |
| | TOT % | 2.1 | * | .1 | .2 | .4 | .6 | 1.7 | 10.1 | .0 | .3 | 15.6 | |
| | 0-3 | .4 | .1 | .1 | .1 | .2 | .2 | .5 | .7 | .0 | 1.3 | 3.5 | |
| 10+ | 4-10 | 3.7 | .1 | .1 | .3 | .7 | 1.6 | 5.3 | 16.9 | .0 | | 28.8 | |
| | 11-21 | 7.1 | .1 | .0 | .1 | .2 | .3 | 3.2 | 33.1 | .0 | | 44.1 | |
| | 22+ | .7 | * | .0 | .0 | * | * | .2 | 3.8 | .0 | | 4.7 | |
| | TOT % | 11.8 | .4 | .2 | .5 | 1.2 | 2.2 | 9.2 | 54.4 | .0 | 1.3 | 81.3 | |
| | TOT OBS | | | | | | | | | | | | 4913 |
| | TOT PCT | 14.4 | .5 | .4 | .7 | 1.7 | 2.9 | 11.2 | 66.5 | .0 | 1.7 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | .2 | 2.2 | 6.8 | 14.9 | 10.2 | 3.5 | .8 | .4 | .3 | 40.1 | 59.9 | 1116 |
| 06&09 | .6 | .2 | 1.9 | 7.1 | 13.9 | 9.7 | 3.1 | .6 | .4 | .8 | 38.5 | 61.5 | 832 |
| 12&15 | 1.3 | .6 | 3.4 | 8.1 | 18.5 | 13.3 | 3.2 | 1.0 | 1.0 | .8 | 51.3 | 48.7 | 712 |
| 18&21 | 1.5 | .6 | 2.7 | 8.0 | 18.9 | 12.6 | 4.3 | .9 | .4 | .6 | 50.4 | 49.6 | 1056 |
| TOT | 40 | 14 | 93 | 277 | 614 | 423 | 133 | 31 | 18 | 22 | 1665 | 2051 | 3716 |
| PCT | 1.1 | .4 | 2.5 | 7.5 | 16.5 | 11.4 | 3.6 | .8 | .5 | .6 | 44.8 | 55.2 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .1 | .2 | .1 | 2.0 | 15.3 | 82.2 | 1376 |
| 06&09 | .5 | .3 | .1 | 1.9 | 15.4 | 81.8 | 1114 |
| 12&15 | .6 | .5 | .4 | 2.2 | 17.4 | 79.0 | 1062 |
| 18&21 | .8 | .1 | .3 | 2.4 | 14.8 | 81.6 | 1399 |
| TOT | 24 | 12 | 11 | 106 | 775 | 4023 | 4951 |
| PCT | .5 | .2 | .2 | 2.1 | 15.7 | 81.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .9 | 3.3 | 11.1 | 30.2 | 58.7 | 1087 |
| 06&09 | .6 | 3.0 | 10.9 | 28.9 | 60.2 | 807 |
| 12&15 | 1.3 | 5.4 | 13.7 | 38.3 | 48.0 | 700 |
| 18&21 | 1.5 | 4.8 | 13.7 | 38.3 | 48.0 | 1026 |
| TOT | 39 | 147 | 446 | 1222 | 1952 | 3620 |
| PCT | 1.1 | 4.1 | 12.3 | 33.8 | 53.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | * |
| 75/79 | * | .0 | * | .1 | * | * | .1 | .0 | 8 | .2 |
| 70/74 | .0 | .0 | .1 | .2 | .8 | .4 | .1 | .2 | 64 | 1.7 |
| 65/69 | .0 | * | .1 | .5 | 1.8 | 3.3 | 2.5 | .7 | 336 | 8.9 |
| 60/64 | .0 | * | .1 | 1.4 | 8.0 | 17.4 | 16.7 | 4.7 | 1835 | 48.4 |
| 55/59 | .0 | .0 | .1 | .7 | 3.4 | 12.1 | 16.9 | 6.5 | 1511 | 39.8 |
| 50/54 | .0 | .0 | .0 | * | .1 | .3 | .2 | .4 | 40 | 1.1 |
| TOTAL | 1 | 2 | 11 | 111 | 538 | 1273 | 1384 | 475 | 3795 | 100.0 |
| PCT | * | .1 | .3 | 2.9 | 14.2 | 33.5 | 36.5 | 12.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| .1 | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| .3 | * | .0 | .1 | .1 | * | .2 | 1.1 | .0 | .0 |
| 1.3 | * | * | .1 | .2 | .4 | .8 | 5.8 | .0 | .2 |
| 7.1 | .2 | .3 | .3 | 1.0 | 1.5 | 5.3 | 31.8 | .0 | .9 |
| 5.6 | .1 | .1 | .2 | .4 | .8 | 4.6 | 27.6 | .0 | .4 |
| .1 | * | .0 | .0 | .0 | .1 | .1 | .8 | .0 | * |
| 14.3 | .4 | .4 | .7 | 1.7 | 2.8 | 11.0 | 67.3 | .0 | 1.5 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 80 | 73 | 69 | 62 | 57 | 55 | 51 | 62.2 | 1420 |
| 06&09 | 71 | 66 | 63 | 59 | 55 | 54 | 50 | 59.2 | 1137 |
| 12&15 | 76 | 65 | 63 | 58 | 55 | 53 | 50 | 58.6 | 1099 |
| 18&21 | 76 | 72 | 68 | 61 | 57 | 55 | 53 | 61.8 | 1425 |
| TOT | 80 | 71 | 67 | 60 | 56 | 54 | 50 | 60.7 | 5081 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.7 | 19.4 | 34.6 | 32.8 | 9.5 | 77 | 1099 |
| 06&09 | .0 | 1.2 | 9.4 | 30.1 | 42.1 | 17.1 | 82 | 869 |
| 12&15 | .1 | 2.5 | 8.6 | 31.7 | 40.8 | 16.3 | 81 | 802 |
| 18&21 | .0 | 5.2 | 17.1 | 36.3 | 32.6 | 8.7 | 77 | 1032 |
| TOT | 1 | 126 | 544 | 1278 | 1397 | 476 | 79 | 3822 |

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

AREA 0030 BAJA
29.4N 110.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | .0 | * |
| 17/19 | .0 | .0 | .0 | * | .0 | .1 | .0 | * | 5 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | 12 | .0 | .3 |
| 11/13 | .0 | * | .0 | .1 | * | .2 | .1 | * | 23 | .0 | .5 |
| 9/10 | .0 | .0 | * | .2 | .4 | .8 | .1 | .0 | 67 | * | 1.5 |
| 7/8 | .0 | * | .2 | .4 | 1.0 | .6 | .0 | .0 | 99 | .0 | 2.3 |
| 6 | .0 | .0 | .1 | .5 | 1.0 | .2 | .0 | .0 | 72 | * | 1.6 |
| 5 | .0 | * | .2 | 1.3 | 1.2 | .1 | .0 | .0 | 123 | .1 | 2.7 |
| 4 | .0 | * | .5 | 3.0 | 1.5 | .1 | .0 | .0 | 223 | * | 5.1 |
| 3 | .0 | .1 | .8 | 3.1 | 1.2 | * | .0 | .0 | 225 | .1 | 5.1 |
| 2 | .0 | * | 2.2 | 5.4 | 1.0 | * | .0 | .0 | 375 | .2 | 8.4 |
| 1 | .0 | .1 | 2.9 | 5.3 | .6 | * | .0 | .0 | 388 | .2 | 8.7 |
| 0 | .0 | .4 | 7.6 | 6.7 | .3 | .0 | .0 | .0 | 651 | .4 | 14.5 |
| -1 | .0 | .3 | 7.9 | 3.6 | * | .0 | .0 | .0 | 522 | .2 | 11.8 |
| -2 | * | 1.0 | 8.7 | 3.2 | * | * | * | .0 | 566 | .5 | 12.5 |
| -3 | .0 | 1.0 | 6.0 | 1.1 | .0 | .0 | .0 | .0 | 354 | .1 | 8.0 |
| -4 | .0 | 1.8 | 5.0 | .6 | .0 | .0 | .0 | .0 | 321 | .3 | 7.1 |
| -5 | .0 | 1.1 | 2.2 | .3 | * | .0 | .0 | .0 | 158 | .1 | 3.5 |
| -6 | * | .7 | 1.1 | .2 | .0 | .0 | .0 | .0 | 86 | .1 | 1.9 |
| -7/-8 | .1 | .5 | .6 | .3 | .0 | .0 | .0 | .0 | 62 | .1 | 1.4 |
| -9/-10 | * | .2 | .2 | * | .0 | .0 | .0 | .0 | 17 | .0 | .4 |
| -11/-13 | * | .0 | .1 | * | .0 | .0 | .0 | .0 | 7 | .0 | .2 |
| -14/-16 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | 2 | .0 | * |
| -17/-19 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 8 | 323 | 2009 | 1535 | 364 | 95 | 21 | 5 | 4360 | 104 | 4256 |
| PCT | .2 | 7.4 | 46.1 | 35.2 | 8.3 | 2.2 | .5 | .1 | 100.0 | 2.4 | 97.6 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .7 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 1.7 | 1.5 | .0 | .0 | .0 | 3.2 |
| 3-4 | .0 | 1.5 | 3.1 | .2 | .0 | .0 | 4.8 |
| 5-6 | .0 | .5 | 2.1 | .4 | .0 | .0 | 3.0 |
| 7 | .0 | .1 | 1.1 | .3 | .0 | .0 | 1.6 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 4.5 | 8.0 | 1.0 | .0 | .0 | 13.6 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .0 | .3 | * | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .2 | * | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .5 | * | * | .0 | .0 | .6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .1 | .0 | .1 | .0 | .0 | .3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | * | .2 | .0 | .0 | .0 | .2 |
| 5-6 | * | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | .3 | .2 | .0 | .0 | .0 | .5 |

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0030 BAJA
29.4N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .1 | .1 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .6 | .5 | .0 | .1 | .0 | 1.3 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .7 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | .5 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .5 | .2 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .1 | .1 | .0 | * | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 1.9 | .5 | .0 | * | .0 | 2.4 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.2 | .0 | .0 | .0 | .0 | 1.5 |
| 1-2 | .4 | 2.4 | .3 | .0 | .0 | .0 | 3.2 |
| 3-4 | .0 | 1.3 | 2.2 | .1 | .0 | .0 | 3.6 |
| 5-6 | .0 | .3 | 1.5 | .1 | .0 | .0 | 1.9 |
| 7 | .0 | .1 | .3 | .1 | .0 | .0 | .5 |
| 8-9 | .0 | .1 | .0 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 5.4 | 4.4 | .4 | .0 | .0 | 10.8 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.7 | .0 | .0 | .0 | .0 | 1.8 | |
| 1-2 | .2 | 9.1 | 6.2 | .0 | .0 | .0 | 15.4 | |
| 3-4 | .1 | 6.5 | 19.8 | .7 | .0 | .0 | 27.1 | |
| 5-6 | .0 | 1.3 | 11.3 | 2.2 | .0 | .0 | 14.8 | |
| 7 | .0 | .4 | 4.3 | 1.0 | .1 | .0 | 5.9 | |
| 8-9 | .0 | .1 | 1.8 | .8 | .0 | .0 | 2.7 | |
| 10-11 | .0 | .0 | .5 | .4 | .1 | .0 | 1.1 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .4 | 19.1 | 43.9 | 5.2 | .3 | .0 | 69.0 | 98.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.9 | 4.6 | .0 | .0 | .0 | .0 | 6.6 | |
| 1-2 | .7 | 14.4 | 8.3 | .0 | .0 | .0 | 23.5 | |
| 3-4 | .3 | 10.1 | 25.7 | .9 | .0 | .0 | 37.0 | |
| 5-6 | .1 | 2.5 | 14.9 | 2.7 | .0 | .0 | 20.1 | |
| 7 | .0 | .7 | 5.8 | 1.4 | .1 | .0 | 8.1 | |
| 8-9 | .0 | .2 | 1.9 | 1.0 | .0 | .0 | 3.1 | |
| 10-11 | .0 | .0 | .7 | .5 | .1 | .0 | 1.3 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 3.1 | 32.5 | 57.3 | 6.7 | .4 | .0 | 100.0 | 1343 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.2 | 10.8 | 16.4 | 9.8 | 3.2 | 1.2 | .4 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1470 | 4 |
| 6-7 | .2 | 1.8 | 7.4 | 10.0 | 4.9 | 2.0 | .8 | .2 | .4 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 912 | 5 |
| 8-9 | * | .5 | 2.6 | 3.4 | 2.9 | 1.7 | .8 | .5 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 419 | 6 |
| 10-11 | .0 | .5 | .9 | 1.2 | 1.4 | 1.1 | 1.0 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 213 | 7 |
| 12-13 | .0 | .0 | .7 | .5 | .5 | .5 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 82 | 6 |
| >13 | .0 | .0 | .0 | .2 | .4 | .2 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 35 | 8 |
| INDET | 1.8 | .8 | 1.0 | .8 | .4 | .4 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 178 | 3 |
| TOTAL | 138 | 477 | 958 | 858 | 447 | 231 | 111 | 45 | 39 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3309 | 5 |
| PCT | 4.2 | 14.4 | 29.0 | 25.9 | 13.5 | 7.0 | 3.4 | 1.4 | 1.2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

AREA 0030 BAJA
29.4N 116.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST SNOW BLWG | NO SIG WEA |
| N | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .5 | .1 | 2.4 | .0 | 3.4 | .2 | | 93.3 |
| NE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6.1 | .0 | .0 | .0 | | 93.9 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.7 | .0 | | 94.3 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.6 | 6.6 | .0 | .0 | .0 | | 91.8 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3.2 | 1.4 | .0 | .0 | .0 | .0 | | 95.4 |
| SW | .0 | .0 | 1.1 | .0 | .0 | .0 | .0 | 1.1 | 1.8 | .0 | 1.5 | .0 | 5.9 | .0 | | 89.7 |
| W | .2 | .2 | .8 | .0 | .0 | .0 | .0 | 1.2 | .8 | .2 | 2.7 | .2 | 2.5 | .0 | | 92.7 |
| NW | .2 | .1 | .3 | .0 | .0 | .0 | .0 | .5 | .3 | * | 1.4 | .1 | 3.2 | .1 | | 94.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.3 | .0 | 6.4 | .0 | | 88.3 |
| TOT PCT | .1 | .1 | .3 | .0 | .0 | .0 | .0 | .5 | .5 | .1 | 1.8 | .1 | 3.2 | .1 | | 93.8 |
| TOT OBS: | 4649 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST SNOW BLWG | NO SIG WEA |
| 00&03 | .0 | .1 | .2 | .0 | .0 | .0 | .0 | .3 | .3 | .0 | 1.5 | .0 | 4.2 | .0 | | 93.8 |
| 06&09 | .1 | .1 | .3 | .0 | .0 | .0 | .0 | .5 | .4 | .2 | 1.6 | .2 | 2.8 | .2 | | 94.2 |
| 12&15 | .4 | .0 | .5 | .0 | .0 | .0 | .0 | .8 | .7 | .1 | 2.1 | .0 | 2.9 | .0 | | 93.4 |
| 18&21 | .1 | .1 | .4 | .0 | .0 | .0 | .0 | .6 | .4 | .1 | 2.0 | .1 | 2.8 | .1 | | 94.1 |
| TOT PCT | .1 | .1 | .3 | .0 | .0 | .0 | .0 | .5 | .4 | .1 | 1.8 | .1 | 3.2 | .1 | | 93.9 |
| TOT OBS: | 4677 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 4.1 | 7.0 | 1.0 | * | .0 | | 12.5 | 13.3 | 9.8 | 11.0 | 12.1 | 9.3 | 15.0 | 11.3 | 14.0 | 11.8 |
| NE | * | .2 | .1 | .0 | .0 | .0 | | .3 | 8.7 | .5 | .0 | .2 | .0 | .5 | .0 | .4 | .0 |
| E | .1 | .2 | .1 | .0 | .0 | .0 | | .3 | 6.9 | .2 | .0 | .0 | .3 | .6 | .0 | .5 | .5 |
| SE | .1 | .2 | .1 | .0 | .0 | .0 | | .3 | 6.1 | .2 | .0 | .3 | .6 | .4 | .0 | .5 | .5 |
| S | .3 | .7 | .1 | .0 | .0 | .0 | | 1.1 | 5.9 | 1.1 | .0 | 1.7 | .9 | 1.2 | .3 | .9 | .5 |
| SW | .3 | 1.0 | .1 | * | .0 | .0 | | 1.5 | 6.6 | 1.7 | 1.3 | 1.2 | 3.8 | 1.2 | 2.4 | 1.2 | 2.0 |
| W | .9 | 6.7 | 2.9 | .1 | .0 | .0 | | 10.6 | 9.0 | 11.5 | 10.6 | 10.0 | 12.6 | 9.3 | 14.4 | 10.4 | 11.8 |
| NW | 1.8 | 23.0 | 41.3 | 5.0 | .1 | .0 | | 71.2 | 13.5 | 73.8 | 75.4 | 72.3 | 70.8 | 68.9 | 71.2 | 69.6 | 71.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.0 | | | | | | | 2.0 | .0 | 1.2 | 1.7 | 2.1 | 1.7 | 2.9 | .5 | 2.4 | 1.5 |
| TOT OBS | 304 | 1836 | 2622 | 311 | 9 | 0 | 5082 | | 12.5 | 1148 | 116 | 917 | 172 | 1027 | 191 | 1311 | 200 |
| TOT PCT | 6.0 | 36.1 | 51.6 | 6.1 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.7 | 7.3 | 3.3 | .1 | * | | 12.5 | 13.3 | 9.9 | 11.6 | 14.4 | 13.7 |
| NE | .2 | .1 | * | .0 | .0 | | .3 | 8.7 | .4 | .2 | .4 | .3 |
| E | .2 | .2 | .0 | .0 | .0 | | .3 | 6.9 | .2 | * | .5 | .5 |
| SE | .2 | .1 | .0 | .0 | .0 | | .3 | 6.1 | .1 | .4 | .3 | .5 |
| S | .8 | .3 | * | .0 | .0 | | 1.1 | 5.9 | 1.0 | 1.6 | 1.0 | .9 |
| SW | 1.0 | .4 | .1 | .0 | .0 | | 1.5 | 6.6 | 1.7 | 1.6 | 1.4 | 1.3 |
| W | 3.7 | 6.3 | .6 | * | .0 | | 10.6 | 9.0 | 11.4 | 10.4 | 10.1 | 10.6 |
| NW | 6.2 | 42.2 | 20.0 | .8 | * | | 71.2 | 13.5 | 74.0 | 72.0 | 69.3 | 69.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.0 | | | | | | 2.0 | .0 | 1.3 | 2.0 | 2.5 | 2.3 |
| TOT OBS | 915 | 2895 | 1221 | 50 | 1 | 5082 | | 12.5 | 1264 | 1089 | 1218 | 1511 |
| TOT PCT | 18.0 | 57.0 | 24.0 | 1.0 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MAY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

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29.4N 116.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 3.0 | 33.3 | 54.4 | 7.8 | .2 | .0 | 13.2 | 100.0 | 1264 |
| 06&09 | 2.0 | 3.8 | 34.3 | 53.1 | 6.7 | .2 | .0 | 12.8 | 100.0 | 1089 |
| 12&15 | 2.5 | 4.3 | 36.8 | 50.8 | 5.4 | .2 | .0 | 12.2 | 100.0 | 1218 |
| 18&21 | 2.3 | 4.6 | 39.3 | 48.8 | 4.8 | .2 | .0 | 11.9 | 100.0 | 1511 |
| TOT | 104 | 200 | 1836 | 2622 | 311 | 9 | 0 | 12.5 | | 5082 |
| PCT | 2.0 | 3.9 | 36.1 | 51.6 | 6.1 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 3.4 | 1.4 | 3.8 | 4.6 | | 5.1 |
| NE | .1 | * | .1 | .1 | | 4.7 |
| E | .1 | * | .2 | .1 | | 5.7 |
| SE | * | .0 | .1 | .2 | | 7.2 |
| S | .2 | .1 | .4 | .3 | | 5.7 |
| SW | .2 | .1 | .4 | .8 | | 6.3 |
| W | 1.6 | .6 | 2.6 | 5.7 | | 6.2 |
| NW | 15.0 | 6.9 | 18.9 | 29.8 | | 5.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .6 | .1 | .5 | 1.1 | | 5.4 |
| TOT OBS | 741 | 324 | 942 | 1497 | 3504 | 5.6 |
| TOT PCT | 21.1 | 9.2 | 26.9 | 42.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | .1 | .3 | 1.2 | 3.1 | 1.6 | .5 | .4 | .1 | .1 | 5.7 | |
| NE | .0 | .0 | .0 | * | .1 | * | * | .0 | * | .0 | .2 | |
| E | .0 | .0 | * | .0 | .1 | .1 | * | .0 | * | .0 | .2 | |
| SE | .1 | .0 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | * | |
| S | .0 | * | .0 | .1 | .4 | .1 | * | * | .0 | .0 | .4 | |
| SW | .0 | .0 | * | .3 | .5 | .2 | .1 | * | .0 | .0 | .4 | |
| W | .1 | .1 | .3 | 1.4 | 3.0 | 1.5 | .4 | .3 | .1 | * | 3.2 | |
| NW | .5 | .2 | 1.7 | 8.9 | 17.5 | 9.4 | 3.0 | .7 | .5 | .5 | 27.5 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .3 | .7 | .1 | .1 | .0 | .1 | .0 | .9 | |
| TOT OBS | 28 | 18 | 89 | 431 | 892 | 460 | 141 | 49 | 26 | 21 | 1349 | 3504 |
| TOT PCT | .8 | .5 | 2.5 | 12.3 | 25.5 | 13.1 | 4.0 | 1.4 | .7 | .6 | 38.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >5000 | 2.4 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| * OR >3500 | 5.8 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| * OR >2000 | 16.5 | 19.6 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 |
| * OR >1000 | 38.0 | 44.8 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 |
| * OR >600 | 47.3 | 57.0 | 57.6 | 57.6 | 57.7 | 57.7 | 57.7 | 57.7 |
| * OR >300 | 48.9 | 59.5 | 60.2 | 60.2 | 60.3 | 60.3 | 60.3 | 60.3 |
| * OR >150 | 49.3 | 60.0 | 60.7 | 60.7 | 60.8 | 60.8 | 60.8 | 60.8 |
| * OR > 0 | 49.6 | 60.5 | 61.3 | 61.3 | 61.4 | 61.5 | 61.5 | 61.5 |
| TOTAL | 1746 | 2128 | 2157 | 2158 | 2159 | 2162 | 2164 | 2164 |

TOTAL NUMBER OF OBS: 3518

PCT FREQ NH <5/8: 38.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 12.9 | 6.7 | 6.6 | 5.8 | 5.5 | 5.7 | 8.3 | 11.8 | 36.3 .5 | 3793 |

PERIOD: (PRIMARY) 1950-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| | NO PCP | .0 | .0 | .0 | * | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| | TOT % | .0 | .0 | .0 | * | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | * | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| | TOT % | * | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 2<5 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| | NO PCP | .2 | * | .0 | .0 | .0 | .1 | .2 | 1.1 | .0 | * | 1.6 | |
| | TOT % | .2 | * | .0 | .0 | .0 | .1 | .2 | 1.1 | .0 | * | 1.6 | |
| 5<10 | PCP | * | .0 | .0 | .0 | .0 | * | .1 | .2 | .0 | .0 | .3 | |
| | NO PCP | 2.1 | * | .1 | .1 | .3 | .2 | 1.6 | 10.3 | .0 | .7 | 15.4 | |
| | TOT % | 2.1 | * | .1 | .1 | .3 | .3 | 1.7 | 10.5 | .0 | .7 | 15.7 | |
| 10+ | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | .0 | .2 | |
| | NO PCP | 10.2 | .3 | .3 | .2 | .9 | 1.1 | 8.5 | 59.2 | .0 | 1.2 | 82.1 | |
| | TOT % | 10.2 | .3 | .3 | .2 | .9 | 1.1 | 8.6 | 59.4 | .0 | 1.2 | 82.3 | |
| | TOT OBS | | | | | | | | | | | | 4638 |
| | TOT PCT | 12.5 | .4 | .4 | .3 | 1.2 | 1.5 | 10.6 | 71.2 | .0 | 2.0 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | * | |
| | 4-10 | .0 | .0 | .0 | * | .0 | .0 | * | .1 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | * | .0 | * | .1 | .1 | .0 | .0 | .2 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 2<5 | 0-3 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .1 | .2 | |
| | 4-10 | .1 | .0 | .0 | .0 | .0 | .1 | .3 | .5 | .0 | | 1.0 | |
| | 11-21 | .1 | * | .0 | .0 | .0 | .0 | * | .6 | .0 | | .8 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .2 | * | .0 | .0 | .0 | .1 | .3 | 1.4 | .0 | .1 | 2.1 | |
| 5<10 | 0-3 | .2 | .0 | * | * | .1 | * | .2 | .3 | .0 | .7 | 1.4 | |
| | 4-10 | .6 | * | .1 | * | .1 | .2 | 1.1 | 3.9 | .0 | | 6.0 | |
| | 11-21 | 1.2 | .0 | .0 | * | .1 | * | .4 | 5.7 | .0 | | 7.5 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | * | * | .5 | .0 | | .6 | |
| | TOT % | 2.1 | * | .1 | .1 | .3 | .2 | 1.6 | 10.4 | .0 | .7 | 15.5 | |
| 10+ | 0-3 | .3 | * | .1 | .1 | .2 | .3 | .7 | 1.3 | .0 | 1.2 | 4.1 | |
| | 4-10 | 3.4 | .2 | .1 | .1 | .6 | .7 | 5.3 | 18.3 | .0 | | 28.7 | |
| | 11-21 | 5.7 | .1 | .1 | * | * | .1 | 2.4 | 34.9 | .0 | | 43.4 | |
| | 22+ | .9 | .0 | .0 | .0 | .0 | .0 | .1 | 4.7 | .0 | | 5.7 | |
| | TOT % | 10.2 | .3 | .3 | .2 | .9 | 1.1 | 8.5 | 59.1 | .0 | 1.2 | 81.9 | |
| | TOT OBS | | | | | | | | | | | | 4883 |
| | TOT PCT | 12.6 | .3 | .4 | .3 | 1.1 | 1.4 | 10.6 | 71.3 | .0 | 2.0 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .4 | 2.7 | 9.5 | 22.7 | 11.8 | 4.5 | .7 | .5 | .3 | 53.5 | 46.5 | 970 |
| 06&09 | .4 | .5 | 2.2 | 9.5 | 24.5 | 11.0 | 2.6 | 1.2 | .9 | .9 | 53.7 | 46.3 | 739 |
| 12&15 | 1.5 | .8 | 3.1 | 16.1 | 25.5 | 14.8 | 4.1 | 1.6 | .1 | .6 | 68.3 | 31.7 | 797 |
| 18&21 | .8 | .4 | 2.2 | 13.3 | 27.1 | 13.7 | 4.2 | 1.8 | 1.3 | .5 | 65.4 | 34.6 | 1091 |
| TOT | 28 | 18 | 91 | 435 | 900 | 463 | 142 | 49 | 27 | 21 | 2174 | 1423 | 3597 |
| PCT | .8 | .5 | 2.5 | 12.1 | 25.0 | 12.9 | 3.9 | 1.4 | .8 | .6 | 60.4 | 39.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .1 | .2 | .2 | 2.1 | 13.9 | 83.5 | 1210 |
| 06&09 | .1 | .0 | .6 | 1.9 | 17.0 | 80.5 | 1070 |
| 12&15 | .3 | .1 | .3 | 2.4 | 17.3 | 79.7 | 1161 |
| 18&21 | .5 | .0 | .1 | 1.9 | 14.3 | 83.3 | 1470 |
| TOT | 12 | 4 | 12 | 102 | 761 | 4020 | 4911 |
| PCT | .2 | .1 | .2 | 2.1 | 15.5 | 81.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <500YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .4 | 3.7 | 14.3 | 40.3 | 45.4 | 952 |
| 06&09 | .4 | 3.2 | 14.0 | 41.9 | 44.1 | 714 |
| 12&15 | 1.4 | 5.4 | 22.6 | 46.7 | 30.7 | 782 |
| 18&21 | .7 | 3.4 | 17.3 | 49.3 | 33.4 | 1070 |
| TOT | 25 | 136 | 598 | 1576 | 1344 | 3518 |
| PCT | .7 | 3.9 | 17.0 | 44.8 | 38.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | 1 | * |
| 75/79 | .0 | .0 | * | .1 | .1 | .1 | .0 | .0 | 10 | .3 |
| 70/74 | .0 | .0 | .1 | .3 | .7 | .7 | .3 | * | 76 | 2.1 |
| 65/69 | .0 | .0 | .1 | .5 | 2.5 | 5.1 | 3.4 | .8 | 453 | 12.3 |
| 60/64 | .0 | .0 | .1 | .5 | 8.9 | 21.0 | 21.0 | 5.3 | 2084 | 56.8 |
| 55/59 | .0 | .0 | .0 | .2 | 1.2 | 7.7 | 13.9 | 5.4 | 1036 | 28.2 |
| 50/54 | .0 | .0 | .0 | .0 | .1 | .0 | .2 | .1 | 12 | .3 |
| TOTAL | 0 | 0 | 8 | 62 | 489 | 1268 | 1423 | 422 | 3672 | 100.0 |
| PCT | .0 | .0 | .2 | 1.7 | 13.3 | 34.5 | 38.8 | 11.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| * | .0 | * | .0 | .0 | .0 | .1 | .1 | .0 | .0 |
| .4 | .0 | * | .0 | * | .0 | .2 | 1.3 | .0 | .1 |
| 1.6 | .1 | * | .1 | .3 | .3 | 1.5 | 8.1 | .0 | .3 |
| 7.2 | .2 | .2 | .2 | .6 | .6 | 6.5 | 39.6 | .0 | 1.5 |
| 3.7 | * | * | * | .2 | .2 | 2.1 | 21.5 | .0 | .4 |
| * | .0 | .0 | .0 | * | * | * | .2 | .0 | * |
| 12.9 | .3 | .3 | .4 | 1.2 | 1.4 | 10.4 | 70.9 | .0 | 2.3 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 73 | 69 | 62 | 58 | 57 | 54 | 62.9 | 1261 |
| 06&09 | 73 | 67 | 64 | 60 | 56 | 54 | 50 | 60.1 | 1091 |
| 12&15 | 74 | 66 | 64 | 59 | 56 | 54 | 50 | 59.6 | 1220 |
| 18&21 | 80 | 74 | 69 | 62 | 58 | 55 | 50 | 62.8 | 1496 |
| TOT | 80 | 72 | 68 | 61 | 57 | 55 | 50 | 61.5 | 5068 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.1 | 14.6 | 39.4 | 35.5 | 8.4 | 78 | 957 |
| 06&09 | .0 | .3 | 9.5 | 30.2 | 44.0 | 16.1 | 82 | 791 |
| 12&15 | .0 | 1.5 | 7.6 | 31.1 | 44.8 | 14.9 | 82 | 863 |
| 18&21 | .0 | 3.2 | 19.3 | 36.2 | 33.2 | 8.1 | 77 | 1085 |
| TOT | 0 | 70 | 490 | 1277 | 1435 | 424 | 79 | 3696 |

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

TABLE 17

AREA 0030 BAJA
29.4N 116.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | * | 4 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | 14 | * | .3 |
| 11/13 | .0 | .0 | * | * | .2 | .2 | .1 | * | 24 | * | .5 |
| 9/10 | .0 | .0 | * | .2 | .4 | .7 | .2 | .0 | 63 | .0 | 1.4 |
| 7/8 | .0 | .0 | .1 | .7 | 1.0 | .5 | .1 | * | 101 | .1 | 2.2 |
| 6 | .0 | .0 | .2 | .6 | 1.0 | .3 | * | .0 | 94 | * | 2.1 |
| 5 | .0 | .0 | .2 | 1.1 | 1.5 | .3 | * | .0 | 136 | * | 3.1 |
| 4 | .0 | .0 | .4 | 2.1 | 2.0 | .3 | .0 | .0 | 210 | .1 | 4.8 |
| 3 | .0 | * | .5 | 2.5 | 1.7 | .0 | .0 | .0 | 207 | * | 4.7 |
| 2 | .0 | * | 1.2 | 5.4 | 1.6 | .1 | * | .0 | 362 | .3 | 8.0 |
| 1 | .0 | * | 2.2 | 6.2 | .9 | * | .0 | .0 | 407 | .1 | 9.2 |
| 0 | * | .4 | 6.0 | 9.0 | .7 | * | .0 | .0 | 701 | .3 | 15.9 |
| -1 | .0 | .2 | 5.6 | 5.1 | .3 | * | .0 | .0 | 487 | .1 | 11.1 |
| -2 | * | .5 | 7.9 | 5.3 | .2 | .0 | .0 | .0 | 605 | .3 | 13.6 |
| -3 | .0 | .5 | 6.2 | 1.9 | .1 | .0 | .0 | .0 | 377 | * | 8.6 |
| -4 | .0 | .7 | 4.4 | 1.1 | .1 | .0 | .0 | .0 | 276 | * | 6.3 |
| -5 | * | .4 | 2.3 | .6 | .0 | .0 | .0 | .0 | 141 | .1 | 3.2 |
| -6 | .1 | .2 | 1.1 | .3 | .0 | .0 | .0 | .0 | 75 | * | 1.7 |
| -7/-8 | * | .3 | .7 | .2 | .0 | .0 | .0 | .0 | 52 | .0 | 1.2 |
| -9/-10 | * | .0 | .1 | * | .0 | .0 | .0 | .0 | 8 | .0 | .2 |
| -11/-13 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| -14/-16 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 11 | | 1701 | | 508 | | 27 | | | 72 | 4276 |
| PCT | .3 | 141 3.2 | 39.1 | 1842 42.4 | 11.7 | 110 2.5 | .6 | 8 .2 | 4348 100.0 | 1.7 | 98.3 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 2.4 | 1.7 | .0 | .0 | .0 | 4.2 |
| 3-4 | .0 | 1.1 | 2.7 | .2 | .0 | .0 | 3.9 |
| 5-6 | .0 | .5 | 2.3 | .3 | .0 | .0 | 3.1 |
| 7 | .0 | .1 | 1.1 | .3 | .0 | .0 | 1.5 |
| 8-9 | .0 | .1 | .3 | .2 | .0 | .0 | .5 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 4.5 | 8.3 | 1.0 | .0 | .0 | 14.2 |

NE

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .1 | .2 | .0 | .0 | .0 | .3 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .1 | .1 | .0 | .0 | .0 | .4 |

SE

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|
| * | .1 | .0 | .0 | .0 | .0 | .1 |
| .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| .0 | * | .1 | .0 | .0 | .0 | .2 |
| .0 | .0 | * | .0 | .0 | .0 | * |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| * | .2 | .2 | .0 | .0 | .0 | .4 |

PERIOD: (OVER-ALL) 1963-1974

MAY

TABLE 18 (CONT)

AREA 0030 BAJA 29.4N 116.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .1 | .2 | * | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .4 | .0 | .0 | .0 | .0 | .5 | .1 | .4 | * | .0 | .0 | .0 | .5 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 1.0 | .0 | .0 | .0 | .0 | 1.3 | .6 | 2.6 | .1 | .0 | .0 | .0 | 3.3 | |
| 1-2 | .3 | 2.8 | .8 | .0 | .0 | .0 | 3.9 | .4 | 9.3 | 5.5 | .0 | .0 | .0 | 15.1 | |
| 3-4 | .1 | 1.0 | .8 | .0 | .0 | .0 | 1.9 | .1 | 7.0 | 17.2 | .6 | .0 | .0 | 24.8 | |
| 5-6 | .0 | .1 | .7 | .1 | .0 | .0 | .9 | .1 | 2.4 | 16.7 | 1.6 | .0 | .0 | 20.8 | |
| 7 | .0 | .1 | .3 | .0 | .0 | .0 | .4 | .0 | .2 | 4.2 | 1.1 | .1 | .0 | 5.5 | |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .1 | 1.4 | 1.4 | .0 | .0 | 2.9 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .2 | .1 | .0 | .6 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .7 | 5.1 | 2.6 | .1 | .0 | .0 | 8.5 | 1.2 | 21.4 | 45.5 | 5.0 | .1 | .0 | 73.3 | 98.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.7 | 4.5 | .1 | .0 | .0 | .0 | 8.3 | |
| 1-2 | 1.0 | 15.0 | 7.9 | .0 | .0 | .0 | 23.8 | |
| 3-4 | .2 | 9.1 | 20.9 | .7 | .0 | .0 | 31.0 | |
| 5-6 | .1 | 2.9 | 19.6 | 2.0 | .0 | .0 | 24.7 | |
| 7 | .0 | .4 | 5.6 | 1.4 | .1 | .0 | 7.4 | |
| 8-9 | .0 | .1 | 1.8 | 1.5 | .0 | .0 | 3.4 | |
| 10-11 | .0 | .0 | .5 | .2 | .1 | .0 | .8 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1367 |
| TOT PCT | 5.0 | 32.0 | 56.6 | 6.1 | .1 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.6 | 11.0 | 17.9 | 10.3 | 2.5 | 1.2 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1521 | 3 |
| 6-7 | * | 1.7 | 7.3 | 11.1 | 5.3 | 2.5 | 1.0 | .2 | .2 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 965 | 5 |
| 8-9 | .0 | .5 | 1.5 | 3.4 | 2.9 | 2.0 | .7 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 377 | 6 |
| 10-11 | .0 | .5 | .7 | 1.1 | .8 | 1.1 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 156 | 6 |
| 12-13 | .0 | .0 | .5 | .4 | .2 | .3 | .2 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 55 | 6 |
| >13 | .0 | .0 | .0 | .1 | .1 | * | .1 | .1 | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 17 | 10 |
| INDET | 2.1 | 1.0 | 1.3 | 1.1 | .6 | .2 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 218 | 3 |
| TOTAL | 157 | 483 | 964 | 911 | 409 | 243 | 95 | 23 | 19 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3309 | 4 |
| PCT | 4.7 | 14.6 | 29.1 | 27.5 | 12.4 | 7.3 | 2.9 | .7 | .6 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1890-1973

AREA 0030 BAJA
29.3N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST SNOW BLWG | NO SIG WEA |
| N | .0 | .1 | .3 | .0 | .0 | .0 | .2 | .6 | .9 | .0 | 3.9 | .0 | 4.0 | .2 | | 90.4 |
| NE | .0 | 1.9 | .0 | .0 | .0 | .0 | .0 | 1.9 | .0 | .0 | 1.9 | .0 | 22.6 | .0 | | 73.6 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9.8 | .0 | | 90.2 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8.5 | .0 | | 91.5 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3.3 | .0 | 6.6 | .0 | 5.2 | .0 | | 84.8 |
| SW | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | .4 | .0 | 4.5 | .4 | 4.5 | .0 | | 89.8 |
| W | .6 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.5 | .6 | .2 | 3.5 | .4 | 5.8 | .0 | | 87.9 |
| NW | * | .1 | .6 | .0 | .0 | .0 | .0 | .7 | .6 | * | 2.9 | * | 4.7 | .0 | | 91.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .9 | .0 | .0 | .0 | .0 | .9 | .9 | .0 | 9.3 | .0 | 8.3 | .0 | | 80.6 |
| TOT PCT | .1 | .1 | .6 | .0 | .0 | .0 | * | .8 | .7 | * | 3.3 | .1 | 4.9 | * | | 90.2 |
| TOT OBS: | 4482 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST SNOW BLWG | NO SIG WEA |
| 00&03 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | .3 | .2 | .1 | 1.3 | .0 | 4.9 | .0 | | 93.2 |
| 06&09 | .0 | .1 | .6 | .0 | .0 | .0 | .0 | .7 | .6 | .1 | 3.0 | .3 | 3.7 | .0 | | 91.5 |
| 12&15 | .1 | .2 | 1.0 | .0 | .0 | .0 | .0 | 1.3 | 1.0 | .0 | 4.5 | .0 | 5.3 | .1 | | 87.8 |
| 18&21 | .1 | .1 | .9 | .0 | .0 | .0 | .0 | .9 | .9 | .0 | 4.2 | .0 | 5.1 | .0 | | 88.8 |
| TOT PCT | .1 | .1 | .6 | .0 | .0 | .0 | * | .8 | .7 | * | 3.3 | .1 | 4.8 | * | | 90.3 |
| TOT OBS: | 4523 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .5 | 4.7 | 7.1 | .7 | .0 | .0 | | 12.9 | 12.7 | 10.6 | 18.3 | 12.2 | 11.8 | 13.2 | 15.7 | 14.0 | 16.3 |
| NE | * | .2 | .1 | .0 | .0 | .0 | | .3 | 7.8 | .1 | .0 | .2 | .0 | .2 | .6 | .6 | .3 |
| E | .1 | .1 | * | .0 | .0 | .0 | | .2 | 5.4 | .2 | .0 | .3 | .0 | .3 | .6 | .1 | .0 |
| SE | .1 | .1 | * | .0 | .0 | .0 | | .3 | 5.0 | .4 | .7 | .3 | .0 | .1 | .3 | .2 | .0 |
| S | .4 | .8 | .1 | .0 | .0 | .0 | | 1.3 | 5.1 | .5 | 1.1 | 1.3 | 2.3 | .9 | 2.5 | 1.7 | 2.2 |
| SW | .3 | 1.1 | .1 | * | .0 | .0 | | 1.6 | 6.8 | 1.2 | 1.8 | 1.4 | 1.2 | 1.5 | 2.8 | 1.7 | 2.7 |
| W | 1.0 | 6.7 | 2.4 | .1 | .0 | .0 | | 10.3 | 8.5 | 10.6 | 10.8 | 8.3 | 10.1 | 10.7 | 7.6 | 10.7 | 14.2 |
| NW | 2.3 | 27.2 | 37.8 | 3.4 | .0 | .0 | | 70.6 | 12.6 | 75.1 | 65.1 | 74.6 | 73.4 | 68.1 | 65.7 | 68.1 | 61.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.6 | | | | | | | 2.6 | .0 | 1.2 | 2.2 | 1.4 | 1.2 | 4.9 | 4.1 | 2.9 | 3.2 |
| TOT OBS | 358 | 1997 | 2928 | 207 | 0 | 0 | 4890 | | 11.6 | 1127 | 139 | 871 | 171 | 921 | 170 | 1305 | 186 |
| TOT PCT | 7.3 | 40.8 | 47.6 | 4.2 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.9 | 7.9 | 3.1 | .1 | .0 | | 12.9 | 12.7 | 11.5 | 12.1 | 13.6 | 14.3 |
| NE | .2 | .1 | * | .0 | .0 | | .3 | 7.8 | .1 | .2 | .3 | .5 |
| E | .1 | .1 | .0 | .0 | .0 | | .2 | 5.4 | .2 | .3 | .4 | .1 |
| SE | .2 | .1 | .0 | .0 | .0 | | .3 | 5.0 | .5 | .2 | .2 | .2 |
| S | 1.0 | .3 | * | .0 | .0 | | 1.3 | 5.1 | .6 | 1.4 | 1.2 | 1.8 |
| SW | .9 | .6 | .1 | .0 | .0 | | 1.6 | 6.8 | 1.3 | 1.4 | 1.7 | 1.8 |
| W | 4.2 | 5.6 | .5 | .0 | .0 | | 10.3 | 8.5 | 10.6 | 8.6 | 10.2 | 11.2 |
| NW | 10.6 | 43.8 | 16.0 | .2 | .0 | | 70.6 | 12.6 | 74.0 | 74.4 | 67.8 | 67.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.6 | | | | | | 2.6 | .0 | 1.3 | 1.3 | 4.8 | 3.0 |
| TOT OBS | 1058 | 2852 | 965 | 15 | 0 | 4890 | | 11.6 | 1266 | 1042 | 1091 | 1491 |
| TOT PCT | 21.6 | 58.3 | 19.7 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JUNE

PERIOD: (PRIMARY) 1950-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 3.6 | 38.5 | 51.1 | 5.4 | .0 | .0 | 12.3 | 100.0 | 1266 |
| 06&09 | 1.3 | 3.7 | 35.7 | 53.5 | 5.8 | .0 | .0 | 12.6 | 100.0 | 1042 |
| 12&15 | 4.8 | 4.8 | 42.6 | 44.6 | 3.2 | .0 | .0 | 11.1 | 100.0 | 1091 |
| 18&21 | 3.0 | 6.3 | 45.1 | 42.7 | 3.0 | .0 | .0 | 10.7 | 100.0 | 1491 |
| TOT | 127 | 231 | 1997 | 2328 | 207 | 0 | 0 | 11.6 | | 4890 |
| PCT | 2.6 | 4.7 | 40.8 | 47.6 | 4.2 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 1.7 | 1.2 | 3.9 | 6.5 | | 6.1 |
| NE | .1 | * | * | .2 | | 5.8 |
| E | .1 | * | .0 | .2 | | 5.2 |
| SE | .1 | * | * | .1 | | 5.0 |
| S | * | .0 | .2 | .9 | | 7.5 |
| SW | .1 | .1 | .4 | .8 | | 6.9 |
| W | 1.0 | .6 | 1.7 | 6.5 | | 6.7 |
| NW | 10.2 | 4.8 | 15.3 | 41.5 | | 6.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .1 | .1 | .3 | 1.6 | | 7.1 |
| TOT OBS | 448 | 228 | 742 | 1967 | 3385 | 6.4 |
| TOT PCT | 13.2 | 6.7 | 21.9 | 58.1 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .0 | .6 | 2.9 | 3.2 | 2.0 | .4 | .2 | * | .0 | 3.6 | |
| NE | * | .0 | .0 | .1 | .1 | * | .0 | .0 | .0 | .0 | .1 | |
| E | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | |
| SE | .0 | .0 | .0 | * | * | * | * | .0 | .0 | .0 | .1 | |
| S | * | .0 | * | .2 | .4 | .2 | .1 | .0 | * | .0 | .1 | |
| SW | .0 | * | * | .4 | .2 | .2 | * | * | * | .0 | .2 | |
| W | .1 | .1 | .5 | 1.9 | 3.0 | 1.2 | .5 | .2 | .1 | * | 2.0 | |
| NW | 1.2 | .5 | 3.1 | 13.3 | 20.8 | 9.1 | 3.3 | .9 | .3 | .3 | 18.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .2 | .5 | .7 | .2 | * | * | .0 | * | .4 | |
| TOT OBS | 56 | 22 | 153 | 658 | 967 | 440 | 149 | 47 | 16 | 12 | 865 | 3385 |
| TOT PCT | 1.7 | .6 | 4.5 | 19.4 | 28.6 | 13.0 | 4.4 | 1.4 | .5 | .4 | 25.6 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .8 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | 1.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| * OR >3500 | 5.2 | 6.6 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| * OR >2000 | 15.7 | 19.6 | 19.7 | 19.7 | 19.7 | 19.7 | 19.7 | 19.7 |
| * OR >1000 | 38.7 | 47.9 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 |
| * OR >600 | 51.9 | 66.9 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 |
| * OR >300 | 54.4 | 71.1 | 72.2 | 72.2 | 72.2 | 72.3 | 72.3 | 72.3 |
| * OR >150 | 54.8 | 71.7 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 |
| * OR > C | 55.2 | 72.5 | 73.9 | 74.1 | 74.2 | 74.4 | 74.4 | 74.5 |
| TOTAL | 1878 | 2466 | 2514 | 2518 | 2524 | 2530 | 2531 | 2532 |

TOTAL NUMBER OF OBS: 3400 PCT FREQ NH <5/8: 25.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 8.7 | 4.3 | 4.1 | 3.9 | 4.2 | 4.1 | 8.0 | 11.5 | 50.2 | 1.0 | 3681 |

JUNE

PERIOD: (PRIMARY) 1950-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .2 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .2 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | * | .0 | .0 | * | * | * | .2 | .0 | .0 | .3 | |
| | TOT % | .1 | * | .0 | .0 | * | * | * | .2 | .0 | .0 | .3 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| | NO PCP | * | .0 | .0 | .0 | * | .0 | * | .1 | .0 | .0 | .2 | |
| | TOT % | * | .0 | .0 | .0 | * | .0 | * | .2 | .0 | .0 | .2 | |
| 2<5 | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | NO PCP | .4 | .0 | .0 | .0 | * | * | .2 | 1.3 | .0 | .2 | 2.1 | |
| | TOT % | .5 | .0 | .0 | .0 | * | * | .2 | 1.3 | .0 | .2 | 2.2 | |
| 5<10 | PCP | * | * | .0 | .0 | .0 | * | * | .2 | .0 | * | .3 | |
| | NO PCP | 3.0 | .1 | .1 | .1 | .4 | .6 | 2.4 | 15.3 | .0 | .9 | 22.9 | |
| | TOT % | 3.0 | .1 | .1 | .1 | .4 | .6 | 2.4 | 15.5 | .0 | .9 | 23.2 | |
| 10+ | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| | NO PCP | 9.3 | .2 | .1 | .1 | .7 | .8 | 7.3 | 53.6 | .0 | 1.3 | 73.5 | |
| | TOT % | 9.3 | .2 | .1 | .1 | .7 | .8 | 7.4 | 53.8 | .0 | 1.3 | 73.8 | |
| | TOT OBS | | | | | | | | | | | | 4472 |
| | TOT PCT | 12.9 | .3 | .2 | .3 | 1.2 | 1.5 | 10.1 | 71.1 | .0 | 2.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .1 | |
| | 4-10 | * | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | | .2 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | * | .4 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | 4-10 | * | .0 | .0 | .0 | * | * | * | .2 | .0 | | .3 | |
| | 11-21 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | * | .0 | .0 | * | * | * | .2 | .0 | .0 | .3 | |
| 1<2 | 0-3 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | .0 | .0 | .1 | |
| | 4-10 | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | | .3 | |
| | 11-21 | .0 | .0 | .0 | .0 | * | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | * | * | * | .1 | .3 | .0 | .0 | .5 | |
| 2<5 | 0-3 | .1 | .0 | .0 | .0 | * | * | .1 | .1 | .0 | .2 | .5 | |
| | 4-10 | .2 | .0 | .0 | .0 | .0 | * | .3 | 1.0 | .0 | | 1.5 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .0 | .1 | .9 | .0 | | 1.1 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .5 | .0 | .0 | .0 | * | * | .4 | 2.0 | .0 | .2 | 3.2 | |
| 5<10 | 0-3 | .1 | * | .0 | * | .1 | .1 | .3 | .7 | .0 | .9 | 2.4 | |
| | 4-10 | 1.2 | .1 | .1 | .1 | .2 | .4 | 1.4 | 6.3 | .0 | | 9.7 | |
| | 11-21 | 1.5 | * | * | .0 | * | .1 | .6 | 7.6 | .0 | | 9.9 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .7 | .0 | | .8 | |
| | TOT % | 3.0 | .1 | .1 | .1 | .4 | .6 | 2.3 | 15.3 | .0 | .9 | 22.8 | |
| 10+ | 0-3 | .3 | * | .1 | .1 | .3 | .1 | .6 | 1.9 | .0 | 1.2 | 4.0 | |
| | 4-10 | 3.1 | .1 | * | * | .4 | .6 | 4.9 | 19.1 | .0 | | 28.4 | |
| | 11-21 | 5.3 | * | .0 | * | * | .1 | 1.7 | 29.7 | .0 | | 36.9 | |
| | 22+ | .6 | .0 | .0 | .0 | .0 | * | .1 | 2.8 | .0 | | 3.8 | |
| | TOT % | 9.4 | .2 | .1 | .1 | .7 | .8 | 7.3 | 52.9 | .0 | 1.2 | 72.8 | |
| | TOT OBS | | | | | | | | | | | | 4715 |
| | TOT PCT | 12.9 | .3 | .2 | .3 | 1.2 | 1.6 | 10.3 | 70.9 | .0 | 2.4 | 100.0 | |

PERIOD: (PRIMARY) 1950-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | .2 | 4.1 | 16.3 | 27.0 | 11.6 | 4.9 | 1.3 | .2 | .1 | 66.7 | 33.3 | 933 |
| 06&09 | 1.3 | .8 | 4.3 | 19.4 | 25.9 | 10.1 | 4.1 | 1.0 | .8 | .7 | 68.4 | 31.6 | 719 |
| 12&15 | 2.3 | 1.1 | 5.3 | 22.3 | 29.5 | 14.3 | 3.3 | 1.2 | .1 | .4 | 80.3 | 19.7 | 743 |
| 18&21 | 1.9 | .6 | 4.1 | 19.0 | 29.6 | 14.6 | 4.6 | 1.8 | .6 | .4 | 77.1 | 22.9 | 1089 |
| TOT | 56 | 22 | 155 | 663 | 977 | 444 | 151 | 47 | 16 | 13 | 2544 | 930 | 3474 |
| PCT | 1.6 | .6 | 4.5 | 19.1 | 28.1 | 12.8 | 4.3 | 1.4 | .5 | .4 | 73.2 | 26.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .2 | .2 | .4 | 2.1 | 19.1 | 78.1 | 1213 |
| 06&09 | .4 | .3 | .2 | 3.6 | 22.4 | 73.0 | 1016 |
| 12&15 | .7 | .8 | .8 | 3.5 | 25.1 | 69.2 | 1082 |
| 18&21 | .3 | .2 | .3 | 3.4 | 24.6 | 71.0 | 1467 |
| TOT | 17 | 16 | 23 | 149 | 1088 | 3485 | 4738 |
| PCT | .4 | .3 | .5 | 3.1 | 22.9 | 72.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <5/8 AND 3+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .9 | 5.3 | 22.5 | 46.1 | 31.4 | 905 |
| 06&09 | 1.2 | 6.5 | 27.1 | 42.6 | 30.3 | 693 |
| 12&15 | 2.3 | 8.9 | 32.0 | 48.9 | 19.1 | 738 |
| 18&21 | 1.9 | 6.7 | 26.3 | 52.3 | 21.3 | 1064 |
| TOT | 53 | 230 | 908 | 1630 | 862 | 3400 |
| PCT | 1.6 | 6.8 | 26.7 | 47.9 | 25.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | 2 | .1 |
| 75/79 | .0 | .0 | * | .1 | .1 | * | .0 | .1 | 11 | .3 |
| 70/74 | .0 | .0 | * | .2 | 1.0 | 1.0 | .7 | .2 | 110 | 3.0 |
| 65/69 | .0 | .1 | * | .2 | 2.6 | 6.6 | 7.2 | 2.3 | 689 | 18.9 |
| 60/64 | .0 | .0 | * | .1 | 3.2 | 16.0 | 32.9 | 11.9 | 2339 | 64.2 |
| 55/59 | .0 | .0 | .0 | .0 | .2 | 1.9 | 7.0 | 4.3 | 489 | 13.4 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | * | .0 | .1 | 3 | .1 |
| TOTAL | 0 | 2 | 4 | 20 | 262 | 930 | 1739 | 686 | 3643 | 100.0 |
| PCT | .0 | .1 | .1 | .5 | 7.2 | 25.5 | 47.7 | 18.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| * | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | .0 |
| .4 | .0 | * | * | .0 | .1 | .4 | 2.1 | .0 | .1 |
| 2.7 | .1 | * | .1 | .2 | .3 | 2.1 | 13.0 | .0 | .5 |
| 8.3 | .2 | .2 | .2 | .9 | .9 | 5.9 | 46.1 | .0 | 1.6 |
| 1.5 | * | .1 | .0 | .1 | .2 | 1.3 | 10.0 | .0 | .2 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| 13.0 | .3 | .3 | .3 | 1.2 | 1.4 | 9.7 | 71.5 | .0 | 2.4 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 75 | 70 | 64 | 60 | 58 | 51 | 64.2 | 1259 |
| 06&09 | 72 | 69 | 66 | 61 | 58 | 57 | 52 | 61.6 | 1050 |
| 12&15 | 72 | 68 | 65 | 61 | 57 | 55 | 50 | 60.9 | 1100 |
| 18&21 | 78 | 72 | 70 | 63 | 59 | 57 | 51 | 63.7 | 1489 |
| TOT | 82 | 72 | 69 | 62 | 58 | 57 | 50 | 62.8 | 4898 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.5 | 10.1 | 28.6 | 45.6 | 14.2 | 80 | 948 |
| 06&09 | .0 | .4 | 3.3 | 21.2 | 51.2 | 24.0 | 85 | 799 |
| 12&15 | .0 | .2 | 4.2 | 18.8 | 51.6 | 25.2 | 85 | 830 |
| 18&21 | .0 | .6 | 9.8 | 31.2 | 44.2 | 14.1 | 81 | 1101 |
| TOT | 0 | 26 | 265 | 940 | 1756 | 691 | 83 | 3678 |

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1890-1973

TABLE 17

AREA 0030 BAJA
29.3N 116.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 2 | .0 | * |
| 14/16 | .0 | .0 | .0 | * | .0 | .1 | * | .1 | * | 10 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .1 | * | .2 | .1 | .1 | .0 | 23 | * | .5 |
| 9/10 | .0 | .0 | .0 | .1 | .2 | .3 | .2 | * | .0 | 35 | * | .8 |
| 7/8 | .0 | .0 | .1 | .2 | .8 | 1.3 | .2 | .0 | .0 | 107 | * | 2.5 |
| 6 | .0 | .0 | * | .3 | .7 | .6 | * | .0 | .0 | 68 | .0 | 1.6 |
| 5 | .0 | .0 | .1 | .7 | 1.7 | .6 | .0 | .0 | .0 | 130 | .1 | 3.0 |
| 4 | .0 | .0 | .1 | 1.4 | 2.9 | .4 | .0 | .0 | .0 | 196 | .1 | 4.6 |
| 3 | .0 | * | .4 | 2.1 | 2.8 | .4 | .0 | .0 | .0 | 240 | .1 | 5.7 |
| 2 | .0 | * | .6 | 5.3 | 3.3 | .1 | .0 | .0 | .0 | 392 | .3 | 9.2 |
| 1 | .0 | .0 | 1.0 | 6.9 | 1.8 | * | .0 | .0 | .0 | 404 | .2 | 9.5 |
| 0 | .0 | .0 | 2.2 | 11.6 | 1.4 | .1 | .0 | .0 | .0 | 635 | .6 | 14.7 |
| -1 | .0 | .0 | 3.6 | 8.2 | 1.1 | * | .0 | .0 | .0 | 540 | .5 | 12.5 |
| -2 | * | .1 | 4.8 | 7.8 | .5 | .0 | .0 | .0 | .0 | 548 | .5 | 12.7 |
| -3 | .0 | * | 4.2 | 3.8 | .2 | .0 | .0 | .0 | .0 | 344 | .3 | 7.9 |
| -4 | .0 | .2 | 3.4 | 2.3 | .1 | .0 | .0 | .0 | .0 | 252 | .4 | 5.7 |
| -5 | .0 | .1 | 1.8 | 1.2 | .1 | .0 | .0 | .0 | .0 | 129 | .2 | 2.9 |
| -6 | * | .1 | .8 | .3 | * | .0 | .0 | .0 | .0 | 53 | * | 1.2 |
| -7/-8 | .0 | * | .5 | .4 | * | .0 | .0 | .0 | .0 | 37 | * | .8 |
| -9/-10 | .0 | .0 | .1 | * | .0 | * | .0 | .0 | .0 | 6 | .0 | .1 |
| -11/-13 | .0 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| -14/-16 | * | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | 5 | .0 | .1 |
| TOTAL | 3 | 26 | 981 | 2203 | 742 | 170 | 26 | 7 | 1 | 4159 | 141 | 4018 |
| PCT | .1 | .6 | 23.6 | 53.0 | 17.8 | 4.1 | .6 | .2 | * | 100.0 | 3.4 | 96.6 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .2 | .0 | .0 | .0 | .8 |
| 1-2 | .1 | 2.0 | 1.0 | .0 | .0 | .0 | 3.1 |
| 3-4 | .0 | 1.3 | 2.5 | .0 | .0 | .0 | 3.8 |
| 5-6 | .1 | .5 | 2.6 | .1 | .0 | .0 | 3.2 |
| 7 | .0 | .0 | .5 | .1 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 4.4 | 6.9 | .3 | .0 | .0 | 11.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .0 | .0 | .0 | .0 | .2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .0 | .0 | .0 | .0 | .2 |

PERIOD: (OVER-ALL) 1962-1979

JUNE

AREA 0030 BAJA
29.3N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .1 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | .5 | .0 | .0 | .0 | .0 | .9 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | * | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .1 | * | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .5 | .3 | .0 | .0 | .0 | 1.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.1 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .2 | 3.2 | .9 | .0 | .0 | .0 | 4.2 |
| 3-4 | .0 | 1.4 | 1.1 | .0 | .0 | .0 | 2.6 |
| 5-6 | .0 | .1 | .5 | .1 | .0 | .0 | .7 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 5.8 | 2.8 | .1 | .0 | .0 | 8.9 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.0 | 2.6 | .2 | .0 | .0 | .0 | 3.8 | |
| 1-2 | .4 | 14.3 | 7.0 | .0 | .0 | .0 | 21.7 | |
| 3-4 | .2 | 8.8 | 16.0 | .5 | .0 | .0 | 25.4 | |
| 5-6 | .0 | 2.7 | 12.3 | .8 | .0 | .0 | 15.9 | |
| 7 | .0 | .4 | 3.9 | .7 | .0 | .0 | 5.0 | |
| 8-9 | .0 | .1 | 1.3 | .2 | .0 | .0 | 1.6 | |
| 10-11 | .0 | .0 | .3 | .1 | .0 | .0 | .3 | |
| 12 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.6 | 28.8 | 41.2 | 2.2 | .0 | .0 | 73.8 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.0 | 4.6 | .4 | .0 | .0 | .0 | 9.9 | |
| 1-2 | 1.1 | 20.2 | 8.7 | .0 | .0 | .0 | 30.1 | |
| 3-4 | .2 | 11.7 | 19.5 | .5 | .0 | .0 | 31.9 | |
| 5-6 | .1 | 3.2 | 15.7 | .9 | .0 | .0 | 19.9 | |
| 7 | .0 | .4 | 4.6 | .7 | .0 | .0 | 5.7 | |
| 8-9 | .0 | .2 | 1.5 | .3 | .0 | .0 | 2.0 | |
| 10-11 | .0 | .0 | .3 | .1 | .0 | .0 | .4 | |
| 12 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 6.4 | 40.2 | 50.9 | 2.5 | .0 | .0 | 100.0 | 1270 |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.4 | 13.1 | 18.5 | 9.4 | 2.8 | 1.1 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1547 | 3 |
| 6-7 | .3 | 1.5 | 9.1 | 11.0 | 4.9 | 1.7 | .7 | .3 | .3 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 947 | 5 |
| 8-9 | .1 | .7 | 2.1 | 2.7 | 2.7 | 1.3 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 326 | 6 |
| 10-11 | .0 | .6 | .6 | .9 | .7 | .6 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 123 | 6 |
| 12-13 | .0 | .0 | .5 | .4 | .1 | * | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 39 | 6 |
| >13 | .0 | .0 | .0 | .1 | .0 | .2 | * | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10 | 9 |
| INDET | 1.7 | 1.2 | 1.6 | .9 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 183 | 3 |
| TOTAL | 172 | 541 | 1027 | 807 | 360 | 163 | 62 | 22 | 18 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3175 | 4 |
| PCT | 5.4 | 17.0 | 32.3 | 25.4 | 11.3 | 5.1 | 2.0 | .7 | .6 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .0 | .1 | .4 | .0 | .0 | .0 | .0 | .4 | .1 | .0 | 3.4 | .4 | 5.7 | | .0 | 89.8 |
| NE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.4 | .0 | 3.0 | | .0 | 92.6 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.5 | 4.4 | 7.7 | | .0 | 82.4 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10.1 | .0 | 12.2 | | .0 | 77.7 |
| S | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | 1.5 | .0 | .0 | 6.5 | .0 | 7.7 | | .0 | 84.2 |
| SW | .0 | .0 | .9 | .0 | .0 | .0 | .0 | .9 | .2 | .0 | 6.1 | .0 | 5.0 | | .0 | 87.8 |
| W | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .2 | .2 | .3 | 4.3 | .0 | 8.2 | | .0 | 86.9 |
| NW | .1 | .1 | .2 | .0 | .0 | .0 | .0 | .4 | .1 | .1 | 4.0 | .2 | 7.4 | | .0 | 87.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | 10.3 | .7 | 11.0 | | .0 | 77.2 |
| TOT PCT | .1 | * | .3 | .0 | .0 | .0 | .0 | .4 | .1 | .1 | 4.3 | .2 | 7.3 | | .0 | 87.6 |
| TOT OBS: | 4932 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | 3.4 | .1 | 9.0 | | .0 | 87.3 |
| 06&09 | .1 | .1 | .3 | .0 | .0 | .0 | .0 | .5 | .0 | .0 | 3.2 | .0 | 6.3 | | .0 | 90.0 |
| 12&15 | .1 | .0 | .8 | .0 | .0 | .0 | .0 | .9 | .2 | .2 | 5.3 | .5 | 6.5 | | .0 | 86.4 |
| 18&21 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .2 | .2 | .0 | 5.5 | .2 | 7.3 | | .0 | 86.7 |
| TOT PCT | .1 | * | .3 | .0 | .0 | .0 | .0 | .4 | .1 | .1 | 4.4 | .2 | 7.3 | | .0 | 87.5 |
| TOT OBS: | 4374 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 6.2 | 6.8 | .6 | .0 | .0 | | 14.3 | 11.5 | 11.5 | 13.6 | 15.0 | 9.3 | 15.9 | 17.3 | 15.7 | 13.5 |
| NE | .1 | .5 | .1 | .0 | .0 | .0 | | .7 | 7.1 | .7 | .0 | .2 | .8 | .9 | .4 | 1.2 | .3 |
| E | .2 | .2 | .1 | .0 | .0 | .0 | | .5 | 6.8 | .3 | .0 | .6 | .0 | .6 | .3 | .6 | .6 |
| SE | .3 | .6 | .0 | .0 | .0 | .0 | | .9 | 5.1 | .3 | .7 | .8 | .5 | 1.0 | 1.5 | 1.2 | 1.4 |
| S | .4 | 1.0 | * | .0 | .0 | .0 | | 1.5 | 5.2 | .7 | .7 | 1.2 | 1.6 | 2.4 | 1.5 | 1.5 | 2.6 |
| SW | .6 | 1.7 | .2 | .0 | .0 | .0 | | 2.5 | 5.9 | 1.9 | 4.6 | 2.2 | 5.1 | 2.6 | 2.3 | 2.1 | 4.3 |
| W | 1.5 | 7.6 | 2.4 | .1 | .0 | .0 | | 11.5 | 8.1 | 13.5 | 13.4 | 11.4 | 11.6 | 11.5 | 5.8 | 10.5 | 10.2 |
| NW | 2.3 | 29.3 | 31.5 | 1.6 | .0 | .0 | | 64.7 | 11.5 | 69.4 | 65.5 | 66.3 | 69.0 | 59.2 | 65.1 | 63.2 | 63.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.5 | | | | | | | 3.5 | .0 | 1.8 | 1.4 | 2.2 | 2.2 | 5.9 | 5.8 | 4.1 | 3.4 |
| TOT OBS | 456 | 2244 | 1980 | 106 | 0 | 0 | 4786 | | 10.4 | 1073 | 140 | 889 | 186 | 946 | 171 | 1185 | 178 |
| TOT PCT | 9.6 | 47.1 | 41.1 | 2.2 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.9 | 9.1 | 2.2 | .1 | .0 | | 14.3 | 11.5 | 11.7 | 14.0 | 16.1 | 15.4 |
| NE | .4 | .4 | * | .0 | .0 | | .7 | 7.1 | .7 | .3 | .9 | 1.1 |
| E | .3 | .1 | .1 | .0 | .0 | | .5 | 6.8 | .2 | .5 | .5 | .6 |
| SE | .6 | .3 | .0 | .0 | .0 | | .9 | 5.1 | .4 | .8 | 1.1 | 1.2 |
| S | 1.1 | .4 | .0 | .0 | .0 | | 1.5 | 5.2 | .7 | 1.3 | 2.2 | 1.7 |
| SW | 1.8 | .6 | .1 | .0 | .0 | | 2.5 | 5.9 | 2.2 | 2.7 | 2.6 | 2.4 |
| W | 4.9 | 6.0 | .5 | .0 | .0 | | 11.5 | 8.1 | 13.5 | 11.4 | 10.6 | 10.5 |
| NW | 11.6 | 42.8 | 10.1 | .2 | .0 | | 64.7 | 11.5 | 68.9 | 66.7 | 60.1 | 63.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.5 | | | | | | 3.5 | .0 | 1.7 | 2.2 | 3.9 | 4.0 |
| TOT OBS | 1289 | 2846 | 617 | 14 | 0 | 4766 | | 10.4 | 1213 | 1075 | 1117 | 1361 |
| TOT PCT | 27.0 | 59.7 | 12.9 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 5.3 | 44.9 | 45.7 | 2.4 | .0 | .0 | 11.0 | 100.0 | 1213 |
| 06&09 | 2.2 | 5.1 | 44.5 | 45.1 | 3.1 | .0 | .0 | 11.0 | 100.0 | 1075 |
| 12&15 | 5.9 | 6.8 | 48.5 | 36.6 | 2.1 | .0 | .0 | 9.8 | 100.0 | 1117 |
| 18&21 | 4.0 | 7.1 | 49.9 | 37.6 | 1.5 | .0 | .0 | 9.7 | 100.0 | 1361 |
| TOT | 165 | 291 | 2244 | 1960 | 106 | 0 | 0 | 10.4 | | 4766 |
| PCT | 3.5 | 6.1 | 47.1 | 41.1 | 2.2 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 1.8 | 1.6 | 4.6 | 7.0 | | 6.2 |
| NE | .2 | * | .4 | .4 | | 5.9 |
| E | .2 | * | .1 | .2 | | 4.7 |
| SE | .2 | .1 | .1 | .4 | | 5.3 |
| S | .1 | * | .2 | .8 | | 6.7 |
| SW | .4 | .2 | .3 | 1.1 | | 6.0 |
| W | 1.5 | 1.0 | 2.8 | 5.2 | | 6.2 |
| NW | 10.4 | 5.0 | 17.2 | 32.3 | | 6.0 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .8 | .2 | .6 | 1.6 | | 5.6 |
| TOT OBS | 505 | 265 | 852 | 1625 | 3247 | 6.0 |
| TOT PCT | 15.6 | 8.2 | 26.2 | 50.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT;NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .2 | .7 | 2.5 | 4.4 | 1.6 | .6 | .1 | .1 | .1 | 4.5 | |
| NE | * | * | * | .2 | .2 | .1 | * | .0 | .0 | * | .3 | |
| E | * | .0 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 | |
| SE | * | .0 | .0 | * | .2 | .1 | .1 | * | * | .0 | .3 | |
| S | * | .0 | .0 | .2 | .2 | .2 | * | .1 | .0 | * | .3 | |
| SW | * | .0 | * | .3 | .4 | .4 | * | .1 | .0 | .0 | .6 | |
| W | .2 | * | .4 | 1.9 | 3.4 | 1.5 | .6 | .2 | .1 | * | 3.1 | |
| NW | 1.1 | .9 | 3.8 | 12.6 | 17.1 | 6.0 | 2.3 | .7 | .3 | .2 | 19.8 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .1 | .2 | .7 | .5 | .3 | .1 | .0 | * | .1 | 1.1 | |
| TOT OBS | 62 | 40 | 168 | 600 | 861 | 336 | 123 | 40 | 16 | 15 | 986 | 3247 |
| TOT PCT | 1.9 | 1.2 | 5.2 | 18.5 | 26.5 | 10.3 | 3.8 | 1.2 | .5 | .5 | 30.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | 1.6 | 2.0 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| * OR >3500 | 4.5 | 5.7 | 5.9 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| * OR >2000 | 12.4 | 16.0 | 16.3 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 |
| * OR >1000 | 32.6 | 41.9 | 42.5 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 |
| * OR >600 | 43.6 | 59.6 | 60.8 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 |
| * OR >300 | 46.2 | 64.4 | 66.1 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 |
| * OR >150 | 46.7 | 65.6 | 67.4 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 |
| * OR > 0 | 47.3 | 66.7 | 68.6 | 69.0 | 69.2 | 69.3 | 69.5 | 69.5 |
| TOTAL | 1545 | 2180 | 2244 | 2256 | 2261 | 2265 | 2271 | 2272 |

TOTAL NUMBER OF OBS: 3269

PCT FREQ NH <5/8: 30.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 9.9 | 4.9 | 5.1 | 4.6 | 5.3 | 4.7 | 9.0 | 13.0 | 42.5 | 1.1 | 3486 |

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 110.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | .0 | .0 | * | * | * | .1 | .3 | .0 | * | .5 | |
| | TOT % | .1 | .0 | .0 | * | * | * | .1 | .3 | .0 | * | .5 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | .0 | * | * | .0 | .0 | * | * | .0 | .1 | .2 | |
| | TOT % | .1 | .0 | * | * | .0 | .0 | * | * | .0 | .1 | .2 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| | NO PCP | * | .0 | * | * | .0 | .0 | .0 | .2 | .0 | .1 | .3 | |
| | TOT % | * | .0 | * | * | .0 | .0 | * | .2 | .0 | .1 | .4 | |
| 2<5 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | * | |
| | NO PCP | .6 | .1 | * | * | * | .2 | .2 | 1.9 | .0 | .2 | 3.2 | |
| | TOT % | .6 | .1 | * | * | * | .2 | .2 | 2.0 | .0 | .2 | 3.3 | |
| 5<10 | PCP | .1 | .0 | .0 | .0 | * | * | .0 | .1 | .0 | .0 | .2 | |
| | NO PCP | 4.1 | .2 | .2 | .3 | .6 | 1.0 | 3.1 | 18.5 | .0 | 1.2 | 29.1 | |
| | TOT % | 4.2 | .2 | .2 | .3 | .6 | 1.0 | 3.1 | 18.6 | .0 | 1.2 | 29.3 | |
| 10+ | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| | NO PCP | 9.5 | .6 | .3 | .5 | .8 | 1.3 | 7.9 | 43.6 | .0 | 1.7 | 66.3 | |
| | TOT % | 9.5 | .6 | .3 | .5 | .8 | 1.3 | 7.9 | 43.7 | .0 | 1.7 | 66.3 | |
| | TOT OBS | | | | | | | | | | | | 4326 |
| | TOT PCT | 14.4 | .8 | .5 | .8 | 1.5 | 2.6 | 11.4 | 64.8 | .0 | 3.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | * | .1 | |
| | 4-10 | * | .0 | .0 | * | * | .0 | * | .2 | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | * | * | * | .1 | .3 | .0 | * | .5 | |
| 1/2<1 | 0-3 | * | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .1 | .2 | |
| | 4-10 | * | .0 | .0 | * | .0 | .0 | .0 | * | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | * | * | .0 | .0 | * | .1 | .0 | .1 | .3 | |
| 1<2 | 0-3 | .0 | .0 | * | * | .0 | .0 | * | * | .0 | .1 | .2 | |
| | 4-10 | * | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | .0 | * | * | .0 | .0 | * | .4 | .0 | .1 | .6 | |
| 2<5 | 0-3 | * | .0 | .0 | * | .0 | * | .1 | .1 | .0 | .3 | .6 | |
| | 4-10 | .4 | * | * | * | * | .1 | .2 | 1.6 | .0 | | 2.5 | |
| | 11-21 | .2 | * | .0 | .0 | .0 | * | * | .8 | .0 | | 1.1 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .7 | .1 | * | .1 | * | .1 | .3 | 2.5 | .0 | .3 | 4.2 | |
| 5<10 | 0-3 | .2 | * | * | .1 | .1 | .2 | .4 | .5 | .0 | 1.2 | 2.8 | |
| | 4-10 | 1.7 | .1 | .1 | .2 | .4 | .8 | 2.1 | 7.8 | .0 | | 13.0 | |
| | 11-21 | 2.1 | * | * | .0 | .0 | * | .6 | 9.4 | .0 | | 12.1 | |
| | 22+ | .2 | .0 | .0 | .0 | .0 | .0 | * | .5 | .0 | | .7 | |
| | TOT % | 4.0 | .1 | .2 | .2 | .6 | 1.0 | 3.1 | 18.3 | .0 | 1.2 | 28.6 | |
| 10+ | 0-3 | .5 | .1 | .1 | .2 | .3 | .3 | .8 | 1.5 | .0 | 1.7 | 5.5 | |
| | 4-10 | 3.9 | .4 | .1 | .4 | .6 | .9 | 5.2 | 19.1 | .0 | | 30.5 | |
| | 11-21 | 4.6 | .1 | .1 | .0 | * | .1 | 1.9 | 21.5 | .0 | | 28.3 | |
| | 22+ | .4 | .0 | .0 | .0 | .0 | .0 | * | 1.0 | .0 | | 1.5 | |
| | TOT % | 9.4 | .5 | .3 | .6 | .9 | 1.3 | 7.9 | 43.2 | .0 | 1.7 | 65.8 | |
| | TOT OBS | | | | | | | | | | | | 4573 |
| | TOT PCT | 14.3 | .8 | .5 | .9 | 1.5 | 2.5 | 11.4 | 64.7 | .0 | 3.5 | 100.0 | |

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | 1.2 | 4.5 | 15.6 | 25.4 | 10.5 | 3.3 | .9 | .4 | .1 | 63.0 | 37.0 | 897 |
| 06&09 | 1.1 | 1.4 | 5.5 | 15.5 | 20.7 | 7.8 | 3.4 | .7 | .8 | .5 | 57.5 | 42.5 | 729 |
| 12&15 | 2.1 | 1.5 | 6.8 | 20.7 | 29.2 | 11.1 | 4.1 | 1.5 | .1 | .7 | 77.9 | 22.1 | 723 |
| 18&21 | 3.1 | .9 | 4.4 | 20.7 | 28.1 | 11.5 | 4.0 | 1.6 | .5 | .5 | 75.6 | 24.4 | 970 |
| TOT | 62 | 41 | 172 | 604 | 863 | 343 | 124 | 40 | 16 | 15 | 2280 | 1039 | 3319 |
| PCT | 1.9 | 1.2 | 5.2 | 18.2 | 26.0 | 10.3 | 3.7 | 1.2 | .5 | .5 | 68.7 | 31.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .2 | .2 | .5 | 2.9 | 28.4 | 67.9 | 1135 |
| 06&09 | .3 | .1 | .6 | 3.8 | 27.6 | 67.7 | 1045 |
| 12&15 | .7 | .5 | .9 | 5.3 | 30.0 | 62.6 | 1080 |
| 18&21 | .7 | .4 | .6 | 4.6 | 28.9 | 64.7 | 1335 |
| TOT | 22 | 14 | 30 | 192 | 1326 | 3031 | 4615 |
| PCT | .5 | .3 | .7 | 4.2 | 28.7 | 65.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <5/8 3+ AND | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.0 | 6.8 | 23.8 | 40.5 | 35.7 | 887 |
| 06&09 | 1.1 | 8.3 | 25.1 | 33.7 | 41.2 | 713 |
| 12&15 | 2.1 | 10.5 | 32.4 | 46.4 | 21.2 | 716 |
| 18&21 | 3.1 | 8.6 | 30.6 | 46.2 | 23.2 | 953 |
| TOT | 62 | 276 | 914 | 1371 | 984 | 3269 |
| PCT | 1.9 | 8.4 | 28.0 | 41.9 | 30.1 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | * | .0 | * | .1 | .1 | * | * | 9 | .3 |
| 75/79 | .0 | .0 | .0 | .1 | .5 | .6 | .4 | .1 | 55 | 1.6 |
| 70/74 | .0 | .0 | .0 | .1 | 1.1 | 4.0 | 4.6 | 1.9 | 412 | 11.8 |
| 65/69 | .0 | .0 | .0 | * | .7 | 7.3 | 20.1 | 12.4 | 1417 | 40.5 |
| 60/64 | .0 | .0 | .0 | * | .2 | 4.1 | 24.2 | 14.6 | 1512 | 43.2 |
| 55/59 | .0 | .0 | .0 | .0 | * | .1 | 1.4 | 1.2 | 97 | 2.8 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | * |
| TOTAL | 0 | 1 | 0 | 7 | 91 | 566 | 1775 | 1063 | 3503 | 100.0 |
| PCT | .0 | * | .0 | .2 | 2.6 | 16.2 | 50.7 | 30.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | * | .0 | .0 | * | .1 | .1 | .0 | .0 |
| .3 | * | .1 | .1 | * | * | .2 | .8 | .0 | * |
| 1.3 | .2 | .1 | .2 | .3 | .4 | 1.3 | 7.4 | .0 | .6 |
| 5.9 | .3 | .2 | .3 | .7 | 1.1 | 5.4 | 24.8 | .0 | 1.7 |
| 6.9 | .3 | .1 | .2 | .4 | .7 | 3.8 | 29.7 | .0 | 1.1 |
| .4 | .0 | .0 | * | * | .1 | .3 | 1.9 | .0 | .1 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 14.9 | .8 | .4 | .8 | 1.5 | 2.3 | 11.2 | 64.6 | .0 | 3.5 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 84 | 77 | 74 | 67 | 62 | 59 | 56 | 67.1 | 1216 |
| 06&09 | 78 | 73 | 70 | 64 | 60 | 58 | 56 | 64.5 | 1084 |
| 12&15 | 74 | 71 | 68 | 63 | 59 | 57 | 54 | 63.6 | 1131 |
| 18&21 | 82 | 78 | 73 | 66 | 61 | 59 | 55 | 66.6 | 1356 |
| TOT | 84 | 76 | 72 | 65 | 60 | 58 | 54 | 65.5 | 4787 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .7 | 4.8 | 23.5 | 51.0 | 20.1 | 83 | 902 |
| 06&09 | .0 | .1 | .9 | 8.8 | 48.9 | 41.3 | 87 | 797 |
| 12&15 | .0 | .0 | .4 | 8.2 | 49.9 | 41.6 | 88 | 834 |
| 18&21 | .0 | .1 | 3.8 | 22.1 | 51.7 | 22.3 | 83 | 1001 |
| TOT | 0 | 8 | 91 | 571 | 1784 | 1080 | 85 | 3534 |

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PERIOD: (PRIMARY) 1950-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | * | .0 | .0 | .1 | .0 | 3 | * | .1 |
| 11/13 | .0 | .0 | .0 | * | .0 | .3 | .1 | .1 | 16 | .1 | .4 |
| 9/10 | .0 | .0 | * | .2 | .3 | .4 | .3 | .0 | 45 | .0 | 1.1 |
| 7/8 | .0 | .0 | .1 | .4 | .8 | .8 | .1 | * | 86 | .1 | 2.1 |
| 6 | .0 | .0 | .1 | .4 | 1.1 | .3 | .1 | .0 | 84 | .1 | 2.0 |
| 5 | .0 | * | .2 | .8 | 1.6 | .5 | * | .0 | 126 | .2 | 3.0 |
| 4 | .0 | * | .6 | 2.1 | 1.7 | .3 | .1 | .0 | 188 | .3 | 4.4 |
| 3 | .0 | * | .8 | 2.5 | 1.5 | .2 | .0 | .0 | 200 | .1 | 5.0 |
| 2 | .0 | .1 | 2.1 | 4.7 | 2.3 | .3 | * | .0 | 382 | .5 | 9.2 |
| 1 | .0 | .2 | 2.5 | 4.4 | 1.4 | .2 | .0 | .0 | 344 | .4 | 8.3 |
| 0 | .0 | .3 | 7.0 | 6.4 | 2.1 | .1 | .0 | .0 | 627 | 1.2 | 14.6 |
| -1 | .0 | .6 | 6.5 | 4.8 | .9 | .1 | .0 | .0 | 507 | .5 | 12.2 |
| -2 | .0 | .9 | 8.8 | 3.8 | .4 | * | .0 | .0 | 556 | .4 | 13.5 |
| -3 | .0 | 1.2 | 4.6 | 2.0 | .2 | * | .0 | .0 | 317 | .3 | 7.6 |
| -4 | .0 | 1.1 | 3.1 | 1.2 | * | * | .0 | .0 | 216 | .1 | 5.3 |
| -5 | * | .7 | 1.7 | .6 | .1 | .0 | .0 | .0 | 126 | .1 | 3.1 |
| -6 | .0 | .3 | 1.1 | .2 | .1 | * | .0 | .0 | 67 | * | 1.7 |
| -7/-8 | .1 | .3 | .7 | .4 | .0 | .0 | .0 | .0 | 54 | .1 | 1.3 |
| -9/-10 | .0 | .1 | .2 | .2 | * | * | .0 | .0 | 23 | .1 | .5 |
| -11/-13 | * | * | .1 | .1 | .0 | .0 | .0 | .0 | 7 | * | .2 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -17/-19 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 5 | 234 | 1598 | 1398 | 573 | 137 | 29 | 4 | 3978 | 181 | 3797 |
| PCT | .1 | 5.9 | 40.2 | 35.1 | 14.4 | 3.4 | .7 | .1 | 100.0 | 4.6 | 95.4 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .6 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .2 | 3.0 | 1.9 | .0 | .0 | .0 | 5.1 |
| 3-4 | .1 | 2.2 | 3.5 | .3 | .0 | .0 | 6.1 |
| 5-6 | .0 | .6 | 2.4 | .2 | .0 | .0 | 3.2 |
| 7 | .0 | .1 | 1.4 | .3 | .0 | .0 | 1.7 |
| 8-9 | .0 | .1 | .3 | .2 | .0 | .0 | .6 |
| 10-11 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 6.5 | 9.6 | 1.2 | .0 | .0 | 17.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | * | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | .5 | .1 | .0 | .0 | .0 | .7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .1 | .0 | .0 | .0 | .3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .4 | .0 | .0 | .0 | .0 | .4 |

PERIOD: (OVER-ALL) 1963-1973

JULY

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .4 | .0 | .0 | .0 | .0 | .6 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | .3 | .1 | .0 | .0 | .0 | .4 |
| 3-4 | .1 | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .5 | .2 | .0 | .0 | .0 | 1.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .1 | 3.3 | .6 | .0 | .0 | .0 | 4.0 |
| 3-4 | .0 | 1.3 | 1.2 | .0 | .0 | .0 | 2.4 |
| 5-6 | .0 | .2 | .5 | .0 | .0 | .0 | .7 |
| 7 | .0 | .1 | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 5.4 | 2.4 | .1 | .0 | .0 | 8.3 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .7 | 2.6 | .2 | .0 | .0 | .0 | 3.5 | |
| 1-2 | .7 | 13.9 | 8.0 | .0 | .0 | .0 | 22.6 | |
| 3-4 | * | 8.7 | 14.6 | .3 | .0 | .0 | 23.6 | |
| 5-6 | .0 | 2.2 | 9.8 | .4 | .0 | .0 | 12.4 | |
| 7 | .0 | .4 | 2.4 | .7 | .0 | .0 | 3.5 | |
| 8-9 | .0 | .2 | .8 | .2 | .0 | .0 | 1.2 | |
| 10-11 | .0 | .0 | .5 | .4 | .0 | .0 | .9 | |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.4 | 28.0 | 36.6 | 2.1 | .0 | .0 | 68.0 | 97.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.5 | 4.5 | .2 | .0 | .0 | .0 | 9.2 | |
| 1-2 | 1.1 | 21.1 | 10.7 | .0 | .0 | .0 | 32.9 | |
| 3-4 | .2 | 12.5 | 19.4 | .5 | .0 | .0 | 32.7 | |
| 5-6 | .0 | 3.1 | 12.8 | .6 | .0 | .0 | 16.4 | |
| 7 | .0 | .7 | 3.9 | 1.0 | .0 | .0 | 5.5 | |
| 8-9 | .0 | .2 | 1.2 | .4 | .0 | .0 | 1.8 | |
| 10-11 | .0 | .0 | .5 | .7 | .0 | .0 | 1.2 | |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 5.8 | 42.0 | 48.8 | 3.3 | .0 | .0 | 100.0 | 1375 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.5 | 16.1 | 20.9 | 9.9 | 2.4 | .7 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1614 | 3 |
| 6-7 | .2 | 2.8 | 9.0 | 9.5 | 2.9 | 1.2 | .4 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 787 | 4 |
| 8-9 | .0 | .8 | 2.0 | 3.1 | 1.5 | .9 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 262 | 5 |
| 10-11 | .0 | .8 | 1.2 | .8 | .5 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 116 | 5 |
| 12-13 | .0 | .0 | .9 | .2 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 44 | 5 |
| >13 | .0 | .0 | .0 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | 7 |
| INDET | 2.9 | .8 | 1.1 | .5 | .2 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 177 | 2 |
| TOTAL | 200 | 641 | 1054 | 725 | 237 | 104 | 38 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3008 | 4 |
| PCT | 6.6 | 21.3 | 35.0 | 24.1 | 7.9 | 3.5 | 1.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1896-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | | .0 | .8 | .0 | .0 | .0 | .0 | 1.3 | .2 | .1 | 2.9 | .1 | 7.5 | | .0 | 88.0 |
| NE | | .0 | 4.7 | .0 | .0 | .0 | .0 | 4.7 | .0 | 2.3 | 5.2 | .0 | 9.3 | | .0 | 78.5 |
| E | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 11.5 | | .0 | 88.5 |
| SE | | .6 | 2.4 | .0 | .0 | .0 | .0 | 3.0 | .0 | .0 | 3.6 | .0 | .6 | | .0 | 92.7 |
| S | 0 | 1.2 | 1.6 | .0 | .0 | .0 | .0 | 2.7 | .0 | .0 | 3.5 | .0 | 5.9 | | .0 | 87.9 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.3 | 3.5 | .0 | 9.0 | | .0 | 86.2 |
| W | .2 | .0 | .6 | .0 | .0 | .0 | .0 | .8 | .3 | .0 | 2.5 | .0 | 6.3 | | .2 | 89.8 |
| NW | .1 | .0 | .2 | .0 | .0 | .0 | .0 | .3 | .2 | .1 | 2.8 | .1 | 6.0 | | .0 | 90.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 7.9 | .0 | 10.3 | | .0 | 81.0 |
| TOT PCT | .2 | * | .4 | .0 | .0 | .0 | .0 | .6 | .2 | .2 | 3.0 | .1 | 6.5 | | * | 89.5 |
| TOT OBS: | 4332 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .1 | .0 | .4 | .0 | .0 | .0 | .0 | .4 | .1 | .0 | 1.9 | .1 | 8.3 | | .0 | 89.3 |
| 06&09 | .4 | .0 | .3 | .0 | .0 | .0 | .0 | .7 | .0 | .1 | 2.8 | .0 | 5.8 | | .1 | 90.5 |
| 12&15 | .2 | .1 | .6 | .0 | .0 | .0 | .0 | .9 | .5 | .6 | 3.8 | .2 | 4.6 | | .0 | 89.3 |
| 18&21 | .1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 | .2 | .0 | 3.6 | .1 | 6.8 | | .0 | 88.7 |
| TOT PCT | .2 | * | .4 | .0 | .0 | .0 | .0 | .6 | .2 | .2 | 3.0 | .1 | 6.5 | | * | 89.4 |
| TOT OBS: | 4379 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 7.0 | 6.8 | .4 | .0 | .0 | | 15.2 | 11.1 | 12.4 | 20.0 | 14.5 | 15.5 | 14.0 | 15.9 | 17.9 | 18.2 |
| NE | .2 | .6 | .2 | * | .0 | .0 | | .9 | 7.3 | .4 | 1.6 | .8 | .0 | 1.1 | 1.2 | 1.4 | 1.6 |
| E | .1 | .5 | .1 | * | .0 | .0 | | .6 | 7.9 | .5 | .4 | .6 | 1.2 | 1.1 | .3 | .4 | .3 |
| SE | .2 | .5 | .2 | .0 | .0 | .0 | | .9 | 7.6 | .7 | 1.0 | .9 | .3 | 1.1 | .9 | .9 | 1.8 |
| S | .6 | .8 | .1 | .0 | .0 | .0 | | 1.4 | 5.1 | 1.2 | .6 | 1.6 | .9 | 1.3 | .6 | 1.9 | 1.2 |
| SW | .6 | 1.2 | .1 | .0 | .0 | .0 | | 1.9 | 5.6 | 1.8 | 2.4 | 1.9 | 1.2 | 1.8 | .6 | 2.2 | 2.2 |
| W | 1.2 | 6.9 | 2.2 | .1 | .0 | .0 | | 10.4 | 8.2 | 10.9 | 8.7 | 10.8 | 9.2 | 10.2 | 9.9 | 10.1 | 11.7 |
| NW | 3.1 | 30.4 | 31.1 | 1.2 | .0 | .0 | | 65.7 | 11.1 | 70.1 | 65.3 | 66.6 | 70.4 | 65.4 | 68.9 | 60.8 | 62.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.9 | | | | | | | 2.9 | .0 | 2.0 | .0 | 2.3 | 1.2 | 4.0 | 1.8 | 4.4 | .5 |
| TOT OBS | 463 | 2270 | 1920 | 79 | 0 | 0 | 4732 | | 10.2 | 1123 | 126 | 867 | 163 | 899 | 164 | 1206 | 18 |
| TOT PCT | 9.8 | 48.0 | 40.6 | 1.7 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.3 | 9.6 | 2.3 | * | .0 | | 15.2 | 11.1 | 13.2 | 14.6 | 14.3 | 18.0 |
| NE | .6 | .3 | .1 | .0 | .0 | | .9 | 7.3 | .5 | .7 | 1.1 | 1.4 |
| E | .3 | .3 | * | .0 | .0 | | .6 | 7.9 | .5 | .7 | 1.0 | .4 |
| SE | .5 | .3 | * | .0 | .0 | | .9 | 7.6 | .7 | .8 | 1.1 | 1.0 |
| S | 1.0 | .3 | * | .0 | .0 | | 1.4 | 5.1 | 1.1 | 1.5 | 1.2 | 1.8 |
| SW | 1.2 | .7 | * | .0 | .0 | | 1.9 | 5.6 | 1.9 | 1.8 | 1.6 | 2.2 |
| W | 4.3 | 5.7 | .4 | .0 | .0 | | 10.4 | 8.2 | 10.6 | 10.5 | 10.2 | 10.3 |
| NW | 12.1 | 45.6 | 7.9 | .1 | .0 | | 65.7 | 11.1 | 69.6 | 67.2 | 65.9 | 61.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.9 | | | | | | 2.9 | .0 | 1.8 | 2.1 | 3.7 | 3.9 |
| TOT OBS | 1246 | 2972 | 508 | 6 | 0 | 4732 | | 10.2 | 1249 | 1030 | 1063 | 1390 |
| TOT PCT | 26.3 | 62.8 | 10.7 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

AUGUST

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1896-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 5.1 | 44.0 | 46.8 | 2.2 | .0 | .0 | 11.0 | 100.0 | 1249 |
| 06&09 | 2.1 | 5.7 | 45.1 | 45.0 | 1.9 | .0 | .0 | 10.8 | 100.0 | 1030 |
| 12&15 | 3.7 | 7.2 | 51.4 | 36.2 | 1.5 | .0 | .0 | 9.8 | 100.0 | 1063 |
| 18&21 | 3.9 | 9.0 | 51.1 | 35.0 | 1.1 | .0 | .0 | 9.5 | 100.0 | 1390 |
| TOT | 138 | 325 | 2270 | 1920 | 79 | 0 | 0 | 10.2 | | 4732 |
| PCT | 2.9 | 6.9 | 48.0 | 40.6 | 1.7 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 3.5 | 1.7 | 4.3 | 5.6 | | 5.3 |
| NE | .2 | .1 | .3 | .3 | | 5.1 |
| E | .2 | .3 | .1 | .1 | | 3.7 |
| SE | .2 | * | .2 | .4 | | 5.7 |
| S | .3 | .2 | .4 | .5 | | 5.1 |
| SW | .4 | .2 | .4 | .6 | | 5.2 |
| W | 2.3 | 1.0 | 3.1 | 3.9 | | 5.4 |
| NW | 13.9 | 7.8 | 20.7 | 23.8 | | 5.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .7 | .4 | .7 | 1.0 | | 5.1 |
| TOT OBS | 730 | 391 | 1013 | 1214 | 3348 | 5.4 |
| TOT PCT | 21.8 | 11.7 | 30.3 | 36.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .6 | 2.3 | 3.2 | 1.7 | .3 | .2 | * | .1 | 6.3 | |
| NE | .0 | .0 | * | .1 | .2 | .1 | .0 | .1 | .0 | * | .4 | |
| E | .0 | .0 | * | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .6 | |
| SE | .0 | .0 | .0 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .4 | |
| S | .0 | .0 | .1 | .3 | .2 | .2 | .0 | * | .0 | * | .6 | |
| SW | * | .0 | * | .2 | .4 | .2 | .1 | .0 | * | * | .8 | |
| W | .2 | * | .4 | 1.7 | 2.3 | 1.0 | .3 | .1 | * | .1 | 4.2 | |
| NW | .8 | .4 | 2.3 | 10.8 | 15.2 | 7.0 | 2.2 | .7 | .5 | .4 | 25.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .1 | .3 | .5 | .2 | .1 | * | .0 | .1 | 1.5 | |
| TOT OBS | 45 | 18 | 121 | 530 | 746 | 354 | 101 | 36 | 20 | 22 | 1355 | 3348 |
| TOT PCT | 1.3 | .5 | 3.6 | 15.8 | 22.3 | 10.6 | 3.0 | 1.1 | .6 | .7 | 40.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .9 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >5000 | 1.7 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| * OR >3500 | 4.1 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| * OR >2000 | 12.5 | 15.8 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| * OR >1000 | 30.5 | 37.7 | 38.0 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1 |
| * OR >600 | 41.8 | 53.3 | 53.9 | 53.9 | 54.0 | 54.0 | 54.0 | 54.0 |
| * OR >300 | 43.8 | 56.7 | 57.5 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 |
| * OR >150 | 44.1 | 57.2 | 58.1 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 |
| * OR > 0 | 44.5 | 57.9 | 59.0 | 59.2 | 59.3 | 59.3 | 59.5 | 59.5 |
| TOTAL | 1503 | 1955 | 1990 | 1998 | 2001 | 2002 | 2007 | 2008 |

TOTAL NUMBER OF OBS: 3374

PCT FREQ NH <5/8: 40.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 13.2 | 7.0 | 7.4 | 6.3 | 6.5 | 6.5 | 9.2 | 12.7 | 30.3 | .8 | 3596 |

AUGUST

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1896-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | .0 | .0 | * | * | .0 | * | .1 | .0 | * | .3 | |
| | TOT % | .1 | .0 | .0 | * | * | .0 | * | .1 | .0 | * | .3 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| | NO PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | * | .1 | |
| | TOT % | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .2 | |
| 1<2 | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | * | * | * | * | * | * | * | .2 | .0 | * | .4 | |
| | TOT % | * | * | * | * | * | * | * | .2 | .0 | * | .4 | |
| 2<5 | PCP | * | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | NO PCP | .3 | * | .0 | * | .1 | * | .3 | 1.0 | .0 | * | 1.8 | |
| | TOT % | .4 | * | .0 | .1 | .1 | * | .3 | 1.0 | .0 | * | 1.8 | |
| 5<10 | PCP | * | * | .0 | * | * | .0 | .0 | .1 | .0 | * | .2 | |
| | NO PCP | 9.7 | .3 | .2 | .2 | .4 | .3 | 2.2 | 14.0 | .0 | .8 | 22.1 | |
| | TOT % | 9.7 | .3 | .2 | .2 | .4 | .3 | 2.2 | 14.1 | .0 | .8 | 22.3 | |
| 10+ | PCP | .1 | * | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .3 | |
| | NO PCP | 10.9 | .6 | .5 | .6 | 1.0 | 1.5 | 7.6 | 50.2 | .0 | 2.0 | 74.7 | |
| | TOT % | 11.0 | .6 | .5 | .6 | 1.0 | 1.5 | 7.6 | 50.2 | .0 | 2.0 | 75.0 | |
| | TOT OBS | | | | | | | | | | | | 4326 |
| | TOT PCT | 15.2 | 1.0 | .7 | 1.0 | 1.5 | 1.8 | 10.2 | 65.8 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | * | * | .0 | .0 | * | .0 | * | .1 | |
| | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | * | * | .0 | .1 | .2 | .0 | * | .4 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .1 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | * | .2 | |
| 1<2 | 0-3 | .0 | * | .0 | .0 | .0 | * | * | * | .0 | * | .1 | |
| | 4-10 | * | .0 | .0 | * | * | .0 | * | .2 | .0 | | .2 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .1 | * | * | * | * | * | * | .3 | .0 | * | .5 | |
| 2<5 | 0-3 | .1 | * | .0 | * | * | .1 | * | .1 | .0 | * | .4 | |
| | 4-10 | .2 | .0 | * | * | * | * | .3 | 1.0 | .0 | | 1.6 | |
| | 11-21 | .2 | .0 | .0 | * | .0 | .0 | .1 | .4 | .0 | | .7 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .4 | * | * | .1 | .1 | .1 | .4 | 1.5 | .0 | * | 2.7 | |
| 5<10 | 0-3 | .2 | .1 | .1 | * | .2 | .1 | .4 | .6 | .0 | .9 | 2.5 | |
| | 4-10 | 1.6 | .2 | .1 | .1 | .2 | .2 | 1.4 | 6.7 | .0 | | 10.4 | |
| | 11-21 | 1.8 | * | * | .1 | * | * | .4 | 6.4 | .0 | | 8.8 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | | .4 | |
| | TOT % | 9.7 | .3 | .2 | .2 | .4 | .3 | 2.1 | 13.9 | .0 | .9 | 22.1 | |
| 10+ | 0-3 | .7 | .1 | * | .1 | .4 | .4 | .8 | 2.3 | .0 | 1.9 | 6.6 | |
| | 4-10 | 5.1 | .4 | .4 | .4 | .5 | 1.0 | 5.1 | 22.2 | .0 | | 35.1 | |
| | 11-21 | 4.8 | .1 | .1 | .1 | * | .1 | 1.6 | 24.3 | .0 | | 31.1 | |
| | 22+ | .3 | .0 | .0 | .0 | .0 | .0 | .1 | .9 | .0 | | 1.2 | |
| | TOT % | 10.9 | .6 | .5 | .6 | .9 | 1.5 | 7.6 | 49.7 | .0 | 1.9 | 74.1 | |
| | TOT OBS | | | | | | | | | | | | 4534 |
| | TOT PCT | 15.1 | .9 | .7 | .9 | 1.4 | 1.9 | 10.3 | 65.7 | .0 | 3.0 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1896-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .5 | 3.2 | 15.0 | 19.7 | 8.3 | 2.7 | .9 | .3 | .6 | 51.6 | 48.4 | 972 |
| 06&09 | 1.3 | .8 | 3.5 | 10.7 | 19.5 | 8.7 | 2.3 | .7 | .7 | .7 | 48.9 | 51.1 | 745 |
| 12&15 | 1.8 | .6 | 4.8 | 18.0 | 25.9 | 11.5 | 2.1 | .8 | .6 | .4 | 66.4 | 33.6 | 715 |
| 18&21 | 1.7 | .4 | 3.2 | 17.5 | 22.4 | 12.6 | 4.2 | 1.5 | .8 | .8 | 65.1 | 34.9 | 1034 |
| TOT | 45 | 19 | 124 | 536 | 753 | 358 | 101 | 36 | 20 | 22 | 2014 | 1452 | 3466 |
| PCT | 1.3 | .5 | 3.6 | 15.5 | 21.7 | 10.3 | 2.9 | 1.0 | .6 | .6 | 58.1 | 41.9 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .0 | .3 | 2.3 | 20.6 | 76.8 | 1192 |
| 06&09 | .4 | .1 | .3 | 2.5 | 21.6 | 75.1 | 1003 |
| 12&15 | .7 | .3 | 1.0 | 2.2 | 24.3 | 71.6 | 1018 |
| 18&21 | .4 | .4 | .7 | 3.5 | 21.9 | 73.0 | 1368 |
| TOT | 17 | 10 | 25 | 123 | 1009 | 3397 | 4581 |
| PCT | .4 | .2 | .5 | 2.7 | 22.0 | 74.2 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .4 | 4.2 | 20.8 | 33.3 | 45.9 | 934 |
| 06&09 | 1.4 | 6.1 | 17.7 | 32.9 | 49.4 | 724 |
| 12&15 | 1.8 | 7.5 | 26.0 | 41.2 | 32.8 | 707 |
| 18&21 | 1.8 | 5.5 | 23.9 | 42.9 | 33.2 | 1009 |
| TOT | 45 | 191 | 747 | 1273 | 1354 | 3374 |
| PCT | 1.3 | 5.7 | 22.1 | 37.7 | 40.1 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 90/94 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | * |
| 85/89 | .0 | .1 | .0 | .0 | * | .0 | * | .0 | 4 | .1 |
| 80/84 | .0 | .0 | .0 | .1 | .2 | .3 | .2 | .0 | 29 | .8 |
| 75/79 | .0 | .0 | * | .2 | .5 | 2.2 | 1.0 | .3 | 148 | 4.3 |
| 70/74 | .0 | .0 | .0 | .2 | 2.1 | 8.3 | 10.9 | 5.6 | 942 | 27.2 |
| 65/69 | .0 | .0 | * | .1 | .9 | 7.4 | 27.0 | 16.8 | 1812 | 52.2 |
| 60/64 | .0 | .0 | .0 | .1 | .0 | .9 | 6.9 | 7.4 | 530 | 15.3 |
| 55/59 | .0 | .0 | .0 | .0 | .0 | .1 | * | .0 | 3 | .1 |
| TOTAL | 0 | 2 | 2 | 23 | 134 | 668 | 1597 | 1043 | 3469 | 100.0 |
| PCT | .0 | .1 | .1 | .7 | 3.9 | 19.3 | 46.0 | 30.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| .2 | .1 | .1 | * | .0 | * | * | .3 | .0 | .1 |
| .7 | * | .1 | .1 | .3 | .1 | .3 | 2.4 | .0 | .3 |
| 4.2 | .2 | .1 | .3 | .4 | .6 | 3.1 | 16.8 | .0 | 1.5 |
| 7.6 | .5 | .3 | .3 | .6 | .9 | 4.8 | 36.1 | .0 | 1.2 |
| 2.6 | * | * | * | .1 | .2 | 1.7 | 10.4 | .0 | .3 |
| .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 |
| 15.2 | .9 | .5 | .8 | 1.4 | 1.8 | 9.9 | 66.2 | .0 | 3.3 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 90 | 80 | 76 | 69 | 64 | 61 | 57 | 69.7 | 1247 |
| 06&09 | 91 | 76 | 72 | 67 | 62 | 60 | 54 | 66.9 | 1034 |
| 12&15 | 93 | 75 | 71 | 66 | 62 | 60 | 56 | 66.2 | 1074 |
| 18&21 | 88 | 80 | 76 | 69 | 64 | 61 | 59 | 69.2 | 1389 |
| TOT | 93 | 79 | 75 | 68 | 63 | 60 | 54 | 68.2 | 4744 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.0 | 4.5 | 28.0 | 48.4 | 18.2 | 82 | 943 |
| 06&09 | .0 | .7 | 1.3 | 9.5 | 46.7 | 41.8 | 86 | 766 |
| 12&15 | .0 | .0 | 1.4 | 8.4 | 42.7 | 47.5 | 87 | 787 |
| 18&21 | .0 | 1.3 | 7.0 | 27.1 | 45.7 | 18.8 | 81 | 1010 |
| TOT | 0 | 27 | 134 | 677 | 1612 | 1056 | 84 | 3506 |

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1896-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | 89 92 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | * | * | * | .0 | * | * | 5 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | .1 | * | .1 | * | .0 | 11 | .0 | .3 |
| 11/13 | .0 | .0 | .0 | .1 | .1 | .3 | .2 | .1 | .0 | .0 | 27 | * | .7 |
| 9/10 | .0 | .0 | .0 | .1 | .2 | .5 | .4 | .1 | .0 | .0 | 46 | .1 | 1.1 |
| 7/8 | .0 | .0 | .1 | .1 | .6 | .9 | .3 | * | .0 | .0 | 75 | .1 | 1.8 |
| 6 | .0 | .0 | .1 | .1 | .8 | .8 | .2 | * | .0 | .0 | 80 | .0 | 2.0 |
| 5 | .0 | .0 | * | .4 | 1.2 | 1.1 | .3 | * | .0 | .0 | 121 | .1 | 3.0 |
| 4 | .0 | .0 | .1 | 1.4 | 2.3 | 1.0 | .3 | .0 | .0 | .0 | 199 | .2 | 4.8 |
| 3 | .0 | .0 | .1 | 1.1 | 2.3 | 1.1 | .1 | .0 | .0 | .0 | 189 | * | 4.7 |
| 2 | .0 | * | .6 | 2.8 | 4.1 | 1.2 | * | .0 | .0 | .0 | 352 | .2 | 8.6 |
| 1 | .0 | * | .4 | 3.9 | 3.6 | .7 | * | .0 | .0 | .0 | 344 | .2 | 8.4 |
| 0 | .0 | .1 | 1.6 | 6.7 | 5.0 | .6 | .1 | * | .0 | .0 | 564 | .5 | 13.7 |
| -1 | .0 | .1 | 1.8 | 5.6 | 3.5 | .4 | .0 | .0 | .0 | .0 | 452 | .4 | 11.0 |
| -2 | * | .2 | 3.3 | 8.1 | 2.5 | .3 | .0 | .0 | .0 | .0 | 574 | .6 | 13.8 |
| -3 | .0 | * | 2.1 | 4.9 | 1.5 | .1 | .0 | .0 | .0 | .0 | 339 | .3 | 8.2 |
| -4 | .0 | .2 | 2.4 | 3.4 | .7 | * | .0 | .0 | .0 | .0 | 265 | .1 | 6.5 |
| -5 | .0 | .1 | 1.2 | 1.6 | .6 | .0 | .0 | .0 | .0 | .0 | 137 | .1 | 3.4 |
| -6 | .0 | .1 | .8 | .8 | .1 | .0 | .0 | .0 | .0 | .0 | 72 | .1 | 1.7 |
| -7/-8 | * | .2 | .8 | 1.0 | .1 | .1 | .0 | .0 | .0 | .0 | 87 | .1 | 2.1 |
| -9/-10 | .0 | * | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 24 | * | .6 |
| -11/-13 | .0 | .1 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 14 | * | .3 |
| -14/-16 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 2 | 41 | 622 | 1691 | 1168 | 358 | 77 | 16 | 3 | 1 | 3979 | 122 | 3857 |
| PCT | .1 | 1.0 | 15.6 | 42.5 | 29.4 | 9.0 | 1.9 | .4 | .1 | * | 100.0 | 3.1 | 96.9 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.2 | .1 | .0 | .0 | .0 | 1.9 |
| 1-2 | .4 | 3.1 | 1.1 | .0 | .0 | .0 | 4.6 |
| 3-4 | .0 | 2.2 | 2.5 | .1 | .0 | .0 | 4.8 |
| 5-6 | .0 | .4 | 1.5 | .1 | .0 | .0 | 2.0 |
| 7 | .0 | .1 | .4 | .0 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 7.0 | 5.7 | .4 | .0 | .0 | 14.1 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .2 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .3 | .0 | .0 | .0 | 1.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .1 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .4 | .1 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .9 | .2 | .0 | .0 | .0 | 1.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .2 | .2 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | .5 | .2 | .0 | .0 | .0 | .7 |

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0030 BAJA 29.4N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .1 | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .5 | .1 | .0 | .0 | .0 | .9 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .1 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .2 | .8 | .1 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.0 | .1 | .0 | .0 | .0 | 1.5 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.2 | .0 | .0 | .0 | .0 | 1.8 |
| 1-2 | .3 | 3.3 | .6 | .0 | .0 | .0 | 4.2 |
| 3-4 | .1 | 1.6 | .8 | .0 | .0 | .0 | 2.4 |
| 5-6 | .0 | .3 | .1 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 6.5 | 1.6 | .0 | .0 | .0 | 9.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.7 | 3.0 | .3 | .0 | .0 | .0 | 5.0 | |
| 1-2 | 1.6 | 16.3 | 6.4 | .0 | .0 | .0 | 24.2 | |
| 3-4 | .4 | 9.8 | 14.2 | .1 | .0 | .0 | 24.6 | |
| 5-6 | .0 | 2.2 | 8.1 | .2 | .0 | .0 | 10.6 | |
| 7 | .0 | .1 | 2.4 | .2 | .0 | .0 | 2.7 | |
| 8-9 | .0 | .1 | .5 | * | .0 | .0 | .6 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 12 | .0 | .1 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 3.7 | 31.5 | 32.1 | .6 | .0 | .0 | 67.9 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.2 | 6.3 | .4 | .0 | .0 | .0 | 13.9 | |
| 1-2 | 2.9 | 24.4 | 8.3 | .0 | .0 | .0 | 35.6 | |
| 3-4 | .5 | 14.4 | 17.6 | .2 | .0 | .0 | 32.7 | |
| 5-6 | .0 | 3.1 | 9.8 | .3 | .0 | .0 | 13.1 | |
| 7 | .0 | .1 | 2.9 | .2 | .0 | .0 | 3.3 | |
| 8-9 | .0 | .1 | .7 | .2 | .0 | .0 | 1.1 | |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 12 | .0 | .1 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 10.5 | 48.5 | 39.9 | 1.0 | .0 | .0 | 100.0 | 1403 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 4.4 | 16.4 | 21.0 | 7.7 | 1.8 | .7 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1576 | 3 |
| 6-7 | .1 | 3.1 | 10.6 | 8.2 | 3.1 | .9 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 798 | 4 |
| 8-9 | * | .8 | 2.7 | 3.3 | 1.5 | .7 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 281 | 5 |
| 10-11 | .0 | .7 | .7 | .8 | .7 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 101 | 5 |
| 12-13 | .0 | .0 | .5 | .6 | .1 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 41 | 5 |
| >13 | .0 | .0 | .0 | .3 | .1 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 19 | 7 |
| INDET | 3.2 | 1.5 | 1.2 | .6 | .4 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 205 | 2 |
| TOTAL | 233 | 679 | 1108 | 650 | 230 | 83 | 22 | 11 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3021 | 4 |
| PCT | 7.7 | 22.5 | 36.7 | 21.5 | 7.6 | 2.7 | .7 | .4 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .0 | .7 | .0 | .0 | .0 | .0 | .8 | .1 | .1 | 3.0 | .6 | 5.6 | | .0 | 89.9 |
| NE | 2.4 | .0 | 2.4 | .0 | .0 | .0 | .0 | 4.8 | 1.2 | .0 | .8 | .0 | 3.8 | | .0 | 89.8 |
| E | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | 2.7 | 4.1 | .0 | 9.6 | .0 | 2.7 | | .0 | 80.8 |
| SE | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | 2.3 | 4.7 | .0 | 7.6 | .0 | 5.3 | | .0 | 80.1 |
| S | .0 | .0 | 1.8 | .0 | .0 | .0 | .0 | 1.8 | .0 | .0 | 6.8 | 1.4 | 10.4 | | .0 | 79.7 |
| SW | 1.0 | .0 | .0 | .0 | .0 | .0 | 1.0 | 2.1 | .0 | 2.1 | 4.4 | 1.3 | 6.7 | | .0 | 83.6 |
| W | .2 | .0 | .4 | .0 | .0 | .0 | .0 | .6 | .2 | .0 | 3.0 | .6 | 8.0 | | .3 | 87.3 |
| NW | * | * | .3 | .0 | .0 | .0 | * | .4 | .2 | * | 2.6 | .1 | 7.0 | | * | 89.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6.6 | .9 | 19.1 | | .0 | 77.4 |
| TOT PCT | .2 | * | .4 | .0 | .0 | .0 | * | .6 | .3 | .1 | 3.0 | .3 | 7.0 | | * | 88.7 |
| TOT OBS: | 4213 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .4 | .0 | .2 | .0 | .0 | .0 | .1 | .7 | .2 | .2 | 2.9 | .3 | 7.4 | | .0 | 88.3 |
| 06&09 | .1 | .0 | .6 | .0 | .0 | .0 | .0 | .7 | .2 | .1 | 1.9 | .2 | 6.7 | | .1 | 90.0 |
| 12&15 | .2 | .0 | .3 | .0 | .0 | .0 | .0 | .5 | .3 | .1 | 2.4 | .2 | 7.1 | | .1 | 89.3 |
| 18&21 | .1 | .1 | .5 | .0 | .0 | .0 | .1 | .6 | .4 | .0 | 4.4 | .4 | 6.5 | | .0 | 87.6 |
| TOT PCT | .2 | * | .4 | .0 | .0 | .0 | * | .6 | .3 | .1 | 3.0 | .3 | 6.9 | | * | 88.7 |
| TOT OBS: | 4244 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 7.9 | 10.4 | .6 | .0 | .0 | | 20.0 | 11.9 | 18.1 | 23.0 | 19.5 | 22.2 | 18.8 | 22.8 | 21.8 | 20.2 |
| NE | .1 | .7 | .2 | * | .0 | .0 | | .9 | 8.0 | .7 | 1.0 | .8 | .0 | 1.7 | .6 | 1.0 | .0 |
| E | .1 | .6 | .1 | * | .0 | .0 | | .8 | 7.8 | .3 | 1.4 | .7 | .6 | .8 | .6 | 1.1 | 1.6 |
| SE | .2 | .7 | .1 | * | .0 | .0 | | 1.0 | 6.9 | .7 | 2.5 | .7 | .4 | .6 | 1.5 | 1.6 | 1.3 |
| S | .4 | .7 | .2 | .1 | .0 | .0 | | 1.3 | 7.8 | .6 | 1.8 | 1.1 | 2.8 | 1.2 | .7 | 1.6 | 2.9 |
| SW | .5 | 1.5 | .2 | .1 | .0 | .0 | | 2.3 | 7.0 | 2.3 | .8 | 2.4 | 1.3 | 2.4 | 2.2 | 2.4 | 3.0 |
| W | 1.2 | 6.0 | 1.5 | .1 | .0 | .0 | | 8.8 | 7.8 | 7.3 | 5.5 | 10.3 | 7.5 | 10.6 | 8.6 | 8.0 | 10.1 |
| NW | 2.4 | 27.2 | 30.5 | 2.1 | .0 | .0 | | 62.3 | 11.8 | 68.2 | 61.5 | 62.5 | 64.1 | 60.7 | 59.6 | 58.7 | 58.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.6 | | | | | | | 2.6 | .0 | 1.8 | 2.5 | 2.0 | 1.1 | 3.2 | 3.5 | 3.7 | 2.1 |
| TOT OBS | 397 | 2104 | 2005 | 138 | 0 | 0 | 4644 | | 10.9 | 1067 | 122 | 838 | 176 | 919 | 172 | 1161 | 189 |
| TOT PCT | 8.5 | 45.3 | 43.2 | 3.0 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.8 | 12.4 | 3.8 | .1 | .0 | | 20.0 | 11.9 | 18.6 | 20.0 | 19.4 | 21.6 |
| NE | .5 | .4 | * | * | .0 | | .9 | 8.0 | .7 | .6 | 1.6 | .9 |
| E | .4 | .3 | * | * | .0 | | .8 | 7.8 | .4 | .6 | .8 | 1.2 |
| SE | .5 | .5 | * | .0 | .0 | | 1.0 | 6.9 | .9 | .6 | .7 | 1.6 |
| S | .7 | .4 | .1 | .0 | .0 | | 1.3 | 7.8 | .7 | 1.4 | 1.1 | 1.8 |
| SW | 1.4 | .8 | .1 | .0 | .0 | | 2.3 | 7.0 | 2.2 | 2.2 | 2.4 | 2.5 |
| W | 4.1 | 4.3 | .3 | * | .0 | | 8.8 | 7.8 | 7.1 | 9.8 | 10.3 | 8.3 |
| NW | 11.2 | 39.7 | 11.2 | .2 | .0 | | 62.3 | 11.8 | 67.5 | 62.8 | 60.5 | 58.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.6 | | | | | | 2.6 | .0 | 1.9 | 1.9 | 3.2 | 3.5 |
| TOT OBS | 1170 | 2738 | 724 | 12 | 0 | 4644 | | 10.9 | 1189 | 1014 | 1091 | 1350 |
| TOT PCT | 25.2 | 59.0 | 15.6 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.9 | 4.3 | 40.4 | 49.7 | 3.8 | .0 | .0 | 11.7 | 100.0 | 1189 |
| 06&09 | 1.9 | 4.5 | 45.4 | 44.0 | 4.2 | .0 | .0 | 11.4 | 100.0 | 1014 |
| 12&15 | 3.2 | 6.4 | 47.4 | 41.2 | 1.7 | .0 | .0 | 10.3 | 100.0 | 1091 |
| 18&21 | 3.5 | 7.9 | 47.9 | 38.4 | 2.3 | .0 | .0 | 10.2 | 100.0 | 1350 |
| TOT | 123 | 274 | 2104 | 2005 | 138 | 0 | 0 | 10.9 | | 4644 |
| PCT | 2.6 | 5.9 | 45.3 | 43.2 | 3.0 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 6.5 | 2.6 | 6.1 | 4.9 | | 4.8 |
| NE | .3 | .1 | .4 | .3 | | 4.6 |
| E | .3 | .1 | .1 | .3 | | 4.6 |
| SE | .4 | * | .3 | .2 | | 4.2 |
| S | .5 | .1 | .4 | .4 | | 4.5 |
| SW | .7 | .1 | .6 | .8 | | 4.8 |
| W | 3.4 | .7 | 1.8 | 2.8 | | 4.3 |
| NW | 21.1 | 6.7 | 16.1 | 17.8 | | 4.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .9 | .4 | .7 | 1.1 | | 4.8 |
| TOT OBS | 1101 | 351 | 855 | 920 | 3227 | 4.5 |
| TOT PCT | 34.1 | 10.9 | 26.5 | 28.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .7 | 2.3 | 3.8 | 1.4 | .5 | .2 | .1 | .1 | 10.7 | |
| NE | * | * | * | .1 | .4 | .1 | * | * | .0 | .0 | .4 | |
| E | * | * | .0 | .1 | .1 | .1 | .0 | * | .0 | .0 | .4 | |
| SE | * | .0 | * | .1 | .2 | .1 | * | .0 | .0 | .0 | .3 | |
| S | .1 | .0 | .1 | .2 | .2 | .0 | * | .1 | .0 | .0 | .8 | |
| SW | .1 | * | .1 | .3 | .4 | .2 | .1 | .0 | .0 | .0 | 1.0 | |
| W | .2 | .1 | .2 | .9 | 1.8 | .5 | .2 | * | .1 | * | 4.7 | |
| NW | .8 | .3 | 1.7 | 7.5 | 12.3 | 4.7 | 2.2 | .6 | .3 | .2 | 31.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | * | .1 | .2 | .5 | .5 | .1 | .1 | .1 | .0 | * | 1.5 | |
| TOT OBS | 46 | 20 | 100 | 382 | 637 | 230 | 104 | 34 | 15 | 12 | 1647 | 3227 |
| TOT PCT | 1.4 | .6 | 3.1 | 11.8 | 19.7 | 7.1 | 3.2 | 1.1 | .5 | .4 | 51.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >30YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| * OR >5000 | 1.3 | 1.7 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 4.0 | 4.9 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| * OR >2000 | 9.6 | 11.8 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| * OR >1000 | 25.1 | 31.3 | 31.9 | 31.9 | 32.0 | 32.0 | 32.0 | 32.0 |
| * OR >600 | 32.6 | 42.7 | 43.6 | 43.7 | 43.8 | 43.8 | 43.8 | 43.8 |
| * OR >300 | 34.2 | 45.4 | 46.7 | 46.8 | 46.9 | 46.9 | 46.9 | 46.9 |
| * OR >150 | 34.5 | 45.9 | 47.3 | 47.4 | 47.5 | 47.5 | 47.5 | 47.5 |
| * OR > 0 | 34.7 | 46.5 | 48.3 | 48.5 | 48.7 | 48.8 | 48.9 | 49.0 |
| TOTAL | 1119 | 1502 | 1558 | 1565 | 1573 | 1576 | 1580 | 1581 |

TOTAL NUMBER OF OBS: 3229

PCT FREQ NH <5/8: 51.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 22.3 | 8.7 | 7.2 | 6.0 | 6.1 | 6.0 | 7.9 | 11.3 | 23.3 | 1.2 | 3452 |

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | NO PCP | * | .0 | .0 | * | .0 | * | * | .1 | .0 | * | .3 | |
| | TOT % | * | .0 | .0 | * | .0 | * | * | .1 | .0 | * | .3 | |
| | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | |
| 1/2<1 | NO PCP | * | .0 | * | * | .0 | .0 | * | .1 | .0 | * | .2 | |
| | TOT % | .1 | .0 | * | * | .0 | .0 | * | .1 | .0 | * | .3 | |
| | PCP | * | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | * | |
| 1<2 | NO PCP | .1 | .0 | .0 | .0 | .0 | * | * | .3 | .0 | .0 | .5 | |
| | TOT % | .1 | .0 | .0 | .0 | * | * | * | .3 | .0 | .0 | .5 | |
| | PCP | * | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .0 | .1 | |
| 2<5 | NO PCP | .5 | * | .1 | .1 | .1 | .1 | .3 | 1.3 | .0 | .1 | 2.6 | |
| | TOT % | .6 | * | .1 | .1 | .1 | .1 | .3 | 1.3 | .0 | .1 | 2.7 | |
| | PCP | * | * | * | * | .0 | .0 | * | .1 | .0 | .0 | .3 | |
| 5<10 | NO PCP | 4.7 | .1 | .1 | .3 | .5 | .5 | 2.1 | 14.3 | .0 | .5 | 23.2 | |
| | TOT % | 4.7 | .1 | .2 | .3 | .5 | .5 | 2.1 | 14.4 | .0 | .5 | 23.5 | |
| | PCP | * | * | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .2 | |
| 10+ | NO PCP | 14.6 | .8 | .6 | .6 | .6 | 1.6 | 6.1 | 45.8 | .0 | 1.8 | 72.6 | |
| | TOT % | 14.6 | .8 | .6 | .6 | .6 | 1.6 | 6.1 | 45.9 | .0 | 1.8 | 72.8 | |
| | TOT OBS | | | | | | | | | | | | 4203 |
| | TOT PCT | 20.0 | 1.0 | .9 | 1.0 | 1.3 | 2.3 | 8.7 | 62.2 | .0 | 2.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | * | * | |
| <1/2 | 4-10 | .0 | .0 | .0 | * | .0 | * | * | .1 | .0 | | .2 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | * | .0 | * | * | .2 | .0 | * | .4 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | * | |
| 1/2<1 | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 11-21 | .0 | .0 | * | * | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | * | * | .0 | .0 | * | .1 | .0 | * | .3 | |
| | 0-3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 1<2 | 4-10 | .1 | .0 | .0 | .0 | .0 | * | * | .3 | .0 | | .4 | |
| | 11-21 | .1 | .0 | .0 | .0 | * | .0 | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .1 | .0 | .0 | .0 | * | * | * | .6 | .0 | .0 | .8 | |
| | 0-3 | .1 | .0 | .0 | .0 | * | * | * | .1 | .0 | .1 | .4 | |
| 2<5 | 4-10 | .4 | * | * | .1 | * | .1 | .3 | .9 | .0 | | 1.8 | |
| | 11-21 | .3 | .0 | .0 | .0 | .1 | * | .1 | .6 | .0 | | 1.0 | |
| | 22+ | .0 | * | * | .0 | .0 | * | * | * | .0 | | .1 | |
| | TOT % | .7 | * | .1 | .1 | .1 | .2 | .4 | 1.6 | .0 | .1 | 3.3 | |
| | 0-3 | .2 | * | * | .1 | .2 | .1 | .4 | .4 | .0 | .6 | 2.0 | |
| 5<10 | 4-10 | 1.7 | .1 | .1 | .2 | .3 | .3 | 1.4 | 6.4 | .0 | | 10.4 | |
| | 11-21 | 2.7 | * | * | .1 | * | * | .3 | 6.6 | .0 | | 9.8 | |
| | 22+ | .1 | .0 | .0 | * | * | * | * | .7 | .0 | | 1.0 | |
| | TOT % | 4.6 | .1 | .2 | .3 | .5 | .5 | 2.1 | 14.2 | .0 | .6 | 23.1 | |
| | 0-3 | .7 | .1 | .1 | .1 | .2 | .4 | .7 | 1.8 | .0 | 2.0 | 6.0 | |
| 10+ | 4-10 | 9.8 | .6 | .5 | .5 | .3 | 1.0 | 4.3 | 19.4 | .0 | | 32.3 | |
| | 11-21 | 7.5 | .1 | * | * | .1 | .2 | 1.1 | 23.0 | .0 | | 32.1 | |
| | 22+ | .5 | .0 | .0 | .0 | .0 | .0 | * | 1.3 | .0 | | 1.8 | |
| | TOT % | 14.5 | .8 | .6 | .6 | .6 | 1.6 | 6.2 | 48.5 | .0 | 2.0 | 72.2 | |
| | TOT OBS | | | | | | | | | | | | 4470 |
| | TOT PCT | 20.1 | 1.0 | .8 | 1.0 | 1.3 | 2.3 | 8.7 | 62.2 | .0 | 2.7 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .8 | .5 | 3.0 | 9.5 | 18.4 | 8.7 | 2.7 | 1.1 | .4 | .3 | 45.5 | 36.5 | 913 |
| 06&09 | 1.6 | .7 | 3.0 | 8.9 | 16.9 | 4.5 | 2.5 | .8 | .0 | .1 | 39.1 | 60.9 | 708 |
| 12&15 | 1.5 | .6 | 2.6 | 13.7 | 19.0 | 6.4 | 3.3 | .8 | .6 | .7 | 49.2 | 50.8 | 717 |
| 18&21 | 1.9 | .8 | 3.5 | 13.7 | 21.9 | 9.3 | 4.0 | 1.2 | .7 | .3 | 57.1 | 42.9 | 983 |
| TOT | 48 | 20 | 101 | 383 | 639 | 230 | 106 | 34 | 19 | 12 | 1588 | 1733 | 3321 |
| PCT | 1.4 | .6 | 3.0 | 11.5 | 19.2 | 6.9 | 3.2 | 1.0 | .5 | .4 | 47.8 | 52.2 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .3 | .2 | .8 | 2.6 | 20.4 | 75.7 | 1149 |
| 06&09 | .5 | .3 | .7 | 2.3 | 22.9 | 73.3 | 993 |
| 12&15 | .2 | .4 | .6 | 3.2 | 25.5 | 70.2 | 1041 |
| 18&21 | .5 | .2 | 1.1 | 4.8 | 24.1 | 69.4 | 1325 |
| TOT | 17 | 12 | 36 | 149 | 1044 | 3244 | 4502 |
| PCT | .4 | .3 | .8 | 3.3 | 23.2 | 72.1 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <500YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .8 | 4.5 | 15.5 | 29.8 | 54.6 | 888 |
| 06&09 | 1.5 | 5.4 | 15.8 | 25.2 | 58.9 | 682 |
| 12&15 | 1.6 | 4.8 | 19.9 | 30.8 | 49.3 | 702 |
| 18&21 | 1.9 | 6.2 | 21.6 | 37.4 | 41.0 | 957 |
| TOT | 46 | 170 | 593 | 1011 | 1625 | 3229 |
| PCT | 1.4 | 5.3 | 18.4 | 31.3 | 50.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 85/89 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * |
| 80/84 | .0 | .0 | * | .1 | .4 | .3 | .1 | .1 | 34 | 1.0 |
| 75/79 | .0 | * | .1 | .2 | .7 | 2.2 | 2.2 | .5 | 203 | 6.0 |
| 70/74 | .0 | .0 | * | .3 | 2.1 | 7.4 | 13.0 | 7.1 | 1006 | 29.9 |
| 65/69 | .0 | .0 | .0 | .1 | 1.9 | 8.7 | 23.7 | 16.7 | 1716 | 51.1 |
| 60/64 | .0 | .0 | .0 | .0 | .4 | 2.1 | 5.4 | 3.9 | 398 | 11.9 |
| 55/59 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .1 |
| TOTAL | 0 | 1 | 5 | 24 | 189 | 694 | 1492 | 953 | 3358 | 100.0 |
| PCT | .0 | * | .1 | .7 | 5.6 | 20.7 | 44.4 | 28.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 |
| .1 | * | .1 | .0 | * | .1 | .2 | .6 | .0 | .0 |
| 1.2 | .1 | .1 | .1 | .2 | .3 | .8 | 3.0 | .0 | .3 |
| 5.5 | .5 | .4 | .6 | .5 | .7 | 2.7 | 17.8 | .0 | 1.2 |
| 10.8 | .4 | .3 | .3 | .5 | .8 | 4.1 | 33.0 | .0 | 1.0 |
| 2.3 | .2 | * | .0 | * | .3 | 1.0 | 7.9 | .0 | .2 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 19.9 | 1.1 | .9 | 1.1 | 1.2 | 2.0 | 8.7 | 62.3 | .0 | 2.8 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 87 | 82 | 78 | 70 | 64 | 63 | 59 | 70.1 | 1186 |
| 06&09 | 80 | 75 | 73 | 67 | 63 | 61 | 59 | 67.3 | 1014 |
| 12&15 | 81 | 75 | 72 | 67 | 62 | 61 | 59 | 66.8 | 1090 |
| 18&21 | 85 | 81 | 77 | 70 | 64 | 63 | 59 | 69.8 | 1347 |
| TOT | 87 | 80 | 76 | 68 | 63 | 61 | 59 | 68.6 | 4637 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.2 | 7.9 | 28.3 | 45.4 | 17.1 | 81 | 883 |
| 06&09 | .0 | .7 | 3.5 | 12.0 | 44.1 | 39.7 | 86 | 768 |
| 12&15 | .0 | .3 | 3.1 | 12.7 | 41.0 | 42.9 | 86 | 780 |
| 18&21 | .0 | 1.4 | 7.3 | 26.9 | 46.7 | 17.7 | 81 | 955 |
| TOT | 0 | 31 | 191 | 698 | 1506 | 960 | 83 | 3386 |

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PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .1 | 7 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | * | .1 | .2 | .3 | .0 | 24 | * | .6 |
| 9/10 | .0 | .0 | * | .1 | .2 | .5 | .2 | .0 | 39 | .0 | 1.0 |
| 7/8 | .0 | .0 | .1 | .5 | 1.0 | .7 | .1 | .0 | 91 | .1 | 2.2 |
| 6 | .0 | .0 | .1 | .5 | 1.0 | .2 | .0 | .0 | 72 | .1 | 1.8 |
| 5 | .0 | .1 | .4 | 1.2 | 1.0 | .5 | * | .0 | 126 | .2 | 3.1 |
| 4 | .0 | .1 | .7 | 2.1 | 1.4 | .2 | * | * | 176 | .1 | 4.4 |
| 3 | .0 | .1 | 1.1 | 2.1 | 1.2 | .2 | * | .0 | 183 | .2 | 4.5 |
| 2 | .0 | .5 | 2.8 | 4.0 | 1.5 | .2 | .1 | .0 | 353 | .2 | 8.8 |
| 1 | .0 | .6 | 3.1 | 4.2 | 1.0 | .1 | .0 | .0 | 353 | .4 | 8.6 |
| 0 | .0 | 1.2 | 7.4 | 3.1 | 1.0 | .1 | .0 | .0 | 580 | .6 | 14.2 |
| -1 | .0 | 1.0 | 6.0 | 3.2 | .4 | * | .0 | .0 | 420 | .3 | 10.5 |
| -2 | .1 | 1.9 | 6.8 | 3.4 | .5 | * | .0 | .0 | 498 | .5 | 12.3 |
| -3 | * | 2.0 | 4.3 | 1.8 | .2 | * | .0 | .0 | 331 | .1 | 8.3 |
| -4 | * | 2.0 | 4.0 | .9 | .1 | .0 | .0 | .0 | 277 | .1 | 7.0 |
| -5 | * | 1.1 | 2.7 | .6 | .1 | * | * | .0 | 175 | .1 | 4.4 |
| -6 | * | .9 | 1.3 | .4 | * | .0 | .0 | .0 | 104 | .1 | 2.6 |
| -7/-8 | .1 | .4 | 1.0 | .2 | .1 | .0 | .0 | .0 | 70 | .1 | 1.7 |
| -9/-10 | .0 | .2 | .2 | * | .0 | .0 | .0 | .0 | 18 | .0 | .5 |
| -11/-13 | * | .1 | * | .1 | * | .0 | .0 | .0 | 8 | * | .2 |
| -14/-16 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | 5 | .0 | .1 |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 13 | 476 | 1653 | 1193 | 429 | 115 | 31 | 3 | 3913 | 119 | 3794 |
| PCT | .3 | 12.2 | 42.2 | 30.5 | 11.0 | 2.9 | .8 | .1 | 100.0 | 3.0 | 97.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.4 | .0 | .0 | .0 | .0 | 1.7 |
| 1-2 | .4 | 4.1 | 1.9 | .0 | .0 | .0 | 6.3 |
| 3-4 | .1 | 1.4 | 5.0 | .2 | .0 | .0 | 6.6 |
| 5-6 | .0 | .4 | 2.4 | .1 | .0 | .0 | 2.9 |
| 7 | .0 | .1 | 1.4 | .4 | .0 | .0 | 1.9 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 7.4 | 10.8 | .7 | .0 | .0 | 19.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .1 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .4 | .1 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .7 | .3 | * | .0 | .0 | 1.2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .7 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .9 | .1 | .1 | .0 | .0 | 1.0 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .7 | * | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.1 | * | .0 | .0 | .0 | 1.2 |

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0030 BAJA
29.4N 116.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .2 | .5 | .1 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .9 | .3 | .0 | .0 | .0 | 1.4 |

SW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|
| .2 | .4 | .0 | .0 | .0 | .0 | .6 |
| .0 | 1.1 | .1 | .0 | .0 | .0 | 1.1 |
| .0 | .4 | .1 | .0 | .0 | .0 | .6 |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .2 | 1.9 | .4 | .2 | .0 | .0 | 2.7 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .9 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .7 | 2.6 | .3 | .0 | .0 | .0 | 3.6 |
| 3-4 | .1 | 1.7 | 1.1 | .0 | .0 | .0 | 3.0 |
| 5-6 | .0 | .1 | .4 | .0 | .0 | .0 | .6 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 5.4 | 2.0 | .1 | .0 | .0 | 8.6 |

NW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|
| 1.1 | 3.6 | .1 | .0 | .0 | .0 | 4.8 | |
| .3 | 11.2 | 6.0 | .0 | .0 | .0 | 17.6 | |
| .4 | 9.4 | 13.9 | .3 | .0 | .0 | 24.0 | |
| .0 | 1.7 | 7.5 | .6 | .0 | .0 | 9.7 | |
| .0 | .1 | 3.0 | .8 | .0 | .0 | 3.9 | |
| .0 | .0 | .6 | .5 | .0 | .0 | 1.2 | |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| .0 | .0 | * | .0 | .0 | .0 | * | |
| .0 | .0 | .0 | * | .0 | .0 | * | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1.8 | 26.0 | 31.2 | 2.2 | .0 | .0 | 61.2 | 97.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.1 | 7.3 | .1 | .0 | .0 | .0 | 12.5 | |
| 1-2 | 1.7 | 21.3 | 8.5 | .0 | .0 | .0 | 31.5 | |
| 3-4 | .7 | 13.2 | 20.3 | .4 | .0 | .0 | 34.6 | |
| 5-6 | .0 | 2.2 | 10.5 | .7 | .0 | .0 | 13.4 | |
| 7 | .0 | .1 | 4.6 | 1.4 | .0 | .0 | 6.2 | |
| 8-9 | .0 | .1 | .9 | .7 | .0 | .0 | 1.6 | |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.5 | 44.2 | 45.0 | 3.3 | .0 | .0 | 100.0 | 1348 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.6 | 15.6 | 20.0 | 7.8 | 2.3 | 1.2 | .4 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1509 | 3 |
| 6-7 | .1 | 2.2 | 8.7 | 9.7 | 4.1 | 1.1 | .5 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 793 | 5 |
| 8-9 | .0 | .7 | 1.9 | 3.2 | 2.7 | .7 | .3 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 293 | 6 |
| 10-11 | .0 | .6 | .5 | .7 | .7 | .3 | * | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 91 | 5 |
| 12-13 | .0 | .0 | .8 | .3 | .2 | .2 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 47 | 5 |
| >13 | .0 | .0 | .0 | .2 | .3 | .2 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 27 | 8 |
| INDET | 2.6 | 1.6 | 1.4 | .7 | .3 | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 197 | 2 |
| TOTAL | 186 | 613 | 985 | 672 | 314 | 110 | 41 | 20 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2957 | 4 |
| PCT | 6.3 | 20.7 | 33.3 | 22.7 | 10.6 | 3.7 | 1.4 | .7 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1885-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .1 | .2 | .0 | .0 | .0 | .0 | .7 | .2 | .2 | 4.7 | .2 | 5.9 | | .0 | 88.3 |
| NE | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | 2.8 | .0 | 8.8 | | .0 | 88.0 |
| E | 2.4 | .0 | 2.4 | .0 | .0 | .0 | .0 | 4.8 | 2.4 | .0 | 1.8 | .0 | 13.2 | | .0 | 77.8 |
| SE | 5.2 | .0 | 1.7 | .0 | .0 | .0 | .0 | 6.9 | .4 | .0 | 4.3 | .0 | 9.9 | | .0 | 78.5 |
| S | 1.2 | .0 | 1.6 | .0 | .0 | .0 | .0 | 2.8 | 1.2 | .0 | 9.3 | .0 | 5.3 | | .0 | 81.3 |
| SW | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | 1.4 | .7 | 5.8 | .0 | 7.5 | | 1.4 | 83.1 |
| W | .1 | .0 | .3 | .0 | .0 | .0 | .0 | .4 | .7 | .3 | 2.4 | .0 | 6.4 | | .0 | 89.8 |
| NW | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .4 | .1 | .1 | 5.1 | .1 | 6.7 | | .1 | 87.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 8.5 | .0 | 7.7 | | .0 | 83.1 |
| TOT PCT | .3 | .1 | .2 | .0 | .0 | .0 | .0 | .6 | .2 | .1 | 4.9 | .1 | 6.6 | | .1 | 87.4 |
| TOT OBS: | 4429 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .4 | .1 | .0 | 3.2 | .1 | 8.3 | | .2 | 87.8 |
| 06&09 | .6 | .1 | .5 | .0 | .0 | .0 | .0 | 1.2 | .3 | .3 | 4.3 | .0 | 5.6 | | .0 | 88.4 |
| 12&15 | .3 | .0 | .1 | .0 | .0 | .0 | .0 | .4 | .2 | .3 | 5.1 | .2 | 5.2 | | .0 | 88.8 |
| 18&21 | .2 | .2 | .2 | .0 | .0 | .0 | .0 | .5 | .3 | .0 | 6.6 | .1 | 7.3 | | .1 | 85.2 |
| TOT PCT | .3 | .1 | .2 | .0 | .0 | .0 | .0 | .6 | .2 | .1 | 4.9 | .1 | 6.6 | | .1 | 87.4 |
| TOT OBS: | 4452 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .9 | 10.3 | 10.2 | .5 | .0 | .0 | | 21.9 | 11.3 | 19.3 | 23.7 | 22.6 | 21.0 | 22.5 | 23.9 | 22.6 | 24.6 |
| NE | .3 | 1.1 | .3 | * | .0 | .0 | | 1.8 | 7.8 | .4 | 1.7 | 1.8 | 3.1 | 2.1 | 4.2 | 2.3 | 1.1 |
| E | .2 | .5 | .1 | * | .0 | .0 | | .9 | 7.6 | .4 | .4 | 1.3 | .6 | 1.1 | 1.3 | .7 | 1.6 |
| SE | .3 | .8 | .2 | .0 | .0 | .0 | | 1.3 | 6.9 | 1.1 | .6 | 1.0 | 1.1 | 1.7 | 1.1 | 1.5 | .0 |
| S | .4 | .8 | .2 | .0 | .0 | .0 | | 1.3 | 6.1 | 1.2 | 2.4 | .8 | 1.1 | 1.9 | .5 | 1.5 | .3 |
| SW | .3 | 1.0 | .2 | * | .0 | .0 | | 1.6 | 6.9 | 1.8 | 1.5 | 2.2 | 1.1 | 1.6 | 1.3 | 1.2 | 1.3 |
| W | .9 | 5.1 | 2.3 | .1 | * | .0 | | 8.4 | 8.9 | 8.7 | 4.7 | 8.3 | 8.1 | 9.1 | 7.8 | 8.0 | 8.8 |
| NW | 2.0 | 28.0 | 28.0 | 1.8 | * | .0 | | 59.9 | 11.5 | 65.0 | 64.4 | 58.8 | 60.9 | 56.3 | 56.2 | 58.5 | 61.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.0 | | | | | | | 3.0 | .0 | 1.9 | .7 | 3.2 | 2.8 | 3.7 | 3.7 | 3.8 | 1.1 |
| TOT OBS | 408 | 2330 | 2038 | 126 | 3 | 0 | 4905 | | 10.6 | 1122 | 134 | 908 | 176 | 989 | 190 | 1199 | 187 |
| TOT PCT | 8.3 | 47.5 | 41.5 | 2.6 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.4 | 14.0 | 3.5 | * | .0 | | 21.9 | 11.3 | 19.8 | 22.3 | 22.7 | 22.9 |
| NE | .8 | .9 | .1 | * | .0 | | 1.8 | 7.8 | .6 | 2.0 | 2.4 | 2.2 |
| E | .5 | .3 | .1 | * | .0 | | .9 | 7.6 | .4 | 1.2 | 1.2 | .8 |
| SE | .7 | .5 | * | .0 | .0 | | 1.3 | 6.9 | 1.1 | 1.0 | 1.6 | 1.3 |
| S | .9 | .5 | * | .0 | .0 | | 1.3 | 6.1 | 1.4 | .9 | 1.7 | 1.4 |
| SW | 1.0 | .6 | .1 | .0 | .0 | | 1.6 | 6.9 | 1.8 | 2.1 | 1.5 | 1.2 |
| W | 3.2 | 4.4 | .7 | * | .0 | | 8.4 | 8.9 | 8.3 | 8.3 | 8.9 | 8.1 |
| NW | 10.3 | 40.5 | 8.8 | .3 | .0 | | 59.9 | 11.5 | 64.9 | 59.1 | 56.3 | 58.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.0 | | | | | | 3.0 | .0 | 1.8 | 3.1 | 3.7 | 3.2 |
| TOT OBS | 1212 | 3026 | 651 | 16 | 0 | 4905 | | 10.6 | 1256 | 1084 | 1179 | 1386 |
| TOT PCT | 24.7 | 61.7 | 13.3 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

OCTOBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1885-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 4.1 | 43.6 | 47.5 | 3.1 | .0 | .0 | 11.3 | 100.0 | 1256 |
| 06&09 | 3.1 | 4.2 | 47.0 | 42.3 | 3.3 | .1 | .0 | 10.9 | 100.0 | 1084 |
| 12&15 | 3.7 | 6.2 | 49.7 | 38.5 | 1.8 | .1 | .0 | 10.2 | 100.0 | 1179 |
| 18&21 | 3.2 | 6.8 | 49.6 | 38.2 | 2.2 | .1 | .0 | 10.0 | 100.0 | 1386 |
| TOT | 145 | 263 | 2330 | 2038 | 126 | 3 | 0 | 10.6 | | 4905 |
| PCT | 3.0 | 5.4 | 47.5 | 41.5 | 2.6 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.1 | 3.0 | 5.4 | 5.0 | | 3.9 |
| NE | 1.0 | .3 | .3 | .2 | | 2.6 |
| E | .4 | .1 | .3 | .2 | | 3.8 |
| SE | .5 | .1 | .4 | .3 | | 4.4 |
| S | .3 | .2 | .3 | .5 | | 4.9 |
| SW | .5 | .1 | .5 | .4 | | 5.0 |
| W | 3.1 | 1.1 | 2.1 | 2.2 | | 4.3 |
| NW | 21.4 | 8.7 | 15.7 | 13.6 | | 4.2 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.1 | .4 | .5 | .9 | | 4.2 |
| TOT OBS | 1303 | 489 | 885 | 808 | 3485 | 4.1 |
| TOT PCT | 37.4 | 14.0 | 25.4 | 23.2 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | .2 | .7 | 2.1 | 3.1 | 1.8 | .6 | .1 | * | * | 13.4 | |
| NE | .0 | .0 | * | .1 | .1 | .1 | .1 | .0 | * | .0 | 1.3 | |
| E | .0 | * | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .7 | |
| SE | * | .0 | * | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .8 | |
| S | * | .0 | * | .1 | .4 | * | .1 | .0 | .0 | .0 | .6 | |
| SW | .0 | .0 | .1 | .3 | .2 | .1 | .1 | .0 | .0 | * | .7 | |
| W | .1 | .1 | .1 | .8 | 1.6 | .8 | .2 | .1 | .1 | .0 | 4.6 | |
| NW | 1.0 | .3 | 1.2 | 5.3 | 9.8 | 4.8 | 1.7 | .6 | .3 | .1 | 34.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .1 | .3 | .2 | .2 | .1 | * | * | .0 | 1.8 | |
| TOT OBS | 64 | 20 | 79 | 324 | 544 | 278 | 101 | 28 | 15 | 7 | 2025 | 3485 |
| TOT PCT | 1.8 | .6 | 2.3 | 9.3 | 15.6 | 8.0 | 2.9 | .8 | .4 | .2 | 58.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .5 | .6 | .6 | .6 | .6 | .6 | .6 |
| * OR >5000 | 1.1 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >3500 | 3.6 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| * OR >2000 | 10.1 | 12.0 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| * OR >1000 | 22.2 | 27.4 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 |
| * OR >600 | 28.5 | 36.3 | 37.0 | 37.1 | 37.2 | 37.2 | 37.2 | 37.2 |
| * OR >300 | 29.7 | 38.3 | 39.3 | 39.4 | 39.5 | 39.5 | 39.5 | 39.5 |
| * OR >150 | 29.8 | 38.6 | 39.8 | 39.9 | 40.0 | 40.1 | 40.1 | 40.1 |
| * OR > 0 | 30.0 | 39.1 | 40.5 | 40.7 | 41.2 | 41.4 | 41.7 | 41.8 |
| TOTAL | 1044 | 1361 | 1409 | 1417 | 1433 | 1440 | 1451 | 1455 |

TOTAL NUMBER OF OBS: 3482

PCT FREQ NH <5/8: 58.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 24.7 | 9.0 | 9.6 | 8.0 | 5.9 | 5.5 | 8.0 | 10.0 | 18.0 | 1.3 | 3676 |

OCTOBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1885-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | |
| | NO PCP | .2 | .0 | .0 | * | * | .0 | * | .4 | .0 | * | .6 | |
| | TOT % | .2 | .0 | * | * | * | .0 | * | .4 | .0 | * | .7 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | .1 | .4 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | .1 | .5 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .2 | * | .0 | .0 | .0 | * | * | .5 | .0 | .1 | .9 | |
| | TOT % | .2 | * | .0 | .0 | .0 | * | * | .5 | .0 | .1 | .9 | |
| 2<5 | PCP | * | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | NO PCP | .7 | * | * | * | .1 | .1 | .2 | 1.7 | .0 | .1 | 3.0 | |
| | TOT % | .8 | * | * | * | .1 | .1 | .2 | 1.7 | .0 | .1 | 3.0 | |
| 5<10 | PCP | .1 | * | * | * | * | * | .0 | .1 | .0 | .0 | .3 | |
| | NO PCP | 4.4 | .4 | .2 | .3 | .3 | .4 | 1.9 | 12.0 | .0 | .5 | 20.4 | |
| | TOT % | 4.5 | .4 | .2 | .3 | .3 | .4 | 1.9 | 12.1 | .0 | .5 | 20.7 | |
| 10+ | PCP | .1 | .0 | .0 | * | .0 | .0 | * | .1 | .0 | * | .2 | |
| | NO PCP | 16.4 | 1.3 | .7 | .9 | .9 | 1.2 | 6.2 | 44.4 | .0 | 2.1 | 74.1 | |
| | TOT % | 16.5 | 1.3 | .7 | .9 | .9 | 1.2 | 6.3 | 44.4 | .0 | 2.1 | 74.3 | |
| | TOT OBS | | | | | | | | | | | | 4415 |
| | TOT PCT | 22.2 | 1.8 | .9 | 1.3 | 1.4 | 1.7 | 8.3 | 59.4 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | .0 | .0 | * | * | .0 | * | .1 | .0 | .1 | .2 | |
| | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | | .4 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | 22+ | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .2 | .0 | * | * | * | .0 | * | .4 | .0 | .1 | .7 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | |
| | 4-10 | * | .0 | .0 | .0 | .0 | * | * | .2 | .0 | | .3 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | * | * | .3 | .0 | .1 | .6 | |
| 1<2 | 0-3 | * | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | .2 | |
| | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | | .4 | |
| | 11-21 | .1 | * | .0 | .0 | .0 | .0 | .0 | .3 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .2 | * | .0 | .0 | .0 | * | * | .6 | .0 | .1 | 1.0 | |
| 2<5 | 0-3 | .1 | * | * | * | .1 | * | * | .1 | .0 | .1 | .5 | |
| | 4-10 | .4 | * | .0 | * | * | * | .1 | 1.1 | .0 | | 1.7 | |
| | 11-21 | .3 | .0 | .0 | * | * | * | * | .8 | .0 | | 1.1 | |
| | 22+ | .0 | * | * | .0 | .0 | * | * | * | .0 | | .1 | |
| | TOT % | .8 | * | * | .1 | .1 | .1 | .2 | 2.0 | .0 | .1 | 3.5 | |
| 5<10 | 0-3 | .1 | .1 | * | .1 | .1 | .1 | .2 | .5 | .0 | .6 | 1.6 | |
| | 4-10 | 2.4 | .2 | .1 | .2 | .2 | .3 | 1.2 | 5.7 | .0 | | 10.3 | |
| | 11-21 | 1.9 | .1 | * | * | * | .1 | .3 | 5.4 | .0 | | 7.8 | |
| | 22+ | .1 | * | .0 | .0 | .0 | * | * | .4 | .0 | | .6 | |
| | TOT % | 4.4 | .4 | .2 | .3 | .3 | .4 | 1.8 | 12.0 | .0 | .6 | 20.3 | |
| 10+ | 0-3 | .6 | .2 | .2 | .2 | .3 | .2 | .6 | 1.3 | .0 | 2.0 | 5.6 | |
| | 4-10 | 7.2 | .8 | .4 | .6 | .5 | .7 | 3.7 | 20.2 | .0 | | 34.1 | |
| | 11-21 | 8.0 | .3 | .1 | .1 | .1 | .1 | 1.9 | 21.7 | .0 | | 32.2 | |
| | 22+ | .5 | * | .0 | .0 | .0 | * | .1 | 1.4 | .0 | | 2.0 | |
| | TOT % | 16.3 | 1.3 | .6 | .9 | .9 | 1.1 | 6.3 | 44.5 | .0 | 2.0 | 73.9 | |
| | TOT OBS | | | | | | | | | | | | 4698 |
| | TOT PCT | 22.0 | 1.7 | .9 | 1.3 | 1.3 | 1.6 | 8.4 | 59.8 | .0 | 2.9 | 100.0 | |

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PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1885-1973

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29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .7 | .6 | 2.5 | 7.1 | 15.0 | 7.7 | 2.6 | .9 | .2 | .5 | 37.8 | 62.2 | 934 |
| 06&09 | 1.1 | .6 | 1.3 | 8.3 | 13.7 | 6.7 | 2.4 | .4 | .5 | .3 | 35.3 | 64.7 | 793 |
| 12&15 | 2.5 | .6 | 3.0 | 10.8 | 16.8 | 7.2 | 2.1 | .9 | .4 | .0 | 44.3 | 55.7 | 804 |
| 18&21 | 2.7 | .4 | 2.2 | 10.2 | 15.5 | 9.3 | 3.9 | 1.0 | .6 | .0 | 45.9 | 54.1 | 1038 |
| TOT | 64 | 20 | 80 | 325 | 545 | 280 | 101 | 28 | 15 | 7 | 1465 | 2104 | 3569 |
| PCT | 1.8 | .6 | 2.2 | 9.1 | 15.3 | 7.8 | 2.8 | .8 | .4 | .2 | 41.0 | 59.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .3 | .4 | 1.0 | 3.4 | 18.8 | 76.2 | 1194 |
| 06&09 | .7 | .4 | .6 | 3.4 | 20.8 | 74.2 | 1053 |
| 12&15 | .6 | 1.0 | 1.0 | 3.7 | 21.2 | 72.4 | 1125 |
| 18&21 | 1.2 | .5 | 1.2 | 3.3 | 20.9 | 72.9 | 1350 |
| TOT | 33 | 27 | 45 | 163 | 964 | 3490 | 4722 |
| PCT | .7 | .6 | 1.0 | 3.5 | 20.4 | 73.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .8 | 4.0 | 13.5 | 26.9 | 59.6 | 919 |
| 06&09 | 1.0 | 3.1 | 14.0 | 24.0 | 61.9 | 770 |
| 12&15 | 2.6 | 6.5 | 19.0 | 27.6 | 53.4 | 784 |
| 18&21 | 2.5 | 5.5 | 17.8 | 30.3 | 51.8 | 1009 |
| TOT | 60 | 167 | 561 | 954 | 1967 | 3482 |
| PCT | 1.7 | 4.8 | 16.1 | 27.4 | 56.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | * | .0 | .1 | .2 | .1 | .0 | .0 | 18 | .5 |
| 75/79 | * | .0 | .1 | .4 | .7 | 1.4 | .6 | .2 | 122 | 3.4 |
| 70/74 | .0 | .0 | * | .6 | 2.7 | 5.8 | 6.3 | 2.4 | 646 | 17.8 |
| 65/69 | .0 | * | * | .6 | 3.4 | 13.3 | 22.5 | 12.1 | 1883 | 51.9 |
| 60/64 | .0 | .0 | .2 | .4 | 2.1 | 5.0 | 11.1 | 7.1 | 936 | 25.8 |
| 55/59 | .0 | .0 | .0 | .1 | .1 | .1 | .1 | .2 | 21 | .6 |
| TOTAL | 1 | 2 | 10 | 79 | 333 | 935 | 1471 | 795 | 3626 | 100.0 |
| PCT | * | .1 | .3 | 2.2 | 9.2 | 25.8 | 40.6 | 21.9 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | .1 | * | .0 | .0 | .0 | * | * | .3 | .0 | .0 |
| | .7 | .1 | * | * | .1 | .1 | .2 | 1.9 | .0 | .1 |
| | 4.4 | .6 | .3 | .3 | .2 | .4 | 1.7 | 9.4 | .0 | .5 |
| | 11.4 | .7 | .3 | .6 | .7 | .8 | 4.4 | 31.6 | .0 | 1.5 |
| | 5.8 | .4 | .2 | .3 | .4 | .5 | 2.2 | 15.4 | .0 | .8 |
| | .1 | * | * | .0 | .0 | .1 | * | .3 | .0 | * |
| | 22.4 | 1.7 | .9 | 1.3 | 1.4 | 1.8 | 8.6 | 58.8 | .0 | 3.0 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 83 | 79 | 75 | 67 | 63 | 61 | 57 | 68.0 | 1248 |
| 06&09 | 81 | 73 | 71 | 65 | 61 | 59 | 56 | 65.7 | 1087 |
| 12&15 | 80 | 73 | 70 | 65 | 61 | 59 | 57 | 65.2 | 1177 |
| 18&21 | 85 | 78 | 75 | 68 | 63 | 60 | 57 | 68.2 | 1377 |
| TOT | 85 | 78 | 74 | 66 | 62 | 60 | 56 | 66.9 | 4889 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 3.2 | 10.2 | 30.0 | 40.8 | 15.6 | 80 | 909 |
| 06&09 | .0 | 1.2 | 5.1 | 20.4 | 44.6 | 28.7 | 83 | 823 |
| 12&15 | .0 | 1.8 | 6.2 | 20.6 | 40.6 | 30.9 | 83 | 875 |
| 18&21 | .0 | 3.7 | 13.9 | 30.7 | 37.2 | 14.5 | 78 | 1040 |
| TOT | 1 | 93 | 334 | 940 | 1480 | 799 | 81 | 3647 |

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PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1885-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | * | * | * | .1 | .0 | 9 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .1 | * | .1 | .4 | .1 | 31 | .0 | .8 |
| 9/10 | .0 | .0 | .0 | .1 | .1 | .3 | .2 | .1 | 32 | * | .8 |
| 7/8 | .0 | .0 | * | .1 | .4 | .6 | .2 | .0 | 55 | * | 1.3 |
| 6 | .0 | .0 | .0 | .2 | .7 | .3 | .1 | .0 | 53 | * | 1.2 |
| 5 | .0 | .0 | .1 | .4 | 1.1 | 1.0 | .2 | * | 119 | .1 | 2.8 |
| 4 | .0 | .0 | .3 | 1.0 | 1.8 | .7 | * | * | 159 | .2 | 3.6 |
| 3 | .0 | .0 | .2 | 1.3 | 1.9 | .7 | * | .0 | 166 | .2 | 3.8 |
| 2 | .0 | * | .7 | 3.1 | 2.8 | .6 | * | .0 | 298 | .4 | 6.9 |
| 1 | .0 | * | .7 | 3.3 | 2.5 | .5 | * | .0 | 292 | .3 | 6.8 |
| 0 | .0 | .1 | 1.8 | 7.6 | 3.3 | .3 | * | .0 | 546 | .5 | 12.7 |
| -1 | .0 | * | 2.4 | 6.8 | 1.9 | .1 | .0 | .0 | 462 | .5 | 10.7 |
| -2 | * | .1 | 4.5 | 7.3 | 1.5 | .1 | * | .0 | 564 | .6 | 13.0 |
| -3 | .0 | .1 | 4.5 | 4.9 | 1.2 | * | .0 | .0 | 448 | .8 | 10.0 |
| -4 | .0 | .2 | 4.4 | 4.0 | .7 | * | * | .0 | 388 | .5 | 8.9 |
| -5 | .0 | .2 | 2.4 | 2.1 | .2 | .0 | * | .0 | 203 | .2 | 4.7 |
| -6 | .0 | .3 | 1.6 | 1.0 | .2 | * | .0 | .0 | 127 | .2 | 2.9 |
| -7/-8 | .0 | .3 | 1.3 | 1.0 | .2 | .0 | .0 | .0 | 114 | .1 | 2.7 |
| -9/-10 | .0 | .1 | .4 | .4 | .1 | .1 | .0 | .0 | 41 | * | 1.0 |
| -11/-13 | .0 | .1 | * | .1 | * | .0 | .0 | .0 | 12 | .0 | .3 |
| -14/-16 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | 5 | .0 | .1 |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | 72 | 1042 | 1855 | 856 | 225 | 65 | 11 | 4127 | 199 | 3928 |
| PCT | * | 1.7 | 25.2 | 44.9 | 20.7 | 5.5 | 1.6 | .3 | 100.0 | 4.8 | 95.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.2 | .1 | .0 | .0 | .0 | 1.6 |
| 1-2 | .3 | 5.0 | 2.4 | .0 | .0 | .0 | 7.7 |
| 3-4 | .1 | 3.0 | 5.5 | .2 | .0 | .0 | 8.7 |
| 5-6 | .0 | .4 | 3.4 | .4 | .0 | .0 | 4.2 |
| 7 | .0 | .3 | .9 | .1 | .0 | .0 | 1.3 |
| 8-9 | .0 | .1 | .2 | .3 | .0 | .0 | .6 |
| 10-11 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 10.1 | 12.5 | 1.0 | .0 | .0 | 24.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .2 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | * | .3 | .2 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .2 | .2 | * | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | .7 | .6 | * | .0 | .0 | 1.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .4 | .1 | .1 | .0 | .0 | .6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .1 | .5 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .2 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | .4 | .0 | .0 | .0 | 1.4 |

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0030 BAJA

TABLE 18 (CONT) 29.4N 116.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | .1 | .0 | .0 | .0 | .0 | .2 | * | .4 | .0 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .3 | * | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .2 | .0 | .0 | .0 | .0 | .3 | .2 | .8 | * | * | .0 | .0 | 1.0 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | .6 | .1 | .0 | .0 | .0 | .9 | .6 | 1.7 | .1 | .0 | .0 | .0 | 2.3 | |
| 1-2 | .2 | 2.5 | .6 | .0 | .0 | .0 | 3.3 | .9 | 13.4 | 6.1 | .0 | .0 | .0 | 20.4 | |
| 3-4 | .1 | .6 | 1.0 | .0 | .0 | .0 | 1.7 | .1 | 9.5 | 12.3 | .4 | .0 | .0 | 22.2 | |
| 5-6 | .0 | .1 | .3 | .1 | .0 | .0 | .5 | .1 | 2.8 | 7.6 | .7 | .0 | .0 | 11.2 | |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .5 | 2.2 | .7 | .0 | .0 | 3.4 | |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | * | .6 | .1 | .0 | .0 | .8 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | .1 | .0 | .0 | .4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | * | .1 | .1 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .5 | 4.0 | 2.1 | .1 | .0 | .0 | 6.6 | 1.6 | 28.1 | 29.1 | 2.1 | .0 | .0 | 60.8 | 96.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.3 | 4.2 | .2 | .0 | .0 | .0 | 9.7 | |
| 1-2 | 1.7 | 22.4 | 9.3 | .0 | .0 | .0 | 33.4 | |
| 3-4 | .2 | 13.7 | 19.3 | .5 | .0 | .0 | 33.8 | |
| 5-6 | .1 | 3.3 | 11.5 | 1.2 | .0 | .0 | 16.1 | |
| 7 | .0 | .8 | 3.2 | .8 | .0 | .0 | 4.7 | |
| 8-9 | .0 | .1 | .9 | .5 | .0 | .0 | 1.5 | |
| 10-11 | .0 | .2 | .1 | .1 | .0 | .0 | .4 | |
| 12 | .0 | .1 | .0 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .1 | .1 | .1 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1463 |
| TOT PCT | 7.2 | 45.0 | 44.6 | 3.2 | .0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.7 | 15.3 | 18.7 | 7.8 | 2.3 | .6 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1552 | 3 |
| 6-7 | .2 | 1.8 | 9.5 | 9.4 | 3.5 | 1.3 | .2 | .1 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 830 | 5 |
| 8-9 | .1 | 1.2 | 3.0 | 3.7 | 1.9 | 1.1 | .4 | .2 | .3 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 383 | 5 |
| 10-11 | .0 | .4 | 1.0 | 1.6 | 1.0 | .7 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 155 | 5 |
| 12-13 | .0 | .0 | .7 | .5 | .4 | .3 | .1 | .1 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 65 | 6 |
| >13 | .0 | .0 | .0 | .3 | .2 | .2 | .1 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 33 | 8 |
| INDET | 2.3 | 1.3 | .9 | .5 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 169 | 2 |
| TOTAL | 198 | 634 | 1077 | 755 | 303 | 135 | 36 | 23 | 19 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3187 | 4 |
| PCT | 6.2 | 19.9 | 33.8 | 23.7 | 9.5 | 4.2 | 1.1 | .7 | .6 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .1 | * | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .2 | 2.8 | .2 | 4.5 | .2 | | 91.7 |
| NE | .6 | .0 | .6 | .0 | .0 | .0 | .0 | 1.1 | .7 | .6 | 3.3 | .0 | 3.4 | .1 | | 90.8 |
| E | .9 | 1.2 | 1.2 | .0 | .0 | .0 | .0 | 3.2 | 2.1 | .0 | 2.3 | 1.2 | 2.6 | .9 | | 87.7 |
| SE | 2.4 | 1.9 | 1.4 | .0 | .0 | .0 | .0 | 5.7 | 3.1 | .0 | 3.3 | .9 | .9 | .0 | | 86.0 |
| S | 1.8 | .0 | 0.5 | .0 | .0 | .0 | .0 | 7.3 | 4.7 | .0 | 2.3 | .0 | 2.1 | .0 | | 83.6 |
| SW | 1.0 | 1.2 | 1.5 | .0 | .0 | .0 | .0 | 3.6 | 2.4 | 1.2 | 8.3 | .0 | 2.2 | .0 | | 82.2 |
| W | .4 | .8 | .4 | .0 | .0 | .0 | .0 | 1.7 | 1.0 | .5 | 4.6 | .3 | 2.6 | .0 | | 89.2 |
| NW | .5 | .2 | .4 | .0 | .0 | .0 | .0 | 1.1 | .9 | .1 | 2.8 | .3 | 3.6 | * | | 91.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | 10.4 | .0 | 4.4 | .0 | | 84.6 |
| TOT PCT | .5 | .3 | .5 | .0 | .0 | .0 | .0 | 1.2 | 1.0 | .2 | 3.3 | .2 | 3.6 | .1 | | 90.4 |
| TOT OBS: | 4103 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .3 | .5 | .5 | .0 | .0 | .0 | .0 | 1.2 | 1.1 | .1 | 3.6 | .4 | 4.3 | .2 | | 89.1 |
| 06&09 | .3 | .0 | .5 | .0 | .0 | .0 | .0 | .9 | 1.2 | .4 | 2.9 | .3 | 3.6 | .0 | | 90.7 |
| 12&15 | .6 | .3 | .6 | .0 | .0 | .0 | .0 | 1.5 | .5 | .3 | 3.3 | .2 | 2.8 | .0 | | 91.4 |
| 18&21 | .7 | .5 | .3 | .0 | .0 | .0 | .0 | 1.4 | 1.1 | .1 | 4.3 | .1 | 3.4 | .1 | | 89.6 |
| TOT PCT | .5 | .3 | .5 | .0 | .0 | .0 | .0 | 1.3 | 1.0 | .2 | 3.6 | .2 | 3.6 | .1 | | 90.1 |
| TOT OBS: | 4165 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.1 | 12.6 | 10.0 | .8 | * | .0 | | 25.5 | 10.6 | 22.7 | 30.1 | 26.0 | 20.3 | 25.3 | 32.0 | 26.5 | 31.5 |
| NE | .7 | 2.5 | 1.0 | .1 | .0 | .0 | | 4.3 | 8.5 | 2.5 | 5.9 | 3.5 | 4.4 | 5.6 | 7.2 | 4.6 | 5.5 |
| E | .6 | 1.1 | .3 | * | .0 | .0 | | 2.0 | 7.0 | 1.2 | 1.2 | 1.8 | 1.7 | 2.5 | 1.8 | 2.7 | 2.0 |
| SE | .4 | 1.4 | .7 | * | .0 | .0 | | 2.5 | 8.7 | 2.0 | .4 | 2.5 | 1.9 | 2.6 | 2.7 | 3.1 | 2.7 |
| S | .4 | 1.3 | .5 | .0 | .0 | .0 | | 2.2 | 7.3 | 3.2 | .8 | 2.2 | 2.4 | 1.6 | 1.0 | 2.1 | 1.5 |
| SW | .5 | 1.5 | .5 | * | .0 | .0 | | 2.4 | 7.5 | 2.6 | 3.0 | 2.1 | 2.7 | 2.5 | 1.9 | 2.5 | 1.7 |
| W | 1.0 | 5.1 | 1.8 | .1 | * | .0 | | 8.0 | 8.6 | 8.1 | 7.7 | 6.8 | 9.6 | 8.0 | 9.8 | 8.0 | 7.9 |
| NW | 2.4 | 24.4 | 21.0 | 1.7 | .1 | .0 | | 49.5 | 11.2 | 55.2 | 45.5 | 51.3 | 52.3 | 48.4 | 41.1 | 49.9 | 44.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.6 | | | | | | | 3.6 | .0 | 2.5 | 5.5 | 3.8 | 4.8 | 3.5 | 2.4 | 4.5 | 3.4 |
| TOT OBS | 532 | 2275 | 1634 | 132 | 5 | 0 | 4578 | | 10.0 | 1097 | 127 | 797 | 188 | 894 | 206 | 1091 | 178 |
| TOT PCT | 11.6 | 49.7 | 35.7 | 2.9 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.9 | 14.9 | 3.7 | .1 | .0 | | 25.5 | 10.6 | 23.4 | 24.9 | 26.5 | 27.2 |
| NE | 2.0 | 1.9 | .3 | * | .0 | | 4.3 | 8.5 | 2.9 | 3.7 | 5.9 | 4.7 |
| E | 1.2 | .7 | .1 | * | .0 | | 2.0 | 7.0 | 1.2 | 1.8 | 2.4 | 2.6 |
| SE | 1.2 | 1.1 | .2 | .0 | .0 | | 2.5 | 8.7 | 1.8 | 2.4 | 2.6 | 3.0 |
| S | 1.3 | .8 | .1 | .0 | .0 | | 2.2 | 7.3 | 3.0 | 2.3 | 1.5 | 2.0 |
| SW | 1.2 | 1.1 | .1 | .0 | .0 | | 2.4 | 7.5 | 2.6 | 2.2 | 2.4 | 2.4 |
| W | 3.6 | 3.8 | .5 | .1 | .0 | | 8.0 | 8.6 | 8.1 | 7.3 | 8.4 | 8.0 |
| NW | 11.4 | 29.8 | 8.1 | .2 | .0 | | 49.5 | 11.2 | 54.2 | 51.4 | 47.1 | 45.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.6 | | | | | | 3.6 | .0 | 2.8 | 4.0 | 3.3 | 4.3 |
| TOT OBS | 1477 | 2473 | 605 | 23 | 0 | 4578 | | 10.0 | 1224 | 985 | 1100 | 1269 |
| TOT PCT | 32.3 | 54.0 | 13.2 | .5 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.8 | 8.5 | 48.7 | 36.4 | 3.4 | .2 | .0 | 10.3 | 100.0 | 1224 |
| 06&09 | 4.0 | 6.6 | 48.9 | 37.3 | 3.2 | .0 | .0 | 10.2 | 100.0 | 985 |
| 12&15 | 3.3 | 8.7 | 50.2 | 35.1 | 2.6 | .1 | .0 | 9.8 | 100.0 | 1100 |
| 18&21 | 4.3 | 8.1 | 50.8 | 34.3 | 2.3 | .2 | .0 | 9.7 | 100.0 | 1269 |
| TOT | 164 | 368 | 2275 | 1634 | 132 | 5 | 0 | 10.0 | | 4578 |
| PCT | 3.6 | 8.0 | 49.7 | 35.7 | 2.9 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 12.7 | 3.7 | 6.0 | 2.8 | | 3.1 |
| NE | 2.6 | .4 | .5 | .3 | | 2.1 |
| E | 1.1 | .2 | .6 | .2 | | 3.1 |
| SE | 1.0 | .3 | .8 | .7 | | 4.5 |
| S | .5 | .3 | .9 | .9 | | 5.5 |
| SW | .8 | .4 | .6 | .6 | | 4.4 |
| W | 2.8 | 1.4 | 2.2 | 1.3 | | 3.9 |
| NW | 19.1 | 8.8 | 14.3 | 7.6 | | 3.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.8 | .4 | .7 | .6 | | 3.2 |
| TOT OBS | 1346 | 509 | 845 | 476 | 3176 | 3.6 |
| TOT PCT | 42.4 | 16.0 | 26.6 | 15.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .3 | 1.1 | 3.0 | 1.0 | .3 | .2 | .0 | * | 18.9 | |
| NE | * | * | * | .1 | .2 | .2 | .0 | .0 | .0 | * | 3.1 | |
| E | .0 | .0 | .0 | .2 | .4 | * | .0 | * | .0 | .0 | 1.6 | |
| SE | * | .0 | * | .2 | .6 | .2 | .1 | .0 | * | * | 1.7 | |
| S | .0 | .0 | .1 | .2 | .8 | .1 | .1 | .0 | .0 | * | 1.3 | |
| SW | .0 | * | .1 | .2 | .5 | .2 | .1 | .0 | * | .0 | 1.4 | |
| W | * | * | .1 | .6 | 1.0 | .5 | .3 | * | .1 | .0 | 5.1 | |
| NW | .5 | .2 | .7 | 3.8 | 6.9 | 2.9 | 1.2 | .2 | .2 | .2 | 33.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .0 | .1 | .4 | .2 | .0 | * | * | .0 | 2.6 | |
| TOT OBS | 33 | 9 | 43 | 207 | 438 | 161 | 63 | 16 | 11 | 10 | 2185 | 3176 |
| TOT PCT | 1.0 | .3 | 1.4 | 6.5 | 13.8 | 5.1 | 2.0 | .5 | .3 | .3 | 68.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .7 | .7 | .7 | .7 | .7 | .7 | .7 |
| * OR >5000 | 1.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >3500 | 2.5 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| * OR >2000 | 6.8 | 7.9 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| * OR >1000 | 18.0 | 21.5 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 |
| * OR >600 | 23.2 | 27.8 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| * OR >300 | 23.9 | 29.2 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| * OR >150 | 24.1 | 29.4 | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 |
| * OR > 0 | 24.2 | 29.8 | 30.7 | 30.7 | 30.8 | 30.8 | 31.0 | 31.2 |
| TOTAL | 773 | 949 | 979 | 980 | 981 | 982 | 990 | 995 |

TOTAL NUMBER OF OBS: 3189

PCT FREQ NH <5/8: 68.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 29.4 | 10.8 | 10.9 | 9.9 | 7.1 | 5.9 | 7.0 | 7.5 | 10.8 | .8 | 3353 |

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | * | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .2 | 2.8 | .2 | 4.5 | | .2 | 91.7 |
| NE | .6 | .0 | .6 | .0 | .0 | .0 | .0 | 1.1 | .7 | .6 | 3.3 | .0 | 3.4 | | .1 | 90.8 |
| E | .9 | 1.2 | 1.2 | .0 | .0 | .0 | .0 | 3.2 | 2.1 | .0 | 2.3 | 1.2 | 2.6 | | .9 | 87.7 |
| SE | 2.4 | 1.9 | 1.4 | .0 | .0 | .0 | .0 | 5.7 | 3.1 | .0 | 3.3 | .9 | .9 | | .0 | 86.0 |
| S | 1.8 | .0 | 0.5 | .0 | .0 | .0 | .0 | 7.3 | 4.7 | .0 | 2.3 | .0 | 2.1 | | .0 | 83.6 |
| SW | 1.0 | 1.2 | 1.5 | .0 | .0 | .0 | .0 | 3.6 | 2.4 | 1.2 | 8.3 | .0 | 2.2 | | .0 | 82.2 |
| W | .4 | .8 | .4 | .0 | .0 | .0 | .0 | 1.7 | 1.0 | .5 | 4.6 | .3 | 2.6 | | .0 | 89.2 |
| NW | .5 | .2 | .4 | .0 | .0 | .0 | .0 | 1.1 | .9 | .1 | 2.8 | .3 | 3.6 | | * | 91.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | 10.4 | .0 | 4.4 | | .0 | 84.4 |
| TOT PCT | .5 | .3 | .5 | .0 | .0 | .0 | .0 | 1.2 | 1.0 | .2 | 3.3 | .2 | 3.6 | | .1 | 90.4 |
| TOT OBS: | 4103 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .5 | .5 | .0 | .0 | .0 | .0 | 1.2 | 1.1 | .1 | 3.6 | .4 | 4.3 | | .2 | 89.1 |
| 06&09 | .3 | .0 | .5 | .0 | .0 | .0 | .0 | .9 | 1.2 | .4 | 2.9 | .3 | 3.6 | | .0 | 90.7 |
| 12&15 | .6 | .3 | .6 | .0 | .0 | .0 | .0 | 1.5 | .5 | .3 | 3.3 | .2 | 2.8 | | .0 | 91.4 |
| 18&21 | .7 | .5 | .3 | .0 | .0 | .0 | .0 | 1.4 | 1.1 | .1 | 4.3 | .1 | 3.4 | | .1 | 89.6 |
| TOT PCT | .5 | .3 | .5 | .0 | .0 | .0 | .0 | 1.3 | 1.0 | .2 | 3.6 | .2 | 3.6 | | .1 | 90.1 |
| TOT OBS: | 4165 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.1 | 12.6 | 10.0 | .8 | * | .0 | | 25.5 | 10.6 | 22.7 | 30.1 | 26.0 | 20.3 | 25.3 | 32.0 | 26.5 | 31.5 |
| NE | .7 | 2.5 | 1.0 | .1 | .0 | .0 | | 4.3 | 8.5 | 2.5 | 5.9 | 3.5 | 4.4 | 5.6 | 7.2 | 4.6 | 5.5 |
| E | .6 | 1.1 | .3 | * | .0 | .0 | | 2.0 | 7.0 | 1.2 | 1.2 | 1.8 | 1.7 | 2.5 | 1.8 | 2.7 | 2.0 |
| SE | .4 | 1.4 | .7 | * | .0 | .0 | | 2.5 | 8.7 | 2.0 | .4 | 2.5 | 1.9 | 2.6 | 2.7 | 3.1 | 2.7 |
| S | .4 | 1.3 | .5 | .0 | .0 | .0 | | 2.2 | 7.3 | 3.2 | .8 | 2.2 | 2.4 | 1.6 | 1.0 | 2.1 | 1.5 |
| SW | .5 | 1.5 | .5 | * | .0 | .0 | | 2.4 | 7.5 | 2.6 | 3.0 | 2.1 | 2.7 | 2.5 | 1.9 | 2.5 | 1.7 |
| W | 1.0 | 5.1 | 1.8 | .1 | * | .0 | | 8.0 | 8.6 | 8.1 | 7.7 | 6.8 | 9.6 | 8.0 | 9.8 | 8.0 | 7.9 |
| NW | 2.4 | 24.4 | 21.0 | 1.7 | .1 | .0 | | 49.5 | 11.2 | 55.2 | 45.5 | 51.3 | 52.3 | 48.4 | 41.1 | 45.9 | 44.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.6 | | | | | | | 3.6 | .0 | 2.5 | 5.5 | 3.8 | 4.8 | 3.5 | 2.4 | 4.5 | 3.4 |
| TOT OBS | 532 | 2275 | 1634 | 132 | 5 | 0 | 4578 | | 10.0 | 1097 | 127 | 797 | 188 | 894 | 206 | 1091 | 178 |
| TOT PCT | 11.6 | 49.7 | 35.7 | 2.9 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.9 | 14.9 | 3.7 | .1 | .0 | | 25.5 | 10.6 | 23.4 | 24.9 | 26.5 | 27.2 |
| NE | 2.0 | 1.9 | .3 | * | .0 | | 4.3 | 8.5 | 2.9 | 3.7 | 5.9 | 4.7 |
| E | 1.2 | .7 | .1 | * | .0 | | 2.0 | 7.0 | 1.2 | 1.8 | 2.4 | 2.6 |
| SE | 1.2 | 1.1 | .2 | .0 | .0 | | 2.5 | 8.7 | 1.8 | 2.4 | 2.6 | 3.0 |
| S | 1.3 | .8 | .1 | .0 | .0 | | 2.2 | 7.3 | 3.0 | 2.3 | 1.5 | 2.0 |
| SW | 1.2 | 1.1 | .1 | .0 | .0 | | 2.4 | 7.5 | 2.6 | 2.2 | 2.4 | 2.4 |
| W | 3.6 | 3.8 | .5 | .1 | .0 | | 8.0 | 8.6 | 8.1 | 7.3 | 8.4 | 8.0 |
| NW | 11.4 | 29.8 | 8.1 | .2 | .0 | | 49.5 | 11.2 | 54.2 | 51.4 | 47.1 | 45.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.6 | | | | | | 3.6 | .0 | 2.8 | 4.0 | 3.3 | 4.3 |
| TOT OBS | 1477 | 2473 | 605 | 23 | 0 | 4578 | | 10.0 | 1224 | 985 | 1100 | 1269 |
| TOT PCT | 32.3 | 54.0 | 13.2 | .5 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | * | * | * | .0 | * | .1 | .3 | .0 | .1 | .8 | |
| | TOT % | .1 | * | * | * | .0 | * | .1 | .3 | .0 | .1 | .8 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| | TOT % | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | * | * | .0 | .0 | .0 | * | * | * | .0 | * | .2 | |
| | TOT % | * | * | .0 | .0 | .0 | * | * | * | .0 | * | .2 | |
| 2<5 | PCP | * | .0 | .0 | * | .1 | .0 | * | .1 | .0 | .0 | .2 | |
| | NO PCP | .4 | * | .1 | * | .1 | * | * | 1.0 | .0 | * | 1.8 | |
| | TOT % | .5 | * | .1 | * | .1 | * | .1 | 1.1 | .0 | * | 2.0 | |
| 5<10 | PCP | * | * | * | .1 | * | * | .1 | .2 | .0 | .0 | .5 | |
| | NO PCP | 4.0 | .7 | .2 | .2 | .4 | .4 | 1.4 | 8.2 | .0 | .4 | 16.0 | |
| | TOT % | 4.0 | .7 | .3 | .3 | .4 | .5 | 1.5 | 8.4 | .0 | .4 | 16.5 | |
| 10+ | PCP | .0 | * | * | .1 | .1 | * | .1 | .2 | .0 | .0 | .6 | |
| | NO PCP | 20.6 | 3.4 | 1.7 | 2.2 | 1.7 | 1.9 | 6.4 | 39.4 | .0 | 2.6 | 79.9 | |
| | TOT % | 20.6 | 3.4 | 1.7 | 2.2 | 1.8 | 1.9 | 6.4 | 39.7 | .0 | 2.6 | 80.5 | |
| | TOT OBS | | | | | | | | | | | | 4090 |
| | TOT PCT | 25.3 | 4.3 | 2.1 | 2.6 | 2.4 | 2.5 | 8.1 | 49.5 | .0 | 3.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | * | * | .0 | .0 | .0 | * | .0 | .0 | .2 | .2 | |
| | 4-10 | .1 | * | .0 | * | .0 | * | * | .3 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | * | * | .0 | * | .1 | .3 | .0 | .2 | .8 | |
| 1/2<1 | 0-3 | * | .0 | * | * | .0 | .0 | .0 | .0 | .0 | * | .1 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | * | * | .0 | .0 | * | .1 | .0 | * | .2 | |
| 1<2 | 0-3 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | |
| | 4-10 | * | * | .0 | .0 | .0 | * | * | .1 | .0 | | .2 | |
| | 11-21 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | * | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .1 | .0 | .0 | .0 | * | * | .1 | .0 | * | .3 | |
| 2<5 | 0-3 | .1 | * | .1 | * | * | .0 | * | * | .0 | * | .3 | |
| | 4-10 | .3 | * | .0 | * | .1 | * | .0 | .7 | .0 | | 1.1 | |
| | 11-21 | .2 | .0 | .0 | * | * | .0 | * | .4 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | * | .0 | .1 | .0 | | .1 | |
| | TOT % | .5 | * | .1 | .1 | .1 | * | .1 | 1.2 | .0 | * | 2.1 | |
| 5<10 | 0-3 | .4 | .1 | .1 | .1 | .1 | .2 | .3 | .6 | .0 | .4 | 2.3 | |
| | 4-10 | 1.6 | .3 | .1 | .1 | .2 | .1 | .8 | 3.9 | .0 | | 7.2 | |
| | 11-21 | 1.7 | .2 | .1 | .1 | .1 | .1 | .3 | 3.4 | .0 | | 5.9 | |
| | 22+ | .1 | * | .0 | * | .0 | .0 | .1 | .2 | .0 | | .4 | |
| | TOT % | 3.9 | .7 | .2 | .3 | .4 | .4 | 1.4 | 8.1 | .0 | .4 | 15.9 | |
| 10+ | 0-3 | 1.4 | .5 | .4 | .2 | .3 | .2 | .7 | 1.7 | .0 | 2.9 | 8.4 | |
| | 4-10 | 10.4 | 2.1 | 1.0 | 1.2 | 1.1 | 1.3 | 4.1 | 19.0 | .0 | | 40.2 | |
| | 11-21 | 8.3 | .8 | .3 | .6 | .4 | .4 | 1.5 | 17.3 | .0 | | 29.6 | |
| | 22+ | .7 | .1 | * | * | .0 | .0 | .1 | 1.5 | .0 | | 2.5 | |
| | TOT % | 20.8 | 3.4 | 1.7 | 2.1 | 1.8 | 2.0 | 6.4 | 39.5 | .0 | 2.9 | 80.7 | |
| | TOT OBS | | | | | | | | | | | | 4372 |
| | TOT PCT | 25.5 | 4.3 | 2.0 | 2.5 | 2.3 | 2.5 | 8.0 | 49.3 | .0 | 3.6 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | .2 | 1.1 | 5.8 | 12.4 | 4.7 | 2.3 | .6 | .6 | .4 | 29.1 | 70.9 | 908 |
| 06&09 | 1.0 | .1 | 2.4 | 4.8 | 13.5 | 3.7 | 1.6 | .3 | .0 | .6 | 28.0 | 72.0 | 704 |
| 12&15 | .8 | .3 | 1.4 | 7.0 | 15.2 | 4.6 | 1.8 | .3 | .3 | .1 | 31.8 | 68.2 | 717 |
| 18&21 | 1.5 | .4 | .7 | 7.5 | 13.0 | 6.4 | 1.9 | .7 | .4 | .2 | 32.8 | 67.2 | 954 |
| TOT | 35 | 9 | 44 | 209 | 441 | 163 | 63 | 16 | 11 | 11 | 1002 | 2281 | 3283 |
| PCT | 1.1 | .3 | 1.3 | 6.4 | 13.4 | 5.0 | 1.9 | .5 | .3 | .3 | 30.5 | 69.5 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .8 | .1 | .2 | 2.6 | 16.8 | 79.6 | 1167 |
| 06&09 | .4 | .2 | .3 | 2.3 | 16.1 | 80.7 | 969 |
| 12&15 | 1.0 | .3 | .4 | 1.9 | 17.3 | 79.2 | 1060 |
| 18&21 | 1.2 | .2 | .3 | 2.0 | 14.4 | 81.9 | 1239 |
| TOT | 39 | 8 | 13 | 97 | 713 | 3565 | 4435 |
| PCT | .9 | .2 | .3 | 2.2 | 16.1 | 80.4 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .8 | 2.6 | 10.7 | 21.2 | 68.1 | 878 |
| 06&09 | 1.0 | 3.7 | 10.1 | 19.9 | 70.0 | 683 |
| 12&15 | .9 | 2.7 | 11.2 | 22.3 | 66.5 | 696 |
| 18&21 | 1.5 | 3.1 | 12.2 | 22.3 | 65.5 | 932 |
| TOT | 34 | 96 | 355 | 685 | 2149 | 3189 |
| PCT | 1.1 | 3.0 | 11.1 | 21.5 | 67.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | * | .1 | .1 | * | .0 | .0 | 9 | .3 |
| 75/79 | .0 | .1 | .1 | .2 | .2 | .4 | .1 | .0 | 36 | 1.1 |
| 70/74 | * | .0 | .2 | .6 | 1.5 | 2.4 | 1.6 | .7 | 225 | 6.9 |
| 65/69 | .0 | .1 | .4 | 2.2 | 4.8 | 10.6 | 14.5 | 7.2 | 1288 | 39.7 |
| 60/64 | .0 | * | .3 | 1.6 | 7.1 | 11.8 | 16.8 | 8.7 | 1505 | 46.4 |
| 55/59 | .0 | * | .1 | .3 | .7 | 1.7 | 1.5 | .9 | 170 | 5.2 |
| 50/54 | .0 | .0 | * | .1 | .1 | * | * | * | 8 | .2 |
| TOTAL | 1 | 7 | 38 | 164 | 471 | 873 | 1119 | 568 | 3241 | 100.0 |
| PCT | * | .2 | 1.2 | 5.1 | 14.5 | 26.9 | 34.5 | 17.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 |
| .3 | * | .0 | * | * | * | .1 | .5 | .0 | .1 |
| 2.0 | .3 | .1 | .1 | .2 | .3 | .7 | 2.8 | .0 | .5 |
| 9.9 | 1.8 | 1.2 | 1.5 | 1.5 | 1.2 | 2.7 | 18.8 | .0 | 1.2 |
| 12.0 | 1.7 | .8 | .9 | .6 | .8 | 3.7 | 24.1 | .0 | 1.8 |
| 1.3 | .2 | .1 | .2 | .1 | .1 | .5 | 2.8 | .0 | .1 |
| .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 |
| 25.6 | 4.0 | 2.2 | 2.7 | 2.5 | 2.4 | 7.6 | 49.3 | .0 | 3.7 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 84 | 78 | 73 | 65 | 60 | 57 | 51 | 65.7 | 1230 |
| 06&09 | 78 | 70 | 68 | 63 | 59 | 55 | 50 | 63.3 | 998 |
| 12&15 | 75 | 70 | 68 | 63 | 58 | 55 | 51 | 62.9 | 1116 |
| 18&21 | 80 | 75 | 72 | 66 | 60 | 57 | 54 | 65.7 | 1273 |
| TOT | 84 | 75 | 71 | 64 | 59 | 56 | 50 | 64.5 | 4617 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 7.4 | 16.4 | 27.4 | 35.7 | 13.0 | 77 | 870 |
| 06&09 | .0 | 3.9 | 10.0 | 24.1 | 38.6 | 23.4 | 81 | 713 |
| 12&15 | .0 | 4.6 | 13.0 | 23.8 | 36.2 | 22.5 | 80 | 769 |
| 18&21 | .0 | 8.9 | 17.2 | 31.3 | 29.4 | 13.1 | 76 | 928 |
| TOT | 1 | 210 | 474 | 883 | 1137 | 575 | 78 | 3280 |

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

TABLE 17

AREA 0030 BAJA
29.3N 116.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | 4 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .1 | .1 | * | .2 | .2 | .0 | 22 | .1 | .5 |
| 9/10 | .0 | .0 | .0 | .0 | .1 | .1 | .3 | .1 | .0 | 25 | * | .6 |
| 7/8 | .0 | .0 | * | .2 | .2 | .8 | .3 | .1 | .0 | 63 | .1 | 1.6 |
| 6 | .0 | .0 | .1 | * | .2 | .4 | .3 | * | .0 | 36 | .1 | .9 |
| 5 | .0 | .0 | * | .1 | .7 | 1.0 | .3 | * | .0 | 80 | .1 | 2.1 |
| 4 | .0 | .0 | * | .5 | 2.0 | 1.3 | .1 | * | .0 | 146 | .1 | 3.8 |
| 3 | .0 | .0 | .0 | .6 | 2.5 | 1.3 | .1 | .0 | .0 | 172 | .2 | 4.3 |
| 2 | .0 | * | .2 | 1.8 | 4.0 | 1.2 | .1 | .0 | .0 | 274 | .4 | 6.9 |
| 1 | .0 | * | .1 | 2.4 | 4.4 | 1.0 | .1 | .0 | .0 | 302 | .2 | 7.7 |
| 0 | .0 | * | .5 | 5.7 | 6.1 | .7 | .1 | * | .0 | 500 | .5 | 12.7 |
| -1 | .0 | .0 | .8 | 5.3 | 4.5 | .5 | * | .0 | .0 | 422 | .4 | 10.8 |
| -2 | .0 | * | 1.4 | 7.5 | 3.9 | .3 | .0 | .0 | .0 | 499 | .5 | 12.7 |
| -3 | .0 | .1 | 1.5 | 5.5 | 2.0 | .1 | .0 | .0 | .0 | 349 | .2 | 9.0 |
| -4 | * | .2 | 2.4 | 5.6 | 1.7 | .1 | * | .0 | .0 | 378 | .4 | 9.6 |
| -5 | .0 | .1 | 1.6 | 3.0 | .9 | .2 | .0 | .0 | .0 | 218 | .1 | 5.6 |
| -6 | .0 | .1 | 1.1 | 1.5 | .6 | .0 | .0 | .0 | .0 | 124 | .1 | 3.2 |
| -7/-8 | .0 | .1 | .9 | 1.4 | .6 | .1 | .0 | .0 | .0 | 118 | .1 | 3.1 |
| -9/-10 | .0 | .1 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | 29 | .0 | .8 |
| -11/-13 | .1 | .1 | .1 | .1 | .1 | * | .0 | .0 | .0 | 15 | * | .4 |
| -14/-16 | .0 | * | .0 | .1 | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| TOTAL | 3 | 29 | 415 | 1578 | 1314 | 342 | 73 | 26 | 2 | 3782 | 130 | 3652 |
| PCT | .1 | .8 | 11.0 | 41.7 | 34.7 | 9.0 | 1.9 | .7 | .1 | 100.0 | 3.4 | 96.6 |

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.4 | .1 | .0 | .0 | .0 | 2.0 |
| 1-2 | .5 | 5.0 | 2.6 | .0 | .0 | .0 | 8.0 |
| 3-4 | .2 | 2.9 | 4.8 | .1 | .0 | .0 | 8.0 |
| 5-6 | .0 | .4 | 3.6 | .4 | .0 | .0 | 4.4 |
| 7 | .0 | .2 | 1.0 | .4 | .0 | .0 | 1.7 |
| 8-9 | .0 | .1 | .3 | .2 | .0 | .0 | .5 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 10.0 | 12.4 | 1.3 | .0 | .0 | 24.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | * | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .2 | 1.7 | .1 | .0 | .0 | .0 | 1.9 |
| 3-4 | .2 | .6 | .5 | .0 | .0 | .0 | 1.3 |
| 5-6 | .0 | .3 | .4 | .1 | .0 | .0 | .8 |
| 7 | .0 | .0 | .0 | * | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.3 | 1.0 | .1 | .0 | .0 | 4.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | 1.0 | .2 | .0 | .0 | .0 | 1.4 |
| 3-4 | .1 | .4 | .2 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.7 | .9 | .0 | .0 | .0 | 2.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .2 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .8 | .0 | .0 | .0 | .0 | .9 |
| 3-4 | * | .4 | 1.4 | .1 | .0 | .0 | 1.9 |
| 5-6 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.4 | 1.8 | .2 | .0 | .0 | 3.8 |

PERIOD: (OVER-ALL) 1963-1973 NOVEMBER AREA 0030 BAJA

TABLE 18 (CONT) 29.3N 116.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | 1.1 | .2 | .0 | .0 | .0 | 1.4 |
| 3-4 | .0 | .3 | .7 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.7 | 1.2 | .0 | .0 | .0 | 3.1 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | .8 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | * | .4 | .1 | .0 | .0 | .6 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.5 | .8 | .1 | .0 | .0 | 2.4 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .1 | 2.3 | .3 | .0 | .0 | .0 | 2.7 |
| 3-4 | .0 | .9 | .5 | .0 | .0 | .0 | 1.4 |
| 5-6 | .0 | .1 | .8 | .0 | .0 | .0 | .8 |
| 7 | .0 | .1 | .2 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .2 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 4.2 | 2.0 | .3 | .0 | .0 | 6.7 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.7 | .2 | .0 | .0 | .0 | 2.2 | |
| 1-2 | .6 | 10.5 | 4.5 | .0 | .0 | .0 | 15.6 | |
| 3-4 | .0 | 6.9 | 10.2 | .6 | .0 | .0 | 17.7 | |
| 5-6 | .0 | 1.1 | 6.3 | .8 | .0 | .0 | 8.1 | |
| 7 | .1 | .6 | 3.1 | .3 | .0 | .0 | 4.1 | |
| 8-9 | .0 | .1 | .5 | .3 | .0 | .0 | .9 | |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 12 | .0 | .1 | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 20.9 | 25.0 | 2.3 | .1 | .0 | 49.3 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.2 | 5.5 | .2 | .0 | .0 | .0 | 11.0 | |
| 1-2 | 1.7 | 23.2 | 8.1 | .0 | .0 | .0 | 33.0 | |
| 3-4 | .6 | 12.3 | 18.6 | .9 | .0 | .0 | 32.3 | |
| 5-6 | .0 | 1.8 | 11.9 | 1.2 | .0 | .0 | 14.9 | |
| 7 | .1 | .9 | 4.4 | .8 | .0 | .0 | 6.1 | |
| 8-9 | .0 | .2 | 1.0 | .6 | .0 | .0 | 1.8 | |
| 10-11 | .0 | .0 | .0 | .5 | .0 | .0 | .5 | |
| 12 | .0 | .1 | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.6 | 43.9 | 44.3 | 4.1 | .1 | .0 | 100.0 | 1238 |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 4.8 | 16.0 | 16.0 | 7.0 | 2.4 | .5 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1308 | 3 |
| 6-7 | .2 | 2.2 | 8.0 | 8.2 | 3.6 | 1.6 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 672 | 5 |
| 8-9 | .0 | .8 | 3.0 | 3.1 | 2.2 | 1.7 | .5 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 325 | 6 |
| 10-11 | .0 | .9 | 1.0 | 1.3 | .9 | .8 | .4 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 156 | 6 |
| 12-13 | .0 | .0 | .5 | .4 | .3 | .1 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 48 | 6 |
| >13 | .0 | .0 | .0 | .2 | .1 | * | .2 | * | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 20 | 9 |
| INDET | 4.5 | 1.2 | 1.5 | 1.3 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 247 | 2 |
| TOTAL | 263 | 586 | 833 | 595 | 273 | 135 | 46 | 22 | 18 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2777 | 4 |
| PCT | 9.5 | 21.1 | 30.0 | 21.4 | 9.8 | 4.9 | 1.7 | .8 | .6 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | * | .3 | .3 | .0 | .0 | .0 | .0 | .6 | .3 | .1 | 3.0 | .3 | 4.0 | | .0 | 91.8 |
| NE | .8 | .1 | .6 | .0 | .0 | .0 | .0 | 1.4 | .6 | .0 | 1.1 | .0 | 3.4 | | .0 | 93.6 |
| E | 1.3 | .0 | 2.3 | .0 | .0 | .0 | .0 | 3.1 | 3.8 | .0 | .8 | .0 | 2.0 | | .0 | 90.3 |
| SE | 1.9 | 1.7 | 5.8 | .0 | .0 | .0 | .0 | 9.1 | 3.0 | .0 | 3.6 | .0 | 1.7 | | .0 | 82.6 |
| S | 4.5 | .5 | 3.5 | .0 | .0 | .0 | .0 | 7.8 | 3.3 | .0 | 1.6 | .0 | 2.1 | | .0 | 85.2 |
| SW | 2.5 | 4.9 | 2.2 | .0 | .0 | .0 | .0 | 9.1 | 2.5 | .3 | 2.7 | .0 | 1.4 | | .0 | 84.1 |
| W | 1.5 | 2.6 | 2.1 | .0 | .0 | .0 | .0 | 5.3 | 3.7 | .3 | 2.8 | .5 | 2.5 | | .0 | 84.9 |
| NW | .3 | .2 | .3 | .0 | .0 | .0 | .0 | .7 | 1.2 | .1 | 3.2 | .4 | 3.4 | | .1 | 90.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .7 | .0 | 1.3 | .0 | .0 | .0 | .0 | 2.0 | .7 | .0 | 9.2 | 2.6 | 4.6 | | .7 | 80.4 |
| TOT PCT | .6 | .5 | .8 | .0 | .0 | .0 | .0 | 1.8 | 1.3 | .1 | 3.1 | .4 | 3.4 | | .1 | 89.9 |
| TOT OBS: | 3690 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .4 | .7 | .0 | .0 | .0 | .0 | 1.4 | 1.5 | .0 | 2.9 | .1 | 4.9 | | .1 | 89.2 |
| 06&09 | .4 | .5 | 1.0 | .0 | .0 | .0 | .0 | 1.7 | 1.1 | .4 | 2.2 | .5 | 3.3 | | .0 | 90.9 |
| 12&15 | 1.0 | .6 | 1.4 | .0 | .0 | .0 | .0 | 2.7 | 1.3 | .1 | 2.2 | .3 | 2.8 | | .0 | 90.6 |
| 18&21 | .9 | .6 | .5 | .0 | .0 | .0 | .0 | 1.9 | 1.2 | .0 | 4.9 | .5 | 2.7 | | .1 | 88.6 |
| TOT PCT | .7 | .5 | .9 | .0 | .0 | .0 | .0 | 1.9 | 1.3 | .1 | 3.2 | .4 | 3.4 | | .1 | 89.7 |
| TOT OBS: | 3743 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.9 | 13.1 | 12.6 | 1.2 | .1 | .0 | | 29.0 | 11.5 | 27.1 | 22.0 | 30.2 | 22.9 | 28.7 | 37.1 | 30.8 | 26.6 |
| NE | .5 | 3.4 | 2.0 | .4 | * | .0 | | 6.2 | 10.3 | 4.2 | 9.3 | 6.1 | 7.5 | 6.8 | 7.2 | 7.0 | 7.0 |
| E | .5 | 1.4 | .8 | .1 | .0 | .0 | | 2.7 | 9.2 | 1.9 | 1.9 | 2.6 | 2.6 | 2.5 | 3.7 | 3.7 | 3.2 |
| SE | .4 | 1.5 | .8 | .1 | .0 | .0 | | 2.8 | 9.2 | 1.8 | 9.3 | 2.2 | 2.5 | 3.2 | 3.1 | 2.7 | 6.6 |
| S | .6 | 1.7 | .8 | .1 | .0 | .0 | | 3.1 | 8.5 | 3.7 | 6.3 | 2.4 | 4.1 | 2.4 | 2.5 | 3.3 | 3.8 |
| SW | .5 | 1.5 | .8 | .1 | .0 | .0 | | 2.7 | 9.5 | 2.6 | 3.9 | 2.2 | 3.3 | 2.7 | 3.5 | 2.4 | 3.7 |
| W | .5 | 4.1 | 2.3 | .2 | .0 | .0 | | 7.2 | 9.9 | 8.0 | 4.6 | 6.6 | 7.4 | 7.4 | 4.4 | 7.4 | 6.9 |
| NW | 2.1 | 18.8 | 18.1 | 2.3 | .2 | .0 | | 41.6 | 11.9 | 47.1 | 32.6 | 49.5 | 42.0 | 40.8 | 34.2 | 38.3 | 37.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.6 | | | | | | | 4.6 | .0 | 3.5 | 10.2 | 4.2 | 7.8 | 5.4 | 4.3 | 4.4 | 2.9 |
| TOT OBS | 475 | 1877 | 1584 | 185 | 13 | 0 | 4134 | | 10.7 | 966 | 108 | 739 | 153 | 830 | 163 | 1004 | 171 |
| TOT PCT | 11.5 | 45.4 | 38.3 | 4.5 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.2 | 17.6 | 4.9 | .2 | .0 | | 29.0 | 11.5 | 26.6 | 29.0 | 30.1 | 30.1 |
| NE | 2.2 | 3.0 | .9 | .1 | .0 | | 6.2 | 10.3 | 4.7 | 6.3 | 6.9 | 7.0 |
| E | 1.1 | 1.4 | .3 | * | .0 | | 2.7 | 9.2 | 1.9 | 2.6 | 2.7 | 3.6 |
| SE | 1.2 | 1.2 | .3 | * | .0 | | 2.8 | 9.2 | 2.6 | 2.2 | 3.1 | 3.3 |
| S | 1.5 | 1.3 | .3 | .0 | .0 | | 3.1 | 8.5 | 3.9 | 2.7 | 3.4 | 3.4 |
| SW | 1.1 | 1.3 | .2 | * | .0 | | 2.7 | 9.3 | 2.7 | 2.4 | 3.8 | 3.9 |
| W | 2.5 | 3.9 | .7 | .1 | .0 | | 7.2 | 9.9 | 7.7 | 6.7 | 6.9 | 7.3 |
| NW | 8.6 | 24.7 | 7.5 | .7 | .0 | | 41.6 | 11.9 | 43.7 | 43.2 | 39.7 | 38.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.6 | | | | | | 4.6 | .0 | 4.2 | 4.8 | 3.2 | 4.2 |
| TOT OBS | 1204 | 2253 | 625 | 52 | 0 | 4134 | | 10.7 | 1074 | 892 | 993 | 1173 |
| TOT PCT | 29.1 | 54.5 | 15.1 | 1.3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.2 | 8.1 | 42.5 | 40.1 | 4.7 | .4 | .0 | 10.9 | 100.0 | 1074 |
| 06&09 | 4.8 | 4.8 | 43.5 | 40.8 | 5.9 | .1 | .0 | 10.7 | 100.0 | 892 |
| 12&15 | 3.2 | 6.5 | 47.1 | 36.9 | 5.9 | .3 | .0 | 10.3 | 100.0 | 993 |
| 18&21 | 4.2 | 7.7 | 46.6 | 36.0 | 5.1 | .4 | .0 | 10.7 | 100.0 | 1175 |
| TOT | 189 | 286 | 1877 | 1584 | 183 | 13 | 0 | 10.7 | | 4134 |
| PCT | 4.6 | 6.9 | 45.4 | 38.3 | 4.5 | .3 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 15.1 | 4.9 | 6.5 | 3.6 | | 3.1 |
| NE | 4.3 | .5 | .9 | .5 | | 2.0 |
| E | 1.3 | .2 | .4 | .7 | | 3.6 |
| SE | .5 | .4 | .6 | .6 | | 4.9 |
| S | .8 | .3 | .7 | .9 | | 4.9 |
| SW | .4 | .3 | .7 | .9 | | 5.6 |
| W | 1.6 | .9 | 2.8 | 1.9 | | 5.1 |
| NW | 17.1 | 7.0 | 12.3 | 8.2 | | 3.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.0 | .5 | 1.0 | .7 | | 3.3 |
| TOT OBS | 1283 | 444 | 773 | 472 | 2972 | 3.6 |
| TOT PCT | 43.2 | 14.9 | 26.0 | 15.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .4 | * | .3 | 1.7 | 2.3 | 1.4 | .6 | .2 | .1 | .1 | 22.9 | |
| NE | .1 | .0 | * | .1 | .3 | .2 | .1 | * | * | .1 | 5.2 | |
| E | * | .0 | .1 | .1 | .4 | .1 | .1 | * | * | .0 | 1.8 | |
| SE | * | .0 | .1 | .2 | .4 | .2 | * | .0 | * | .0 | 1.1 | |
| S | .1 | .0 | .1 | .3 | .3 | .2 | .1 | .0 | .0 | .0 | 1.6 | |
| SW | * | * | .1 | .3 | .3 | .2 | .1 | * | .0 | * | 1.1 | |
| W | .2 | .0 | .1 | .6 | 1.4 | 1.1 | .3 | .1 | * | .1 | 5.5 | |
| NW | .5 | .1 | .6 | 2.9 | 4.9 | 3.2 | 1.2 | .2 | .1 | .1 | 28.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .1 | .2 | .2 | .2 | .1 | .0 | .0 | .1 | 3.1 | |
| TOT OBS | 43 | 6 | 41 | 192 | 320 | 203 | 79 | 18 | 9 | 15 | 2080 | 2972 |
| TOT PCT | 1.4 | .2 | 1.4 | 6.5 | 10.8 | 6.8 | 2.5 | .6 | .3 | .5 | 69.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| * OR >5000 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >3500 | 3.5 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| * OR >2000 | 9.1 | 10.7 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| * OR >1000 | 18.2 | 21.1 | 21.4 | 21.4 | 21.4 | 21.4 | 21.5 | 21.5 |
| * OR >600 | 23.0 | 27.1 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 |
| * OR >300 | 23.8 | 28.4 | 29.1 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 |
| * OR >150 | 23.9 | 28.5 | 29.3 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 |
| * OR > 0 | 24.3 | 29.1 | 29.9 | 30.0 | 30.2 | 30.2 | 30.5 | 30.8 |
| TOTAL | 730 | 875 | 900 | 904 | 908 | 909 | 919 | 928 |

TOTAL NUMBER OF OBS: 3009

PCT FREQ NH <5/8: 69.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 30.8 | 10.3 | 11.1 | 9.2 | 7.0 | 5.3 | 7.4 | 7.8 | 9.9 | 1.2 | 3148 |

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PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

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29.4N 116.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .2 | * | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .2 | .7 | |
| | TOT % | .2 | * | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .2 | .7 | |
| 1/2<1 | PCP | .0 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| | TOT % | .1 | .0 | .0 | * | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| 1<2 | PCP | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .1 | |
| | NO PCP | .0 | .0 | * | .0 | .0 | .0 | .0 | .1 | .0 | * | .1 | |
| | TOT % | .0 | .0 | * | * | * | .0 | .0 | .1 | .0 | * | .2 | |
| 2<5 | PCP | .0 | .0 | * | * | * | * | * | .0 | .0 | .1 | .2 | |
| | NO PCP | .7 | .1 | * | .1 | * | .1 | .1 | .7 | .0 | .2 | 1.9 | |
| | TOT % | .7 | .1 | .1 | .1 | .1 | .1 | .1 | .7 | .0 | .2 | 2.1 | |
| 5<10 | PCP | .1 | .1 | * | * | .1 | .1 | .2 | .1 | .0 | .0 | .6 | |
| | NO PCP | 9.4 | .3 | .2 | .3 | .5 | .3 | .8 | 4.5 | .0 | .5 | 10.8 | |
| | TOT % | 9.5 | .3 | .3 | .4 | .6 | .3 | 1.0 | 4.6 | .0 | .5 | 11.4 | |
| 10+ | PCP | .1 | * | * | .1 | .1 | .2 | .2 | .2 | .0 | * | .9 | |
| | NO PCP | 23.2 | 5.3 | 2.3 | 1.8 | 2.1 | 1.9 | 6.0 | 36.6 | .0 | 3.2 | 84.5 | |
| | TOT % | 25.3 | 5.4 | 2.3 | 1.9 | 2.2 | 2.0 | 6.2 | 36.8 | .0 | 3.2 | 85.4 | |
| | TOT OBS | | | | | | | | | | | | 3681 |
| | TOT PCT | 29.7 | 5.8 | 2.7 | 2.5 | 2.9 | 2.4 | 7.4 | 42.5 | .0 | 4.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .2 | .3 | |
| | 4-10 | .1 | * | * | .0 | .0 | .0 | .1 | .2 | .0 | | .4 | |
| | 11-21 | * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | | * | |
| | TOT % | .3 | .1 | * | .0 | .0 | * | .1 | .3 | .0 | .2 | .9 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | * | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | * | .0 | .0 | * | .1 | .0 | .0 | .3 | |
| 1<2 | 0-3 | * | .0 | * | .0 | * | * | * | * | .0 | * | .1 | |
| | 4-10 | * | .0 | .0 | .0 | * | * | .0 | .1 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | * | * | .1 | * | * | .1 | .0 | * | .3 | |
| 2<5 | 0-3 | * | * | * | .1 | * | .0 | .0 | .1 | .0 | .2 | .5 | |
| | 4-10 | .4 | .1 | * | * | * | .1 | .1 | .4 | .0 | | 1.0 | |
| | 11-21 | .2 | .0 | * | * | * | * | * | .2 | .0 | | .6 | |
| | 22+ | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .7 | .1 | .1 | .1 | .1 | .1 | .1 | .7 | .0 | .2 | 2.1 | |
| 5<10 | 0-3 | .2 | * | .1 | .1 | .1 | .1 | .1 | .3 | .0 | .4 | 1.4 | |
| | 4-10 | 1.5 | .2 | .1 | .3 | .2 | .1 | .5 | 2.0 | .0 | | 4.9 | |
| | 11-21 | 1.5 | .1 | .1 | .1 | .2 | .1 | .4 | 1.7 | .0 | | 4.2 | |
| | 22+ | .1 | .0 | .0 | * | * | * | .1 | .5 | .0 | | .7 | |
| | TOT % | 3.4 | .3 | .3 | .5 | .6 | .4 | 1.0 | 4.4 | .0 | .4 | 11.3 | |
| 10+ | 0-3 | 1.5 | .4 | .4 | .2 | .4 | .3 | .4 | 1.7 | .0 | 3.6 | 8.9 | |
| | 4-10 | 11.1 | 3.0 | 1.3 | 1.2 | 1.4 | 1.0 | 3.6 | 16.4 | .0 | | 39.0 | |
| | 11-21 | 11.0 | 1.9 | .7 | .6 | .8 | .7 | 1.9 | 15.9 | .0 | | 33.1 | |
| | 22+ | 1.3 | .4 | .1 | .1 | .1 | .1 | .2 | 2.1 | .0 | | 4.1 | |
| | TOT % | 24.8 | 5.7 | 2.4 | 2.1 | 2.3 | 2.1 | 6.0 | 36.1 | .0 | 3.6 | 85.1 | |
| | TOT OBS | | | | | | | | | | | | 3939 |
| | TOT PCT | 29.2 | 6.1 | 2.8 | 2.7 | 3.0 | 2.6 | 7.2 | 41.7 | .0 | 4.5 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

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29.4N 116.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | .2 | 1.8 | 5.9 | 9.9 | 6.8 | 3.7 | .5 | .2 | .6 | 31.1 | 68.9 | 827 |
| 06&09 | 1.3 | .3 | 1.0 | 4.3 | 8.0 | 6.5 | 1.8 | 1.0 | .0 | 1.2 | 25.4 | 74.6 | 677 |
| 12&15 | .9 | .1 | 1.2 | 7.4 | 11.5 | 6.9 | 1.7 | .3 | .3 | .1 | 30.4 | 69.6 | 693 |
| 18&21 | 1.9 | .1 | 1.3 | 7.1 | 11.9 | 6.6 | 2.6 | .6 | .6 | .1 | 32.8 | 67.2 | 890 |
| TOT | 43 | 6 | 42 | 192 | 322 | 207 | 78 | 18 | 9 | 15 | 932 | 2155 | 3087 |
| PCT | 1.4 | .2 | 1.4 | 6.2 | 10.4 | 6.7 | 2.5 | .6 | .3 | .5 | 30.2 | 69.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .7 | .3 | .5 | 1.9 | 10.6 | 86.0 | 1017 |
| 06&09 | .7 | .0 | .5 | 2.2 | 10.8 | 85.9 | 880 |
| 12&15 | .8 | .2 | .1 | 1.7 | 14.4 | 82.8 | 954 |
| 18&21 | 1.3 | .4 | .3 | 3.1 | 9.9 | 85.0 | 1143 |
| TOT | 36 | 10 | 13 | 90 | 453 | 3392 | 3994 |
| PCT | .9 | .3 | .3 | 2.3 | 11.3 | 84.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.4 | 3.6 | 10.8 | 21.7 | 67.6 | 808 |
| 06&09 | 1.4 | 2.8 | 8.1 | 18.8 | 73.1 | 654 |
| 12&15 | .9 | 2.2 | 10.7 | 20.7 | 68.6 | 681 |
| 18&21 | 2.0 | 3.8 | 12.6 | 22.7 | 64.7 | 866 |
| TOT | 43 | 95 | 322 | 636 | 2051 | 3009 |
| PCT | 1.4 | 3.2 | 10.7 | 21.1 | 68.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | * | * | * | .0 | .0 | 3 | .1 |
| 75/79 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | 6 | .2 |
| 70/74 | .0 | .0 | .1 | .5 | .7 | .6 | .3 | .1 | 69 | 2.3 |
| 65/69 | .0 | .1 | .4 | 1.1 | 2.0 | 4.2 | 5.3 | 2.1 | 461 | 15.1 |
| 60/64 | * | .1 | 1.0 | 3.5 | 9.3 | 16.0 | 19.8 | 7.4 | 1747 | 57.2 |
| 55/59 | .0 | * | .6 | 1.7 | 4.3 | 6.8 | 7.1 | 3.2 | 726 | 23.8 |
| 50/54 | .0 | .0 | * | .1 | .3 | .4 | .2 | .2 | 38 | 1.2 |
| 45/49 | .0 | .0 | .0 | .1 | * | .0 | .0 | * | 4 | .1 |
| TOTAL | 1 | 8 | 65 | 215 | 509 | 860 | 999 | 397 | 3054 | 100.0 |
| PCT | * | .3 | 2.1 | 7.0 | 16.7 | 28.2 | 32.7 | 13.0 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| .7 | .3 | .1 | * | * | .0 | .1 | .9 | .0 | .1 |
| 4.4 | 1.3 | .7 | .6 | .6 | .4 | 1.0 | 5.6 | .0 | .6 |
| 17.5 | 3.1 | 1.3 | 1.1 | 1.5 | 1.4 | 4.1 | 23.0 | .0 | 2.1 |
| 7.1 | 1.2 | .5 | .5 | .5 | .4 | 1.7 | 10.7 | .0 | 1.1 |
| .3 | .1 | .1 | * | * | .1 | .1 | .5 | .0 | .0 |
| .0 | * | .0 | .0 | .0 | .0 | * | * | .0 | * |
| 30.0 | 6.0 | 2.8 | 2.2 | 2.7 | 2.2 | 7.1 | 43.0 | .0 | 4.0 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 73 | 70 | 63 | 57 | 54 | 50 | 62.9 | 1074 |
| 06&09 | 70 | 68 | 66 | 61 | 56 | 53 | 45 | 60.7 | 905 |
| 12&15 | 74 | 68 | 65 | 60 | 55 | 54 | 47 | 60.4 | 1005 |
| 18&21 | 82 | 73 | 70 | 63 | 57 | 55 | 49 | 63.0 | 1184 |
| TOT | 82 | 72 | 68 | 62 | 56 | 54 | 45 | 61.8 | 4168 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 10.2 | 18.8 | 31.8 | 28.0 | 11.2 | 76 | 803 |
| 06&09 | .0 | 6.4 | 16.2 | 25.9 | 34.8 | 16.7 | 79 | 687 |
| 12&15 | .0 | 7.1 | 15.2 | 27.0 | 36.1 | 14.5 | 78 | 736 |
| 18&21 | .1 | 12.9 | 16.5 | 27.3 | 32.4 | 10.8 | 75 | 868 |
| TOT | 1 | 290 | 517 | 869 | 1011 | 406 | 77 | 3094 |

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .1 | * | * | * | .0 | .1 | 7 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | .2 | .1 | .0 | 15 | * | .4 |
| 9/10 | .0 | .0 | .0 | .1 | * | .1 | .1 | .1 | * | .0 | 17 | * | .5 |
| 7/8 | .0 | .0 | * | .1 | .3 | .2 | .4 | .1 | .0 | .0 | 41 | .0 | 1.2 |
| 6 | .0 | .0 | .0 | * | .2 | .4 | .3 | .1 | * | .0 | 35 | * | 1.0 |
| 5 | .0 | .0 | .0 | .1 | .4 | .8 | .4 | .1 | * | .0 | 62 | .1 | 1.7 |
| 4 | .0 | .0 | * | .1 | 1.2 | 1.2 | .6 | .0 | .0 | .0 | 109 | .1 | 3.1 |
| 3 | .0 | .0 | .0 | .1 | 1.0 | 1.5 | .3 | .0 | .0 | .0 | 101 | .1 | 2.8 |
| 2 | .0 | * | .0 | .7 | 2.9 | 1.8 | .4 | * | .0 | .0 | 203 | .1 | 5.8 |
| 1 | .0 | .0 | .1 | .6 | 4.0 | 1.7 | .1 | .0 | .0 | .0 | 227 | .2 | 6.3 |
| 0 | .0 | .0 | .2 | 2.2 | 7.7 | 1.9 | .2 | .0 | .0 | .0 | 426 | .5 | 11.8 |
| -1 | .0 | .0 | .1 | 3.7 | 6.4 | 1.5 | .1 | * | * | .0 | 411 | .4 | 11.5 |
| -2 | .0 | .0 | .4 | 5.7 | 7.0 | 1.2 | .1 | .0 | .0 | .0 | 498 | .3 | 14.0 |
| -3 | .0 | .0 | .4 | 4.8 | 4.6 | .7 | .1 | .0 | .0 | .0 | 371 | .2 | 10.5 |
| -4 | * | .0 | 1.0 | 4.6 | 3.3 | .6 | .1 | .0 | .0 | .0 | 332 | .3 | 9.3 |
| -5 | .0 | * | .7 | 3.1 | 2.4 | .4 | * | .0 | .0 | .0 | 228 | .2 | 6.4 |
| -6 | .0 | .0 | .8 | 2.6 | 1.2 | .1 | * | .0 | .0 | .0 | 161 | .2 | 4.5 |
| -7/-8 | .0 | * | .7 | 2.0 | 1.2 | .2 | * | .0 | .0 | .0 | 144 | .1 | 4.0 |
| -9/-10 | .0 | .1 | .3 | .5 | .3 | * | * | .0 | .0 | .0 | 45 | * | 1.3 |
| -11/-13 | * | .1 | .2 | .3 | * | .0 | .0 | .0 | .0 | .0 | 21 | .0 | .6 |
| -14/-16 | .0 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 10 | .0 | .3 |
| -17/-19 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | .1 |
| TOTAL | 2 | 11 | 177 | 1085 | 1538 | 505 | 119 | 21 | 7 | 2 | 3467 | 101 | 3366 |
| PCT | .1 | .3 | 5.1 | 31.3 | 44.4 | 14.6 | 3.4 | .6 | .2 | .1 | 100.0 | 2.9 | 97.1 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.7 | .0 | .0 | .0 | .0 | 2.1 |
| 1-2 | .2 | 6.1 | 3.3 | .0 | .0 | .0 | 9.6 |
| 3-4 | .1 | 3.0 | 5.6 | .3 | .0 | .0 | 9.0 |
| 5-6 | .1 | 1.0 | 4.2 | .4 | .0 | .0 | 5.6 |
| 7 | .0 | .2 | 2.1 | .3 | .0 | .0 | 2.6 |
| 8-9 | .0 | .2 | .5 | .4 | .0 | .0 | 1.1 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .3 |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 12.1 | 15.9 | 1.6 | .0 | .0 | 30.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | * | 1.9 | .4 | .0 | .0 | .0 | 2.3 |
| 3-4 | .0 | .7 | 1.1 | .0 | .0 | .0 | 1.7 |
| 5-6 | .0 | .2 | .6 | .2 | .1 | .0 | 1.1 |
| 7 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | * | .3 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 3.4 | 2.5 | .3 | .1 | .0 | 6.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .5 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .1 | .1 | .4 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.0 | .7 | .0 | .0 | .0 | 1.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .2 | * | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .0 | * | .0 | .0 | .0 | * |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .4 | .2 | .0 | .0 | .0 | .7 |

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

AREA 0030 BAJA
29.4N 116.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .2 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .5 | .2 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .3 | .1 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.0 | .5 | .0 | .0 | .0 | 1.8 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .6 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .2 | .5 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | * | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.2 | 1.1 | .2 | .0 | .0 | 2.7 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .7 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .0 | 2.1 | .9 | .0 | .0 | .0 | 3.0 |
| 3-4 | .0 | 1.0 | 1.0 | .1 | .0 | .0 | 2.0 |
| 5-6 | .0 | .3 | .9 | .1 | .0 | .0 | 1.2 |
| 7 | .0 | .2 | .3 | .2 | .0 | .0 | .8 |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 4.4 | 3.3 | .3 | .0 | .0 | 8.3 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .8 | 1.8 | .1 | .0 | .0 | .0 | 2.7 | |
| 1-2 | .6 | 9.7 | 4.0 | .0 | .0 | .0 | 14.2 | |
| 3-4 | .0 | 5.3 | 7.0 | .5 | .0 | .0 | 12.7 | |
| 5-6 | .0 | 1.2 | 5.8 | 1.1 | .0 | .0 | 8.1 | |
| 7 | .0 | .1 | 2.0 | .9 | .0 | .0 | 3.0 | |
| 8-9 | .0 | .0 | .8 | 1.3 | .5 | .0 | 2.6 | |
| 10-11 | .0 | .0 | .1 | * | .0 | .0 | .1 | |
| 12 | .0 | .0 | .2 | .2 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.4 | 18.1 | 19.9 | 4.0 | .6 | .0 | 43.9 | 96.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.0 | 5.7 | .1 | .0 | .0 | .0 | 11.7 | |
| 1-2 | 1.3 | 21.8 | 9.0 | .0 | .0 | .0 | 32.1 | |
| 3-4 | .2 | 10.6 | 15.6 | .9 | .0 | .0 | 27.2 | |
| 5-6 | .1 | 2.7 | 12.1 | 1.7 | .1 | .0 | 16.7 | |
| 7 | .0 | .6 | 4.6 | 1.6 | .0 | .0 | 6.7 | |
| 8-9 | .0 | .2 | 1.9 | 1.7 | .5 | .0 | 4.4 | |
| 10-11 | .0 | .0 | .3 | .2 | .0 | .0 | .6 | |
| 12 | .0 | .0 | .2 | .2 | .0 | .0 | .4 | |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.5 | 41.6 | 43.8 | 6.4 | .6 | .0 | 100.0 | 1260 |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 4.4 | 14.6 | 17.3 | 7.5 | 2.6 | .9 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1272 | 3 |
| 6-7 | .2 | 1.9 | 7.6 | 7.1 | 3.4 | 1.8 | .7 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 614 | 5 |
| 8-9 | * | .6 | 2.1 | 2.7 | 2.3 | 2.1 | .9 | .5 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 308 | 6 |
| 10-11 | .0 | .3 | .5 | .7 | .9 | .8 | .5 | .2 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 117 | 7 |
| 12-13 | .0 | .0 | .5 | .5 | .5 | .3 | .4 | .1 | .5 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 75 | 8 |
| >13 | .0 | .0 | .0 | .4 | .4 | .3 | .2 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 40 | 8 |
| INDET | 4.2 | 1.1 | 1.4 | 1.1 | .6 | .3 | .1 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 236 | 2 |
| TOTAL | 237 | 493 | 779 | 532 | 285 | 175 | 78 | 33 | 44 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2662 | 4 |
| PCT | 8.9 | 18.5 | 29.3 | 20.0 | 10.7 | 6.6 | 2.9 | 1.2 | 1.7 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | .1 | .3 | .0 | .0 | .0 | * | .6 | .3 | .1 | 3.0 | .2 | 4.2 | | .1 | 91.5 |
| NE | .5 | .2 | .7 | .0 | .0 | .0 | .0 | 1.4 | .2 | .3 | 2.6 | .1 | 4.9 | | * | 90.4 |
| E | .8 | .1 | 1.1 | .0 | .0 | .0 | .0 | 1.9 | 1.9 | .0 | 3.4 | .5 | 5.3 | | .1 | 87.0 |
| SE | 2.0 | .5 | 1.6 | .0 | .0 | .0 | .0 | 3.9 | 1.5 | .1 | 4.4 | .2 | 4.3 | | .0 | 85.6 |
| S | 1.4 | .5 | 1.9 | .0 | .0 | .0 | .0 | 3.8 | 3.0 | .1 | 4.2 | .1 | 3.6 | | .0 | 85.3 |
| SW | 1.0 | 1.0 | .9 | .0 | .0 | .0 | .1 | 3.1 | 1.8 | .8 | 4.1 | .2 | 4.2 | | .1 | 85.8 |
| W | .5 | .5 | .9 | .0 | .0 | .0 | .0 | 1.8 | 1.2 | .2 | 3.0 | .2 | 4.4 | | * | 89.1 |
| NW | .2 | .2 | .3 | .0 | .0 | .0 | * | .7 | .5 | .1 | 2.9 | .2 | 4.6 | | * | 91.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .3 | .1 | .4 | .0 | .0 | .0 | .0 | .8 | .3 | .1 | 8.1 | .5 | 8.1 | | .1 | 82.2 |
| TOT PCT | .3 | .2 | .5 | .0 | .0 | .0 | * | 1.0 | .6 | .1 | 3.1 | .2 | 4.5 | | * | 90.4 |
| TOT OBS: 52222 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .2 | .3 | .0 | .0 | .0 | * | .7 | .5 | .1 | 2.5 | .2 | 5.6 | | * | 90.3 |
| 06&09 | .3 | .2 | .5 | .0 | .0 | .0 | .0 | 1.0 | .6 | .2 | 2.6 | .2 | 4.0 | | * | 91.5 |
| 12&15 | .5 | .2 | .7 | .0 | .0 | .0 | .0 | 1.3 | .8 | .3 | 3.3 | .2 | 3.8 | | * | 90.3 |
| 18&21 | .3 | .2 | .4 | .0 | .0 | .0 | * | .9 | .7 | * | 4.0 | .2 | 4.5 | | * | 89.6 |
| TOT PCT | .3 | .2 | .5 | .0 | .0 | .0 | * | 1.0 | .6 | .1 | 3.2 | .2 | 4.5 | | * | 90.4 |
| TOT OBS: 52745 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.1 | 8.5 | 9.3 | .9 | * | .0 | | 19.8 | 11.9 | 17.2 | 20.6 | 19.8 | 17.9 | 20.3 | 22.3 | 21.5 | 20.8 |
| NE | .3 | 1.3 | .6 | .1 | * | .0 | | 2.3 | 8.7 | 1.4 | 2.4 | 2.1 | 2.4 | 2.6 | 3.4 | 2.7 | 2.5 |
| E | .2 | .6 | .2 | * | * | .0 | | 1.1 | 7.6 | .7 | .7 | 1.1 | 1.1 | 1.3 | 1.1 | 1.5 | 1.3 |
| SE | .3 | .8 | .3 | * | .0 | .0 | | 1.4 | 7.0 | 1.1 | 2.2 | 1.1 | 1.1 | 1.4 | 1.5 | 1.7 | 2.1 |
| S | .4 | 1.2 | .4 | * | * | .0 | | 2.1 | 7.0 | 1.9 | 2.6 | 2.0 | 2.5 | 2.0 | 1.9 | 2.1 | 2.4 |
| SW | .5 | 1.5 | .4 | * | * | .0 | | 2.4 | 7.3 | 2.3 | 2.5 | 2.3 | 2.9 | 2.4 | 3.0 | 2.2 | 3.3 |
| W | 1.0 | 5.8 | 2.4 | .2 | * | .0 | | 9.3 | 8.9 | 9.7 | 8.7 | 9.1 | 10.2 | 9.4 | 8.5 | 8.8 | 10.0 |
| NW | 2.1 | 24.4 | 29.4 | 2.7 | .1 | .0 | | 58.6 | 12.1 | 63.8 | 57.4 | 59.6 | 59.2 | 56.6 | 55.2 | 55.9 | 55.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.1 | | | | | | | 3.1 | .0 | 2.0 | 3.1 | 3.0 | 2.9 | 4.0 | 3.0 | 3.6 | 2.5 |
| TOT OBS | | | | | | | 57417 | | 11.0 | 13403 | 1548 | 10536 | 2045 | 11229 | 2200 | 14147 | 2309 |
| TOT PCT | 8.9 | 44.2 | 42.9 | 3.9 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.9 | 12.1 | 3.7 | .1 | * | | 19.8 | 11.9 | 17.5 | 19.4 | 20.6 | 21.4 |
| NE | .9 | 1.1 | .2 | * | .0 | | 2.3 | 8.7 | 1.5 | 2.1 | 2.7 | 2.7 |
| E | .6 | .5 | .1 | * | .0 | | 1.1 | 7.6 | .7 | 1.1 | 1.3 | 1.4 |
| SE | .7 | .6 | .1 | * | .0 | | 1.4 | 7.0 | 1.2 | 1.1 | 1.4 | 1.8 |
| S | 1.1 | .8 | .1 | * | .0 | | 2.1 | 7.0 | 2.0 | 2.1 | 2.0 | 2.2 |
| SW | 1.3 | 1.0 | .1 | * | .0 | | 2.4 | 7.3 | 2.3 | 2.4 | 2.5 | 2.4 |
| W | 3.6 | 5.0 | .7 | * | .0 | | 9.3 | 8.9 | 9.6 | 9.2 | 9.3 | 9.0 |
| NW | 9.7 | 36.8 | 11.6 | .5 | * | | 58.6 | 12.1 | 63.1 | 59.5 | 56.3 | 55.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.1 | | | | | | 3.1 | .0 | 2.1 | 2.9 | 3.8 | 3.5 |
| TOT OBS | | | | | | 57417 | | 11.0 | 14951 | 12581 | 13429 | 16456 |
| TOT PCT | 24.9 | 57.8 | 16.6 | .7 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 110.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.1 | 5.1 | 41.6 | 46.4 | 4.6 | .2 | .0 | 11.6 | 100.0 | 14951 |
| 06&09 | 2.9 | 4.8 | 42.8 | 44.9 | 4.4 | .1 | .0 | 11.4 | 100.0 | 12581 |
| 12&15 | 3.8 | 6.1 | 45.5 | 40.9 | 3.5 | .1 | .0 | 10.7 | 100.0 | 13429 |
| 18&21 | 3.5 | 7.1 | 46.3 | 39.7 | 3.4 | .1 | .0 | 10.5 | 100.0 | 16456 |
| TOT | | | | | | | | 11.0 | | 57417 |
| PCT | 3.1 | 5.8 | 44.2 | 42.9 | 3.9 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.9 | 2.8 | 5.1 | 4.4 | | 4.3 |
| NE | 1.3 | .2 | .4 | .3 | | 3.7 |
| E | .5 | .1 | .2 | .3 | | 4.2 |
| SE | .4 | .1 | .4 | .4 | | 5.1 |
| S | .4 | .2 | .5 | .8 | | 5.5 |
| SW | .5 | .3 | .7 | .8 | | 5.4 |
| W | 2.3 | 1.1 | 2.5 | 3.3 | | 5.1 |
| NW | 17.1 | 7.7 | 16.1 | 18.0 | | 4.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.1 | .3 | .6 | .9 | | 4.5 |
| TOT OBS | | | | | 40139 | 4.6 |
| TOT PCT | 31.6 | 12.9 | 26.6 | 29.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .4 | 1.7 | 2.8 | 1.5 | .5 | .2 | .1 | .1 | 12.5 | |
| NE | * | * | * | .1 | .2 | .1 | * | * | * | * | 1.8 | |
| E | * | * | * | .1 | .1 | .1 | * | * | * | * | .8 | |
| SE | * | .0 | * | .1 | .2 | .1 | * | * | * | * | .7 | |
| S | * | * | * | .2 | .4 | .2 | .1 | * | * | * | .9 | |
| SW | * | * | .1 | .3 | .4 | .2 | .1 | * | * | * | 1.0 | |
| W | .1 | * | .2 | 1.1 | 1.9 | 1.0 | .4 | .1 | .1 | * | 4.2 | |
| NW | .8 | .3 | 1.6 | 6.7 | 11.3 | 5.5 | 1.9 | .5 | .3 | .3 | 29.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .1 | .3 | .4 | .2 | .1 | * | * | * | 1.8 | |
| TOT OBS | | | | | | | | | | | | 40139 |
| TOT PCT | 1.4 | .5 | 2.5 | 10.5 | 17.9 | 8.9 | 3.1 | 1.0 | .5 | .5 | 53.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | .9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >5000 | 1.5 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 4.2 | 4.9 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| * OR >2000 | 11.4 | 13.8 | 13.9 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| * OR >1000 | 26.0 | 31.4 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 |
| * OR >600 | 33.2 | 41.5 | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 |
| * OR >300 | 34.6 | 43.8 | 44.7 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 |
| * OR >150 | 34.8 | 44.3 | 45.2 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 |
| * OR > 0 | 35.1 | 44.8 | 46.0 | 46.1 | 46.3 | 46.4 | 46.6 | 46.7 |

TOTAL NUMBER OF OBS: 40335

PCT FREQ NH <5/8: 53.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 21.7 | 8.3 | 8.6 | 7.4 | 6.4 | 5.5 | 7.9 | 9.9 | 23.1 | 1.0 | 42987 |

ANNUAL

PERIOD: (PRIMARY) 1968-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | * | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| <1/2 | NO PCP | .1 | * | * | * | * | * | .1 | .2 | .0 | .1 | .5 | |
| | TOT % | .1 | * | * | * | * | * | .1 | .2 | .0 | .1 | .5 | |
| | PCP | * | .0 | .0 | * | * | * | * | * | .0 | .0 | * | |
| 1/2<1 | NO PCP | * | * | * | * | * | * | * | .1 | .0 | * | .2 | |
| | TOT % | .1 | * | * | * | * | * | * | .1 | .0 | * | .3 | |
| | PCP | * | .0 | .0 | * | * | * | * | * | .0 | .0 | * | |
| 1<2 | NO PCP | * | * | * | * | * | * | * | .2 | .0 | * | .3 | |
| | TOT % | .1 | * | * | * | * | * | * | .2 | .0 | * | .4 | |
| | PCP | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| 2<5 | NO PCP | .4 | * | * | * | .1 | .1 | .2 | 1.1 | .0 | .1 | 2.0 | |
| | TOT % | .4 | * | * | * | .1 | .1 | .2 | 1.2 | .0 | .1 | 2.1 | |
| | PCP | .1 | * | * | * | * | * | .1 | .1 | .0 | * | .4 | |
| 5<10 | NO PCP | 9.3 | .3 | .2 | .2 | .5 | .5 | 1.7 | 10.4 | .0 | .6 | 17.6 | |
| | TOT % | 9.4 | .3 | .2 | .3 | .5 | .5 | 1.7 | 10.5 | .0 | .6 | 18.0 | |
| | PCP | * | * | * | * | * | * | .1 | .2 | .0 | * | .4 | |
| 10+ | NO PCP | 19.8 | 1.9 | .9 | 1.0 | 1.4 | 1.7 | 7.2 | 46.4 | .0 | 2.1 | 78.4 | |
| | TOT % | 19.8 | 1.9 | .9 | 1.0 | 1.4 | 1.7 | 7.3 | 46.6 | .0 | 2.1 | 78.7 | |
| | TOT OBS | | | | | | | | | | | | 52076 |
| | TOT PCT | 19.8 | 2.2 | 1.2 | 1.4 | 2.1 | 2.4 | 9.3 | 58.8 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .2 | |
| <1/2 | 4-10 | .1 | * | * | * | * | * | * | .2 | .0 | | .3 | |
| | 11-21 | * | * | .0 | .0 | .0 | * | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | | * | |
| | TOT % | .1 | * | * | * | * | * | .1 | .3 | .0 | .1 | .6 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| 1/2<1 | 4-10 | * | * | * | * | * | * | * | .1 | .0 | | .2 | |
| | 11-21 | * | * | * | * | * | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | * | * | * | * | * | .1 | .0 | * | .3 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| 1<2 | 4-10 | * | * | .0 | * | * | * | * | .2 | .0 | | .2 | |
| | 11-21 | * | * | .0 | * | * | * | * | .1 | .0 | | .1 | |
| | 22+ | * | * | * | .0 | * | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | * | * | * | * | * | * | .3 | .0 | * | .5 | |
| | 0-3 | * | * | * | * | * | * | * | .1 | .0 | .1 | .3 | |
| 2<5 | 4-10 | .3 | * | * | * | * | .1 | .2 | .8 | .0 | | 1.3 | |
| | 11-21 | .2 | * | * | * | * | * | .1 | .6 | .0 | | .8 | |
| | 22+ | * | * | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .5 | * | * | * | .1 | .1 | .3 | 1.4 | .0 | .1 | 2.6 | |
| | 0-3 | .2 | * | * | .1 | .1 | .1 | .2 | .4 | .0 | .6 | 1.8 | |
| 5<10 | 4-10 | 1.4 | .2 | .1 | .2 | .3 | .3 | 1.0 | 4.5 | .0 | | 8.0 | |
| | 11-21 | 1.6 | .1 | * | * | .1 | .1 | .4 | 5.0 | .0 | | 7.2 | |
| | 22+ | .1 | * | * | * | * | * | * | .4 | .0 | | .6 | |
| | TOT % | 3.3 | .3 | .2 | .3 | .5 | .5 | 1.7 | 10.3 | .0 | .6 | 17.7 | |
| | 0-3 | .8 | .2 | .2 | .2 | .3 | .3 | .7 | 1.5 | .0 | 2.1 | 6.2 | |
| 10+ | 4-10 | 6.7 | 1.1 | .5 | .6 | .9 | 1.1 | 4.5 | 18.5 | .0 | | 33.9 | |
| | 11-21 | 7.5 | .6 | .2 | .2 | .2 | .3 | 1.9 | 23.9 | .0 | | 34.9 | |
| | 22+ | .8 | .1 | * | * | * | * | .1 | 2.3 | .0 | | 3.4 | |
| | TOT % | 15.8 | 1.9 | .9 | 1.0 | 1.4 | 1.7 | 7.2 | 46.2 | .0 | 2.1 | 78.4 | |
| | TOT OBS | | | | | | | | | | | | 55139 |
| | TOT PCT | 19.8 | 2.2 | 1.2 | 1.4 | 2.0 | 2.4 | 9.3 | 58.7 | .0 | 3.0 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | .5 | 2.4 | 9.0 | 16.5 | 8.2 | 3.2 | .8 | .4 | .4 | 42.2 | 57.8 | 11367 |
| 06&09 | 1.1 | .6 | 2.3 | 8.6 | 15.7 | 7.1 | 2.5 | .7 | .4 | .6 | 39.6 | 60.4 | 9015 |
| 12&15 | 1.7 | .6 | 3.1 | 11.8 | 18.8 | 9.3 | 2.6 | .8 | .4 | .5 | 49.5 | 50.5 | 8953 |
| 18&21 | 1.8 | .5 | 2.3 | 11.4 | 18.8 | 10.1 | 3.7 | 1.2 | .7 | .4 | 50.9 | 49.1 | 12124 |
| TOT PCT | 1.4 | .5 | 2.5 | 10.2 | 17.5 | 8.8 | 3.1 | .9 | .5 | .5 | 45.7 | 54.3 | 41459 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .2 | .5 | 2.2 | 16.4 | 80.3 | 14311 |
| 06&09 | .5 | .2 | .4 | 2.4 | 17.9 | 78.6 | 12326 |
| 12&15 | .7 | .4 | .6 | 2.7 | 19.8 | 75.9 | 12937 |
| 18&21 | .8 | .3 | .5 | 3.1 | 17.0 | 78.3 | 16099 |
| TOT PCT | .6 | .3 | .5 | 2.6 | 17.7 | 78.3 | 55673 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .9 | 3.8 | 14.2 | 29.8 | 56.0 | 11055 |
| 06&09 | 1.1 | 4.1 | 13.9 | 27.3 | 58.8 | 8730 |
| 12&15 | 1.7 | 5.6 | 18.4 | 32.4 | 49.2 | 8754 |
| 18&21 | 1.8 | 4.8 | 17.5 | 35.2 | 47.3 | 11796 |
| TOT PCT | 1.4 | 4.6 | 16.0 | 31.4 | 52.6 | 40335 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 90/94 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | | * |
| 85/89 | .0 | * | .0 | .0 | * | .0 | * | .0 | | * |
| 80/84 | .0 | * | * | * | .1 | .1 | * | * | | .3 |
| 75/79 | * | * | * | .1 | .2 | .6 | .4 | .1 | | 1.5 |
| 70/74 | * | * | .1 | .3 | 1.1 | 2.6 | 3.2 | 1.5 | | 8.8 |
| 65/69 | .0 | * | .1 | .6 | 2.2 | 6.2 | 11.0 | 6.1 | | 26.3 |
| 60/64 | * | * | .3 | 1.2 | 5.4 | 11.5 | 16.5 | 6.9 | | 41.8 |
| 55/59 | * | * | .2 | .7 | 2.4 | 5.7 | 7.8 | 3.4 | | 20.2 |
| 50/54 | .0 | * | * | .1 | .2 | .2 | .2 | .2 | | 1.1 |
| 45/49 | .0 | .0 | * | * | * | * | * | * | | * |
| TOTAL PCT | * | .2 | .8 | 3.0 | 11.7 | 26.9 | 39.0 | 18.3 | 42118 | 100.0 |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | * | .0 | * | .0 | .0 | .0 | * | .0 | .0 |
| * | * | * | * | * | * | * | .1 | .0 | * |
| .3 | * | * | * | .1 | * | .2 | .8 | .0 | .1 |
| 1.7 | .2 | .1 | .1 | .2 | .2 | .9 | 5.1 | .0 | .4 |
| 5.1 | .5 | .3 | .4 | .5 | .6 | 2.4 | 15.8 | .0 | .7 |
| 8.5 | .9 | .4 | .5 | .9 | 1.0 | 3.8 | 24.6 | .0 | 1.3 |
| 4.3 | .5 | .2 | .2 | .4 | .4 | 1.7 | 12.0 | .0 | .5 |
| .2 | .1 | * | * | * | * | .1 | .6 | .0 | * |
| * | * | .0 | .0 | .0 | * | * | * | .0 | * |
| 70.1 | 2.2 | 1.1 | 1.3 | 2.0 | 2.2 | 9.0 | 59.0 | .0 | 3.0 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 90 | 76 | 72 | 64 | 59 | 57 | 47 | 64.7 | 14923 |
| 06&09 | 91 | 70 | 67 | 62 | 58 | 56 | 45 | 62.1 | 12659 |
| 12&15 | 93 | 69 | 66 | 61 | 57 | 55 | 47 | 61.6 | 13516 |
| 18&21 | 88 | 74 | 71 | 64 | 59 | 57 | 48 | 64.5 | 16431 |
| TOT | 93 | 74 | 70 | 63 | 58 | 56 | 45 | 63.3 | 57529 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | * | 5.0 | 14.4 | 30.6 | 37.3 | 12.7 | 78 | 11190 |
| 06&09 | .0 | 2.3 | 8.3 | 22.8 | 42.1 | 24.5 | 82 | 9489 |
| 12&15 | * | 2.7 | 8.2 | 22.3 | 41.4 | 25.4 | 83 | 9825 |
| 18&21 | * | 5.6 | 14.5 | 30.5 | 36.4 | 13.1 | 78 | 12020 |
| TOT | 7 | 1667 | 4961 | 11496 | 16628 | 7765 | 80 | 42524 |

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | 89 92 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .( | .0 | .0 | .0 | * | .0 | .0 | 1 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | * | * | .0 | 3 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | * | * | * | * | * | * | * | * | 29 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | * | * | .1 | .1 | * | * | .0 | 105 | * | .2 |
| 11/13 | .0 | .0 | * | * | .1 | .1 | .1 | .2 | .1 | * | .0 | .0 | 271 | * | .5 |
| 9/10 | .0 | .0 | * | * | .1 | .2 | .3 | .2 | .1 | * | .0 | .0 | 477 | * | 1.0 |
| 7/8 | .0 | .0 | * | .1 | .3 | .5 | .6 | .3 | .1 | * | .0 | .0 | 944 | * | 1.9 |
| 6 | .0 | .0 | .0 | .1 | .3 | .5 | .4 | .2 | .1 | * | .0 | .0 | 772 | * | 1.5 |
| 5 | .0 | .0 | * | .1 | .6 | 1.0 | .6 | .3 | .1 | * | .0 | .0 | 1327 | .1 | 2.6 |
| 4 | .0 | .0 | * | .2 | 1.3 | 1.5 | .9 | .3 | .1 | * | * | .0 | 2072 | .1 | 4.1 |
| 3 | .0 | .0 | * | .3 | 1.5 | 1.6 | .8 | .3 | * | * | .0 | .0 | 2214 | .1 | 4.4 |
| 2 | .0 | * | * | .9 | 3.3 | 2.3 | 1.2 | .3 | * | * | .0 | .0 | 3944 | .2 | 7.8 |
| 1 | .0 | .0 | .1 | 1.3 | 3.5 | 2.1 | 1.1 | .2 | * | .0 | .0 | .0 | 4059 | .3 | 8.1 |
| 0 | .0 | * | .2 | 3.5 | 6.0 | 3.3 | 1.4 | .2 | * | * | .0 | .0 | 7139 | .5 | 14.1 |
| -1 | .0 | * | .2 | 3.7 | 4.2 | 2.6 | .8 | .1 | * | .0 | .0 | .0 | 5631 | .3 | 11.3 |
| -2 | .0 | * | .6 | 4.8 | 4.9 | 2.7 | .7 | .1 | * | .0 | .0 | .0 | 6676 | .5 | 13.3 |
| -3 | .0 | * | .6 | 3.4 | 2.8 | 1.6 | .4 | * | * | .0 | .0 | .0 | 4344 | .3 | 8.7 |
| -4 | * | * | .9 | 2.9 | 2.3 | 1.3 | .2 | * | * | .0 | .0 | .0 | 3666 | .2 | 7.4 |
| -5 | .0 | * | .7 | 1.5 | 1.2 | .7 | .1 | * | * | * | .0 | .0 | 2065 | .1 | 4.2 |
| -6 | .0 | * | .5 | 1.0 | .7 | .3 | .1 | * | .0 | .0 | .0 | .0 | 1237 | .1 | 2.5 |
| -7/-8 | .0 | .1 | .4 | .7 | .6 | .4 | .1 | * | .0 | .0 | .0 | .0 | 1057 | .1 | 2.1 |
| -9/-10 | * | * | .1 | .2 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | 316 | * | .6 |
| -11/-13 | * | * | .1 | .1 | .1 | * | * | * | .0 | .0 | .0 | .0 | 125 | * | .3 |
| -14/-16 | .0 | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | 42 | * | .1 |
| -17/-19 | .0 | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 8 | .0 | * |
| TOTAL | | | | | | | | | | | | | 48524 | | |
| PCT | * | .3 | 4.6 | 24.1 | 33.7 | 22.9 | 10.1 | 2.8 | .7 | .1 | * | * | 100.0 | 3.2 | 96.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.1 | * | .0 | .0 | .0 | 1.5 |
| 1-2 | .3 | 4.2 | 2.0 | .0 | .0 | .0 | 6.5 |
| 3-4 | .1 | 2.2 | 4.1 | .2 | .0 | .0 | 6.5 |
| 5-6 | * | .5 | 2.8 | .3 | .0 | .0 | 3.7 |
| 7 | .0 | .1 | 1.1 | .3 | .0 | .0 | 1.5 |
| 8-9 | .0 | * | .3 | .2 | * | .0 | .5 |
| 10-11 | .0 | * | .1 | .1 | * | .0 | .2 |
| 12 | .0 | .0 | * | * | .0 | .0 | * |
| 13-16 | .0 | .0 | * | * | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 8.2 | 10.4 | 1.1 | * | .0 | 20.4 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | * | .0 | .0 | .0 | .3 |
| 1-2 | * | .7 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | * | .3 | .4 | * | .0 | .0 | .7 |
| 5-6 | .0 | .1 | .2 | .1 | * | .0 | .4 |
| 7 | .0 | * | * | * | .0 | .0 | .1 |
| 8-9 | .0 | * | .1 | * | * | .0 | .1 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.3 | .9 | .1 | * | .0 | 2.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | * | .0 | .0 | .0 | .3 |
| 1-2 | * | .4 | .1 | .0 | .0 | .0 | .4 |
| 3-4 | * | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | * | * | * | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | * | .0 | .0 | * |
| 8-9 | .0 | * | .0 | * | * | .0 | * |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .7 | .2 | * | * | .0 | 1.1 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | * | .0 | .0 | .0 | .2 |
| 1-2 | * | .4 | .1 | .0 | .0 | .0 | .5 |
| 3-4 | * | .1 | .2 | * | .0 | .0 | .3 |
| 5-6 | * | * | .1 | * | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .6 | .4 | * | .0 | .0 | 1.1 |

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0030 BAJA 29.4N 116.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .2 | * | .0 | .0 | .0 | .4 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .3 | .1 | .0 | .0 | .0 | .6 | .1 | .6 | .1 | .0 | .0 | .0 | .8 |
| 3-4 | * | .1 | .2 | .0 | .0 | .0 | .3 | * | .2 | .2 | * | .0 | .0 | .5 |
| 5-6 | .0 | * | .1 | .0 | .0 | .0 | .1 | .0 | * | .1 | * | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | * | .0 | * | .0 | * | * | * | * | .0 | .1 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | * | * | * | .0 | .0 | * |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .4 | .0 | * | .0 | 1.5 | .2 | 1.2 | .5 | .1 | * | .0 | 1.9 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .8 | * | .0 | .0 | .0 | 1.1 | .7 | 2.3 | .1 | .0 | .0 | .0 | 3.1 | |
| 1-2 | .3 | 2.6 | .6 | .0 | .0 | .0 | 3.5 | .6 | 11.5 | 5.7 | .0 | .0 | .0 | 17.8 | |
| 3-4 | * | 1.1 | 1.0 | * | .0 | .0 | 2.2 | .1 | 7.3 | 13.3 | .5 | .0 | .0 | 21.2 | |
| 5-6 | * | .2 | .6 | .1 | .0 | .0 | .9 | * | 1.9 | 8.8 | 1.0 | .0 | .0 | 11.6 | |
| 7 | .0 | .1 | .2 | .1 | .0 | .0 | .3 | * | .3 | 3.0 | .7 | * | .0 | 4.1 | |
| 8-9 | .0 | * | .1 | * | .0 | .0 | .1 | .0 | .1 | .9 | .5 | .1 | .0 | 1.5 | |
| 10-11 | .0 | .0 | * | * | .0 | .0 | * | .0 | * | .3 | .2 | * | .0 | .5 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | * | * | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | * | .0 | * | .0 | .0 | * | .0 | * | * | .1 | * | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 4.8 | 2.5 | .2 | .0 | .0 | 8.2 | 1.5 | 23.4 | 32.1 | 3.0 | .1 | .0 | 60.2 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.3 | 5.3 | .2 | .0 | .0 | .0 | 10.8 | |
| 1-2 | 1.5 | 20.8 | 8.7 | .0 | .0 | .0 | 31.1 | |
| 3-4 | .3 | 11.4 | 19.3 | .8 | .0 | .0 | 31.8 | |
| 5-6 | .1 | 2.7 | 12.6 | 1.4 | * | .0 | 16.8 | |
| 7 | * | .5 | 4.3 | 1.1 | * | .0 | 6.0 | |
| 8-9 | .0 | .2 | 1.3 | .8 | .1 | .0 | 2.3 | |
| 10-11 | .0 | * | .4 | .3 | * | .0 | .8 | |
| 12 | * | * | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | * | .1 | .1 | * | .0 | .2 | |
| 17-19 | .0 | .0 | * | .0 | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | * | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 16174 |
| TOT PCT | 7.2 | 41.1 | 47.0 | 4.6 | .2 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.8 | 14.2 | 17.9 | 8.2 | 2.5 | .9 | .3 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 17546 | 3 |
| 6-7 | .1 | 2.0 | 8.4 | 9.0 | 4.0 | 1.7 | .7 | .2 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9685 | 5 |
| 8-9 | * | .8 | 2.2 | 3.4 | 2.3 | 1.4 | .5 | .3 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4154 | 6 |
| 10-11 | .0 | .7 | .8 | 1.2 | .9 | .7 | .4 | .2 | .1 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 1814 | 6 |
| 12-13 | .0 | .0 | .6 | .4 | .3 | .2 | .2 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 696 | 6 |
| >13 | .0 | .0 | .0 | .2 | .2 | .2 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 314 | 8 |
| INDET | 2.9 | 1.2 | 1.2 | .8 | .4 | .2 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2486 | 2 |
| TOTAL | | | | | | | | | | | | | | | | | | | | 36698 | 4 |
| PCT | 6.8 | 18.9 | 31.1 | 23.2 | 10.7 | 5.2 | 2.2 | .9 | .8 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 110.6W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

| SEA TMP DEG F | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN | PCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 95/96 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 93/94 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 91/92 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 89/90 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 87/88 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 85/86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | * |
| 83/84 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | 9 | * |
| 81/82 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .2 | .2 | * | .0 | 23 | * |
| 79/80 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | .3 | .2 | .1 | * | 40 | .1 |
| 77/78 | .0 | * | * | * | * | * | .1 | .6 | 1.0 | .5 | .1 | .1 | 109 | .2 |
| 75/76 | * | * | * | .1 | * | * | .4 | 1.7 | 2.8 | 1.6 | .3 | .1 | 306 | .8 |
| 73/74 | .1 | .1 | * | * | * | .0 | .9 | 4.8 | 7.4 | 3.3 | 1.2 | .6 | 804 | 1.5 |
| 71/72 | .1 | .1 | .1 | .1 | .2 | .2 | 3.0 | 12.8 | 15.3 | 8.8 | 2.9 | .9 | 1951 | 3.6 |
| 69/70 | .8 | .2 | .3 | .2 | .4 | 1.0 | 9.8 | 24.1 | 22.7 | 19.2 | 7.5 | 3.3 | 3914 | 7.3 |
| 67/68 | 2.0 | 1.1 | .7 | 1.1 | 1.5 | 3.6 | 17.9 | 26.6 | 26.5 | 28.9 | 18.7 | 7.4 | 5959 | 11.1 |
| 65/66 | 6.9 | 3.3 | 2.2 | 3.4 | 6.8 | 12.9 | 26.9 | 17.4 | 15.1 | 22.6 | 27.8 | 16.6 | 7054 | 13.2 |
| 63/64 | 20.3 | 14.6 | 13.3 | 16.2 | 24.8 | 37.3 | 27.9 | 8.5 | 6.8 | 10.6 | 28.0 | 29.6 | 10641 | 19.9 |
| 61/62 | 30.7 | 29.8 | 25.0 | 30.9 | 31.3 | 28.3 | 9.3 | 2.2 | 1.4 | 2.8 | 9.2 | 23.4 | 10106 | 18.9 |
| 59/60 | 29.4 | 30.7 | 34.4 | 31.7 | 23.2 | 11.7 | 2.8 | .6 | .4 | .9 | 3.0 | 12.7 | 8112 | 15.2 |
| 57/58 | 10.8 | 13.6 | 17.4 | 12.1 | 7.9 | 3.4 | .5 | .2 | .1 | .3 | .7 | 3.6 | 3247 | 6.1 |
| 55/56 | 2.4 | 3.1 | 4.7 | 2.8 | 2.7 | .9 | .3 | .2 | .0 | .1 | .3 | 1.0 | 896 | 1.6 |
| 53/54 | .7 | .8 | 1.2 | .8 | .9 | .4 | .1 | * | .0 | * | .1 | .3 | 269 | .5 |
| 51/52 | .2 | .2 | .3 | .4 | .2 | .2 | .0 | .0 | .0 | .0 | .1 | .1 | 78 | .1 |
| 49/50 | .1 | .1 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | * | .2 | 37 | .1 |
| 47/48 | .1 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 13 | * |
| 45/46 | .0 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | * | 5 | * |
| 43/44 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3 | * |
| 41/42 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 39/40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 37/38 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 35/36 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 33/34 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 31/32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 29/30 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 27/28 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| <27 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| TOTAL | 4399 | 4292 | 4963 | 4719 | 4771 | 4553 | 4400 | 4362 | 4332 | 4576 | 4249 | 3903 | 53519 | 100.0 |
| MEAN | 61.2 | 60.6 | 60.1 | 60.6 | 61.4 | 62.6 | 65.5 | 68.2 | 68.8 | 67.6 | 65.3 | 63.2 | 63.7 | |

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

| MO | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 1018 | 1018 | 1019 | 1017 | 1018 | 1018 | 1020 | 1018 | 1018 | 4314 |
| FEB | 1017 | 1017 | 1018 | 1017 | 1018 | 1018 | 1019 | 1017 | 1018 | 4306 |
| MAR | 1016 | 1017 | 1018 | 1016 | 1017 | 1017 | 1018 | 1017 | 1017 | 4946 |
| APR | 1015 | 1015 | 1017 | 1014 | 1015 | 1015 | 1017 | 1016 | 1016 | 4816 |
| MAY | 1013 | 1014 | 1015 | 1013 | 1015 | 1014 | 1016 | 1014 | 1015 | 4734 |
| JUN | 1013 | 1013 | 1014 | 1013 | 1013 | 1013 | 1015 | 1014 | 1014 | 4597 |
| JUL | 1013 | 1013 | 1014 | 1012 | 1013 | 1013 | 1015 | 1013 | 1014 | 4496 |
| AUG | 1013 | 1013 | 1013 | 1012 | 1013 | 1013 | 1014 | 1013 | 1013 | 4434 |
| SEP | 1011 | 1012 | 1012 | 1011 | 1012 | 1012 | 1013 | 1012 | 1012 | 4331 |
| OCT | 1013 | 1014 | 1015 | 1013 | 1014 | 1014 | 1015 | 1014 | 1014 | 4491 |
| NOV | 1016 | 1017 | 1017 | 1016 | 1016 | 1017 | 1018 | 1017 | 1017 | 4195 |
| DEC | 1017 | 1018 | 1018 | 1017 | 1017 | 1018 | 1019 | 1018 | 1018 | 3816 |
| ANN | 1015 | 1015 | 1016 | 1014 | 1015 | 1015 | 1017 | 1015 | 1016 | 53436 |
| OBS | 12629 | 902 | 10480 | 1457 | 10670 | 1646 | 14018 | 1634 | | |

PERCENTILES

| MO | MIN | 1% | 5% | 25% | 50% | 75% | 95% | 99% | MAX |
|---|---|---|---|---|---|---|---|---|---|
| JAN | 1001 | 1009 | 1012 | 1016 | 1019 | 1021 | 1024 | 1026 | 1033 |
| FEB | 1001 | 1009 | 1013 | 1016 | 1018 | 1020 | 1023 | 1025 | 1029 |
| MAR | 1001 | 1009 | 1012 | 1015 | 1017 | 1019 | 1022 | 1025 | 1030 |
| APR | 1001 | 1009 | 1011 | 1014 | 1016 | 1018 | 1020 | 1022 | 1026 |
| MAY | 1000 | 1008 | 1011 | 1013 | 1015 | 1017 | 1019 | 1021 | 1028 |
| JUN | 1000 | 1007 | 1010 | 1012 | 1014 | 1015 | 1018 | 1019 | 1027 |
| JUL | 1001 | 1007 | 1010 | 1012 | 1014 | 1015 | 1017 | 1019 | 1025 |
| AUG | 1000 | 1005 | 1009 | 1012 | 1013 | 1015 | 1017 | 1019 | 1023 |
| SEP | 998 | 1005 | 1007 | 1010 | 1012 | 1014 | 1016 | 1018 | 1023 |
| OCT | 1001 | 1007 | 1010 | 1013 | 1014 | 1016 | 1019 | 1021 | 1025 |
| NOV | 1002 | 1009 | 1012 | 1015 | 1017 | 1019 | 1021 | 1023 | 1027 |
| DEC | 1001 | 1007 | 1012 | 1016 | 1018 | 1020 | 1023 | 1026 | 1030 |

JANUARY

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | 1.4 | .7 | .0 | .0 | .0 | .0 | 2.2 | .5 | .0 | 2.3 | .7 | .3 | | .0 | 93.8 |
| NE | .3 | 1.4 | .0 | .0 | .0 | .0 | .0 | 1.7 | .7 | .0 | .7 | .0 | .3 | | .0 | 96.6 |
| E | 5.3 | .0 | .0 | .0 | .0 | .0 | .0 | 5.3 | .0 | .0 | .0 | .0 | 1.3 | | .0 | 93.4 |
| SE | 13.6 | .0 | .0 | .0 | .0 | .0 | .0 | 13.6 | .0 | .0 | 4.5 | .0 | .0 | | .0 | 81.8 |
| S | 3.1 | 1.2 | 3.1 | .0 | .0 | .0 | .0 | 7.4 | 2.5 | .0 | 6.1 | .0 | .0 | | .0 | 84.0 |
| SW | 5.4 | 1.1 | 1.1 | .0 | .0 | .0 | .0 | 7.6 | 2.2 | .0 | 7.1 | .0 | .0 | | .0 | 83.2 |
| W | .0 | 4.1 | 3.2 | .0 | .0 | .0 | .0 | 7.2 | 1.8 | .0 | 8.6 | .0 | .0 | | .0 | 82.4 |
| NW | 1.1 | .1 | .1 | .0 | .0 | .0 | .0 | 1.4 | .8 | .0 | .7 | .0 | .0 | | .0 | 97.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6.3 | .0 | .0 | | .0 | 93.8 |
| TOT PCT | 1.5 | 1.1 | .8 | .0 | .0 | .0 | .0 | 3.4 | .9 | .0 | 2.7 | .2 | .2 | | .0 | 92.9 |
| TOT OBS: | 877 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.5 | 1.2 | .0 | .0 | .0 | .0 | .0 | 2.7 | .8 | .0 | 4.2 | .0 | .8 | | .0 | 91.5 |
| 06&09 | 1.7 | .6 | 1.7 | .0 | .0 | .0 | .0 | 3.9 | 1.7 | .0 | 1.7 | .0 | .0 | | .0 | 92.8 |
| 12&15 | 1.3 | 1.8 | 1.8 | .0 | .0 | .0 | .0 | 4.8 | .9 | .0 | 3.1 | .4 | .0 | | .0 | 90.8 |
| 18&21 | 1.4 | .9 | .0 | .0 | .0 | .0 | .0 | 2.3 | .5 | .0 | 1.4 | .5 | .0 | | .0 | 95.4 |
| TOT PCT | 1.5 | 1.1 | .8 | .0 | .0 | .0 | .0 | 3.4 | .9 | .0 | 2.7 | .2 | .2 | | .0 | 92.8 |
| TOT OBS: | 885 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 11.6 | 17.9 | 3.3 | .0 | .0 | | 33.8 | 13.1 | 35.1 | 31.0 | 30.3 | 35.3 | 33.9 | 39.6 | 33.7 | 33.3 |
| NE | .7 | 5.8 | 9.1 | 1.0 | .0 | .0 | | 16.5 | 13.1 | 14.2 | 12.5 | 17.6 | 19.5 | 15.0 | 21.9 | 18.5 | 17.1 |
| E | .6 | 2.1 | 1.6 | .1 | .0 | .0 | | 4.3 | 9.2 | 4.2 | 9.5 | 3.0 | 3.0 | 3.9 | 8.1 | 2.1 | 5.0 |
| SE | .5 | 1.3 | .9 | .2 | .0 | .0 | | 2.9 | 9.6 | 2.3 | 1.7 | .4 | 3.0 | 1.8 | 1.2 | 4.9 | 6.6 |
| S | .9 | 3.8 | 3.5 | .5 | .0 | .0 | | 8.8 | 11.0 | 9.1 | 11.6 | 9.3 | 11.0 | 9.8 | 4.6 | 9.3 | 6.9 |
| SW | .7 | 1.9 | 2.9 | .1 | .0 | .0 | | 5.6 | 10.2 | 6.3 | 6.0 | 7.6 | 3.0 | 4.5 | 6.9 | 2.6 | 7.3 |
| W | 1.3 | 2.9 | 2.1 | .3 | .0 | .0 | | 6.8 | 9.0 | 8.2 | 6.5 | 9.7 | 8.0 | 7.6 | 2.3 | 4.2 | 6.8 |
| NW | 1.0 | 9.2 | 7.4 | 1.8 | .1 | .0 | | 19.6 | 12.0 | 21.1 | 21.1 | 19.1 | 17.0 | 21.7 | 15.8 | 20.6 | 16.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | | 1.8 | .0 | 1.5 | .0 | 3.0 | .0 | 1.8 | .0 | 4.2 | 1.3 |
| TOT OBS | 83 | 376 | 443 | 69 | 2 | 0 | 973 | | 11.7 | 206 | 58 | 132 | 50 | 168 | 65 | 143 | 151 |
| TOT PCT | 8.5 | 38.6 | 45.5 | 7.1 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.8 | 20.1 | 8.4 | .5 | .0 | | 33.8 | 13.1 | 34.2 | 31.7 | 35.5 | 33.5 |
| NE | 2.5 | 8.3 | 5.7 | .1 | .0 | | 16.5 | 13.1 | 13.8 | 18.1 | 16.8 | 17.8 |
| E | 1.4 | 2.7 | .2 | .1 | .0 | | 4.3 | 9.2 | 5.4 | 3.0 | 5.0 | 3.6 |
| SE | 1.1 | 1.4 | .5 | .0 | .0 | | 2.9 | 9.6 | 2.2 | 1.1 | 1.6 | 5.8 |
| S | 2.5 | 4.5 | 1.8 | .0 | .0 | | 8.8 | 11.0 | 9.7 | 9.8 | 8.4 | 7.7 |
| SW | 1.8 | 3.1 | .7 | .0 | .0 | | 5.6 | 10.2 | 6.3 | 6.3 | 5.2 | 4.9 |
| W | 2.4 | 3.7 | .3 | .1 | .0 | | 6.6 | 9.0 | 6.3 | 9.2 | 6.1 | 5.3 |
| NW | 3.9 | 11.7 | 3.2 | .8 | .0 | | 19.6 | 12.0 | 21.1 | 18.5 | 20.1 | 18.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | 1.8 | .0 | 1.1 | 2.2 | 1.3 | 2.7 |
| TOT OBS | 217 | 539 | 202 | 15 | 0 | 973 | | 11.7 | 204 | 182 | 233 | 294 |
| TOT PCT | 22.3 | 55.4 | 20.8 | 1.5 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JANUARY

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 7.2 | 37.5 | 47.0 | 7.2 | .0 | .0 | 12.0 | 100.0 | 264 |
| 06&09 | 2.2 | 3.8 | 41.8 | 44.5 | 7.1 | .5 | .0 | 11.7 | 100.0 | 182 |
| 12&15 | 1.3 | 8.2 | 36.5 | 47.6 | 6.0 | .4 | .0 | 11.9 | 100.0 | 233 |
| 18&21 | 2.7 | 6.8 | 39.5 | 43.2 | 7.8 | .0 | .0 | 11.4 | 100.0 | 294 |
| TOT | 18 | 65 | 376 | 443 | 69 | 2 | 0 | 11.7 | | 973 |
| PCT | 1.8 | 6.7 | 38.6 | 45.5 | 7.1 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.8 | 4.8 | 13.7 | 6.3 | | 4.7 |
| NE | 6.8 | 1.8 | 6.1 | 2.6 | | 3.9 |
| E | .8 | .3 | .9 | 1.2 | | 3.3 |
| SE | .1 | .5 | .7 | 1.8 | | 6.5 |
| S | .7 | .0 | 3.3 | 3.8 | | 6.4 |
| SW | .8 | .2 | 1.5 | 2.2 | | 6.1 |
| W | 1.0 | 1.0 | 2.5 | 2.8 | | 5.8 |
| NW | 3.6 | 3.6 | 7.4 | 9.1 | | 5.2 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .3 | 1.0 | 1.2 | | 6.4 |
| TOT OBS | 136 | 79 | 222 | 102 | 598 | 5.1 |
| TOT PCT | 22.7 | 13.2 | 37.1 | 27.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | .0 | 1.1 | 1.5 | 6.7 | 6.0 | 1.3 | .0 | .0 | .5 | 16.5 | |
| NE | .2 | .2 | .2 | 1.0 | 3.1 | 1.3 | .3 | .0 | .0 | .3 | 10.9 | |
| E | .0 | .0 | .0 | .3 | .8 | .2 | .0 | .0 | .0 | .0 | 1.9 | |
| SE | .0 | .0 | .0 | .3 | .4 | .5 | .2 | .0 | .0 | .1 | 1.5 | |
| S | .0 | .2 | .0 | .5 | 1.5 | 2.0 | .5 | .0 | .0 | .2 | 3.6 | |
| SW | .0 | .0 | .0 | .5 | 1.8 | .6 | .0 | .0 | .0 | .2 | 1.7 | |
| W | .0 | .0 | .2 | .9 | 1.5 | 1.5 | .0 | .1 | .0 | .3 | 5.0 | |
| NW | .2 | .0 | .4 | .8 | 2.6 | 5.6 | 1.4 | .1 | .0 | .1 | 8.6 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .0 | .2 | .3 | .8 | .2 | .0 | .2 | .0 | .8 | |
| TOT OBS | 3 | 2 | 11 | 35 | 112 | 110 | 23 | 1 | 1 | 10 | 291 | 599 |
| TOT PCT | .5 | .3 | 1.8 | 5.8 | 18.7 | 18.4 | 3.8 | .2 | .2 | 1.7 | 48.6 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) • OR >10 | • OR >5 | • OR >2 | • OR >1 | • OR >1/2 | • OR >1/4 | • OR >50YD | • OR >0 |
|---|---|---|---|---|---|---|---|---|
| • OR >6500 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| • OR >5000 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| • OR >3500 | 5.4 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| • OR >2000 | 19.3 | 23.0 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 |
| • OR >1000 | 34.6 | 41.2 | 42.5 | 42.3 | 42.5 | 42.7 | 42.7 | 42.7 |
| • OR >600 | 39.0 | 46.6 | 48.4 | 48.4 | 48.4 | 48.6 | 48.6 | 48.6 |
| • OR >300 | 40.2 | 48.4 | 50.3 | 50.3 | 50.3 | 50.4 | 50.4 | 50.4 |
| • OR >150 | 40.2 | 48.7 | 50.6 | 50.6 | 50.6 | 50.8 | 50.8 | 50.8 |
| • OR > 0 | 40.5 | 49.2 | 51.1 | 51.1 | 51.1 | 51.3 | 51.3 | 51.3 |
| TOTAL | 241 | 293 | 304 | 304 | 304 | 305 | 305 | 305 |

TOTAL NUMBER OF OBS: 599

PCT FREQ NM <5/8: 48.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 11.5 | 9.1 | 10.4 | 8.1 | 9.2 | 10.4 | 11.8 | 11.1 | 18.3 | .2 | 628 |

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO ZOO SW
29.5N 122.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .0 | .1 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .0 | .1 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .7 | .0 | .0 | .0 | .5 | .3 | .0 | .0 | .0 | .1 | 1.6 | |
| | TOT % | .7 | .0 | .0 | .0 | .5 | .3 | .0 | .0 | .0 | .1 | 1.6 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| 2<5 | PCP | .0 | .0 | .1 | .1 | .2 | .3 | .1 | * | .0 | .0 | .8 | |
| | NO PCP | .2 | .3 | .1 | * | .1 | * | .2 | .7 | .0 | .0 | 1.6 | |
| | TOT % | .2 | .3 | .1 | .1 | .3 | .4 | .3 | .7 | .0 | .0 | 2.4 | |
| 5<10 | PCP | .6 | .2 | .2 | .3 | .5 | .1 | .2 | .2 | .0 | .0 | 2.3 | |
| | NO PCP | 8.6 | 4.7 | 2.3 | .6 | 2.9 | 1.4 | 1.9 | 6.0 | .0 | .0 | 28.5 | |
| | TOT % | 9.2 | 5.0 | 2.5 | .9 | 3.4 | 1.9 | 2.1 | 6.2 | .0 | .0 | 30.7 | |
| 10+ | PCP | .2 | .1 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .3 | |
| | NO PCP | 29.1 | 11.6 | 1.7 | 1.5 | 5.2 | 3.1 | 3.7 | 13.1 | .0 | 1.7 | 64.7 | |
| | TOT % | 29.2 | 11.7 | 1.7 | 1.5 | 5.2 | 3.1 | 3.8 | 13.1 | .0 | 1.7 | 65.0 | |
| | TOT OBS | | | | | | | | | | | | 875 |
| | TOT PCT | 33.4 | 16.9 | 4.3 | 2.5 | 9.3 | 5.3 | 6.3 | 20.1 | .0 | 1.8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .0 | .1 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | |
| | 4-10 | .3 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | | .5 | |
| | 11-21 | .3 | .0 | .0 | .0 | .3 | .2 | .0 | .0 | .0 | | 1.0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .7 | .0 | .0 | .0 | .3 | .3 | .0 | .0 | .0 | .1 | 1.6 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .1 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .1 | |
| 2<5 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| | 4-10 | .0 | .0 | .1 | * | .2 | .2 | .3 | .4 | .0 | | 1.1 | |
| | 11-21 | .0 | .1 | .1 | .1 | .1 | .1 | .0 | .2 | .0 | | .7 | |
| | 22+ | .2 | .1 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | | .5 | |
| | TOT % | .2 | .3 | .1 | .1 | .3 | .4 | .3 | .7 | .0 | .0 | 2.4 | |
| 5<10 | 0-3 | .2 | .0 | .2 | .2 | .5 | .3 | .9 | .3 | .0 | .0 | 2.6 | |
| | 4-10 | 2.8 | 1.5 | .8 | .4 | 1.4 | .4 | .6 | 2.7 | .0 | | 10.4 | |
| | 11-21 | 5.9 | 3.3 | 1.5 | .3 | 1.4 | .8 | .5 | 2.8 | .0 | | 16.3 | |
| | 22+ | .3 | .2 | .0 | .0 | .2 | .0 | .1 | .5 | .0 | | 1.4 | |
| | TOT % | 9.2 | 5.0 | 2.5 | .9 | 3.4 | 1.5 | 2.1 | 6.2 | .0 | .0 | 30.7 | |
| 10+ | 0-3 | .8 | .3 | .3 | .1 | .3 | .3 | .3 | .6 | .0 | 1.7 | 5.1 | |
| | 4-10 | 7.4 | 4.4 | 1.3 | .8 | 2.6 | 1.3 | 1.8 | 6.1 | .0 | | 25.7 | |
| | 11-21 | 12.2 | 6.1 | .1 | .4 | 1.7 | 1.4 | 1.7 | 4.8 | .0 | | 28.6 | |
| | 22+ | 2.8 | .0 | .0 | .2 | .4 | .0 | .0 | 1.6 | .0 | | 5.0 | |
| | TOT % | 23.2 | 11.7 | 1.7 | 1.5 | 5.2 | 3.1 | 3.8 | 13.1 | .0 | 1.7 | 65.0 | |
| | TOT OBS | | | | | | | | | | | | 875 |
| | TOT PCT | 33.4 | 16.9 | 4.3 | 2.5 | 9.3 | 5.3 | 6.3 | 20.1 | .0 | 1.8 | 100.0 | |

JANUARY

PERIOD: (PRIMARY) 1996-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00E03 | .6 | .0 | 1.7 | 6.3 | 18.8 | 18.8 | 2.8 | .6 | .0 | 1.1 | 50.6 | 49.4 | 176 |
| 06E09 | .7 | .0 | 2.9 | 6.5 | 16.7 | 22.5 | 2.9 | .0 | .7 | 2.2 | 55.1 | 44.9 | 138 |
| 12E15 | .0 | .0 | 1.4 | 4.3 | 22.5 | 18.8 | 3.6 | .0 | .0 | 1.4 | 52.2 | 47.8 | 138 |
| 18E21 | .6 | 1.2 | 1.2 | 5.6 | 15.4 | 13.0 | 6.8 | .0 | .0 | 1.9 | 45.7 | 54.3 | 162 |
| TOT | 3 | 2 | 11 | 35 | 112 | 111 | 25 | 1 | 1 | 10 | 311 | 303 | 614 |
| PCT | .5 | .3 | 1.8 | 5.7 | 18.2 | 18.1 | 4.1 | .2 | .2 | 1.6 | 50.7 | 49.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00E03 | .0 | 2.7 | .0 | 2.3 | 34.4 | 60.6 | 259 |
| 06E09 | .6 | .6 | .0 | 2.8 | 27.1 | 69.1 | 181 |
| 12E15 | .0 | 1.8 | .0 | 3.5 | 34.8 | 59.9 | 227 |
| 18E21 | .0 | .9 | .5 | .9 | 25.9 | 71.8 | 216 |
| TOT | 1 | 14 | 1 | 21 | 273 | 573 | 883 |
| PCT | .1 | 1.6 | .1 | 2.4 | 30.9 | 64.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <500YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <3/8 AND 3+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00E03 | .6 | 2.3 | 9.9 | 41.3 | 48.8 | 172 |
| 06E09 | .0 | 4.6 | 13.7 | 42.7 | 43.5 | 131 |
| 12E15 | .0 | 1.5 | 8.1 | 44.4 | 47.4 | 135 |
| 18E21 | .6 | 3.2 | 10.8 | 36.9 | 52.2 | 157 |
| TOT | 3 | 17 | 63 | 245 | 287 | 595 |
| PCT | .5 | 2.9 | 10.6 | 41.2 | 48.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | .0 | .3 | .3 | .2 | .0 | .0 | 6 | 1.0 |
| 65/69 | .0 | .2 | .2 | .0 | .9 | .9 | 1.7 | 1.0 | 28 | 4.8 |
| 60/64 | .0 | .0 | .9 | 1.7 | 4.8 | 15.1 | 14.0 | 6.9 | 249 | 43.1 |
| 55/59 | .0 | .0 | .5 | 3.3 | 10.9 | 14.9 | 11.2 | 5.5 | 208 | 40.4 |
| 50/54 | .0 | .0 | .0 | .7 | 1.9 | .7 | 1.2 | .2 | 27 | 4.7 |
| TOTAL | 0 | 1 | 9 | 39 | 108 | 183 | 163 | 79 | 578 | 100.0 |
| PCT | .0 | .2 | 1.6 | 6.1 | 18.7 | 31.7 | 28.2 | 13.7 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .6 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .2 |
| 1.3 | .3 | .0 | .1 | 1.2 | .3 | .9 | .6 | .0 | .2 |
| 12.2 | 8.2 | 1.9 | 1.2 | 6.0 | 2.2 | 3.9 | 0.8 | .0 | .7 |
| 18.3 | 7.9 | 1.0 | .8 | 1.2 | 2.1 | 3.2 | 10.8 | .0 | 1.0 |
| 1.8 | .7 | .3 | .1 | .1 | .0 | .0 | 1.9 | .0 | .2 |
| 34.3 | 17.2 | 3.2 | 2.2 | 8.4 | 4.6 | 8.0 | 19.9 | .0 | 2.2 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 71 | 69 | 65 | 60 | 39 | 33 | 32 | 59.8 | 206 |
| 06E09 | 67 | 66 | 64 | 59 | 34 | 33 | 31 | 58.7 | 165 |
| 12E15 | 70 | 67 | 63 | 59 | 34 | 31 | 30 | 58.5 | 253 |
| 18E21 | 70 | 69 | 65 | 60 | 35 | 33 | 31 | 60.1 | 292 |
| TOT | 71 | 68 | 65 | 59 | 34 | 32 | 30 | 59.3 | 976 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00E03 | .0 | 6.8 | 10.9 | 33.1 | 31.2 | 10.4 | 77 | 184 |
| 06E09 | .8 | 7.3 | 17.7 | 33.1 | 21.8 | 20.2 | 78 | 124 |
| 12E15 | .0 | 8.3 | 17.4 | 27.8 | 33.3 | 13.2 | 77 | 144 |
| 18E21 | .0 | 6.8 | 23.1 | 30.6 | 29.6 | 11.9 | 78 | 160 |
| TOT | 0 | 43 | 110 | 184 | 164 | 79 | 77 | 982 |

JANUARY

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|
| 11/13 | .0 | .0 | .0 | .0 | .0 | .1 | 1 | .0 | .1 |
| 9/10 | .0 | .0 | .0 | .0 | .1 | .3 | 3 | .0 | .6 |
| 7/8 | .0 | .0 | .0 | .2 | .2 | .2 | 6 | .0 | .7 |
| 6 | .0 | .0 | .1 | .0 | .4 | .0 | 4 | .0 | .8 |
| 5 | .0 | .0 | .1 | .4 | .6 | .1 | 10 | .1 | 1.1 |
| 4 | .0 | .0 | .4 | .8 | .4 | .0 | 13 | .0 | 1.8 |
| 3 | .0 | .0 | .4 | 2.2 | .6 | .0 | 27 | .0 | 3.2 |
| 2 | .0 | .2 | .5 | 3.1 | 1.5 | .0 | 48 | .1 | 5.2 |
| 1 | .0 | .4 | 1.6 | 2.8 | .4 | .0 | 44 | .0 | 5.2 |
| 0 | .0 | .2 | 4.6 | 4.7 | .2 | .0 | 83 | .2 | 9.8 |
| -1 | .0 | .7 | 4.8 | 9.2 | .0 | .0 | 91 | 1.2 | 9.8 |
| -2 | .1 | 1.2 | 7.5 | 9.9 | .1 | .0 | 109 | .4 | 12.5 |
| -3 | .0 | 1.6 | 8.5 | 2.9 | .0 | .0 | 111 | .6 | 12.5 |
| -4 | .0 | 3.2 | 7.9 | 1.1 | .0 | .0 | 103 | .1 | 12.0 |
| -5 | .1 | 4.7 | 6.2 | .6 | .0 | .0 | 99 | .0 | 11.6 |
| -6 | .1 | 2.8 | 2.2 | .6 | .0 | .0 | 49 | .1 | 5.6 |
| -7/-8 | .1 | 2.6 | 1.6 | .0 | .0 | .0 | 37 | .0 | 4.3 |
| -9/-10 | .4 | .7 | .4 | .0 | .0 | .0 | 12 | .0 | 1.4 |
| -11/-13 | .0 | .0 | .1 | .0 | .0 | .0 | 1 | .0 | .1 |
| -14/-16 | .0 | .1 | .0 | .0 | .0 | .0 | 1 | .0 | .1 |
| TOTAL | 7 | | 398 | | 38 | | | 24 | 827 |
| | | 158 | | 242 | | 8 | 851 | | |
| PCT | .8 | 18.6 | 46.8 | 28.4 | 4.5 | .9 | 100.0 | 2.8 | 97.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | 5.1 | 4.4 | .0 | .0 | .0 | 9.5 |
| 3-4 | .0 | 5.2 | 9.8 | 1.2 | .0 | .0 | 16.0 |
| 5-6 | .0 | .3 | 4.9 | 1.5 | .0 | .0 | 6.7 |
| 7 | .0 | .6 | 3.1 | .2 | .0 | .0 | 3.9 |
| 8-9 | .0 | .0 | .6 | .9 | .0 | .0 | 1.5 |
| 10-11 | .0 | .0 | .3 | .3 | .0 | .0 | .6 |
| 12 | .0 | .0 | .0 | .6 | .0 | .0 | .6 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 11.4 | 23.0 | 4.7 | .0 | .0 | 39.1 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.5 | .0 | .0 | .0 | .0 | 1.8 |
| 1-2 | .3 | 4.1 | 2.4 | .0 | .0 | .0 | 6.9 |
| 3-4 | .0 | 2.1 | 3.1 | .6 | .0 | .0 | 5.8 |
| 5-6 | .0 | .0 | 2.1 | .1 | .0 | .0 | 2.2 |
| 7 | .0 | .0 | 2.3 | .1 | .0 | .0 | 2.3 |
| 8-9 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 8.0 | 10.2 | .8 | .0 | .0 | 19.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .2 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | 1.8 | .0 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .2 | .2 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.3 | .6 | .0 | .0 | .0 | 3.2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .4 | .3 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.0 | .6 | .1 | .0 | .0 | 1.7 |

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | 1.4 | .0 | .0 | .0 | .0 | 1.4 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .6 | .2 | .0 | .0 | .0 | .8 | .0 | .4 | 1.1 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .0 | .8 | .0 | .0 | .0 | .8 | .3 | .2 | .8 | .0 | .0 | .0 | 1.3 |
| 5-6 | .0 | .0 | .6 | .0 | .0 | .0 | .6 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .3 | .2 | .0 | .0 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.9 | 1.9 | .2 | .0 | .0 | 4.1 | .3 | 1.1 | 2.6 | .0 | .0 | .0 | 4.0 |

| | W | | | | | | | NW | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .6 | .6 | .0 | .0 | .0 | .0 | 1.1 | .4 | 1.3 | .3 | .0 | .0 | .0 | 2.0 | |
| 1-2 | .6 | 1.2 | .6 | .0 | .0 | .0 | 2.4 | .1 | 4.9 | 1.0 | .0 | .0 | .0 | 5.9 | |
| 3-4 | .0 | 1.9 | 1.5 | .0 | .0 | .0 | 3.4 | .0 | 3.2 | 2.1 | .4 | .0 | .0 | 5.7 | |
| 5-6 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .0 | .3 | 1.1 | .4 | .0 | .0 | 1.8 | |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | 1.5 | .0 | .0 | .0 | 1.9 | |
| 8-9 | .0 | .2 | .3 | .0 | .0 | .0 | .6 | .0 | .1 | .3 | .1 | .0 | .0 | .5 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | .7 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.1 | 4.3 | 2.4 | .0 | .0 | .0 | 7.8 | .5 | 10.2 | 6.2 | 1.6 | .0 | .0 | 18.5 | 98.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.6 | 5.8 | .3 | .0 | .0 | .0 | 9.7 | |
| 1-2 | 1.0 | 18.4 | 10.0 | .0 | .0 | .0 | 29.4 | |
| 3-4 | .3 | 12.9 | 18.1 | 2.3 | .0 | .0 | 33.7 | |
| 5-6 | .0 | 1.0 | 9.1 | 1.9 | .0 | .0 | 12.0 | |
| 7 | .0 | 1.3 | 7.1 | .3 | .0 | .0 | 8.7 | |
| 8-9 | .0 | .3 | 2.3 | 1.3 | .0 | .0 | 3.9 | |
| 10-11 | .0 | .0 | .3 | .3 | .0 | .0 | .6 | |
| 12 | .0 | .0 | .0 | 1.3 | .0 | .0 | 1.3 | |
| 13-16 | .0 | .3 | .3 | .0 | .0 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 4.9 | 40.1 | 47.6 | 7.4 | .0 | .0 | 100.0 | 309 |

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.0 | 10.4 | 17.9 | 6.2 | 3.8 | 1.0 | .4 | .2 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 211 | 4 |
| 6-7 | .0 | 1.8 | 6.2 | 6.2 | 6.2 | 2.6 | 1.2 | 1.6 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 130 | 6 |
| 8-9 | .0 | .6 | 1.6 | 2.8 | 6.8 | .8 | .4 | .8 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 70 | 6 |
| 10-11 | .0 | .4 | 1.8 | 2.0 | 2.0 | 1.4 | .2 | 1.0 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 46 | 6 |
| 12-13 | .0 | .0 | 1.2 | .6 | .2 | .2 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12 | 5 |
| >13 | .0 | .0 | .0 | .0 | .4 | .6 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7 | 8 |
| INDET | 2.8 | .4 | .6 | .4 | .2 | .2 | .2 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 26 | 3 |
| TOTAL | 24 | 68 | 147 | 91 | 97 | 34 | 13 | 20 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 502 | 5 |
| PCT | 4.8 | 13.5 | 29.3 | 18.1 | 19.3 | 6.8 | 2.6 | 4.0 | 1.4 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .6 | 2.3 | 1.4 | .0 | .0 | .0 | .0 | 4.3 | .0 | .0 | 4.8 | .0 | .0 | | .0 | 90.9 |
| NE | .6 | .0 | .9 | .0 | .0 | .0 | .0 | 1.4 | .0 | .0 | 1.4 | .0 | 1.2 | | .0 | 95.9 |
| E | .0 | .0 | 2.3 | .0 | .0 | .0 | .0 | 2.3 | .0 | .0 | 3.1 | .0 | .0 | | .0 | 94.5 |
| SE | 6.3 | .0 | .0 | .0 | .0 | .0 | .0 | 6.3 | .0 | 3.2 | .8 | .0 | .0 | | .0 | 89.7 |
| S | 4.7 | .9 | 5.6 | .0 | .0 | .0 | .0 | 11.2 | 5.1 | .0 | 4.7 | .0 | .0 | | .0 | 79.1 |
| SW | 5.8 | 5.0 | 1.7 | .0 | .0 | .0 | .0 | 12.4 | .4 | .0 | 2.9 | .0 | .8 | | .0 | 83.5 |
| W | 3.3 | 8.0 | 2.3 | .0 | .0 | .0 | .0 | 13.7 | .0 | .0 | 8.3 | .0 | .7 | | .0 | 77.3 |
| NW | 1.9 | 1.9 | 2.9 | .0 | .0 | .0 | .0 | 6.8 | .6 | .0 | 4.1 | .6 | .0 | | .0 | 88.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| TOT PCT | 2.0 | 2.4 | 2.0 | .0 | .0 | .0 | .0 | 6.5 | .5 | .1 | 4.2 | .1 | .3 | | .0 | 88.3 |
| TOT OBS: | 788 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.4 | 1.4 | .5 | .0 | .0 | .0 | .0 | 3.2 | .0 | .0 | 4.2 | .0 | .0 | | .0 | 92.6 |
| 06&09 | 2.3 | 2.9 | 2.3 | .0 | .0 | .0 | .0 | 7.6 | .6 | .0 | 2.3 | .6 | .0 | | .0 | 88.9 |
| 12&15 | 1.9 | 4.4 | 3.9 | .0 | .0 | .0 | .0 | 10.2 | 1.5 | .5 | 3.4 | .0 | .5 | | .0 | 84.0 |
| 18&21 | 2.9 | 1.0 | 1.5 | .0 | .0 | .0 | .0 | 5.4 | .0 | .0 | 6.3 | .0 | .5 | | .0 | 87.8 |
| TOT PCT | 2.1 | 2.4 | 2.0 | .0 | .0 | .0 | .0 | 6.5 | .5 | .1 | 4.1 | .1 | .3 | | .0 | 88.3 |
| TOT OBS: | 798 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .8 | 11.7 | 15.9 | 4.7 | .1 | .0 | | 33.2 | 13.9 | 32.7 | 34.2 | 34.0 | 36.2 | 34.8 | 27.1 | 32.8 | 33.6 |
| NE | .7 | 6.3 | 3.7 | .5 | .0 | .0 | | 11.2 | 10.1 | 12.3 | 22.8 | 8.6 | 2.6 | 7.8 | 12.5 | 10.4 | 15.0 |
| E | .6 | 2.5 | .5 | .2 | .0 | .0 | | 3.9 | 8.2 | 2.7 | 4.3 | 3.8 | 3.9 | 2.6 | 10.4 | 4.4 | 3.3 |
| SE | .6 | 1.9 | 1.1 | .3 | .0 | .0 | | 3.9 | 9.7 | 5.3 | 3.8 | 2.3 | 6.6 | 2.8 | 2.1 | 5.1 | 3.7 |
| S | .4 | 2.9 | 2.7 | .4 | .0 | .0 | | 6.5 | 11.1 | 4.3 | 4.9 | 9.0 | 10.5 | 7.4 | 7.9 | 7.0 | 3.9 |
| SW | .2 | 3.6 | 3.3 | .6 | .0 | .0 | | 7.7 | 11.9 | 8.0 | 7.6 | 7.1 | 6.6 | 8.4 | 7.1 | 7.0 | 8.6 |
| W | .4 | 4.7 | 3.1 | 1.2 | .1 | .0 | | 9.6 | 12.2 | 12.1 | 7.6 | 6.5 | 5.9 | 9.1 | 9.2 | 8.7 | 12.9 |
| NW | 1.3 | 8.2 | 10.1 | 3.1 | .1 | .0 | | 22.8 | 13.5 | 22.6 | 14.7 | 26.5 | 27.6 | 25.0 | 23.8 | 22.6 | 17.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.3 | | | | | | | 1.3 | .0 | .0 | .0 | 2.3 | .0 | 2.1 | .0 | 2.0 | 1.6 |
| TOT OBS | 54 | 359 | 947 | 95 | 3 | 0 | 858 | | 12.3 | 169 | 46 | 131 | 38 | 145 | 60 | 147 | 122 |
| TOT PCT | 6.3 | 41.8 | 40.4 | 11.1 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.9 | 18.0 | 10.3 | 1.0 | .0 | | 33.2 | 13.9 | 33.0 | 34.5 | 32.6 | 33.2 |
| NE | 3.1 | 6.7 | 1.2 | .3 | .0 | | 11.2 | 10.1 | 14.5 | 7.2 | 9.1 | 12.5 |
| E | 1.8 | 1.9 | .1 | .1 | .0 | | 3.9 | 8.2 | 3.0 | 3.8 | 4.9 | 3.9 |
| SE | 1.2 | 2.3 | .3 | .1 | .0 | | 3.9 | 9.7 | 5.0 | 3.3 | 2.6 | 4.5 |
| S | 1.3 | 4.1 | 1.1 | .0 | .0 | | 6.5 | 11.1 | 4.4 | 9.3 | 7.6 | 5.6 |
| SW | 1.9 | 3.8 | 1.8 | .2 | .0 | | 7.7 | 11.9 | 7.9 | 7.0 | 8.0 | 7.7 |
| W | 2.1 | 5.4 | 1.4 | .6 | .0 | | 9.6 | 12.2 | 11.2 | 6.4 | 9.1 | 10.6 |
| NW | 3.6 | 11.8 | 6.5 | .9 | .0 | | 22.8 | 13.5 | 20.9 | 26.8 | 24.6 | 20.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.3 | | | | | | 1.3 | .0 | .0 | 1.8 | 1.5 | 1.9 |
| TOT OBS | 173 | 463 | 194 | 28 | 0 | 858 | | 12.3 | 215 | 169 | 205 | 269 |
| TOT PCT | 20.2 | 54.0 | 22.6 | 3.3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

FEBRUARY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 6.0 | 40.0 | 45.6 | 7.9 | .5 | .0 | 12.1 | 100.0 | 215 |
| 06&09 | 1.8 | 4.1 | 48.2 | 39.6 | 11.2 | .0 | .0 | 12.5 | 100.0 | 169 |
| 12&15 | 1.5 | 4.4 | 42.9 | 36.6 | 14.1 | .5 | .0 | 12.5 | 100.0 | 205 |
| 18&21 | 1.9 | 5.2 | 41.6 | 39.8 | 11.2 | .4 | .0 | 12.3 | 100.0 | 269 |
| TOT | 11 | 43 | 359 | 347 | 95 | 3 | 0 | 12.3 | | 858 |
| PCT | 1.3 | 5.0 | 41.8 | 40.4 | 11.1 | .3 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.5 | 5.7 | 13.3 | 6.3 | | 4.7 |
| NE | 2.1 | 2.5 | 3.2 | 3.2 | | 5.1 |
| E | .4 | .4 | .8 | 1.0 | | 5.6 |
| SE | .3 | .4 | 2.0 | 1.3 | | 6.2 |
| S | 1.9 | .6 | 1.2 | 3.2 | | 5.3 |
| SW | 1.2 | 1.3 | 1.6 | 2.7 | | 5.5 |
| W | 1.3 | 1.3 | 2.6 | 4.3 | | 5.9 |
| NW | 4.9 | 4.2 | 8.8 | 6.0 | | 5.0 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .7 | .4 | .2 | .0 | | 2.4 |
| TOT OBS | 120 | 95 | 189 | 158 | 562 | 5.1 |
| TOT PCT | 21.4 | 16.9 | 33.6 | 28.1 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | .0 | 1.0 | 1.6 | 5.6 | 5.6 | 1.4 | .3 | .0 | .4 | 17.2 | |
| NE | .1 | .0 | * | .4 | 1.1 | 1.4 | * | .0 | .2 | 1.2 | 6.7 | |
| E | .2 | .0 | .0 | .3 | .7 | .1 | .1 | .0 | .0 | .2 | 1.2 | |
| SE | * | .0 | .0 | .2 | .6 | .7 | .3 | .2 | .0 | .4 | 1.6 | |
| S | .3 | .0 | .2 | .4 | 1.6 | 1.3 | .0 | .1 | .2 | .0 | 2.8 | |
| SW | .2 | .0 | .2 | .4 | 1.2 | .6 | .2 | * | .0 | .0 | 3.9 | |
| W | .7 | .0 | .4 | .5 | 2.4 | .7 | .8 | .0 | .0 | .2 | 4.0 | |
| NW | .5 | .7 | .4 | 1.6 | 4.4 | 3.3 | 1.5 | .3 | .4 | .0 | 10.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | 1.1 | |
| TOT OBS | 15 | 4 | 12 | 31 | 99 | 77 | 25 | 5 | 6 | 13 | 277 | 562 |
| TOT PCT | 2.7 | .7 | 2.1 | 5.5 | 17.6 | 13.7 | 4.4 | .9 | .7 | 2.3 | 49.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.9 | 2.8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| * OR >5000 | 2.6 | 3.7 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| * OR >3500 | 6.7 | 8.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| * OR >2000 | 18.0 | 21.7 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 |
| * OR >1000 | 31.0 | 38.6 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 |
| * OR >600 | 35.3 | 44.3 | 45.1 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 |
| * OR >300 | 35.6 | 45.7 | 46.9 | 47.3 | 47.4 | 47.4 | 47.4 | 47.4 |
| * OR >150 | 35.6 | 46.0 | 47.3 | 47.8 | 48.1 | 48.1 | 48.1 | 48.1 |
| * OR > 0 | 36.0 | 46.7 | 48.1 | 48.9 | 49.6 | 49.9 | 50.3 | 50.8 |
| TOTAL | 204 | 265 | 273 | 277 | 281 | 283 | 285 | 288 |

TOTAL NUMBER OF OBS: 567

PCT FREQ NH <5/8: 49.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 13.0 | 6.7 | 10.4 | 9.2 | 9.4 | 7.9 | 12.3 | 10.3 | 18.8 | 2.1 | 585 |

FEBRUARY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| <1/2 | NO PCP | .2 | .1 | .1 | * | .1 | .1 | .3 | .0 | .0 | .0 | .9 | |
| | TOT % | .3 | .1 | .1 | * | .1 | .1 | .3 | .1 | .0 | .0 | 1.0 | |
| | PCP | .2 | .1 | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 | .6 | |
| 1/2<1 | NO PCP | .1 | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .3 | |
| | TOT % | .3 | .1 | .0 | .0 | .0 | .0 | .1 | .4 | .0 | .0 | .9 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 1<2 | NO PCP | .3 | .0 | .0 | .0 | .1 | .2 | .3 | .3 | .0 | .0 | 1.0 | |
| | TOT % | .3 | .0 | .0 | .0 | .1 | .2 | .3 | .5 | .0 | .0 | 1.3 | |
| | PCP | .1 | .1 | .0 | .0 | .3 | .1 | .1 | .1 | .0 | .0 | .8 | |
| 2<5 | NO PCP | .3 | .3 | .1 | .0 | .0 | .2 | .1 | .3 | .0 | .0 | 1.4 | |
| | TOT % | .4 | .4 | .1 | .0 | .3 | .3 | .2 | .4 | .0 | .0 | 2.2 | |
| | PCP | 1.0 | .0 | .0 | .1 | .2 | .8 | 1.0 | .8 | .0 | .0 | 3.8 | |
| 5<10 | NO PCP | 10.2 | 2.2 | 1.8 | 1.1 | 1.5 | 2.7 | 2.3 | 5.2 | .0 | .1 | 27.2 | |
| | TOT % | 11.2 | 2.2 | 1.8 | 1.3 | 1.7 | 3.4 | 3.2 | 6.0 | .0 | .1 | 31.0 | |
| | PCP | .1 | * | .1 | .1 | .3 | .1 | .1 | .0 | .0 | .0 | .9 | |
| 10+ | NO PCP | 20.2 | 8.2 | 1.9 | 2.6 | 4.3 | 3.6 | 5.3 | 15.5 | .0 | 1.1 | 62.8 | |
| | TOT % | 20.3 | 8.2 | 2.0 | 2.7 | 4.7 | 3.7 | 5.5 | 15.5 | .0 | 1.1 | 63.7 | |
| | TOT OBS | | | | | | | | | | | | 788 |
| | TOT PCT | 32.7 | 10.9 | 4.1 | 4.0 | 6.8 | 7.7 | 9.5 | 23.0 | .0 | 1.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .3 | |
| <1/2 | 4-10 | .1 | .0 | .1 | * | .1 | .0 | .1 | .1 | .0 | | .5 | |
| | 11-21 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .1 | .1 | * | .1 | .1 | .3 | .1 | .0 | .0 | 1.0 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | 11-21 | .2 | .1 | .0 | .0 | .0 | .0 | .1 | .4 | .0 | | .8 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .1 | .0 | .0 | .0 | .0 | .1 | .4 | .0 | .0 | .9 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 1<2 | 4-10 | .3 | .0 | .0 | .0 | .1 | .2 | .3 | .1 | .0 | | .9 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .0 | .0 | .0 | .1 | .2 | .3 | .5 | .0 | .0 | 1.3 | |
| | 0-3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| 2<5 | 4-10 | .3 | .4 | .0 | .0 | .1 | .1 | .0 | .3 | .0 | | 1.3 | |
| | 11-21 | .0 | .0 | .0 | .0 | .1 | .2 | .1 | .1 | .0 | | .5 | |
| | 22+ | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | | .3 | |
| | TOT % | .4 | .4 | .1 | .0 | .3 | .3 | .2 | .4 | .0 | .0 | 2.2 | |
| | 0-3 | .3 | .2 | .6 | .0 | .1 | .0 | .0 | .1 | .0 | .1 | 1.4 | |
| 5<10 | 4-10 | 3.6 | 1.5 | 1.2 | .6 | .4 | 1.7 | 1.3 | 1.6 | .0 | | 11.9 | |
| | 11-21 | 5.2 | .3 | .1 | .5 | .9 | 1.4 | 1.4 | 2.6 | .0 | | 12.3 | |
| | 22+ | 2.1 | .2 | .0 | .1 | .3 | .3 | .5 | 1.8 | .0 | | 5.3 | |
| | TOT % | 11.2 | 2.2 | 1.8 | 1.3 | 1.7 | 3.4 | 3.2 | 6.0 | .0 | .1 | 31.0 | |
| | 0-3 | .3 | .4 | .1 | .6 | .3 | .2 | .2 | .9 | .0 | 1.1 | 4.1 | |
| 10+ | 4-10 | 8.9 | 4.6 | 1.4 | 1.2 | 2.3 | 1.8 | 3.2 | 6.5 | .0 | | 27.9 | |
| | 11-21 | 10.4 | 2.9 | .4 | .7 | 1.9 | 1.6 | 1.5 | 6.7 | .0 | | 26.1 | |
| | 22+ | 2.8 | .3 | .1 | .2 | .2 | .2 | .5 | 1.4 | .0 | | 5.6 | |
| | TOT % | 20.3 | 8.2 | 2.0 | 2.7 | 4.7 | 3.7 | 5.5 | 15.5 | .0 | 1.1 | 63.7 | |
| | TOT OBS | | | | | | | | | | | | 788 |
| | TOT PCT | 32.7 | 10.9 | 4.1 | 4.0 | 6.8 | 7.7 | 9.5 | 23.0 | .0 | 1.3 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.9 | 1.3 | 3.1 | 6.9 | 20.1 | 15.1 | 4.4 | .6 | .0 | 2.5 | 56.0 | 44.0 | 159 |
| 06&09 | 3.9 | .8 | 1.6 | 3.9 | 14.2 | 10.2 | 7.1 | .0 | .0 | 3.1 | 44.9 | 55.1 | 127 |
| 12&15 | 2.4 | .0 | 1.6 | 3.3 | 18.7 | 10.6 | 3.3 | .0 | 2.4 | 1.6 | 43.9 | 56.1 | 123 |
| 18&21 | 2.4 | .6 | 1.8 | 7.9 | 15.9 | 16.5 | 3.7 | 2.4 | .6 | 1.8 | 53.7 | 46.3 | 164 |
| TOT | 15 | 4 | 12 | 33 | 99 | 77 | 26 | 5 | 4 | 13 | 288 | 285 | 573 |
| PCT | 2.6 | .7 | 2.1 | 5.8 | 17.3 | 13.4 | 4.5 | .9 | .7 | 2.3 | 50.3 | 49.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .5 | .5 | .9 | 1.9 | 30.6 | 65.7 | 216 |
| 06&09 | 1.8 | 1.2 | 1.8 | 2.3 | 30.4 | 62.6 | 171 |
| 12&15 | 1.5 | 1.5 | 1.0 | 1.9 | 39.3 | 54.9 | 206 |
| 18&21 | .5 | .5 | 1.5 | 2.4 | 23.9 | 71.2 | 205 |
| TOT | 8 | 7 | 10 | 17 | 248 | 508 | 798 |
| PCT | 1.0 | .9 | 1.3 | 2.1 | 31.1 | 63.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.9 | 6.4 | 14.0 | 43.3 | 42.7 | 157 |
| 06&09 | 4.0 | 7.1 | 12.7 | 33.3 | 54.0 | 126 |
| 12&15 | 2.5 | 5.0 | 11.6 | 34.7 | 53.7 | 121 |
| 18&21 | 2.5 | 4.9 | 12.9 | 41.1 | 46.0 | 163 |
| TOT | 15 | 33 | 73 | 219 | 275 | 567 |
| PCT | 2.6 | 5.8 | 12.9 | 38.6 | 48.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | .0 | .3 | .3 | .5 | .0 | .0 | 7 | 1.2 |
| 65/69 | .0 | .0 | .0 | .5 | .7 | 2.6 | 3.1 | 1.9 | 51 | 8.8 |
| 60/64 | .0 | .0 | .0 | .5 | 5.9 | 16.2 | 13.9 | 9.1 | 265 | 45.6 |
| 55/59 | .0 | .0 | .0 | .2 | 7.2 | 10.5 | 13.8 | 7.2 | 226 | 38.9 |
| 50/54 | .0 | .0 | .0 | .0 | 1.4 | 1.2 | 2.4 | .3 | 31 | 5.3 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | 1 | .2 |
| TOTAL | 0 | 0 | 0 | 9 | 90 | 180 | 194 | 108 | 581 | 100.0 |
| PCT | .0 | .0 | .0 | 1.5 | 15.5 | 31.0 | 33.4 | 18.6 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .4 | .2 | .0 | .2 | .0 | .0 | .0 | .4 | .0 | .0 |
| 2.3 | .6 | .2 | .6 | .9 | .7 | .8 | 2.6 | .0 | .0 |
| 12.5 | 5.6 | 1.4 | 1.7 | 3.9 | 4.3 | 6.2 | 9.5 | .0 | .5 |
| 15.4 | 4.5 | 1.3 | .9 | 1.6 | 1.5 | 2.8 | 9.9 | .0 | 1.0 |
| 2.5 | .1 | .0 | .0 | .0 | .2 | .5 | 2.1 | .0 | .0 |
| .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 |
| 33.0 | 11.1 | 2.9 | 3.5 | 6.5 | 6.8 | 10.2 | 24.5 | .0 | 1.5 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 74 | 70 | 67 | 61 | 55 | 53 | 52 | 61.0 | 216 |
| 06&09 | 67 | 65 | 64 | 59 | 55 | 54 | 52 | 58.9 | 170 |
| 12&15 | 71 | 66 | 64 | 58 | 52 | 49 | 48 | 58.2 | 201 |
| 18&21 | 72 | 68 | 66 | 60 | 56 | 54 | 53 | 60.7 | 269 |
| TOT | 74 | 68 | 66 | 60 | 54 | 51 | 48 | 59.8 | 856 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.5 | 15.7 | 40.3 | 27.0 | 14.5 | 78 | 159 |
| 06&09 | .0 | 1.6 | 9.7 | 32.3 | 37.1 | 19.4 | 82 | 124 |
| 12&15 | .0 | .7 | 14.8 | 23.9 | 38.7 | 21.8 | 82 | 142 |
| 18&21 | .0 | 1.2 | 21.7 | 26.7 | 31.7 | 18.6 | 80 | 161 |
| TOT | 0 | 9 | 93 | 181 | 195 | 108 | 80 | 586 |

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

TABLE 17

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/13 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | 2 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .1 | .0 | .1 | .5 | .0 | 6 | .0 | .8 |
| 7/8 | .0 | .0 | .0 | .1 | .1 | .8 | .1 | .0 | 9 | .0 | 1.2 |
| 6 | .0 | .0 | .1 | .0 | .7 | 1.5 | .0 | .0 | 17 | .3 | 2.0 |
| 5 | .0 | .0 | .0 | .4 | .4 | 1.8 | .0 | .0 | 19 | .0 | 2.6 |
| 4 | .0 | .0 | .3 | .1 | 1.6 | .8 | .0 | .0 | 21 | .1 | 2.7 |
| 3 | .0 | .0 | .1 | .4 | 2.3 | 1.2 | .0 | .0 | 30 | .4 | 3.7 |
| 2 | .0 | .0 | .1 | 2.4 | 4.1 | .7 | .0 | .0 | 54 | .3 | 7.0 |
| 1 | .0 | .0 | .5 | 2.8 | 5.7 | .7 | .0 | .0 | 72 | .4 | 9.3 |
| 0 | .0 | .0 | .4 | 7.5 | 5.6 | .7 | .0 | .0 | 104 | .8 | 13.3 |
| -1 | .0 | .1 | 1.4 | 4.7 | 3.0 | .0 | .0 | .0 | 68 | .4 | 8.8 |
| -2 | .0 | .1 | 1.6 | 8.1 | 3.1 | .1 | .0 | .0 | 97 | .5 | 12.6 |
| -3 | .0 | .1 | 1.4 | 6.5 | 1.5 | .1 | .0 | .0 | 71 | .3 | 9.3 |
| -4 | .0 | .3 | 2.8 | 4.7 | .5 | .0 | .0 | .0 | 62 | .4 | 8.0 |
| -5 | .0 | .1 | 1.9 | 3.7 | .1 | .0 | .0 | .0 | 43 | .3 | 5.6 |
| -6 | .0 | .1 | 2.6 | 1.8 | .0 | .0 | .0 | .0 | 33 | .0 | 4.5 |
| -7/-8 | .0 | .4 | 1.5 | 1.1 | .4 | .0 | .0 | .0 | 25 | .0 | 3.4 |
| -9/-10 | .1 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | 4 | .0 | .5 |
| -11/-13 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | .1 |
| TOTAL | 1 | 13 | 110 | 329 | 215 | 63 | 6 | 1 | 738 | 31 | 707 |
| PCT | .1 | 1.8 | 14.9 | 44.6 | 29.1 | 8.5 | .8 | .1 | 100.0 | 4.2 | 95.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 2.2 | .0 | .0 | .0 | .0 | 2.5 |
| 1-2 | .7 | 6.0 | 2.6 | .0 | .0 | .0 | 9.3 |
| 3-4 | .0 | 2.7 | 6.1 | 1.2 | .0 | .0 | 10.1 |
| 5-6 | .0 | 1.0 | 4.2 | .0 | .0 | .0 | 5.2 |
| 7 | .0 | .0 | 1.4 | 2.3 | .0 | .0 | 3.7 |
| 8-9 | .0 | .0 | .6 | .3 | .0 | .0 | .9 |
| 10-11 | .0 | .0 | .0 | 1.0 | .0 | .0 | 1.0 |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 11.9 | 15.3 | 5.1 | .0 | .0 | 33.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.2 | .0 | .0 | .0 | .0 | 1.6 |
| 1-2 | .0 | 3.6 | 1.1 | .0 | .0 | .0 | 4.7 |
| 3-4 | .3 | 1.5 | .1 | .0 | .0 | .0 | 1.9 |
| 5-6 | .0 | .7 | 1.5 | .3 | .0 | .0 | 2.5 |
| 7 | .0 | .0 | .3 | .3 | .0 | .0 | .7 |
| 8-9 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 7.0 | 3.0 | 1.0 | .0 | .0 | 11.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 1-2 | .3 | 2.2 | .3 | .0 | .0 | .0 | 2.8 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.4 | .7 | .3 | .0 | .0 | 3.7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .3 | .7 | .3 | .0 | .0 | .0 | 1.4 |
| 3-4 | .0 | .0 | .3 | .3 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.6 | 1.0 | .7 | .0 | .0 | 3.6 |

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0031 SAN DIEGO 200 SW 29.6N 122.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .7 | 2.8 | .0 | .0 | .0 | .0 | 3.5 | .1 | 1.1 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .0 | .6 | 1.2 | .. | .0 | .0 | 1.7 | .3 | .3 | 1.2 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .3 | .2 | .2 | .0 | .0 | .8 | .0 | .3 | .4 | .1 | .0 | .0 | .8 |
| 5-6 | .0 | .3 | .3 | .0 | .0 | .0 | .7 | .0 | .7 | .3 | .3 | .0 | .0 | 1.3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | .0 | .7 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 4.1 | 1.7 | .2 | .0 | .0 | 6.7 | .4 | 2.4 | 2.9 | .4 | .0 | .0 | 6.1 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .6 | .5 | .0 | .0 | .0 | .0 | 1.1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.0 | |
| 1-2 | .0 | 1.7 | .6 | .0 | .0 | .0 | 2.3 | 1.0 | 3.1 | 2.3 | .0 | .0 | .0 | 6.4 | |
| 3-4 | .0 | .7 | .5 | .0 | .0 | .0 | 1.2 | .3 | 2.8 | 3.9 | .1 | .0 | .0 | 7.1 | |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | .0 | 1.7 | 3.9 | 1.3 | .0 | .0 | 6.9 | |
| 7 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | 2.6 | .7 | .0 | .0 | 3.2 | |
| 8-9 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .4 | .7 | .0 | .0 | 1.1 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | .0 | .7 | |
| 12 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | .7 | .0 | .0 | 1.1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 3.6 | 1.7 | .0 | .0 | .0 | 5.9 | 1.4 | 8.4 | 14.1 | 3.5 | .0 | .0 | 27.4 | 98.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.6 | 9.2 | .3 | .0 | .0 | .0 | 13.2 | |
| 1-2 | 3.0 | 18.2 | 9.6 | .0 | .0 | .0 | 30.7 | |
| 3-4 | .7 | 8.6 | 11.6 | 2.0 | .0 | .0 | 22.8 | |
| 5-6 | .0 | 4.3 | 10.9 | 2.0 | .0 | .0 | 17.2 | |
| 7 | .0 | .7 | 5.0 | 3.3 | .0 | .0 | 8.9 | |
| 8-9 | .0 | .3 | 1.3 | 1.3 | .0 | .0 | 3.0 | |
| 10-11 | .0 | .0 | .7 | 1.3 | .0 | .0 | 2.0 | |
| 12 | .0 | .0 | .7 | 1.0 | .0 | .0 | 1.7 | |
| 13-16 | .0 | .0 | .3 | .3 | .0 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.3 | 41.3 | 40.3 | 11.2 | .0 | .0 | 100.0 | 303 |

PERIOD: (OVER-ALL) 1950-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.6 | 11.8 | 13.2 | 5.4 | 2.4 | 1.0 | .6 | 1.0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 186 | 4 |
| 6-7 | .2 | 3.2 | 9.6 | 7.4 | 4.6 | 1.6 | 1.6 | 1.2 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 148 | 5 |
| 8-9 | .0 | 1.8 | 4.8 | 3.6 | 1.4 | .8 | 1.2 | .8 | 1.0 | .0 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 80 | 6 |
| 10-11 | .0 | .0 | 1.8 | 2.6 | 1.4 | .6 | 1.0 | .2 | 1.0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 44 | 7 |
| 12-13 | .0 | .0 | .4 | .6 | 1.0 | .6 | .6 | .0 | .6 | .4 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 22 | 9 |
| >13 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | 14 |
| INDET | .6 | .6 | .4 | .6 | .6 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 15 | 4 |
| TOTAL | 12 | 87 | 151 | 101 | 87 | 23 | 26 | 17 | 16 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 499 | 5 |
| PCT | 2.4 | 17.4 | 30.3 | 20.2 | 11.4 | 4.6 | 5.2 | 3.4 | 3.2 | .8 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .3 | 2.3 | .0 | .0 | .0 | .0 | .0 | 2.7 | 1.6 | .0 | 1.4 | .0 | .3 | .0 | .0 | 94.0 |
| NE | .0 | 1.6 | .0 | .0 | .0 | .0 | .0 | 1.6 | .0 | .0 | 2.3 | .0 | .0 | .0 | .0 | 96.1 |
| E | .0 | .0 | 3.3 | .0 | .0 | .0 | .0 | 3.3 | .0 | 4.3 | 15.2 | .0 | .0 | .0 | .0 | 77.2 |
| SE | 4.2 | .0 | 2.1 | .0 | .0 | .0 | .0 | 6.3 | .0 | .0 | 12.5 | .0 | .0 | .0 | .0 | 81.3 |
| S | 3.2 | .0 | 4.8 | .0 | .0 | .0 | .0 | 8.1 | .0 | .0 | 3.2 | .0 | .0 | .0 | .0 | 88.7 |
| SW | .0 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | 1.7 | .0 | 3.4 | .0 | .0 | .0 | .0 | 94.1 |
| W | .0 | 3.1 | .0 | .0 | .0 | .0 | .0 | 3.1 | 2.6 | .0 | .9 | .0 | .0 | .0 | .0 | 93.4 |
| NW | .0 | 2.7 | .0 | .0 | .0 | .0 | .0 | 2.7 | .8 | .0 | .2 | .0 | 1.3 | .0 | .0 | 95.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 |
| TOT PCT | .3 | 2.1 | .3 | .0 | .0 | .0 | .0 | 2.7 | 1.2 | .2 | 2.0 | .0 | .5 | .0 | .0 | 93.5 |
| TOT OBS: | 663 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .0 | 3.1 | .3 | .0 | .0 | .0 | .0 | 3.6 | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | 94.9 |
| 06&09 | .0 | 2.3 | .0 | .0 | .0 | .0 | .0 | 2.3 | 3.8 | .0 | 1.5 | .0 | .0 | .0 | .0 | 92.5 |
| 12&15 | .0 | 2.9 | .0 | .0 | .0 | .0 | .0 | 2.9 | .6 | .6 | 2.9 | .0 | 1.2 | .0 | .0 | 91.9 |
| 18&21 | 1.2 | .6 | .6 | .0 | .0 | .0 | .0 | 2.3 | 1.2 | .0 | 1.7 | .0 | .6 | .0 | .0 | 94.2 |
| TOT PCT | .3 | 2.2 | .3 | .0 | .0 | .0 | .0 | 2.8 | 1.2 | .1 | 1.9 | .0 | .4 | .0 | .0 | 93.5 |
| TOT OBS: | 674 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .6 | 17.2 | 21.3 | 5.2 | .0 | .0 | | 44.4 | 13.6 | 45.0 | 48.1 | 43.3 | 36.5 | 41.3 | 48.9 | 51.2 | 37.9 |
| NE | .1 | 4.6 | 4.7 | .4 | .0 | .0 | | 9.8 | 11.7 | 10.6 | 9.6 | 9.2 | 11.5 | 11.5 | 11.7 | 7.0 | 9.3 |
| E | .2 | 2.5 | 1.1 | .0 | .0 | .0 | | 3.8 | 8.9 | 3.4 | 3.8 | 3.3 | 4.2 | 3.2 | 7.4 | 2.2 | 6.2 |
| SE | .2 | 1.2 | .3 | .0 | .1 | .0 | | 1.9 | 9.7 | 2.3 | .0 | 2.0 | 4.2 | 1.0 | 2.1 | 1.8 | 2.6 |
| S | .2 | 1.4 | 1.0 | .0 | .0 | .0 | | 2.6 | 9.3 | 2.4 | 1.3 | 2.7 | 4.2 | 1.4 | .0 | 4.0 | 3.6 |
| SW | .5 | 2.4 | 1.8 | .1 | .0 | .0 | | 4.9 | 10.6 | 1.8 | 3.2 | 7.6 | 8.3 | 3.8 | 2.7 | 5.4 | 8.2 |
| W | .6 | 4.7 | 3.4 | .3 | .0 | .0 | | 9.0 | 10.5 | 6.8 | 14.1 | 6.3 | 12.5 | 12.3 | 9.0 | 6.0 | 12.4 |
| NW | .5 | 8.0 | 10.4 | 4.1 | .3 | .0 | | 23.1 | 14.7 | 27.8 | 19.9 | 23.9 | 18.8 | 24.6 | 18.1 | 21.6 | 19.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .6 | | | | | | | .6 | .0 | .0 | .0 | 1.8 | .0 | .8 | .0 | .8 | .0 |
| TOT OBS | 25 | 304 | 317 | 73 | 3 | 0 | 722 | | 12.8 | 154 | 39 | 112 | 24 | 124 | 47 | 125 | 97 |
| TOT PCT | 3.5 | 42.1 | 43.9 | 10.1 | .4 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.6 | 23.2 | 13.5 | 1.0 | .0 | | 44.4 | 13.6 | 45.6 | 42.1 | 43.6 | 45.6 |
| NE | 1.6 | 6.4 | 1.7 | * | .0 | | 9.8 | 11.7 | 10.4 | 9.6 | 11.5 | 8.0 |
| E | 1.7 | 1.9 | .3 | .0 | .0 | | 3.8 | 8.9 | 3.5 | 3.5 | 4.4 | 3.9 |
| SE | .6 | 1.1 | .1 | .1 | .0 | | 1.9 | 9.7 | 1.8 | 2.4 | 1.3 | 2.1 |
| S | .9 | 1.5 | .2 | .0 | .0 | | 2.6 | 9.3 | 2.2 | 2.9 | 1.0 | 3.8 |
| SW | 1.2 | 2.6 | 1.0 | .1 | .0 | | 4.9 | 10.6 | 2.1 | 7.7 | 3.5 | 6.6 |
| W | 2.5 | 5.1 | 1.4 | .1 | .0 | | 9.0 | 10.5 | 8.3 | 7.4 | 11.4 | 8.8 |
| NW | 2.8 | 11.6 | 7.2 | 1.5 | .0 | | 23.1 | 14.7 | 26.2 | 23.0 | 22.8 | 20.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .6 | | | | | | .6 | .0 | .0 | 1.5 | .6 | .5 |
| TOT OBS | 134 | 385 | 183 | 20 | 0 | 722 | | 12.8 | 193 | 196 | 171 | 222 |
| TOT PCT | 18.6 | 53.3 | 25.3 | 2.8 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1932-1974
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29.5N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.1 | 39.9 | 46.1 | 10.4 | .5 | .0 | 13.0 | 100.0 | 193 |
| 06&09 | 1.5 | .7 | 41.9 | 48.5 | 7.4 | .0 | .0 | 12.3 | 100.0 | 136 |
| 12&15 | .6 | 3.5 | 41.5 | 40.4 | 13.5 | .6 | .0 | 13.2 | 100.0 | 171 |
| 18&21 | .5 | 3.6 | 44.6 | 41.9 | 9.0 | .5 | .0 | 12.6 | 100.0 | 222 |
| TOT | 4 | 21 | 304 | 317 | 73 | 3 | 0 | 12.8 | | 722 |
| PCT | .6 | 2.9 | 42.1 | 43.9 | 10.1 | .4 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.2 | 8.6 | 19.2 | 10.9 | | 5.2 |
| NE | 4.0 | 1.8 | 3.0 | 1.8 | | 4.1 |
| E | .6 | .4 | .6 | .6 | | 4.7 |
| SE | .4 | .2 | .5 | .8 | | 5.5 |
| S | .5 | .3 | .9 | .7 | | 5.3 |
| SW | 1.5 | 1.1 | .8 | .6 | | 3.9 |
| W | 1.4 | 1.7 | 2.2 | 1.5 | | 4.8 |
| NW | 5.9 | 4.2 | 7.5 | 5.8 | | 4.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .2 | .0 | .2 | | 3.2 |
| TOT OBS | 111 | 86 | 160 | 106 | 463 | 4.9 |
| TOT PCT | 24.0 | 18.6 | 34.6 | 22.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .6 | 4.0 | 12.5 | 7.7 | .4 | .2 | .2 | .2 | 22.1 | |
| .0 | .0 | .1 | .8 | 1.5 | 1.7 | .0 | .0 | .0 | .0 | 6.5 | |
| .0 | .2 | .0 | .2 | .4 | .0 | .2 | .0 | .0 | .0 | 1.3 | |
| .0 | .5 | .0 | .3 | .1 | .0 | .0 | .2 | .0 | .0 | .9 | |
| .0 | .0 | .3 | .0 | .3 | .4 | .5 | .0 | .0 | .0 | 1.0 | |
| .0 | .0 | .1 | .1 | .1 | .8 | .2 | .0 | .0 | .0 | 2.6 | |
| .0 | .0 | .2 | .6 | 1.1 | 1.0 | .0 | .0 | .0 | .0 | 3.8 | |
| .0 | .0 | .4 | 2.2 | 5.3 | 3.2 | .2 | .0 | .1 | .1 | 11.9 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | |
| 0 | 3 | 8 | 38 | 99 | 68 | 7 | 1 | 2 | 1 | 236 | 463 |
| .0 | .6 | 1.7 | 8.2 | 21.4 | 14.7 | 1.5 | .2 | .4 | .2 | 51.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) ▪ OR >10 | ▪ OR >5 | ▪ OR >2 | ▪ OR >1 | ▪ OR >1/2 | ▪ OR >1/4 | ▪ OR >50YD | ▪ OR >0 |
|---|---|---|---|---|---|---|---|---|
| ▪ OR >6500 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| ▪ OR >5000 | .9 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| ▪ OR >3500 | 2.1 | 2.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| ▪ OR >2000 | 12.8 | 16.7 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| ▪ OR >1000 | 28.7 | 37.7 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1 |
| ▪ OR >600 | 34.9 | 46.0 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 |
| ▪ OR >300 | 36.4 | 47.8 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| ▪ OR >150 | 37.0 | 48.4 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| ▪ OR > 0 | 37.0 | 48.4 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| TOTAL | 173 | 226 | 228 | 228 | 228 | 228 | 228 | 228 |

TOTAL NUMBER OF OBS: 467

PCT FREQ NH <5/8: 51.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 10.8 | 7.5 | 12.8 | 8.9 | 10.1 | 3.9 | 11.6 | 15.1 | 19.3 .0 | 483 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| | NO PCP | .5 | .2 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | 1.4 | |
| | TOT % | .5 | .2 | .5 | .2 | .0 | .0 | .0 | .2 | .0 | .0 | 1.5 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | PCP | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | NO PCP | .3 | .0 | .0 | .0 | .1 | .1 | .2 | .0 | .0 | .3 | .8 | |
| | TOT % | .3 | .0 | .0 | .1 | .2 | .1 | .2 | .0 | .0 | .0 | .9 | |
| 5<10 | PCP | 1.2 | .0 | .1 | * | .1 | * | .2 | .5 | .0 | .0 | 2.1 | |
| | NO PCP | 11.7 | 3.1 | 1.4 | .3 | .2 | 1.0 | 3.2 | 6.1 | .0 | .0 | 27.1 | |
| | TOT % | 12.9 | 3.1 | 1.5 | .3 | .3 | 1.1 | 3.4 | 6.5 | .0 | .0 | 29.2 | |
| 10+ | PCP | .0 | .2 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .3 | |
| | NO PCP | 31.3 | 6.3 | 1.5 | 1.2 | 1.8 | 3.3 | 4.9 | 17.1 | .0 | .6 | 67.9 | |
| | TOT % | 31.3 | 6.4 | 1.5 | 1.2 | 1.8 | 3.3 | 5.0 | 17.2 | .0 | .6 | 68.2 | |
| | TOT OBS | | | | | | | | | | | | 658 |
| | TOT PCT | 44.9 | 9.7 | 3.5 | 1.8 | 2.4 | 4.5 | 8.7 | 23.9 | .0 | .6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .3 | .2 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | | 1.2 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .5 | .2 | .5 | .2 | .0 | .0 | .0 | .2 | .0 | .0 | 1.5 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .2 | .0 | .1 | * | .1 | .1 | .2 | .0 | .0 | | .8 | |
| | 11-21 | .2 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .0 | .1 | .1 | .2 | .1 | .2 | .0 | .0 | .0 | 1.1 | |
| 5<10 | 0-3 | .2 | .0 | .2 | .2 | .1 | .2 | .3 | .1 | .0 | .0 | 1.2 | |
| | 4-10 | 4.8 | 1.2 | .7 | .0 | .2 | .2 | 1.4 | 2.0 | .0 | | 10.4 | |
| | 11-21 | 6.6 | 1.7 | .6 | .2 | .1 | .5 | 1.7 | 3.3 | .0 | | 14.8 | |
| | 22+ | 1.3 | .2 | .0 | .0 | .0 | .1 | .1 | 1.1 | .0 | | 2.7 | |
| | TOT % | 12.8 | 3.1 | 1.5 | .3 | .3 | 1.1 | 3.5 | 6.5 | .0 | .0 | 29.1 | |
| 10+ | 0-3 | .4 | .1 | .1 | .1 | .1 | .3 | .2 | .2 | .0 | .6 | 2.1 | |
| | 4-10 | 12.2 | 3.2 | .8 | .9 | .9 | 1.8 | 2.8 | 6.4 | .0 | | 29.1 | |
| | 11-21 | 14.7 | 2.8 | .5 | * | .8 | 1.1 | 1.8 | 7.3 | .0 | | 29.0 | |
| | 22+ | 4.2 | .3 | .0 | .2 | .0 | .0 | .2 | 3.2 | .0 | | 8.0 | |
| | TOT % | 31.5 | 6.4 | 1.5 | 1.2 | 1.8 | 3.2 | 5.0 | 17.0 | .0 | .6 | 68.2 | |
| | TOT OBS | | | | | | | | | | | | 663 |
| | TOT PCT | 45.1 | 9.6 | 3.6 | 1.8 | 2.3 | 4.5 | 8.7 | 23.7 | .0 | .6 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1932-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00E03 | .0 | .0 | 2.0 | 9.0 | 20.1 | 15.7 | .7 | .7 | 1.5 | .0 | 50.7 | 49.3 | 134 |
| 06E09 | .0 | 1.0 | 1.0 | 5.9 | 20.8 | 14.9 | 2.0 | .0 | .0 | 1.0 | 46.5 | 53.5 | 101 |
| 12E15 | .0 | .9 | .9 | 6.5 | 22.4 | 15.9 | .9 | .0 | .0 | .0 | 47.7 | 52.3 | 107 |
| 18E21 | .0 | .8 | 1.5 | 10.8 | 21.5 | 12.3 | 2.3 | .0 | .0 | .0 | 49.2 | 50.8 | 130 |
| TOT | 0 | 3 | 8 | 39 | 100 | 69 | 7. | 1 | 2 | 1 | 230 | 242 | 472 |
| PCT | .0 | .6 | 1.7 | 8.3 | 21.2 | 14.6 | 1.5 | .2 | .4 | .2 | 48.7 | 51.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00E03 | .5 | 1.5 | .0 | 1.0 | 27.2 | 69.7 | 195 |
| 06E09 | .0 | .7 | .0 | 2.2 | 27.6 | 69.4 | 134 |
| 12E15 | .0 | 2.3 | .0 | .6 | 36.8 | 60.3 | 174 |
| 18E21 | .0 | 1.2 | .0 | .6 | 25.1 | 73.1 | 171 |
| TOT | 1 | 10 | 0 | 7 | 197 | 459 | 674 |
| PCT | .1 | 1.5 | .0 | 1.0 | 29.2 | 68.1 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00E03 | .0 | 3.0 | 12.0 | 39.1 | 48.9 | 133 |
| 06E09 | .0 | 2.0 | 10.0 | 37.0 | 53.0 | 100 |
| 12E15 | .0 | 1.9 | 8.6 | 39.0 | 52.4 | 105 |
| 18E21 | .0 | 2.3 | 13.2 | 35.7 | 51.2 | 129 |
| TOT | 0 | 11 | 52 | 176 | 239 | 467 |
| PCT | .0 | 2.4 | 11.1 | 37.7 | 51.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 79/79 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | 1 | .2 |
| 70/74 | .0 | .0 | .2 | .0 | 1.4 | .6 | .4 | .2 | 14 | 2.8 |
| 65/69 | .0 | .2 | .0 | .6 | 1.6 | 3.6 | 3.0 | .6 | 48 | 9.6 |
| 60/64 | .0 | .0 | .4 | 1.6 | 7.4 | 12.0 | 12.6 | 3.4 | 187 | 37.5 |
| 55/59 | .0 | .0 | .4 | .6 | 6.8 | 19.2 | 15.4 | 4.0 | 232 | 46.5 |
| 50/54 | .0 | .0 | .0 | .2 | .8 | .6 | 1.8 | .2 | 17 | 3.4 |
| TOTAL | 0 | 1 | 5 | 15 | 90 | 180 | 166 | 42 | 499 | 100.0 |
| PCT | .0 | .2 | 1.0 | 3.0 | 18.0 | 36.1 | 33.3 | 8.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 |
| | .9 | .8 | .2 | .2 | .0 | .2 | .0 | .5 | .0 | .0 |
| | 4.4 | 1.1 | .2 | .3 | .0 | .3 | 1.0 | 2.6 | .0 | .0 |
| | 16.3 | 3.3 | 1.7 | .7 | 1.2 | 3.3 | 4.2 | 8.6 | .0 | .4 |
| | 24.8 | 4.6 | .4 | .7 | 1.1 | 1.2 | 1.9 | 11.5 | .0 | .4 |
| | 1.6 | .0 | .2 | .0 | .1 | .1 | .0 | 1.4 | .0 | .0 |
| | 47.9 | 9.7 | 2.6 | 1.9 | 2.4 | 5.0 | 7.0 | 22.7 | .0 | .8 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 75 | 74 | 69 | 60 | 55 | 53 | 52 | 60.8 | 195 |
| 06E09 | 70 | 68 | 64 | 59 | 54 | 52 | 51 | 58.8 | 136 |
| 12E15 | 70 | 67 | 64 | 58 | 54 | 54 | 53 | 58.5 | 173 |
| 18E21 | 74 | 72 | 68 | 60 | 55 | 52 | 52 | 60.6 | 224 |
| TOT | 75 | 71 | 67 | 59 | 53 | 53 | 51 | 59.8 | 728 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00E03 | .0 | 4.2 | 20.8 | 45.8 | 21.5 | 7.6 | 75 | 144 |
| 06E09 | .0 | 3.8 | 14.3 | 40.0 | 29.5 | 12.4 | 78 | 105 |
| 12E15 | .0 | 2.6 | 13.9 | 27.0 | 48.7 | 7.8 | 80 | 115 |
| 18E21 | .0 | 5.7 | 21.3 | 29.8 | 36.2 | 7.1 | 77 | 141 |
| TOT | 0 | 21 | 91 | 181 | 169 | 43 | 77 | 505 |

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

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29.5N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | 1 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .2 | .0 | .5 | 4 | .0 | .6 |
| 9/10 | .0 | .0 | .0 | .3 | .2 | 1.1 | .2 | 11 | .0 | 1.7 |
| 7/8 | .0 | .0 | .0 | .0 | .8 | .6 | .0 | 9 | .0 | 1.4 |
| 6 | .0 | .0 | .0 | .2 | 1.1 | .5 | .0 | 11 | .0 | 1.7 |
| 5 | .0 | .0 | .2 | .6 | 1.1 | .3 | .0 | 14 | .2 | 2.0 |
| 4 | .0 | .2 | 1.3 | 1.9 | 1.3 | .0 | .0 | 29 | .2 | 4.4 |
| 3 | .0 | .2 | .6 | 1.9 | .5 | .2 | .0 | 21 | .2 | 3.1 |
| 2 | .0 | .2 | .8 | 3.3 | .6 | .2 | .0 | 32 | .2 | 4.9 |
| 1 | .0 | .2 | 1.9 | 4.1 | .5 | .0 | .0 | 42 | .2 | 6.4 |
| 0 | .3 | .6 | 3.8 | 5.3 | .5 | .0 | .0 | 80 | .2 | 12.4 |
| -1 | .0 | .8 | 7.0 | 3.1 | .2 | .0 | .0 | 71 | .5 | 10.6 |
| -2 | .0 | 2.8 | 7.5 | 2.3 | .0 | .0 | .0 | 81 | .3 | 12.4 |
| -3 | .0 | 2.7 | 9.2 | .8 | .0 | .0 | .0 | 81 | .3 | 12.4 |
| -4 | .0 | 3.9 | 5.8 | .6 | .0 | .0 | .0 | 66 | .0 | 10.3 |
| -5 | .3 | 3.1 | 3.3 | .2 | .0 | .0 | .0 | 44 | .0 | 6.9 |
| -6 | .0 | 1.4 | 1.1 | .0 | .0 | .0 | .0 | 16 | .0 | 2.5 |
| -7/-8 | .2 | 1.7 | 1.6 | .3 | .0 | .0 | .0 | 24 | .0 | 3.8 |
| -9/-10 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | .2 |
| -11/-13 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | .2 |
| TOTAL | 6 | | 294 | | 43 | | 5 | 639 | 13 | 626 |
| PCT | .9 | 17.8 | 46.0 | 24.9 | 6.7 | 2.8 | .8 | 100.0 | 2.0 | 98.0 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 3.2 | .7 | .0 | .0 | .0 | 4.2 |
| 1-2 | .0 | 7.5 | 4.2 | .0 | .0 | .0 | 11.6 |
| 3-4 | .4 | 6.0 | 8.3 | .7 | .0 | .0 | 15.4 |
| 5-6 | .0 | 1.4 | 7.7 | 1.0 | .0 | .0 | 10.2 |
| 7 | .0 | .8 | 3.5 | 2.8 | .0 | .0 | 7.1 |
| 8-9 | .0 | .0 | 1.0 | 1.0 | .0 | .0 | 2.1 |
| 10-11 | .0 | .0 | .8 | .4 | .0 | .0 | 1.1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 17-19 | .0 | .0 | .0 | .4 | .0 | .0 | .4 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 18.9 | 26.5 | 6.3 | .0 | .0 | 52.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 1.9 | 1.8 | .0 | .0 | .0 | 3.7 |
| 3-4 | .0 | .7 | .1 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .0 | 1.5 | .0 | .0 | .0 | 1.5 |
| 7 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .4 | .0 | .0 | .4 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 3.1 | 3.6 | .6 | .0 | .0 | 7.3 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | .6 | .0 | .0 | .0 | 1.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | .4 | .4 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .8 | .1 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.5 | .6 | .0 | .0 | .0 | 2.3 |

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .3 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .9 | .3 | .0 | .0 | .0 | 1.5 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .5 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .0 | 1.2 | .4 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .5 | .4 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.2 | 1.3 | .0 | .0 | .0 | 3.9 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .3 | 3.0 | .0 | .0 | .0 | .0 | 3.3 |
| 3-4 | .0 | 1.4 | 1.2 | .0 | .0 | .0 | 2.6 |
| 5-6 | .0 | .0 | .9 | .0 | .0 | .0 | .9 |
| 7 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 4.7 | 2.2 | .0 | .0 | .0 | 7.2 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1-2 | .1 | 4.2 | 1.2 | .0 | .0 | .0 | 5.6 | |
| 3-4 | .0 | 4.6 | 1.7 | .1 | .0 | .0 | 6.4 | |
| 5-6 | .0 | .5 | 3.7 | .5 | .0 | .0 | 4.6 | |
| 7 | .0 | .1 | 1.7 | 1.9 | .0 | .0 | 3.7 | |
| 8-9 | .0 | .0 | 1.2 | .1 | .0 | .0 | 1.3 | |
| 10-11 | .0 | .0 | .0 | .8 | .0 | .0 | .8 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .4 | .0 | .0 | .4 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .1 | 9.4 | 9.5 | 3.7 | .0 | .0 | 22.7 | 98.9 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.6 | 5.7 | .8 | .0 | .0 | .0 | 9.1 | |
| 1-2 | .4 | 18.5 | 7.9 | .0 | .0 | .0 | 26.8 | |
| 3-4 | .4 | 14.3 | 12.1 | .8 | .0 | .0 | 27.5 | |
| 5-6 | .0 | 1.9 | 14.7 | 1.5 | .0 | .0 | 18.1 | |
| 7 | .0 | 1.1 | 5.7 | 4.9 | .0 | .0 | 11.7 | |
| 8-9 | .0 | .0 | 2.3 | 1.1 | .0 | .0 | 3.4 | |
| 10-11 | .0 | .0 | .8 | 1.5 | .0 | .0 | 2.3 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .4 | .4 | .0 | .0 | .8 | |
| 17-19 | .0 | .0 | .0 | .4 | .0 | .0 | .4 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 265 |
| TOT PCT | 3.4 | 41.5 | 44.5 | 10.6 | .0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 8.2 | 12.3 | 8.2 | 5.1 | 1.4 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 136 | 4 |
| 6-7 | .0 | 2.9 | 5.1 | 6.5 | 5.3 | 3.4 | 2.9 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 111 | 6 |
| 8-9 | .0 | .0 | 2.7 | 2.2 | 5.3 | 5.1 | 1.0 | 1.0 | .0 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 78 | 7 |
| 10-11 | .0 | .2 | 1.4 | .5 | 1.0 | 1.9 | 1.0 | 1.4 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 38 | 8 |
| 12-13 | .0 | .0 | .5 | .5 | .2 | .2 | 1.0 | .5 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14 | 9 |
| >13 | .0 | .0 | .0 | .2 | .2 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9 | 8 |
| INDET | .5 | 1.2 | .0 | 1.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 21 | 5 |
| TOTAL | 8 | 52 | 91 | 79 | 82 | 50 | 28 | 14 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 413 | 6 |
| PCT | 1.9 | 12.5 | 21.9 | 19.0 | 19.8 | 12.0 | 6.7 | 3.4 | 1.7 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .0 | .2 | .7 | .0 | .0 | .0 | .0 | .9 | .7 | .0 | 1.3 | .0 | .4 | | .2 | 96.4 |
| NE | 1.7 | .0 | 1.7 | .0 | .0 | .0 | .0 | 3.3 | 1.7 | 1.7 | 1.7 | .0 | .4 | | .0 | 92.9 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7.5 | .0 | | .0 | 92.5 |
| SE | .0 | .0 | 34.8 | .0 | .0 | .0 | .0 | 34.8 | 4.3 | .0 | .0 | 4.3 | .0 | | .0 | 56.5 |
| S | .0 | 7.4 | 18.0 | .0 | .0 | .0 | .0 | 20.4 | 5.6 | .0 | .0 | 11.1 | .0 | | .0 | 62.0 |
| SW | 5.8 | .0 | 1.0 | .0 | .0 | .0 | .0 | 6.7 | 5.8 | 1.0 | .0 | 1.0 | 3.8 | | .0 | 88.7 |
| W | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | 2.4 | 1.6 | 1.2 | 1.8 | .0 | 2.8 | | .0 | 90.6 |
| NW | .3 | .7 | 1.2 | .0 | .0 | .0 | .0 | 2.2 | 1.9 | .0 | .9 | .0 | 1.4 | | .0 | 93.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| TOT PCT | .5 | .4 | 1.3 | .0 | .0 | .0 | .0 | 2.3 | 1.4 | .2 | 1.1 | .3 | 1.0 | | .1 | 93.7 |
| TOT OBS: | 924 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .4 | .4 | .4 | .0 | .0 | .0 | .0 | 1.1 | .4 | .0 | 1.1 | .4 | .7 | | .0 | 96.4 |
| 06&09 | .0 | 1.0 | 2.0 | .0 | .0 | .0 | .0 | 3.0 | 1.9 | .8 | 1.8 | .5 | 1.0 | | .0 | 92.0 |
| 12&15 | .9 | .5 | 2.3 | .0 | .0 | .0 | .0 | 3.6 | 1.4 | .5 | 1.4 | .5 | .9 | | .0 | 92.3 |
| 18&21 | .8 | .4 | .8 | .0 | .0 | .0 | .0 | 2.1 | 2.5 | .0 | 1.0 | .0 | 1.2 | | .4 | 92.2 |
| TOT PCT | .5 | .5 | 1.3 | .0 | .0 | .0 | .0 | 2.3 | 1.4 | .2 | 1.4 | .3 | 1.0 | | .1 | 93.4 |
| TOT OBS: | 938 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 11.6 | 25.9 | 5.5 | .1 | .0 | | 43.9 | 14.5 | 44.7 | 48.9 | 37.4 | 47.0 | 40.9 | 30.5 | 45.8 | 47.5 |
| NE | .1 | 3.6 | 3.2 | .4 | .0 | .0 | | 7.3 | 11.6 | 3.5 | 9.6 | 6.5 | 6.1 | 5.7 | 12.3 | 6.7 | 12.1 |
| E | .3 | .7 | .3 | .1 | .0 | .0 | | 1.4 | 8.4 | 2.0 | 2.1 | 2.8 | .0 | .6 | .0 | .5 | 1.3 |
| SE | * | .5 | * | .0 | .0 | .0 | | .6 | 6.6 | .3 | .0 | .7 | .0 | 1.0 | .0 | 1.1 | .0 |
| S | .3 | .8 | .6 | .0 | .0 | .0 | | 1.7 | 9.5 | 1.5 | .0 | 2.1 | .0 | 2.4 | 1.0 | 1.6 | 2.1 |
| SW | .3 | .7 | 1.7 | .0 | .0 | .0 | | 2.7 | 12.7 | 3.6 | .0 | 5.9 | .8 | 1.3 | 1.0 | 2.0 | 1.7 |
| W | .6 | 3.7 | 2.5 | .2 | .0 | .0 | | 7.0 | 10.6 | 8.0 | 7.4 | 8.0 | 5.3 | 7.2 | 1.0 | 6.3 | 7.3 |
| NW | 1.0 | 9.4 | 19.8 | 3.9 | .0 | .0 | | 34.1 | 14.1 | 34.1 | 31.9 | 34.8 | 40.9 | 36.8 | 34.3 | 34.4 | 28.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.4 | | | | | | | 1.4 | .0 | .4 | .0 | 1.8 | .0 | 4.1 | .0 | 1.6 | .0 |
| TOT OBS | 47 | 310 | 543 | 102 | 1 | 0 | 1003 | | 13.4 | 229 | 47 | 169 | 33 | 170 | 91 | 184 | 120 |
| TOT PCT | 4.7 | 30.9 | 54.1 | 10.2 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.3 | 24.9 | 13.5 | 1.2 | .0 | | 43.9 | 14.5 | 45.4 | 39.0 | 43.1 | 46.5 |
| NE | 1.2 | 5.1 | .9 | .0 | .0 | | 7.3 | 11.6 | 6.2 | 6.4 | 7.2 | 8.8 |
| E | .6 | .7 | .1 | .0 | .0 | | 1.4 | 8.4 | 2.0 | 2.4 | .5 | .8 |
| SE | .3 | .3 | .0 | .0 | .0 | | .6 | 6.6 | .3 | .6 | .8 | .7 |
| S | .6 | 1.1 | .0 | .0 | .0 | | 1.7 | 9.5 | 1.3 | 1.7 | 2.0 | 1.8 |
| SW | .4 | 1.7 | .6 | .0 | .0 | | 2.7 | 12.7 | 3.0 | 5.1 | 1.2 | 1.9 |
| W | 1.6 | 4.5 | .7 | .1 | .0 | | 7.0 | 10.6 | 7.9 | 7.5 | 5.8 | 6.7 |
| NW | 3.2 | 20.2 | 10.1 | .7 | .0 | | 34.1 | 14.1 | 33.7 | 35.8 | 38.2 | 31.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.4 | | | | | | 1.4 | .0 | .4 | 1.3 | 3.2 | 1.0 |
| TOT OBS | 135 | 587 | 261 | 20 | 0 | 1003 | | 13.4 | 276 | 202 | 221 | 304 |
| TOT PCT | 13.5 | 58.5 | 26.0 | 2.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

APRIL

PERIOD: (PRIMARY) 1945-1972
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | 4.0 | 29.0 | 55.1 | 11.6 | .0 | .0 | 13.8 | 100.0 | 276 |
| 06&09 | 1.5 | 2.5 | 31.2 | 55.0 | 9.9 | .0 | .0 | 13.3 | 100.0 | 202 |
| 12&15 | 3.2 | .5 | 34.4 | 53.8 | 7.7 | .5 | .0 | 13.2 | 100.0 | 221 |
| 18&21 | 1.0 | 5.3 | 29.9 | 53.0 | 10.9 | .0 | .0 | 13.2 | 100.0 | 304 |
| TOT | 14 | 33 | 310 | 543 | 102 | 1 | 0 | 13.4 | | 1003 |
| PCT | 1.4 | 3.3 | 30.9 | 54.1 | 10.2 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.6 | 6.4 | 18.4 | 8.4 | | 5.1 |
| NE | 1.4 | .7 | 2.3 | 1.6 | | 5.2 |
| E | .3 | .3 | .7 | .2 | | 5.0 |
| SE | .1 | .0 | .1 | .6 | | 6.9 |
| S | .0 | .0 | 1.0 | .7 | | 6.8 |
| SW | 1.0 | .7 | 1.3 | .6 | | 4.4 |
| W | 1.8 | 1.1 | 2.9 | 1.4 | | 4.7 |
| NW | 6.9 | 6.1 | 13.9 | 8.9 | | 5.2 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .0 | .4 | .9 | | 6.1 |
| TOT OBS | 151 | 113 | 302 | 172 | 738 | 5.2 |
| TOT PCT | 20.5 | 15.3 | 40.9 | 23.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .0 | .4 | .3 | 2.9 | 11.9 | 6.4 | 1.7 | .6 | .1 | .0 | 17.5 | |
| NE | .0 | .1 | .3 | .1 | 1.9 | .5 | .1 | * | .0 | .0 | 2.8 | |
| E | .0 | .0 | .1 | .0 | .3 | .4 | .0 | .0 | .0 | .0 | .7 | |
| SE | .0 | .0 | .0 | .4 | .2 | .0 | .0 | .0 | .0 | .0 | .1 | |
| S | .0 | .0 | .0 | .7 | .2 | .1 | .1 | .0 | .0 | .0 | .5 | |
| SW | .0 | .0 | * | .5 | .4 | .3 | .0 | .0 | .0 | .0 | 2.3 | |
| W | .0 | .1 | .3 | .6 | 1.8 | .3 | .2 | .0 | .1 | .0 | 3.6 | |
| NW | .0 | * | .5 | 2.8 | 9.3 | 7.7 | .4 | .3 | .5 | .3 | 14.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .0 | 1.1 | .0 | .0 | .0 | .0 | .0 | .5 | |
| TOT OBS | 0 | 5 | 13 | 60 | 201 | 116 | 19 | 7 | 5 | 2 | 310 | 738 |
| TOT PCT | .0 | .7 | 1.8 | 8.1 | 27.2 | 15.7 | 2.6 | .9 | .7 | .3 | 42.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .7 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | 1.3 | 1.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 3.2 | 3.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| * OR >2000 | 19.9 | 19.4 | 20.1 | 20.1 | 20.2 | 20.2 | 20.2 | 20.2 |
| * OR >1000 | 37.5 | 46.5 | 47.4 | 47.4 | 47.6 | 47.6 | 47.6 | 47.6 |
| * OR >600 | 42.5 | 53.5 | 55.0 | 55.4 | 55.5 | 55.5 | 55.5 | 55.5 |
| * OR >300 | 43.5 | 55.1 | 56.7 | 57.1 | 57.3 | 57.3 | 57.3 | 57.3 |
| * OR >150 | 44.1 | 55.7 | 57.4 | 57.8 | 58.0 | 58.0 | 58.0 | 58.0 |
| * OR > 0 | 44.1 | 55.7 | 57.4 | 57.8 | 58.0 | 58.0 | 58.0 | 58.0 |
| TOTAL | 327 | 413 | 426 | 429 | 430 | 430 | 430 | 430 |

TOTAL NUMBER OF OBS: 742

PCT FREQ NH <5/8: 42.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 7.3 | 5.5 | 11.9 | 10.3 | 7.3 | 8.4 | 12.6 | 17.1 | 19.4 | .0 | 770 |

APRIL

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .8 | |
| | TOT % | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .8 | |
| | PCP | .0 | .0 | .0 | .0 | .1 | * | .1 | .0 | .0 | .0 | .2 | |
| 1<2 | NO PCP | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | .1 | |
| | TOT % | .0 | .0 | .0 | .0 | .2 | .1 | .1 | .0 | .0 | .0 | .3 | |
| | PCP | .0 | .1 | .0 | .1 | .0 | .1 | .0 | .1 | .0 | .0 | .4 | |
| 2<5 | NO PCP | .4 | .1 | .0 | * | .1 | .3 | .1 | .1 | .0 | .0 | 1.2 | |
| | TOT % | .4 | .2 | .0 | .1 | .1 | .4 | .1 | .2 | .0 | .0 | 1.6 | |
| | PCP | .3 | .1 | .0 | .1 | .0 | .1 | .1 | .4 | .0 | .0 | 1.1 | |
| 5<10 | NO PCP | 10.0 | 1.2 | .3 | * | .3 | .2 | 1.4 | 8.3 | .0 | .0 | 21.7 | |
| | TOT % | 10.3 | 1.3 | .3 | .1 | .3 | .2 | 1.5 | 8.7 | .0 | .0 | 22.8 | |
| | PCP | .1 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .5 | |
| 10+ | NO PCP | 32.6 | 4.9 | 1.1 | .4 | .7 | 2.1 | 5.2 | 25.5 | .0 | 1.5 | 74.0 | |
| | TOT % | 32.6 | 4.9 | 1.1 | .4 | .9 | 2.1 | 5.2 | 25.8 | .0 | 1.5 | 74.5 | |
| | TOT OBS | | | | | | | | | | | | 923 |
| | TOT PCT | 43.9 | 6.5 | 1.4 | .6 | 1.5 | 2.8 | 6.9 | 34.9 | .0 | 1.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | 4-10 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .5 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .8 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1<2 | 4-10 | .0 | .0 | .0 | .0 | .2 | .1 | .1 | .0 | .0 | | .3 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .2 | .1 | .1 | .0 | .0 | .0 | .3 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | 4-10 | .3 | .1 | .0 | .1 | .1 | .1 | .1 | .0 | .0 | | .9 | |
| | 11-21 | .1 | .1 | .0 | .0 | .0 | .3 | .0 | .2 | .0 | | .8 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .4 | .2 | .0 | .1 | .1 | .4 | .1 | .2 | .0 | .0 | 1.6 | |
| | 0-3 | .2 | .1 | .1 | * | .2 | .1 | .1 | .1 | .0 | .0 | .9 | |
| 5<10 | 4-10 | 3.2 | .6 | .2 | .1 | .0 | .0 | .6 | 3.1 | .0 | | 7.8 | |
| | 11-21 | 6.0 | .6 | .0 | .0 | .1 | .1 | .6 | 4.9 | .0 | | 12.3 | |
| | 22+ | .9 | .0 | .0 | .0 | .0 | .0 | .1 | .7 | .0 | | 1.7 | |
| | TOT % | 10.3 | 1.3 | .3 | .1 | .3 | .2 | 1.5 | 8.7 | .0 | .0 | 22.7 | |
| | 0-3 | .5 | .1 | .2 | .0 | .1 | .2 | .4 | .6 | .0 | 1.5 | 3.6 | |
| 10+ | 4-10 | 6.8 | 2.5 | .5 | .3 | .5 | .5 | 2.6 | 6.5 | .0 | | 20.2 | |
| | 11-21 | 20.4 | 2.0 | .3 | * | .5 | 1.5 | 2.1 | 15.3 | .0 | | 42.1 | |
| | 22+ | 4.8 | .3 | .1 | .0 | .0 | .0 | .1 | 3.4 | .0 | | 8.7 | |
| | TOT % | 32.5 | 4.9 | 1.1 | .4 | 1.1 | 2.1 | 5.2 | 25.8 | .0 | 1.5 | 74.6 | |
| | TOT OBS | | | | | | | | | | | | 926 |
| | TOT PCT | 43.7 | 6.5 | 1.4 | .6 | 1.7 | 2.8 | 6.9 | 34.9 | .0 | 1.5 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .5 | 1.4 | 8.1 | 23.9 | 14.9 | 2.7 | 1.4 | .9 | .0 | 53.6 | 46.4 | 222 |
| 06&09 | .0 | .0 | 1.8 | 8.5 | 20.6 | 16.4 | 2.4 | 1.2 | 1.2 | .6 | 52.7 | 47.3 | 165 |
| 12&15 | .0 | .6 | 1.2 | 6.7 | 33.5 | 15.2 | 1.2 | .0 | .6 | .0 | 59.1 | 40.9 | 164 |
| 18&21 | .0 | 1.4 | 2.4 | 8.2 | 29.5 | 15.5 | 3.4 | 1.0 | .0 | .5 | 61.8 | 38.2 | 207 |
| TOT | 0 | 5 | 13 | 60 | 203 | 117 | 19 | 7 | 5 | 2 | 431 | 327 | 758 |
| PCT | .0 | .7 | 1.7 | 7.9 | 26.8 | 15.4 | 2.5 | .9 | .7 | .3 | 56.9 | 43.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.1 | .4 | .7 | 19.7 | 78.1 | 274 |
| 06&09 | .0 | 1.0 | .5 | 3.0 | 23.2 | 72.4 | 203 |
| 12&15 | .0 | .9 | .5 | 1.8 | 31.4 | 65.5 | 220 |
| 18&21 | .0 | .4 | .0 | 1.2 | 18.9 | 79.4 | 243 |
| TOT | 0 | 8 | 3 | 15 | 216 | 698 | 940 |
| PCT | .0 | .9 | .3 | 1.6 | 23.0 | 74.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.8 | 10.0 | 43.6 | 46.4 | 220 |
| 06&09 | .0 | 2.4 | 13.4 | 40.2 | 46.3 | 164 |
| 12&15 | .0 | 1.9 | 9.6 | 52.6 | 37.8 | 156 |
| 18&21 | .0 | 4.0 | 13.4 | 50.0 | 36.6 | 202 |
| TOT | 0 | 19 | 86 | 345 | 311 | 742 |
| PCT | .0 | 2.6 | 11.6 | 46.5 | 41.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | 1 | .1 |
| 70/74 | .0 | .0 | .1 | .3 | .0 | .0 | .0 | .0 | 3 | .4 |
| 65/69 | .0 | .0 | .1 | .7 | 1.6 | 1.8 | 2.2 | .3 | 49 | 6.7 |
| 60/64 | .0 | .0 | .1 | 2.3 | 7.1 | 14.8 | 11.5 | 3.0 | 284 | 38.8 |
| 55/59 | .0 | .0 | .0 | 2.5 | 9.8 | 20.1 | 14.5 | 4.8 | 378 | 51.6 |
| 50/54 | .0 | .0 | .0 | .1 | .3 | .3 | 1.2 | .4 | 17 | 2.3 |
| TOTAL | 0 | 0 | 3 | 44 | 138 | 270 | 215 | 62 | 732 | 100.0 |
| PCT | .0 | .0 | .4 | 6.0 | 18.9 | 36.9 | 29.4 | 8.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 |
| | 1.7 | .8 | .3 | .1 | .1 | .2 | .6 | 2.7 | .0 | .1 |
| | 17.5 | 2.0 | .5 | .4 | .6 | 1.5 | 2.4 | 13.3 | .0 | .5 |
| | 22.6 | 3.4 | .7 | .0 | .6 | 1.2 | 3.4 | 18.7 | .0 | 1.1 |
| | .6 | .2 | .2 | .0 | .0 | .0 | .3 | .8 | .0 | .1 |
| | 42.5 | 6.5 | 1.7 | .6 | 1.4 | 2.9 | 6.8 | 35.8 | .0 | 1.9 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 75 | 70 | 66 | 61 | 56 | 54 | 51 | 60.9 | 275 |
| 06&09 | 76 | 68 | 63 | 58 | 55 | 54 | 51 | 58.6 | 200 |
| 12&15 | 76 | 66 | 63 | 58 | 55 | 52 | 51 | 58.3 | 225 |
| 18&21 | 74 | 69 | 66 | 61 | 56 | 54 | 54 | 60.7 | 305 |
| TOT | 76 | 69 | 65 | 59 | 55 | 54 | 51 | 59.8 | 1005 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 10.1 | 19.7 | 36.1 | 26.9 | 7.2 | 75 | 208 |
| 06&09 | .0 | 4.3 | 13.0 | 43.5 | 29.2 | 9.9 | 78 | 161 |
| 12&15 | .0 | 3.0 | 17.9 | 36.9 | 30.4 | 11.9 | 78 | 168 |
| 18&21 | .0 | 7.6 | 23.7 | 31.8 | 30.8 | 6.1 | 75 | 198 |
| TOT | 0 | 48 | 139 | 270 | 215 | 63 | 76 | 735 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|
| 9/10 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | 3 | .0 | .3 |
| 7/8 | .0 | .0 | .0 | .1 | 1.2 | .2 | .0 | 14 | .0 | 1.6 |
| 6 | .0 | .0 | .0 | .6 | .7 | .1 | .0 | 12 | .0 | 1.3 |
| 5 | .0 | .0 | .0 | 1.2 | 1.0 | .0 | .0 | 20 | .0 | 2.2 |
| 4 | .0 | .0 | .2 | 1.4 | .4 | .1 | .0 | 20 | .2 | 2.0 |
| 3 | .0 | .1 | .1 | 2.0 | .3 | .0 | .0 | 23 | .0 | 2.6 |
| 2 | .0 | .0 | 1.7 | 4.0 | .8 | .0 | .0 | 58 | .0 | 6.5 |
| 1 | .1 | .0 | 2.1 | 4.8 | .3 | .0 | .1 | 67 | .0 | 7.5 |
| 0 | .0 | .1 | 5.7 | 5.4 | .4 | .0 | .0 | 104 | .2 | 11.4 |
| -1 | .0 | .2 | 8.9 | 2.8 | .2 | .0 | .0 | 109 | .1 | 12.0 |
| -2 | .0 | 1.6 | 10.3 | 2.1 | .0 | .0 | .0 | 125 | .2 | 13.7 |
| -3 | .0 | 1.8 | 8.5 | 1.3 | .0 | .0 | .0 | 104 | .1 | 11.5 |
| -4 | .0 | 3.1 | 6.5 | .7 | .2 | .0 | .0 | 94 | .1 | 10.4 |
| -5 | .0 | 2.0 | 3.8 | .3 | .0 | .0 | .0 | 55 | .2 | 5.9 |
| -6 | .2 | 2.5 | 1.6 | .2 | .0 | .0 | .0 | 40 | .0 | 4.5 |
| -7/-8 | .0 | 1.7 | 1.9 | .3 | .0 | .0 | .0 | 35 | .0 | 3.9 |
| -9/-10 | .1 | .3 | .6 | .4 | .0 | .0 | .0 | 13 | .0 | 1.4 |
| -11/-13 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | .1 |
| TOTAL | 4 | 121 | 464 | 249 | 51 | 6 | 2 | 897 | 11 | 886 |
| PCT | .4 | 13.5 | 51.7 | 27.8 | 5.7 | .7 | .2 | 100.0 | 1.2 | 98.8 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | 5.3 | 2.7 | .0 | .0 | .0 | 8.0 |
| 3-4 | .5 | 2.0 | 12.8 | .6 | .0 | .0 | 15.9 |
| 5-6 | .0 | .3 | 6.8 | 1.0 | .0 | .0 | 8.0 |
| 7 | .0 | .0 | 1.7 | 2.0 | .0 | .0 | 3.7 |
| 8-9 | .0 | .2 | 1.4 | .0 | .0 | .0 | 1.6 |
| 10-11 | .0 | .0 | .9 | 1.3 | .0 | .0 | 1.7 |
| 12 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 13-16 | .0 | .0 | .0 | .6 | .0 | .0 | .6 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 8.3 | 26.3 | 5.5 | .0 | .0 | 40.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | 1.6 | .0 | .0 | .0 | .0 | 1.6 |
| 1-2 | .0 | 1.6 | 1.0 | .0 | .0 | .0 | 2.6 |
| 3-4 | .2 | .8 | .4 | .0 | .0 | .0 | 1.3 |
| 5-6 | .0 | .3 | .7 | .5 | .0 | .0 | 1.4 |
| 7 | .0 | .0 | .4 | .1 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .1 | .3 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 4.2 | 2.9 | .8 | .0 | .0 | 8.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .3 | .3 | .0 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 1.4 | .0 | .3 | .0 | .0 | 2.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .9 | .0 | .0 | .0 | .0 | 1.0 |

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | .3 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .2 | .6 | .0 | .0 | .0 | .8 | .0 | .5 | .9 | .0 | .0 | .0 | 1.4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | .0 | .0 | .0 | .9 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .2 | .6 | .0 | .0 | .0 | 1.1 | .1 | .9 | 2.4 | .0 | .0 | .0 | 3.4 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 1.-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | 1.1 | .0 | .0 | .0 | .0 | 1.3 | .9 | 1.1 | .0 | .0 | .0 | .0 | 2.0 | |
| 1-2 | .0 | 1.0 | .3 | .0 | .0 | .0 | 1.3 | .3 | 5.0 | 3.2 | .0 | .0 | .0 | 8.6 | |
| 3-4 | .0 | 1.4 | 2.0 | .0 | .0 | .0 | 3.5 | .0 | 1.1 | 6.1 | .0 | .0 | .0 | 7.2 | |
| 5-6 | .0 | .8 | .8 | .0 | .0 | .0 | 1.7 | .3 | 1.6 | 5.3 | 1.0 | .0 | .0 | 8.1 | |
| 7 | .0 | .6 | .5 | .0 | .0 | .0 | 1.1 | .0 | .0 | 2.3 | .3 | .0 | .0 | 2.6 | |
| 8-9 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .0 | .1 | 1.0 | .3 | .0 | .0 | 1.4 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .8 | .0 | .0 | 1.0 | |
| 12 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .3 | .1 | .0 | .0 | .4 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .2 | 5.2 | 3.9 | .2 | .0 | .0 | 9.5 | 1.5 | 8.9 | 18.3 | 2.5 | .0 | .0 | 31.2 | 97.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.5 | 4.8 | .0 | .0 | .0 | .0 | 9.3 | |
| 1-2 | .9 | 14.1 | 7.5 | .0 | .0 | .0 | 22.5 | |
| 3-4 | .6 | 6.9 | 22.8 | .6 | .0 | .0 | 30.9 | |
| 5-6 | .3 | 3.0 | 14.4 | 2.4 | .0 | .0 | 20.1 | |
| 7 | .0 | .6 | 4.8 | 2.7 | .0 | .0 | 8.1 | |
| 8-9 | .0 | .6 | 2.7 | .6 | .0 | .0 | 3.9 | |
| 10-11 | .0 | .0 | .9 | 2.1 | .0 | .0 | 3.0 | |
| 12 | .0 | .0 | .9 | .0 | .0 | .0 | .9 | |
| 13-16 | .0 | .0 | .3 | .9 | .0 | .0 | 1.2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 6.3 | 30.0 | 54.4 | 9.3 | .0 | .0 | 100.0 | 333 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.2 | 2.7 | 10.8 | 5.9 | 4.1 | 1.5 | 1.0 | .7 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 192 | 5 |
| 6-7 | .0 | 2.1 | 9.2 | 12.1 | 8.3 | 3.8 | 1.5 | 1.3 | 1.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 267 | 6 |
| 8-9 | .0 | .4 | 1.8 | 3.1 | 4.4 | 4.7 | 1.9 | .7 | 1.9 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 130 | 8 |
| 10-11 | .0 | .7 | .3 | 1.2 | 1.0 | 1.5 | .6 | .3 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 42 | 7 |
| 12-13 | .0 | .0 | .3 | .3 | .9 | .3 | .4 | .1 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 19 | 8 |
| >13 | .0 | .0 | .0 | .3 | .3 | .7 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 11 | 8 |
| INDET | .4 | .6 | .6 | .1 | .1 | .3 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 16 | 4 |
| TOTAL | 11 | 44 | 155 | 156 | 130 | 87 | 39 | 23 | 30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 677 | 6 |
| PCT | 1.6 | 6.5 | 22.9 | 23.0 | 19.2 | 12.9 | 5.8 | 3.4 | 4.4 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1873-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | .8 | .4 | .0 | .0 | .0 | .0 | 1.6 | .5 | .0 | 1.1 | .0 | .7 | .0 | | 96.2 |
| NE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3.0 | .0 | .0 | .0 | .0 | .0 | | 97.0 |
| E | 12.1 | .0 | 12.1 | .0 | .0 | .0 | .0 | 12.1 | .0 | .0 | .0 | .0 | .0 | .0 | | 87.9 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100.0 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100.0 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.4 | .0 | .0 | .0 | | 95.6 |
| W | 1.3 | 4.5 | 1.0 | .0 | .0 | .0 | .0 | 6.7 | .0 | 1.3 | .0 | .0 | .0 | .0 | | 93.3 |
| NW | .0 | 2.2 | .7 | .0 | .0 | .0 | .0 | 2.9 | .5 | .0 | .9 | .0 | .3 | .0 | | 95.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14.3 | .0 | | 85.7 |
| TOT PCT | .3 | 1.5 | .6 | .0 | .0 | .0 | .0 | 2.3 | .5 | .1 | .9 | .0 | .5 | .0 | | 95.7 |
| TOT OBS: | 1158 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | 1.5 | .3 | .0 | .0 | .0 | .0 | 1.8 | .3 | .0 | 1.2 | .0 | .3 | .0 | | 96.5 |
| 06&09 | 1.1 | .8 | .8 | .0 | .0 | .0 | .0 | 2.3 | .8 | .0 | .0 | .0 | .4 | .0 | | 96.6 |
| 12&15 | .0 | 2.3 | .4 | .0 | .0 | .0 | .0 | 2.7 | .4 | .0 | .8 | .0 | .8 | .0 | | 95.3 |
| 18&21 | .3 | 1.3 | 1.0 | .0 | .0 | .0 | .0 | 2.7 | .7 | .3 | 1.7 | .0 | .7 | .0 | | 94.3 |
| TOT PCT | .3 | 1.5 | .6 | .0 | .0 | .0 | .0 | 2.3 | .5 | .1 | .9 | .0 | .5 | .0 | | 95.7 |
| TOT OBS: | 1161 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 12.4 | 31.5 | 4.8 | .1 | .0 | | 49.2 | 14.6 | 52.8 | 54.4 | 45.9 | 56.6 | 48.7 | 43.9 | 47.7 | 48.7 |
| NE | .2 | 1.3 | 2.1 | .2 | .0 | .0 | | 3.7 | 11.7 | 2.9 | 1.1 | 3.8 | 5.3 | 5.0 | 4.4 | 3.1 | 5.4 |
| E | .2 | .1 | .3 | * | .0 | .0 | | .7 | 10.2 | .9 | .0 | .8 | .0 | .7 | .0 | .5 | 1.6 |
| SE | * | .2 | .1 | .0 | .0 | .0 | | .4 | 9.9 | .5 | .0 | .4 | .0 | .5 | 1.1 | .0 | .5 |
| S | .2 | .4 | .4 | .0 | .0 | .0 | | 1.1 | 8.6 | .9 | .0 | .2 | 1.3 | 1.6 | 1.1 | .8 | 3.2 |
| SW | .1 | 1.5 | .6 | .0 | .0 | .0 | | 2.1 | 9.3 | 1.8 | 4.4 | 1.3 | 3.9 | .5 | 2.2 | 3.1 | 4.8 |
| W | .2 | 3.2 | 3.2 | .3 | .0 | .0 | | 6.9 | 11.0 | 5.8 | 6.7 | 8.4 | 9.2 | 4.1 | 7.8 | 7.2 | 10.8 |
| NW | .3 | 10.2 | 22.1 | 2.5 | .1 | .0 | | 35.2 | 14.0 | 33.4 | 33.3 | 38.4 | 23.7 | 38.4 | 39.4 | 37.2 | 23.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .7 | | | | | | | .7 | .0 | 1.0 | .0 | .9 | .0 | .5 | .0 | .4 | 1.1 |
| TOT OBS | 29 | 356 | 731 | 95 | 3 | 0 | 1214 | | 13.7 | 295 | 45 | 232 | 38 | 214 | 45 | 252 | 93 |
| TOT PCT | 2.4 | 29.3 | 60.2 | 7.8 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.8 | 27.0 | 18.0 | .4 | .0 | | 49.2 | 14.6 | 53.0 | 47.4 | 47.9 | 48.0 |
| NE | .9 | 2.1 | .7 | .0 | .0 | | 3.7 | 11.7 | 2.6 | 4.0 | 4.9 | 3.7 |
| E | .2 | .4 | .1 | .0 | .0 | | .7 | 10.2 | .8 | .6 | .6 | .8 |
| SE | .2 | .1 | .1 | .0 | .0 | | .4 | 9.9 | .4 | .4 | .6 | .1 |
| S | .4 | .6 | * | .0 | .0 | | 1.1 | 8.6 | .8 | .4 | 1.5 | 1.4 |
| SW | .6 | 1.3 | .2 | .0 | .0 | | 2.1 | 9.3 | 2.1 | 1.7 | .8 | 3.6 |
| W | 1.3 | 4.8 | .7 | .0 | .0 | | 6.9 | 11.0 | 5.9 | 8.5 | 4.7 | 8.2 |
| NW | 2.6 | 21.2 | 10.7 | .7 | .0 | | 35.2 | 14.0 | 33.4 | 36.3 | 38.6 | 33.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .7 | | | | | | .7 | .0 | .9 | .7 | .4 | .6 |
| TOT OBS | 130 | 699 | 372 | 13 | 0 | 1214 | | 13.7 | 340 | 270 | 259 | 345 |
| TOT PCT | 10.7 | 57.6 | 30.6 | 1.1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MAY

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1873-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | 2.6 | 27.1 | 61.8 | 7.4 | .3 | .0 | 13.9 | 100.0 | 340 |
| 06&09 | .7 | 1.1 | 31.1 | 59.6 | 7.0 | .4 | .0 | 13.8 | 100.0 | 270 |
| 12&15 | .4 | .4 | 30.5 | 59.5 | 8.9 | .4 | .0 | 14.0 | 100.0 | 259 |
| 18&21 | .6 | 2.3 | 29.3 | 59.7 | 8.1 | .0 | .0 | 13.4 | 100.0 | 345 |
| TOT | 8 | 21 | 356 | 731 | 95 | 3 | 0 | 13.7 | | 1214 |
| PCT | .7 | 1.7 | 29.3 | 60.2 | 7.8 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 6.9 | 6.5 | 18.1 | 16.5 | | 5.7 |
| NE | .5 | .4 | 1.4 | 1.3 | | 5.8 |
| E | .0 | .1 | .0 | .4 | | 7.2 |
| SE | .1 | .2 | .1 | * | | 4.0 |
| S | .1 | .5 | .2 | .3 | | 4.9 |
| SW | .3 | .4 | .8 | .5 | | 5.3 |
| W | 1.7 | .6 | 2.7 | 2.4 | | 5.3 |
| NW | 6.0 | 3.9 | 11.5 | 14.9 | | 5.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .1 | .0 | .1 | .4 | | 6.6 |
| TOT OBS | 149 | 119 | 331 | 348 | 947 | 5.7 |
| TOT PCT | 15.7 | 12.6 | 35.0 | 36.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4,999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .7 | 2.7 | 14.3 | 10.9 | 2.8 | .2 | .2 | .0 | 15.7 | |
| NE | .0 | .0 | .0 | .2 | 1.6 | .5 | .1 | .2 | .1 | .0 | 1.1 | |
| E | .0 | .0 | .1 | .0 | .0 | .2 | .0 | .1 | .0 | .0 | .1 | |
| SE | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .4 | |
| S | .0 | .0 | .0 | .0 | .2 | .3 | .0 | .0 | .0 | .0 | .6 | |
| SW | .0 | .0 | .1 | .1 | .8 | .1 | .0 | .0 | .1 | .0 | .9 | |
| W | .0 | .0 | .0 | .5 | 2.5 | .6 | .4 | .1 | .0 | .0 | 3.2 | |
| NW | .1 | .2 | 1.1 | 2.6 | 10.1 | 7.4 | 2.3 | .3 | .6 | .0 | 11.6 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .1 | |
| TOT OBS | 3 | 3 | 20 | 59 | 282 | 191 | 53 | 8 | 9 | 0 | 319 | 947 |
| TOT PCT | .3 | .3 | 2.1 | 6.2 | 29.8 | 20.2 | 5.6 | .8 | 1.0 | .0 | 33.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | 1.1 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >3500 | 5.6 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| * OR >2000 | 21.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| * OR >1000 | 44.3 | 57.2 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| * OR >600 | 48.8 | 63.1 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 |
| * OR >300 | 50.5 | 65.2 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 |
| * OR >150 | 50.7 | 65.4 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 |
| * OR > 0 | 50.7 | 65.6 | 66.2 | 66.2 | 66.2 | 66.2 | 66.4 | 66.4 |
| TOTAL | 481 | 622 | 628 | 628 | 628 | 628 | 629 | 629 |

TOTAL NUMBER OF OBS: 948 PCT FREQ NH <5/8: 33.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 5.6 | 9.9 | 7.7 | 5.1 | 7.2 | 11.9 | 15.3 | 31.8 | .2 | 970 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| 1/2<1 | PCP | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | NO PCP | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | |
| | TOT % | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .5 | .0 | .0 | .0 | .0 | .1 | .0 | .2 | .0 | .1 | .9 | |
| | TOT % | .5 | .0 | .0 | .0 | .0 | .1 | .0 | .2 | .0 | .1 | .9 | |
| 5<10 | PCP | .4 | .0 | .1 | .0 | .0 | .0 | .1 | .5 | .0 | .0 | 1.0 | |
| | NO PCP | 19.0 | .6 | .2 | .2 | .2 | .5 | 1.4 | 9.0 | .0 | .2 | 27.5 | |
| | TOT % | 19.4 | .6 | .3 | .2 | .2 | .5 | 1.5 | 9.5 | .0 | .2 | 28.5 | |
| 10+ | PCP | .2 | .0 | .0 | .0 | .0 | .0 | .4 | .5 | .0 | .0 | 1.1 | |
| | NO PCP | 32.9 | 3.0 | .4 | .1 | .8 | 1.3 | 4.9 | 25.2 | .0 | .3 | 69.0 | |
| | TOT % | 33.1 | 3.0 | .4 | .1 | .8 | 1.3 | 5.3 | 25.8 | .0 | .3 | 70.1 | |
| TOT OBS | | | | | | | | | | | | | 1158 |
| TOT PCT | | 49.5 | 3.6 | .7 | .3 | 1.0 | 1.9 | 6.8 | 35.5 | .0 | .6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .3 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | | .1 | |
| | 11-21 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .7 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .4 | .0 | .0 | .0 | .0 | .1 | .0 | .2 | .0 | .1 | .9 | |
| 5<10 | 0-3 | .0 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .3 | |
| | 4-10 | 3.4 | * | * | .1 | .0 | .2 | .5 | 2.2 | .0 | | 6.5 | |
| | 11-21 | 11.2 | .6 | .1 | .1 | .2 | .3 | 1.0 | 6.6 | .0 | | 20.1 | |
| | 22+ | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | | 1.5 | |
| | TOT % | 15.4 | .6 | .3 | .2 | .2 | .5 | 1.5 | 9.5 | .0 | .2 | 28.4 | |
| 10+ | 0-3 | .4 | .2 | .1 | * | .2 | * | .1 | .2 | .0 | .3 | 1.6 | |
| | 4-10 | 8.8 | 1.3 | .1 | .1 | .3 | 1.1 | 2.6 | 7.7 | .0 | | 22.1 | |
| | 11-21 | 19.5 | 1.3 | .2 | .0 | .2 | .3 | 2.3 | 15.8 | .0 | | 39.7 | |
| | 22+ | 4.3 | .1 | .0 | .0 | .0 | .0 | .3 | 2.1 | .0 | | 6.8 | |
| | TOT % | 33.1 | 2.9 | .4 | .1 | .7 | 1.4 | 5.4 | 25.8 | .0 | .3 | 70.2 | |
| TOT OBS | | | | | | | | | | | | | 1167 |
| TOT PCT | | 49.4 | 3.6 | .7 | .3 | 1.0 | 2.0 | 6.9 | 35.5 | .0 | .6 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1952-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .0 | 1.8 | 7.1 | 27.3 | 20.9 | 4.6 | 1.1 | .4 | .0 | 63.1 | 36.9 | 282 |
| 06&09 | .5 | .5 | 1.4 | 4.1 | 29.3 | 19.8 | 4.5 | .9 | 1.4 | .0 | 62.2 | 37.8 | 222 |
| 12&15 | .0 | .0 | 2.6 | 4.8 | 35.4 | 18.5 | 5.3 | .5 | .0 | .0 | 67.2 | 32.8 | 189 |
| 18&21 | .8 | .8 | 2.7 | 8.0 | 27.8 | 20.5 | 7.6 | .8 | 1.9 | .0 | 70.7 | 29.3 | 263 |
| TOT | 3 | 3 | 20 | 59 | 282 | 192 | 53 | 8 | 9 | 0 | 629 | 327 | 956 |
| PCT | .3 | .3 | 2.1 | 6.2 | 29.5 | 20.1 | 5.5 | .8 | .9 | .0 | 65.8 | 34.2 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .3 | .0 | .6 | 24.1 | 75.0 | 340 |
| 06&09 | .0 | .4 | .0 | 1.5 | 28.8 | 69.4 | 271 |
| 12&15 | .0 | .8 | .0 | .4 | 36.8 | 62.0 | 258 |
| 18&21 | .3 | .3 | .0 | 1.0 | 25.6 | 72.8 | 301 |
| TOT | 1 | 5 | 0 | 10 | 332 | 822 | 1170 |
| PCT | .1 | .4 | .0 | .9 | 28.4 | 70.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.8 | 8.9 | 54.6 | 36.4 | 280 |
| 06&09 | .5 | 2.3 | 8.2 | 56.2 | 35.6 | 219 |
| 12&15 | .0 | 2.7 | 8.0 | 59.9 | 32.1 | 187 |
| 18&21 | .8 | 4.2 | 12.2 | 58.8 | 29.0 | 262 |
| TOT | 3 | 26 | 90 | 542 | 316 | 948 |
| PCT | .3 | 2.7 | 9.5 | 57.2 | 33.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 1 | .1 |
| 70/74 | .0 | .0 | .0 | .2 | .5 | .3 | .2 | .0 | 12 | 1.3 |
| 65/69 | .0 | .0 | .0 | .4 | 2.5 | 3.5 | 1.9 | .8 | 87 | 9.2 |
| 60/64 | .0 | .0 | .0 | .3 | 9.3 | 25.8 | 16.9 | 3.8 | 531 | 56.2 |
| 55/59 | .0 | .0 | .0 | .3 | 2.5 | 11.7 | 13.9 | 4.7 | 313 | 33.1 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 1 | .1 |
| TOTAL | 0 | 0 | 0 | 12 | 141 | 392 | 312 | 88 | 945 | 100.0 |
| PCT | .0 | .0 | .0 | 1.3 | 14.9 | 41.5 | 33.0 | 9.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 |
| .7 | .1 | .0 | .1 | .0 | .0 | .1 | .3 | .0 | .0 |
| 3.4 | .3 | .1 | * | .3 | .3 | 1.4 | 2.7 | .0 | .1 |
| 26.8 | 1.9 | .7 | .1 | .6 | 1.2 | 4.7 | 19.9 | .0 | .3 |
| 15.9 | 1.4 | .1 | .2 | .1 | .4 | 1.5 | 13.6 | .0 | .1 |
| .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| 47.4 | 3.8 | .8 | .4 | .9 | 1.9 | 7.8 | 36.6 | .0 | .5 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 80 | 73 | 68 | 62 | 58 | 56 | 55 | 62.5 | 340 |
| 06&09 | 67 | 65 | 63 | 60 | 57 | 55 | 55 | 59.8 | 271 |
| 12&15 | 69 | 65 | 63 | 59 | 56 | 55 | 54 | 59.3 | 259 |
| 18&21 | 78 | 72 | 66 | 61 | 57 | 56 | 56 | 61.6 | 339 |
| TOT | 80 | 70 | 66 | 61 | 57 | 55 | 54 | 61.0 | 1209 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.8 | 21.3 | 46.7 | 25.7 | 4.4 | 76 | 272 |
| 06&09 | .0 | .9 | 10.0 | 36.2 | 40.2 | 12.7 | 80 | 229 |
| 12&15 | .0 | 1.5 | 8.7 | 36.2 | 38.3 | 15.3 | 81 | 196 |
| 18&21 | .0 | .8 | 17.3 | 45.0 | 30.1 | 6.8 | 77 | 249 |
| TOT | 0 | 12 | 141 | 393 | 312 | 88 | 78 | 946 |

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29.6N 122.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 1 | .0 | .1 |
| 11/13 | .0 | .0 | .1 | .0 | .2 | .0 | .0 | 3 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .2 | .2 | .2 | .0 | 6 | .0 | .5 |
| 7/8 | .0 | .1 | .1 | .8 | .4 | .1 | .0 | 16 | .0 | 1.4 |
| 6 | .0 | .3 | .2 | .5 | .0 | .0 | .0 | 11 | .0 | 1.0 |
| 5 | .0 | .1 | .6 | 1.4 | .2 | .0 | .1 | 26 | .2 | 2.2 |
| 4 | .0 | .1 | 1.0 | 1.0 | .1 | .0 | .0 | 24 | .0 | 2.2 |
| 3 | .0 | .5 | 1.3 | .6 | .0 | .0 | .0 | 26 | .0 | 2.3 |
| 2 | .0 | .9 | 5.0 | 1.4 | .1 | .0 | .0 | 82 | .0 | 7.4 |
| 1 | .2 | 1.7 | 5.3 | 1.1 | .1 | .0 | .0 | 93 | .0 | 8.4 |
| 0 | .2 | 4.1 | 7.7 | .8 | .1 | .0 | .0 | 144 | .0 | 13.0 |
| -1 | .2 | 8.0 | 6.5 | .1 | .0 | .0 | .0 | 164 | .1 | 14.7 |
| -2 | .5 | 10.8 | 6.1 | .0 | .1 | .0 | .0 | 194 | .2 | 17.3 |
| -3 | .5 | 8.5 | 3.1 | .0 | .0 | .0 | .0 | 134 | .1 | 12.0 |
| -4 | .9 | 6.6 | 1.4 | .0 | .0 | .0 | .0 | 98 | .1 | 8.7 |
| -5 | .2 | 2.7 | .7 | .1 | .0 | .0 | .0 | 41 | .0 | 3.7 |
| -6 | .6 | 1.4 | .2 | .0 | .0 | .0 | .0 | 24 | .0 | 2.2 |
| -7/-8 | .2 | 1.0 | .2 | .1 | .0 | .0 | .0 | 16 | .1 | 1.4 |
| -9/-10 | .0 | .5 | .0 | .0 | .0 | .0 | .0 | 6 | .0 | .5 |
| -11/-13 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | 2 | .0 | .2 |
| TOTAL | 38 | 525 | 439 | 89 | 16 | 3 | 1 | 1111 | 8 | 1103 |
| PCT | 3.4 | 47.3 | 39.5 | 8.0 | 1.4 | .3 | .1 | 100.0 | .7 | 99.3 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.5 | .0 | .0 | .0 | .0 | 1.7 |
| 1-2 | .2 | 9.1 | 4.6 | .0 | .0 | .0 | 13.9 |
| 3-4 | .0 | 4.5 | 11.0 | .5 | .0 | .0 | 16.0 |
| 5-6 | .0 | .6 | 7.5 | 2.6 | .0 | .0 | 10.7 |
| 7 | .0 | .5 | 3.8 | .8 | .0 | .0 | 5.1 |
| 8-9 | .0 | .0 | 1.2 | 1.2 | .0 | .0 | 2.4 |
| 10-11 | .0 | .0 | .4 | .2 | .0 | .0 | .6 |
| 12 | .0 | .0 | .2 | .4 | .0 | .0 | .5 |
| 13-16 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 16.2 | 29.0 | 5.9 | .0 | .0 | 51.6 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .7 | .4 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .6 | 1.2 | .0 | .0 | .0 | 1.8 |
| 5-6 | .0 | .1 | .6 | .0 | .0 | .0 | .7 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.7 | 2.2 | .0 | .0 | .0 | 3.9 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .0 | .4 | .0 | .0 | .0 | .4 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .0 | .2 | .0 | .0 | .0 | .2 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .5 | .2 | .0 | .0 | .0 | .7 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .2 | .9 | .4 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | 1.1 | .9 | .0 | .0 | .0 | 2.0 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .4 | .2 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.4 | 2.0 | .2 | .0 | .0 | 4.7 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.6 | .0 | .0 | .0 | .0 | 1.8 | |
| 1-2 | .1 | 5.2 | 4.3 | .0 | .0 | .0 | 9.5 | |
| 3-4 | .0 | 3.7 | 10.4 | .3 | .0 | .0 | 14.5 | |
| 5-6 | .0 | 1.0 | 3.4 | .5 | .0 | .0 | 4.8 | |
| 7 | .0 | .6 | 3.1 | .9 | .0 | .0 | 4.5 | |
| 8-9 | .0 | .2 | .7 | .3 | .0 | .0 | 1.1 | |
| 10-11 | .0 | .0 | .0 | .6 | .0 | .0 | .6 | |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .3 | 12.3 | 22.2 | 2.8 | .0 | .0 | 37.6 | 99.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.5 | 3.9 | .0 | .0 | .0 | .0 | 5.4 | |
| 1-2 | .4 | 16.0 | 10.2 | .0 | .0 | .0 | 26.6 | |
| 3-4 | .0 | 10.2 | 23.9 | .8 | .0 | .0 | 34.9 | |
| 5-6 | .0 | 1.7 | 11.6 | 3.1 | .0 | .0 | 16.4 | |
| 7 | .0 | 1.0 | 7.3 | 1.9 | .0 | .0 | 10.2 | |
| 8-9 | .0 | .2 | 2.1 | 1.5 | .0 | .0 | 3.7 | |
| 10-11 | .0 | .0 | .4 | .8 | .0 | .0 | 1.2 | |
| 12 | .0 | .0 | .2 | .4 | .0 | .0 | .6 | |
| 13-16 | .0 | .0 | .6 | .0 | .0 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .4 | .0 | .0 | .4 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.9 | 33.0 | 56.2 | 8.9 | .0 | .0 | 100.0 | 482 |

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.3 | 5.8 | 17.4 | 8.2 | 3.5 | .3 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 320 | 4 |
| 6-7 | .1 | 1.3 | 5.1 | 8.5 | 6.5 | 2.8 | 2.1 | .6 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 235 | 6 |
| 8-9 | .1 | .2 | 3.6 | 5.5 | 4.1 | 3.0 | 2.9 | 1.3 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 184 | 7 |
| 10-11 | .0 | .1 | .5 | .5 | 1.4 | 1.5 | .8 | 1.2 | .7 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 61 | 9 |
| 12-13 | .0 | .0 | .0 | .6 | .6 | .9 | .2 | .1 | .6 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 27 | 9 |
| >13 | .0 | .0 | .0 | .0 | .3 | .2 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | 9 |
| INDET | .2 | .6 | .9 | .8 | .1 | .1 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 26 | 4 |
| TOTAL | 15 | 69 | 237 | 207 | 142 | 77 | 59 | 28 | 17 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 861 | 6 |
| PCT | 1.7 | 8.0 | 27.5 | 24.0 | 16.5 | 8.9 | 6.9 | 3.3 | 2.0 | .9 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | 1.0 | 2.6 | .0 | .0 | .0 | .0 | 3.9 | .6 | .0 | 2.1 | .0 | .8 | | .0 | 92.5 |
| NE | .4 | .8 | 2.3 | .0 | .0 | .0 | .0 | 3.5 | 3.9 | .0 | 3.9 | .0 | .4 | | .0 | 88.4 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 66.7 | .0 | .0 | .0 | .0 | | .0 | 33.3 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| W | .0 | .0 | 1.4 | .0 | .0 | .0 | .0 | 1.4 | 1.4 | .0 | .9 | .0 | 1.4 | | .0 | 95.0 |
| NW | .0 | .6 | 1.3 | .0 | .0 | .0 | .0 | 1.9 | .8 | .0 | 3.2 | .0 | 1.1 | | .0 | 93.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14.3 | .0 | .0 | .0 | .0 | | .0 | 85.7 |
| TOT PCT | .2 | .8 | 2.0 | .0 | .0 | .0 | .0 | 2.9 | 1.1 | .0 | 2.5 | .0 | .9 | | .0 | 92.6 |
| TOT OBS: 1125 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .3 | .9 | .0 | .0 | .0 | .0 | 1.3 | .3 | .0 | 1.3 | .0 | 1.3 | | .0 | 95.9 |
| 06&09 | .0 | .8 | 2.8 | .0 | .0 | .0 | .0 | 3.6 | 1.2 | .0 | 1.6 | .0 | .0 | | .0 | 93.7 |
| 12&15 | .7 | 1.1 | 3.6 | .0 | .0 | .0 | .0 | 5.5 | 1.1 | .0 | 4.4 | .0 | 1.1 | | .0 | 88.0 |
| 18&21 | .0 | 1.0 | .7 | .0 | .0 | .0 | .0 | 1.7 | 1.7 | .0 | 2.8 | .0 | 1.0 | | .0 | 92.7 |
| TOT PCT | .2 | .8 | 1.9 | .0 | .0 | .0 | .0 | 2.9 | 1.1 | .0 | 2.5 | .0 | .9 | | .0 | 92.7 |
| TOT OBS: 1136 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .5 | 15.8 | 30.4 | 4.5 | .0 | .0 | | 51.2 | 13.6 | 52.0 | 39.9 | 52.4 | 37.9 | 47.5 | 59.5 | 51.3 | 59.3 |
| NE | * | 2.4 | 3.3 | .1 | .0 | .0 | | 5.9 | 12.6 | 4.8 | 4.1 | 6.8 | 3.2 | 9.7 | 3.2 | 3.2 | 8.3 |
| E | .0 | .2 | .2 | .0 | .0 | .0 | | .4 | 9.6 | .4 | .0 | .7 | .0 | .0 | .0 | .9 | .0 |
| SE | .0 | .1 | * | .0 | .0 | .0 | | .1 | 8.1 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .0 |
| S | .0 | .2 | .1 | .0 | .0 | .0 | | .3 | 10.1 | .0 | .0 | .3 | .0 | .4 | .0 | .7 | .0 |
| SW | .3 | .8 | .2 | .0 | .0 | .0 | | 1.3 | 7.6 | .8 | 2.7 | 2.4 | 3.2 | .9 | .0 | 1.4 | .0 |
| W | .3 | 3.5 | .9 | .1 | .0 | .0 | | 4.7 | 8.4 | 5.8 | 7.4 | 2.1 | 8.1 | 5.4 | 1.8 | 6.5 | .0 |
| NW | .5 | 13.7 | 19.6 | 1.7 | .0 | .0 | | 35.5 | 12.5 | 36.2 | 45.9 | 33.6 | 47.6 | 35.2 | 35.5 | 34.5 | 32.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .7 | | | | | | | .7 | .0 | .0 | .0 | 1.8 | .0 | .9 | .0 | .8 | .0 |
| TOT OBS | 27 | 427 | 638 | 75 | 0 | 0 | 1167 | | 12.7 | 281 | 37 | 222 | 31 | 224 | 55 | 239 | 78 |
| TOT PCT | 2.3 | 36.6 | 54.7 | 6.4 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.2 | 34.0 | 12.5 | .5 | .0 | | 51.2 | 13.6 | 50.6 | 50.6 | 49.9 | 53.2 |
| NE | .7 | 3.8 | 1.3 | * | .0 | | 5.9 | 12.6 | 4.7 | 6.3 | 8.4 | 4.5 |
| E | .1 | .2 | .1 | .0 | .0 | | .4 | 9.6 | .3 | .6 | .0 | .7 |
| SE | .1 | * | * | .0 | .0 | | .1 | 8.1 | .0 | .0 | .0 | .5 |
| S | .2 | .1 | .1 | .0 | .0 | | .3 | 10.1 | .0 | .3 | .4 | .6 |
| SW | .5 | .7 | * | .0 | .0 | | 1.3 | 7.6 | 1.0 | 2.5 | .7 | 1.0 |
| W | 2.1 | 2.4 | .3 | .0 | .0 | | 4.7 | 8.4 | 6.0 | 2.9 | 4.7 | 4.9 |
| NW | 4.1 | 24.3 | 6.9 | .1 | .0 | | 35.5 | 12.5 | 37.3 | 35.3 | 35.2 | 34.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .7 | | | | | | .7 | .0 | .0 | 1.6 | .7 | .6 |
| TOT OBS | 148 | 764 | 247 | 8 | 0 | 1167 | | 12.7 | 318 | 253 | 279 | 317 |
| TOT PCT | 12.7 | 65.5 | 21.2 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JUNE

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.3 | 34.9 | 57.2 | 6.6 | .0 | .0 | 13.0 | 100.0 | 318 |
| 06&09 | 1.6 | 1.6 | 32.8 | 58.1 | 5.9 | .0 | .0 | 12.8 | 100.0 | 253 |
| 12&15 | .7 | 2.2 | 40.5 | 50.9 | 5.7 | .0 | .0 | 12.2 | 100.0 | 279 |
| 18&21 | .6 | 1.6 | 37.9 | 52.7 | 7.3 | .0 | .0 | 12.6 | 100.0 | 317 |
| TOT | 8 | 19 | 427 | 638 | 75 | 0 | 0 | 12.7 | | 1167 |
| PCT | .7 | 1.6 | 36.6 | 54.7 | 6.4 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.0 | 4.8 | 15.6 | 23.9 | | 6.1 |
| NE | .9 | .4 | 2.3 | 1.6 | | 5.8 |
| E | .1 | .1 | .1 | .2 | | 5.3 |
| SE | .0 | .0 | * | .1 | | 7.6 |
| S | .0 | .0 | .1 | .1 | | 7.4 |
| SW | .3 | .2 | .6 | .3 | | 5.4 |
| W | .5 | .4 | 1.3 | 2.6 | | 6.3 |
| NW | 4.1 | 2.4 | 9.9 | 19.5 | | 6.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .1 | .1 | .1 | .2 | | 5.2 |
| TOT OBS | 119 | 77 | 273 | 442 | 911 | 6.2 |
| TOT PCT | 13.1 | 8.5 | 30.0 | 48.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | .2 | 1.3 | 8.3 | 17.1 | 9.9 | 1.1 | .3 | .0 | .0 | 12.9 | |
| NE | .0 | .1 | .1 | 1.0 | 1.8 | .7 | .2 | .1 | .0 | .0 | 1.4 | |
| E | .0 | .0 | .0 | .0 | .2 | .1 | .0 | .0 | .0 | .0 | .2 | |
| SE | .0 | .0 | * | .0 | * | .1 | .0 | .0 | .0 | .0 | .0 | |
| S | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| SW | .0 | .0 | .0 | .0 | .3 | .6 | .0 | .0 | .0 | .0 | .5 | |
| W | .0 | .0 | .2 | .7 | 1.5 | .9 | .2 | .2 | .0 | .0 | 1.2 | |
| NW | .4 | .4 | .7 | 4.8 | 9.9 | 9.9 | 1.6 | .7 | .2 | .1 | 6.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .3 | |
| TOT OBS | 5 | 7 | 22 | 137 | 281 | 202 | 28 | 12 | 2 | 1 | 214 | 911 |
| TOT PCT | .5 | .8 | 2.4 | 15.0 | 30.8 | 22.2 | 3.1 | 1.3 | .2 | .1 | 23.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) = OR >10 | = OR >5 | = OR >2 | = OR >1 | = OR >1/2 | = OR >1/4 | = OR >50YD | = OR >0 |
|---|---|---|---|---|---|---|---|---|
| = OR >6500 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| = OR >5000 | .9 | 1.3 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| = OR >3500 | 2.5 | 4.3 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| = OR >2000 | 21.9 | 26.0 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 |
| = OR >1000 | 45.4 | 56.4 | 57.8 | 57.8 | 57.8 | 57.8 | 57.9 | 57.9 |
| = OR >600 | 55.7 | 70.3 | 72.7 | 72.9 | 72.9 | 72.9 | 73.0 | 73.0 |
| = OR >300 | 57.4 | 72.6 | 75.2 | 75.4 | 75.4 | 75.4 | 75.5 | 75.5 |
| = OR >150 | 57.6 | 72.8 | 75.4 | 75.6 | 75.6 | 76.1 | 76.3 | 76.3 |
| = OR > 0 | 57.7 | 73.1 | 75.7 | 76.0 | 76.0 | 76.5 | 76.8 | 76.8 |
| TOTAL | 528 | 669 | 693 | 695 | 695 | 700 | 703 | 703 |

TOTAL NUMBER OF OBS: 915 PCT FREQ NH <5/8: 23.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 6.3 | 3.4 | 4.4 | 4.7 | 4.3 | 3.7 | 11.3 | 17.6 | 44.1 .2 | 944 |

JUNE

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| <1/2 | NO PCP | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .5 | .0 | .0 | .7 | |
| | TOT % | .3 | * | .0 | .0 | .0 | .0 | .0 | .5 | .0 | .0 | .8 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | .6 | .2 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .9 | |
| | TOT % | .6 | .2 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .9 | |
| | PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .0 | .1 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .3 | |
| | TOT % | .1 | .1 | .0 | .0 | .0 | .0 | * | .2 | .0 | .0 | .4 | |
| | PCP | .4 | * | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 | .8 | |
| 2<5 | NO PCP | .4 | .1 | .1 | .1 | .0 | .0 | .1 | 1.3 | .0 | .0 | 2.0 | |
| | TOT % | .8 | .1 | .1 | .1 | .0 | .0 | .2 | 1.6 | .0 | .0 | 2.9 | |
| | PCP | .9 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | 1.2 | |
| 5<10 | NO PCP | 8.6 | 1.6 | .1 | .0 | .0 | .1 | 1.6 | 7.7 | .0 | .1 | 19.7 | |
| | TOT % | 9.5 | 1.7 | .1 | .0 | .0 | .1 | 1.6 | 8.0 | .0 | .1 | 20.9 | |
| | PCP | .5 | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .6 | |
| 10+ | NO PCP | 39.3 | 3.6 | .3 | * | .3 | 1.2 | 3.1 | 25.1 | .0 | .5 | 73.5 | |
| | TOT % | 39.8 | 3.6 | .3 | * | .3 | 1.2 | 3.1 | 25.2 | .0 | .5 | 74.2 | |
| | TOT OBS | | | | | | | | | | | | 1122 |
| | TOT PCT | 51.1 | 5.7 | .4 | .1 | .3 | 1.3 | 4.9 | 35.5 | .0 | .6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | 4-10 | .2 | * | .0 | .0 | .0 | .0 | .0 | .5 | .0 | | .7 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | * | .0 | .0 | .0 | .0 | .0 | .5 | .0 | .0 | .8 | |
| | 0-3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| 1/2<1 | 4-10 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 11-21 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .6 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .6 | .2 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .9 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1<2 | 4-10 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .1 | .0 | .0 | .0 | .0 | * | .2 | .0 | .0 | .4 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | 4-10 | .2 | .0 | .0 | .1 | .0 | .0 | .2 | .4 | .0 | | .9 | |
| | 11-21 | .6 | .1 | .1 | * | .0 | .0 | .0 | 1.2 | .0 | | 2.0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .8 | .1 | .1 | .1 | .0 | .0 | .2 | 1.6 | .0 | .0 | 2.8 | |
| | 0-3 | * | * | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .1 | .5 | |
| 5<10 | 4-10 | 3.3 | .6 | .0 | .0 | .0 | * | 1.2 | 3.6 | .0 | | 8.7 | |
| | 11-21 | 5.4 | 1.0 | .1 | .0 | .0 | .1 | .1 | 4.3 | .0 | | 11.0 | |
| | 22+ | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .9 | |
| | TOT % | 9.5 | 1.7 | .1 | .0 | .0 | .1 | 1.6 | 8.1 | .0 | .1 | 21.1 | |
| | 0-3 | .4 | .0 | .0 | .0 | .0 | .3 | .1 | .4 | .0 | .6 | 1.7 | |
| 10+ | 4-10 | 11.9 | 1.5 | .2 | .0 | .2 | .8 | 2.2 | 9.4 | .0 | | 26.2 | |
| | 11-21 | 23.7 | 2.0 | .1 | * | .1 | .1 | .7 | 13.9 | .0 | | 40.6 | |
| | 22+ | 3.7 | .1 | .0 | .0 | .0 | .0 | .1 | 1.6 | .0 | | 5.5 | |
| | TOT % | 39.7 | 3.6 | .3 | * | .3 | 1.2 | 3.1 | 25.2 | .0 | .6 | 74.0 | |
| | TOT OBS | | | | | | | | | | | | 1128 |
| | TOT PCT | 51.0 | 5.7 | .4 | .1 | .3 | 1.3 | 4.9 | 35.6 | .0 | .7 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .4 | 2.1 | 11.8 | 32.1 | 21.1 | 3.9 | 1.4 | .4 | .4 | 73.6 | 26.4 | 280 |
| 06&09 | .5 | .0 | 1.9 | 17.7 | 28.2 | 23.9 | 1.0 | 1.0 | .0 | .0 | 74.2 | 25.8 | 209 |
| 12&15 | 2.1 | 1.6 | 3.1 | 18.3 | 30.9 | 22.5 | 3.1 | .5 | .0 | .0 | 82.2 | 17.8 | 191 |
| 18&21 | .0 | 1.2 | 2.9 | 13.7 | 32.0 | 20.7 | 3.7 | 2.1 | .4 | .0 | 76.8 | 23.2 | 241 |
| TOT | 5 | 7 | 23 | 138 | 285 | 202 | 28 | 12 | 2 | 1 | 703 | 218 | 921 |
| PCT | .5 | .8 | 2.5 | 15.0 | 30.9 | 21.9 | 3.0 | 1.3 | .2 | .1 | 76.3 | 23.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .9 | .0 | .6 | 17.2 | 81.2 | 319 |
| 06&09 | .4 | .4 | .4 | 2.8 | 23.3 | 72.7 | 253 |
| 12&15 | 1.8 | 1.1 | .7 | 5.1 | 28.2 | 63.2 | 277 |
| 18&21 | 1.0 | 1.0 | .3 | 3.1 | 17.2 | 77.2 | 290 |
| TOT | 9 | 10 | 4 | 32 | 242 | 842 | 1139 |
| PCT | .8 | .9 | .4 | 2.8 | 21.2 | 73.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <30YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.5 | 15.2 | 59.4 | 25.4 | 276 |
| 06&09 | .5 | 2.9 | 23.2 | 52.2 | 24.6 | 207 |
| 12&15 | 2.1 | 6.8 | 27.7 | 56.0 | 16.2 | 191 |
| 18&21 | .0 | 4.1 | 20.3 | 56.8 | 22.8 | 241 |
| TOT | 5 | 36 | 192 | 516 | 207 | 915 |
| PCT | .5 | 3.9 | 21.0 | 56.4 | 22.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | 2 | .2 |
| 70/74 | .0 | .0 | .0 | .1 | .7 | 1.3 | .3 | .1 | 24 | 2.6 |
| 65/69 | .0 | .0 | .0 | .3 | 1.9 | 7.5 | 4.6 | 1.1 | 145 | 15.4 |
| 60/64 | .0 | .0 | .0 | .0 | 4.3 | 23.4 | 28.2 | 11.4 | 634 | 67.4 |
| 55/59 | .0 | .0 | .0 | .0 | .2 | 4.1 | 5.4 | 4.6 | 135 | 14.3 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 1 | .1 |
| TOTAL | 0 | 0 | 0 | 5 | 69 | 342 | 363 | 162 | 941 | 100.0 |
| PCT | .0 | .0 | .0 | .5 | 7.3 | 36.3 | 38.6 | 17.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 |
| .8 | .1 | .1 | .0 | .0 | .0 | .2 | 1.3 | .0 | .0 |
| 7.7 | .6 | .1 | * | .1 | .3 | 1.1 | 5.3 | .0 | .1 |
| 35.9 | 4.1 | .2 | * | .1 | 1.0 | 2.7 | 22.6 | .0 | .7 |
| 7.2 | .8 | .1 | .0 | .2 | * | .4 | 5.7 | .0 | .0 |
| .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 51.7 | 5.6 | .5 | .1 | .4 | 1.5 | 4.5 | 35.1 | .0 | .9 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 73 | 70 | 64 | 59 | 57 | 54 | 64.0 | 322 |
| 06&09 | 72 | 67 | 65 | 61 | 58 | 57 | 57 | 61.5 | 255 |
| 12&15 | 69 | 66 | 64 | 61 | 57 | 56 | 55 | 60.7 | 280 |
| 18&21 | 75 | 71 | 68 | 63 | 59 | 58 | 57 | 63.2 | 312 |
| TOT | 79 | 71 | 68 | 62 | 58 | 57 | 54 | 62.4 | 1169 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .4 | 10.6 | 40.4 | 35.1 | 13.6 | 80 | 265 |
| 06&09 | .0 | .0 | 6.4 | 34.7 | 39.7 | 19.2 | 82 | 219 |
| 12&15 | .0 | .9 | 1.8 | 29.0 | 43.3 | 24.9 | 84 | 217 |
| 18&21 | .0 | .8 | 9.7 | 40.1 | 37.2 | 12.1 | 80 | 247 |
| TOT | 0 | 5 | 70 | 345 | 366 | 168 | 81 | 948 |

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .0 | .1 | 1 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .0 | .2 | .3 | 5 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .2 | .1 | .0 | 3 | .0 | .3 |
| 7/8 | .0 | .0 | .4 | .9 | 1.0 | .2 | 27 | .0 | 2.3 |
| 6 | .0 | .0 | .6 | .7 | .3 | .0 | 19 | .1 | 1.7 |
| 5 | .0 | .0 | .2 | 1.4 | .7 | .0 | 28 | .0 | 2.3 |
| 4 | .0 | .1 | 1.0 | 1.4 | .3 | .0 | 32 | .0 | 3.0 |
| 3 | .0 | .2 | 1.6 | 1.9 | .3 | .0 | 38 | .1 | 3.3 |
| 2 | .0 | .0 | 3.3 | 2.6 | .2 | .0 | 65 | .0 | 6.1 |
| 1 | .0 | .7 | 4.7 | 1.6 | .1 | .0 | 76 | .1 | 7.0 |
| 0 | .0 | 1.4 | 9.9 | 1.9 | .1 | .0 | 142 | .2 | 13.1 |
| -1 | .0 | 3.4 | 10.7 | 1.0 | .0 | .0 | 161 | .3 | 14.6 |
| -2 | .1 | 6.0 | 9.6 | .8 | .0 | .0 | 174 | .7 | 15.3 |
| -3 | .0 | 5.1 | 6.2 | .6 | .0 | .0 | 127 | .4 | 11.3 |
| -4 | .1 | 6.0 | 2.6 | .1 | .0 | .0 | 94 | .4 | 8.4 |
| -5 | .0 | 3.0 | 1.8 | .2 | .1 | .0 | 54 | .2 | 4.9 |
| -6 | .0 | .5 | .5 | .1 | .0 | .0 | 11 | .0 | 1.0 |
| -7/-8 | .0 | .3 | .4 | .0 | .0 | .0 | 9 | .0 | .8 |
| -9/-10 | .0 | .3 | .2 | .0 | .0 | .0 | 5 | .0 | .3 |
| TOTAL | 2 | 290 | 569 | 161 | 40 | 6 | 1068 | 28 | 1040 |
| PCT | .2 | 27.2 | 53.3 | 15.1 | 3.7 | .6 | 100.0 | 2.6 | 97.4 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | 1.1 | .7 | .0 | .0 | .0 | 1.8 |
| 1-2 | .3 | 6.4 | 3.6 | .0 | .0 | .0 | 10.2 |
| 3-4 | .0 | 6.0 | 13.0 | .3 | .0 | .0 | 19.3 |
| 5-6 | .0 | 1.9 | 7.1 | 1.2 | .0 | .0 | 10.2 |
| 7 | .0 | .5 | 5.6 | 2.6 | .0 | .0 | 8.7 |
| 8-9 | .0 | .0 | 1.5 | 1.4 | .0 | .0 | 2.9 |
| 10-11 | .0 | .0 | .1 | .5 | .0 | .0 | .6 |
| 12 | .0 | .0 | .0 | .5 | .0 | .0 | .5 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 15.8 | 31.6 | 6.5 | .0 | .0 | 54.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .7 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | 1.3 | 1.9 | .0 | .0 | .0 | 3.2 |
| 5-6 | .0 | .1 | .8 | .0 | .0 | .0 | .9 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .2 | * | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 2.2 | 3.6 | .2 | .0 | .0 | 6.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .4 | .0 | .0 | .0 | .7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | * | .0 | .0 | .0 | * |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .0 | .1 | .0 | .0 | .0 | .1 |

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .3 | .0 | .0 | .0 | .5 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .4 | .6 | .4 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .0 | * | .0 | .0 | .0 | * |
| 5-6 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.4 | .4 | .0 | .0 | .0 | 2.2 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.5 | .0 | .0 | .0 | .0 | 1.6 |
| 1-2 | .0 | 1.7 | .4 | .0 | .0 | .0 | 2.1 |
| 3-4 | .1 | 1.2 | .2 | .0 | .0 | .0 | 1.5 |
| 5-6 | .0 | .6 | .1 | .0 | .0 | .0 | .7 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 5.0 | .7 | .2 | .0 | .0 | 6.1 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .2 | 5.8 | 2.4 | .0 | .0 | .0 | 8.3 |
| 3-4 | * | 3.6 | 6.7 | .2 | .0 | .0 | 10.6 |
| 5-6 | .0 | 2.4 | 3.2 | .1 | .0 | .0 | 5.7 |
| 7 | .0 | * | 3.0 | .2 | .0 | .0 | 3.2 |
| 8-9 | .0 | .0 | .7 | .0 | .0 | .0 | .7 |
| 10-11 | .0 | .0 | * | .3 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 12.2 | 16.0 | .8 | .0 | .0 | 29.4 |

| HGT | TOTAL PCT |
|---|---|
| <1 | .6 |
| 1-2 | 8.3 |
| 3-4 | 10.6 |
| 5-6 | 5.7 |
| 7 | 3.2 |
| 8-9 | .7 |
| 10-11 | .3 |
| 12 | * |
| 13-16 | .0 |
| 17-19 | .0 |
| 20-22 | .0 |
| 23-25 | .0 |
| 26-32 | .0 |
| 33-40 | .0 |
| 41-48 | .0 |
| 49-60 | .0 |
| 61-70 | .0 |
| 71-86 | .0 |
| 87+ | .0 |
| TOT PCT | 99.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | .9 | 3.3 | .7 | .0 | .0 | .0 | 5.0 | |
| 1-2 | .9 | 15.1 | 7.0 | .0 | .0 | .0 | 23.1 | |
| 3-4 | .2 | 12.4 | 22.0 | .6 | .0 | .0 | 35.1 | |
| 5-6 | .0 | 5.5 | 11.8 | 1.3 | .0 | .0 | 18.6 | |
| 7 | .0 | .7 | 8.7 | 3.0 | .0 | .0 | 12.4 | |
| 8-9 | .0 | .0 | 2.4 | 1.5 | .0 | .0 | 3.9 | |
| 10-11 | .0 | .0 | .2 | .9 | .0 | .0 | 1.1 | |
| 12 | .0 | .0 | .2 | .6 | .0 | .0 | .7 | |
| 13-16 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 2.0 | 37.1 | 53.1 | 7.7 | .0 | .0 | 100.0 | 942 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .6 | 4.7 | 12.7 | 5.0 | 3.4 | 1.1 | .1 | .1 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 240 | 4 |
| 6-7 | .0 | .2 | 7.8 | 11.7 | 8.8 | 4.0 | 2.3 | .8 | .8 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 314 | 6 |
| 8-9 | .0 | .4 | 2.7 | 6.1 | 5.6 | 3.5 | 2.6 | 1.3 | .7 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 199 | 7 |
| 10-11 | .0 | .1 | .9 | 1.3 | 2.5 | 1.1 | .8 | .4 | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 67 | 7 |
| 12-13 | .0 | .0 | .5 | .5 | .8 | .1 | .1 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 30 | 7 |
| >13 | .0 | .0 | .0 | .1 | .1 | .2 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5 | 9 |
| INDET | .2 | .4 | .3 | .0 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12 | 3 |
| TOTAL | 7 | 49 | 215 | 211 | 184 | 85 | 51 | 25 | 24 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 857 | 6 |
| PCT | .8 | 5.7 | 25.1 | 24.6 | 21.5 | 9.9 | 6.0 | 2.9 | 2.8 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.8 | .2 | .4 | 1.6 | .0 | .7 | .1 | | 98.0 |
| NE | .0 | .0 | 3.7 | .0 | .0 | .0 | .0 | 5.7 | .0 | .0 | 2.1 | .0 | .0 | .4 | | 91.8 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.8 | .0 | .0 | .0 | | 98.7 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12.5 | .0 | .0 | .0 | .0 | .0 | | 87.5 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100.0 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100.0 |
| W | .0 | 1.4 | .0 | .0 | .0 | .0 | .0 | 1.4 | .0 | .0 | 1.4 | .0 | .0 | .0 | | 97.2 |
| NW | .2 | .2 | 1.2 | .0 | .0 | .0 | .0 | 1.8 | .4 | .0 | 2.1 | .0 | .8 | .0 | | 95.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100.0 |
| TOT PCT | .2 | .1 | 1.4 | .0 | .0 | .0 | .0 | 1.7 | .3 | .2 | 1.7 | .0 | .6 | .1 | | 98.4 |
| TOT OBS: | 995 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | 1.8 | .0 | .0 | .4 | .0 | 97.8 |
| 06&09 | .4 | .0 | 3.1 | .0 | .0 | .0 | .0 | 3.5 | .0 | .0 | 1.8 | .0 | .0 | .0 | .0 | 94.7 |
| 12&15 | .0 | .8 | 2.1 | .0 | .0 | .0 | .0 | 2.9 | .4 | .8 | 2.5 | .0 | 1.7 | .0 | .0 | 91.6 |
| 18&21 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | .8 | .0 | 1.1 | .0 | 1.1 | .0 | .0 | 96.6 |
| TOT PCT | .2 | .2 | 1.4 | .0 | .0 | .0 | .0 | 1.8 | .3 | .2 | 1.8 | .0 | .7 | .1 | | 95.2 |
| TOT OBS: | 1011 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.8 | 17.2 | 34.8 | 3.1 | .0 | .0 | | 56.8 | 13.1 | 59.7 | 57.9 | 55.1 | 61.5 | 56.8 | 52.2 | 55.6 | 56.0 |
| NE | .2 | 3.3 | 3.7 | * | .0 | .0 | | 7.2 | 11.4 | 5.4 | 7.2 | 7.0 | 8.3 | 9.0 | 6.1 | 6.5 | 11.7 |
| E | .0 | .9 | .2 | .0 | .0 | .0 | | 1.1 | 7.8 | .0 | .0 | 2.3 | .0 | 1.8 | 1.8 | .9 | .8 |
| SE | .4 | .4 | .0 | .0 | .0 | .0 | | .8 | 4.1 | .4 | 1.9 | .5 | .0 | .0 | .0 | .9 | 1.2 |
| S | .0 | .2 | .1 | .0 | .0 | .0 | | .3 | 9.8 | .4 | .0 | .8 | .0 | .0 | .0 | .5 | .0 |
| SW | .1 | .6 | .0 | .0 | .0 | .0 | | .7 | 6.2 | .1 | .0 | 1.2 | .0 | 1.1 | .0 | 1.5 | .0 |
| W | .3 | 2.2 | .8 | .0 | .0 | .0 | | 3.4 | 8.2 | 3.4 | 2.6 | 4.0 | .0 | 2.8 | 3.9 | 3.8 | 3.8 |
| NW | .5 | 12.3 | 13.3 | 1.1 | .0 | .0 | | 27.2 | 12.0 | 29.3 | 24.3 | 26.5 | 27.6 | 22.9 | 36.0 | 27.1 | 26.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.5 | | | | | | | 2.5 | .0 | 1.2 | .0 | 2.7 | 2.6 | 5.6 | .0 | 3.2 | .0 |
| TOT OBS | 61 | 386 | 952 | 44 | 0 | 0 | 1043 | | 12.0 | 242 | 38 | 187 | 39 | 180 | 57 | 217 | 83 |
| TOT PCT | 5.8 | 37.0 | 52.9 | 4.2 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 7.1 | 35.8 | 13.6 | .4 | .0 | | 56.8 | 13.1 | 59.5 | 56.2 | 55.7 | 55.8 |
| NE | 1.2 | 4.8 | 1.2 | .0 | .0 | | 7.2 | 11.4 | 5.6 | 7.2 | 8.3 | 7.9 |
| E | .5 | .6 | .0 | .0 | .0 | | 1.1 | 7.8 | .0 | 1.9 | 1.8 | .8 |
| SE | .6 | .2 | .0 | .0 | .0 | | .8 | 4.1 | 1.4 | .4 | .0 | 1.0 |
| S | .1 | .1 | .1 | .0 | .0 | | .3 | 9.8 | .4 | .7 | .0 | .3 |
| SW | .3 | .4 | .0 | .0 | .0 | | .7 | 6.2 | .1 | 1.0 | .8 | 1.1 |
| W | 1.2 | 2.1 | .1 | .0 | .0 | | 3.4 | 8.2 | 3.3 | 3.3 | 3.1 | 3.8 |
| NW | 5.0 | 16.4 | 5.7 | * | .0 | | 27.2 | 12.0 | 28.7 | 26.7 | 26.1 | 27.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.5 | | | | | | 2.5 | .0 | 1.1 | 2.7 | 4.2 | 2.3 |
| TOT OBS | 193 | 630 | 216 | 4 | 0 | 1043 | | 12.0 | 280 | 226 | 237 | 300 |
| TOT PCT | 18.5 | 60.4 | 20.7 | .4 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

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29.6N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 3.9 | 33.2 | 55.7 | 6.1 | .0 | .0 | 12.4 | 100.0 | 280 |
| 06&09 | 2.7 | 2.7 | 40.3 | 50.4 | 4.0 | .0 | .0 | 11.9 | 100.0 | 226 |
| 12&15 | 4.2 | 2.1 | 38.4 | 53.6 | 1.7 | .0 | .0 | 11.7 | 100.0 | 237 |
| 18&21 | 2.3 | 4.3 | 37.0 | 51.7 | 4.7 | .0 | .0 | 12.0 | 100.0 | 300 |
| TOT | 26 | 35 | 386 | 552 | 47 | 0 | 0 | 12.0 | | 1043 |
| PCT | 2.5 | 3.4 | 37.0 | 52.9 | 4.2 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 3.7 | 4.9 | 20.2 | 28.4 | | 6.6 |
| NE | .1 | .5 | 1.9 | 5.0 | | 7.3 |
| E | .1 | .0 | .2 | .5 | | 6.8 |
| SE | * | .0 | .0 | .4 | | 7.4 |
| S | .1 | .0 | .2 | .1 | | 5.1 |
| SW | .1 | .0 | .0 | .8 | | 7.2 |
| W | .1 | .0 | .9 | 1.9 | | 7.3 |
| NW | 1.3 | 2.1 | 8.7 | 15.1 | | 6.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .5 | .0 | .7 | 1.3 | | 5.9 |
| TOT OBS | 51 | 63 | 278 | 452 | 844 | 6.7 |
| TOT PCT | 6.0 | 7.5 | 32.9 | 53.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 100 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | 2.2 | 11.0 | 23.4 | 8.3 | 1.3 | .5 | .0 | .0 | 10.1 | |
| NE | .0 | .0 | .8 | 1.8 | 2.5 | 1.0 | * | .1 | .1 | .0 | 1.2 | |
| E | .0 | .0 | .1 | .2 | .4 | .1 | .0 | .0 | .0 | .0 | .1 | |
| SE | 0 | .0 | .0 | .1 | .0 | .2 | .1 | .0 | .0 | .0 | * | |
| S | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .1 | .1 | |
| SW | .0 | .0 | .0 | .0 | .3 | .4 | .0 | .1 | .0 | .0 | .1 | |
| W | .2 | .0 | .0 | .1 | 1.7 | .6 | .1 | .1 | .0 | .0 | .1 | |
| NW | .1 | .0 | 1.0 | 4.2 | 12.5 | 4.3 | .4 | .1 | .4 | .0 | 4.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .5 | .8 | .4 | .1 | .0 | .0 | .0 | .6 | |
| TOT OBS | 6 | 1 | 35 | 152 | 350 | 130 | 18 | 8 | 4 | 1 | 139 | 844 |
| TOT PCT | .7 | .1 | 4.1 | 18.0 | 41.5 | 15.4 | 2.1 | .9 | .5 | .1 | 16.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| * OR >5000 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| * OR >3500 | 3.2 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| * OR >2000 | 13.5 | 18.6 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| * OR >1000 | 41.5 | 58.9 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 |
| * OR >600 | 53.4 | 76.1 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 |
| * OR >300 | 56.0 | 79.6 | 82.3 | 82.3 | 82.3 | 82.3 | 82.7 | 82.7 |
| * OR >150 | 56.1 | 79.7 | 82.4 | 82.4 | 82.4 | 82.4 | 82.9 | 82.9 |
| * OR > 0 | 56.5 | 80.0 | 82.7 | 82.9 | 82.9 | 83.0 | 83.6 | 83.6 |
| TOTAL | 478 | 677 | 700 | 701 | 701 | 702 | 707 | 707 |

TOTAL NUMBER OF OBS: 846

PCT FREQ NH <5/8: 16.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 2.6 | 2.2 | 3.1 | 4.4 | 3.9 | 4.5 | 10.8 | 20.8 | 47.4 .3 | 881 |

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .2 | .4 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .6 | |
| <1/2 | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .2 | |
| | TOT % | .3 | .4 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .8 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | TOT % | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | PCP | .2 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .2 | |
| 1<2 | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .2 | |
| | TOT % | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .4 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 2<5 | NO PCP | 1.9 | .2 | .1 | .1 | .0 | .0 | .1 | .8 | .0 | .0 | 3.1 | |
| | TOT % | 1.9 | .2 | .1 | .1 | .0 | .0 | .1 | .8 | .0 | .0 | 3.1 | |
| | PCP | .3 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .4 | |
| 5<10 | NO PCP | 15.1 | 2.1 | .2 | .3 | .1 | .3 | 1.5 | 7.5 | .0 | .2 | 27.2 | |
| | TOT % | 15.3 | 2.1 | .2 | .3 | .1 | .3 | 1.5 | 7.6 | .0 | .2 | 27.6 | |
| | PCP | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .5 | |
| 10+ | NO PCP | 38.1 | 4.4 | .9 | .4 | .3 | .5 | 2.0 | 18.6 | .0 | 2.3 | 67.4 | |
| | TOT % | 38.4 | 4.4 | .9 | .4 | .3 | .5 | 2.0 | 18.8 | .0 | 2.3 | 67.9 | |
| | TOT OBS | | | | | | | | | | | | 993 |
| | TOT PCT | 56.3 | 7.0 | 1.1 | .8 | .4 | .8 | 3.5 | 27.5 | .0 | 2.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | 4-10 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .3 | |
| | 11-21 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | .4 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .8 | |
| | 0-3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| 1/2<1 | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | 0-3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| 1<2 | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | . | .2 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .4 | |
| | 0-3 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| 2<5 | 4-10 | .9 | .1 | * | .0 | .0 | .0 | .0 | .3 | .0 | | 1.4 | |
| | 11-21 | 1.6 | * | .0 | .0 | .0 | .0 | * | .6 | .0 | | 2.4 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | TOT % | 2.6 | .2 | * | .1 | .0 | .0 | * | 1.0 | .0 | .0 | 4.0 | |
| | 0-3 | .4 | .1 | .0 | .3 | .0 | .0 | .1 | .2 | .0 | .2 | 1.3 | |
| 5<10 | 4-10 | 3.5 | .7 | * | .0 | .0 | .3 | 1.2 | 2.9 | .0 | | 8.7 | |
| | 11-21 | 10.2 | 1.2 | .1 | .0 | .1 | .0 | .2 | 4.3 | .0 | | 16.2 | |
| | 22+ | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | 1.2 | |
| | TOT % | 15.2 | 2.1 | .1 | .3 | .1 | .3 | 1.5 | 7.5 | .0 | .2 | 27.3 | |
| | 0-3 | 1.1 | .1 | .0 | .0 | .0 | .1 | .3 | .2 | .0 | 2.3 | 4.2 | |
| 10+ | 4-10 | 12.3 | 1.8 | .7 | .4 | .2 | .3 | 1.1 | 8.9 | .0 | | 25.8 | |
| | 11-21 | 22.6 | 2.3 | .1 | .0 | .0 | .0 | .6 | 8.6 | .0 | | 34.2 | |
| | 22+ | 2.1 | * | .0 | .0 | .0 | .0 | .0 | .9 | .0 | | 3.1 | |
| | TOT % | 38.1 | 4.3 | .8 | .4 | .2 | .5 | 2.0 | 18.6 | .0 | 2.3 | 67.3 | |
| | TOT OBS | | | | | | | | | | | | 1003 |
| | TOT PCT | 56.6 | 7.0 | 1.0 | .8 | .3 | .8 | 3.5 | 27.4 | .0 | 2.5 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .0 | 3.2 | 18.6 | 40.9 | 13.8 | 3.2 | 1.2 | .8 | .4 | 82.2 | 17.8 | 247 |
| 06&09 | .5 | .0 | 4.7 | 15.1 | 38.5 | 14.6 | 1.6 | 1.6 | .0 | .0 | 76.6 | 23.4 | 192 |
| 12&15 | 1.1 | .5 | 4.3 | 20.3 | 40.6 | 16.0 | 1.1 | .0 | .5 | .0 | 84.5 | 15.5 | 187 |
| 18&21 | 1.3 | .0 | 4.4 | 18.2 | 44.9 | 16.9 | 2.2 | .9 | .4 | .0 | 89.3 | 10.7 | 225 |
| TOT | 6 | 1 | 35 | 154 | 352 | 130 | 18 | 8 | 4 | 1 | 709 | 142 | 851 |
| PCT | .7 | .1 | 4.1 | 18.1 | 41.4 | 15.3 | 2.1 | .9 | .5 | .1 | 83.3 | 16.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .4 | .4 | 3.2 | 23.5 | 72.2 | 281 |
| 06&09 | 1.3 | .4 | .0 | 3.5 | 34.4 | 60.4 | 227 |
| 12&15 | 1.2 | .4 | .8 | 5.3 | 31.7 | 60.5 | 243 |
| 18&21 | .4 | .0 | .7 | 3.7 | 24.6 | 70.5 | 268 |
| TOT | 8 | 3 | 5 | 40 | 287 | 676 | 1019 |
| PCT | .8 | .3 | .5 | 3.9 | 28.2 | 66.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.2 | 23.1 | 59.1 | 17.8 | 247 |
| 06&09 | .5 | 5.3 | 21.2 | 56.6 | 22.2 | 189 |
| 12&15 | 1.1 | 5.9 | 29.6 | 55.4 | 15.1 | 186 |
| 18&21 | 1.3 | 5.4 | 25.9 | 63.4 | 10.7 | 224 |
| TOT | 6 | 41 | 210 | 498 | 138 | 846 |
| PCT | .7 | 4.8 | 24.8 | 58.9 | 16.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .0 | .2 | .1 | .0 | .1 | 4 | .5 |
| 70/74 | .0 | .0 | .0 | .1 | 1.0 | 3.1 | 1.0 | .2 | 45 | 5.4 |
| 65/69 | .0 | .0 | .0 | .2 | 1.9 | 11.6 | 12.8 | 4.6 | 258 | 31.2 |
| 60/64 | .0 | .0 | .0 | .0 | .5 | 12.7 | 33.1 | 12.8 | 488 | 59.1 |
| 55/59 | .0 | .0 | .0 | .0 | .0 | .5 | 1.5 | 1.8 | 31 | 3.8 |
| TOTAL | 0 | 0 | 0 | 3 | 30 | 232 | 399 | 162 | 826 | 100.0 |
| PCT | .0 | .0 | .0 | .4 | 3.6 | 28.1 | 48.3 | 19.6 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .2 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 |
| 2.9 | .1 | .0 | .0 | .0 | .0 | .5 | 1.8 | .0 | .2 |
| 17.8 | 2.2 | .7 | .2 | .1 | .4 | .5 | 7.6 | .0 | 1.7 |
| 34.4 | 3.7 | .4 | .3 | .1 | .3 | 2.0 | 17.2 | .0 | .6 |
| 2.1 | .6 | .0 | .0 | .0 | .0 | .2 | .6 | .0 | .1 |
| 57.5 | 6.7 | 1.1 | .5 | .2 | .7 | 3.2 | 27.4 | .0 | 2.7 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 77 | 75 | 72 | 66 | 61 | 60 | 59 | 65.9 | 283 |
| 06&09 | 75 | 70 | 68 | 63 | 60 | 58 | 57 | 63.2 | 228 |
| 12&15 | 69 | 68 | 67 | 62 | 59 | 58 | 56 | 62.7 | 244 |
| 18&21 | 75 | 73 | 70 | 64 | 60 | 57 | 55 | 64.9 | 299 |
| TOT | 77 | 73 | 70 | 64 | 60 | 58 | 55 | 64.3 | 1054 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.3 | 6.6 | 34.5 | 45.6 | 11.9 | 80 | 226 |
| 06&09 | .0 | .0 | 1.6 | 22.3 | 56.0 | 20.1 | 84 | 184 |
| 12&15 | .0 | .0 | 1.0 | 15.6 | 53.8 | 29.6 | 85 | 199 |
| 18&21 | .0 | .0 | 4.5 | 37.6 | 40.3 | 17.6 | 81 | 221 |
| TOT | 0 | 3 | 30 | 233 | 402 | 162 | 82 | 830 |

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|
| 11/13 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | 2 | .0 | .2 |
| 9/10 | .0 | .0 | .0 | .0 | .6 | .3 | .0 | 9 | .0 | .9 |
| 7/8 | .0 | .0 | .0 | .0 | .4 | .1 | .0 | 5 | .0 | .5 |
| 6 | .0 | .1 | .0 | .4 | .9 | .1 | .0 | 15 | .1 | 1.5 |
| 5 | .0 | .0 | .6 | .9 | 1.8 | .1 | .0 | 33 | .1 | 3.4 |
| 4 | .0 | .0 | .4 | 2.1 | 1.2 | .3 | .0 | 38 | .0 | 4.0 |
| 3 | .0 | .2 | .4 | 2.1 | 1.3 | .0 | .0 | 38 | .0 | 4.0 |
| 2 | .0 | .1 | 2.4 | 4.2 | .7 | .1 | .0 | 72 | .1 | 7.4 |
| 1 | .0 | .2 | 2.9 | 3.6 | .8 | .0 | .0 | 72 | .1 | 7.4 |
| 0 | .1 | 1.3 | 6.9 | 6.9 | .5 | .0 | .0 | 150 | .4 | 15.3 |
| -1 | .0 | 1.0 | 8.9 | 5.5 | .1 | .1 | .0 | 149 | .3 | 15.3 |
| -2 | .0 | 1.8 | 9.6 | 2.9 | .1 | .0 | .0 | 138 | .2 | 14.3 |
| -3 | .0 | 1.6 | 7.4 | 1.3 | .1 | .0 | .0 | 99 | .1 | 10.3 |
| -4 | .0 | 1.2 | 4.6 | .1 | .1 | .0 | .0 | 57 | .1 | 5.9 |
| -5 | .0 | .7 | 2.2 | .5 | .0 | .0 | .0 | 33 | .0 | 3.5 |
| -6 | .1 | .9 | 1.7 | .0 | .0 | .0 | .0 | 26 | .0 | 2.7 |
| -7/-8 | .0 | .5 | .4 | .1 | .0 | .0 | .0 | 10 | .1 | .9 |
| -9/-10 | .0 | .2 | .3 | .0 | .0 | .0 | .0 | 5 | .0 | .5 |
| -11/-13 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | 3 | .1 | .2 |
| TOTAL | 2 | 94 | 470 | 292 | 84 | 11 | 1 | 954 | 17 | 937 |
| PCT | .2 | 9.9 | 49.3 | 30.6 | 8.8 | 1.2 | .1 | 100.0 | 1.8 | 98.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | .6 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .3 | 7.6 | 3.7 | .0 | .0 | .0 | 11.6 |
| 3-4 | .1 | 7.0 | 16.0 | .1 | .0 | .0 | 23.2 |
| 5-6 | .0 | 1.0 | 11.9 | .8 | .0 | .0 | 13.7 |
| 7 | .0 | .5 | 5.7 | 1.2 | .0 | .0 | 7.4 |
| 8-9 | .0 | .3 | 1.2 | .7 | .0 | .0 | 2.2 |
| 10-11 | .0 | .0 | .8 | .0 | .0 | .0 | .8 |
| 12 | .0 | .0 | .2 | .3 | .0 | .0 | .5 |
| 13-16 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 17.0 | 39.7 | 3.3 | .0 | .0 | 60.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | * | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .8 | .4 | .0 | .0 | .0 | 1.2 |
| 3-4 | * | .7 | .9 | * | .0 | .0 | 1.6 |
| 5-6 | .0 | .3 | 1.6 | * | .0 | .0 | 2.0 |
| 7 | .0 | .0 | .6 | .0 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.8 | 3.8 | .1 | .0 | .0 | 5.9 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .3 | .0 | .0 | .0 | .6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .0 | .0 | .0 | .0 | .3 |

PERIOD: (OVER-ALL) 1963-1973 JULY AREA 0031 SAN DIEGO 200 SW

TABLE 18 (CONT) 29.6N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .2 | .0 | .0 | .0 | .3 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .8 | .0 | .0 | .0 | .0 | .8 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | 1.3 | .2 | .0 | .0 | .0 | 1.4 |
| 3-4 | .2 | .3 | .5 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.1 | .7 | .0 | .0 | .0 | 2.9 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .0 | .4 | .2 | .0 | .0 | .0 | .6 | |
| 1-2 | .2 | 7.1 | 2.2 | .0 | .0 | .0 | 9.4 | |
| 3-4 | .0 | 3.5 | 7.0 | .2 | .0 | .0 | 10.7 | |
| 5-6 | .0 | .9 | 2.5 | .2 | .0 | .0 | 3.6 | |
| 7 | .0 | .0 | 1.4 | .3 | .0 | .0 | 1.7 | |
| 8-9 | .0 | .2 | .3 | .3 | .0 | .0 | .8 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .2 | 12.2 | 13.5 | 1.2 | .0 | .0 | 27.0 | 98.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.0 | 1.9 | .2 | .0 | .0 | .0 | 4.0 | |
| 1-2 | .7 | 17.2 | 6.6 | .0 | .0 | .0 | 24.4 | |
| 3-4 | .3 | 12.0 | 24.2 | .3 | .0 | .0 | 36.9 | |
| 5-6 | .0 | 2.5 | 16.3 | 1.0 | .0 | .0 | 19.9 | |
| 7 | .0 | .5 | 7.7 | 1.5 | .0 | .0 | 9.8 | |
| 8-9 | .0 | .5 | 1.7 | 1.0 | .0 | .0 | 3.2 | |
| 10-11 | .0 | .0 | .8 | .0 | .0 | .0 | .8 | |
| 12 | .0 | .0 | .2 | .5 | .0 | .0 | .7 | |
| 13-16 | .0 | .0 | .2 | .2 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 994 |
| TOT PCT | 3.0 | 34.5 | 57.9 | 4.5 | .0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .4 | 4.8 | 14.9 | 7.2 | 2.8 | 1.1 | .4 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 239 | 4 |
| 6-7 | .0 | 1.5 | 7.6 | 11.3 | 9.2 | 4.4 | 2.3 | .4 | 1.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 285 | 6 |
| 8-9 | .0 | .3 | 1.6 | 4.0 | 6.7 | 4.7 | 2.0 | .5 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 130 | 7 |
| 10-11 | .0 | .3 | .4 | 1.1 | 1.2 | 1.6 | .7 | .4 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 43 | 7 |
| 12-13 | .0 | .0 | .1 | .3 | .5 | .3 | .1 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12 | 8 |
| >13 | .0 | .0 | .0 | .3 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | 7 |
| INDET | .4 | .7 | .5 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18 | 3 |
| TOTAL | 6 | 56 | 189 | 185 | 155 | 91 | 41 | 11 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 751 | 6 |
| PCT | .8 | 7.5 | 25.2 | 24.6 | 20.6 | 12.1 | 5.5 | 1.5 | 1.6 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.1 | .1 | .0 | 3.3 | .2 | 1.0 | | .0 | 94.3 |
| NE | .2 | .0 | 4.7 | .0 | .0 | .0 | .0 | 4.9 | .9 | .0 | 1.7 | .0 | .9 | | .0 | 91.6 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 16.4 | .0 | 6.6 | | .0 | 77.0 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| W | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| NW | .3 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | .4 | .0 | 1.3 | .0 | 1.3 | | .0 | 96.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6.7 | .0 | .0 | | .0 | 93.3 |
| TOT PCT | .2 | .0 | 1.3 | .0 | .0 | .0 | .0 | 1.3 | .3 | .0 | 2.9 | .1 | 1.2 | | .0 | 94.3 |
| TOT OBS: | 1117 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .0 | .9 | .0 | .0 | .0 | .0 | .9 | .3 | .0 | 2.4 | .0 | .9 | | .0 | 95.5 |
| 06&09 | .4 | .0 | 2.1 | .0 | .0 | .0 | .0 | 2.5 | .8 | .0 | 2.5 | .0 | 1.2 | | .0 | 93.0 |
| 12&15 | .0 | .0 | 1.6 | .0 | .0 | .0 | .0 | 1.6 | .0 | .0 | 4.8 | .0 | .8 | | .0 | 92.8 |
| 18&21 | .3 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | 2.0 | .3 | 1.7 | | .0 | 95.4 |
| TOT PCT | .2 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.3 | .3 | .0 | 2.8 | .1 | 1.2 | | .0 | 94.3 |
| TOT OBS: | 1129 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .9 | 22.4 | 28.3 | 2.1 | .0 | .0 | | 53.6 | 12.2 | 56.2 | 50.9 | 54.2 | 50.0 | 52.4 | 59.5 | 53.3 | 48.1 |
| NE | .2 | 5.8 | 5.0 | .2 | .0 | .0 | | 11.2 | 11.0 | 8.5 | 13.9 | 11.9 | 12.3 | 15.1 | 15.5 | 7.1 | 15.8 |
| E | .4 | 2.2 | .7 | .2 | .0 | .0 | | 3.4 | 9.0 | 1.9 | 8.3 | 2.6 | 6.1 | 2.7 | 4.3 | 2.4 | 8.6 |
| SE | .0 | .0 | .0 | .2 | .0 | .0 | | .2 | 26.0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | 1.1 |
| S | .0 | .2 | .0 | .0 | .0 | .0 | | .2 | 5.9 | .4 | .0 | .4 | .0 | .0 | .0 | .0 | 1.1 |
| SW | .1 | .2 | .0 | .0 | .0 | .0 | | .3 | 5.4 | .0 | .0 | .3 | .0 | .5 | .0 | .4 | .6 |
| W | .2 | 1.3 | .8 | .0 | .0 | .0 | | 2.3 | 9.2 | 2.4 | 3.7 | .8 | 2.2 | 1.7 | 1.3 | 2.4 | 5.8 |
| NW | .4 | 12.5 | 13.4 | 1.3 | .0 | .0 | | 27.6 | 11.9 | 29.6 | 23.1 | 27.7 | 29.4 | 25.0 | 19.4 | 32.8 | 18.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.3 | | | | | | | 1.3 | .0 | 1.1 | .0 | 2.2 | .0 | 2.6 | .0 | 1.2 | .0 |
| TOT OBS | 40 | 518 | 560 | 46 | 0 | 0 | 1164 | | 11.6 | 283 | 54 | 185 | 57 | 194 | 58 | 243 | 90 |
| TOT PCT | 3.4 | 44.5 | 48.1 | 4.0 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.9 | 36.2 | 10.5 | .0 | .0 | | 53.6 | 12.2 | 55.3 | 53.2 | 54.1 | 51.9 |
| NE | 1.6 | 8.2 | 1.4 | .0 | .0 | | 11.2 | 11.0 | 9.3 | 12.0 | 13.2 | 9.5 |
| E | 1.4 | 1.8 | .2 | .1 | .0 | | 3.4 | 9.0 | 3.0 | 3.4 | 3.1 | 4.1 |
| SE | .0 | .0 | .1 | .1 | .0 | | .2 | 26.0 | .0 | .0 | .0 | .6 |
| S | .2 | .1 | .0 | .0 | .0 | | .2 | 5.9 | .3 | .3 | .0 | .3 |
| SW | .2 | .1 | .0 | .0 | .0 | | .3 | 5.4 | .0 | .2 | .4 | .5 |
| W | .7 | 1.6 | * | .0 | .0 | | 2.3 | 9.2 | 2.6 | 1.1 | 1.6 | 3.3 |
| NW | 3.4 | 19.9 | 4.3 | .1 | .0 | | 27.6 | 11.9 | 28.6 | 28.1 | 23.7 | 29.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.3 | | | | | | 1.3 | .0 | .9 | 1.7 | 2.0 | .9 |
| TOT OBS | 181 | 788 | 192 | 3 | 0 | 1164 | | 11.6 | 337 | 242 | 252 | 333 |
| TOT PCT | 15.5 | 67.7 | 16.5 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | 2.1 | 41.2 | 50.7 | 5.0 | .0 | .0 | 12.1 | 100.0 | 337 |
| 06&09 | 1.7 | 1.7 | 47.1 | 46.7 | 2.9 | .0 | .0 | 11.3 | 100.0 | 242 |
| 12&15 | 2.0 | 3.2 | 51.6 | 41.3 | 2.0 | .0 | .0 | 10.8 | 100.0 | 252 |
| 18&21 | .9 | 1.8 | 40.5 | 51.7 | 5.1 | .0 | .0 | 12.1 | 100.0 | 333 |
| TOT | 15 | 25 | 518 | 560 | 46 | 0 | 0 | 11.6 | | 1164 |
| PCT | 1.3 | 2.1 | 44.5 | 48.1 | 4.0 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.1 | 4.8 | 15.7 | 26.0 | | 6.2 |
| NE | 1.5 | 1.1 | 3.0 | 4.6 | | 6.1 |
| E | .5 | .2 | .2 | 1.4 | | 5.8 |
| SE | .0 | .0 | .0 | .1 | | 8.0 |
| S | .0 | .0 | .1 | .1 | | 7.4 |
| SW | * | .1 | .0 | .2 | | 5.8 |
| W | .2 | .1 | .7 | 1.3 | | 6.8 |
| NW | 3.3 | 1.8 | 7.5 | 16.9 | | 6.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .1 | .4 | 1.0 | | 7.2 |
| TOT OBS | 105 | 69 | 229 | 428 | 831 | 6.3 |
| TOT PCT | 2.6 | 8.3 | 27.6 | 51.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .0 | .0 | 1.6 | 9.9 | 20.7 | 6.0 | 1.6 | .1 | .1 | .0 | 13.5 | |
| NE | .0 | .0 | .4 | 1.9 | 3.5 | .6 | .3 | .0 | .1 | .0 | 3.4 | |
| E | .0 | .0 | .1 | .5 | .4 | .1 | .5 | .0 | .0 | .0 | .8 | |
| SE | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | |
| S | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | |
| SW | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .2 | |
| W | .0 | .0 | .0 | .6 | 1.1 | .2 | .0 | .0 | .0 | .0 | .4 | |
| NW | .0 | .0 | .6 | 6.1 | 12.2 | 4.1 | .6 | .0 | .0 | .0 | 6.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .1 | .6 | .5 | .0 | .0 | .0 | .0 | .1 | |
| TOT OBS | 0 | 0 | 24 | 158 | 322 | 96 | 25 | 1 | 2 | 0 | 203 | 831 |
| TOT PCT | .0 | .0 | 2.9 | 19.0 | 38.7 | 11.6 | 3.0 | .1 | .2 | .0 | 24.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .1 | .2 | .2 | .2 | .2 | .2 | .2 | .2 |
| * OR >5000 | .2 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| * OR >3500 | 1.8 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| * OR >2000 | 11.0 | 14.4 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| * OR >1000 | 42.0 | 52.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 |
| * OR >600 | 55.6 | 70.8 | 72.4 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 |
| * OR >300 | 57.4 | 73.4 | 75.2 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 |
| * OR >150 | 57.4 | 73.4 | 75.2 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 |
| * OR > 0 | 57.4 | 73.4 | 75.2 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 |
| TOTAL | 480 | 614 | 629 | 630 | 630 | 630 | 630 | 630 |

TOTAL NUMBER OF OBS: 836 PCT FREQ NH <5/8: 24.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 6.9 | 4.1 | 4.7 | 3.4 | 4.9 | 4.2 | 8.6 | 16.0 | 47.1 .0 | 879 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | * | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| | TOT % | .0 | * | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| 1/2<1 | PCP | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | |
| | NO PCP | 1.7 | .1 | * | .0 | .0 | .0 | .0 | .2 | .0 | .0 | 2.1 | |
| | TOT % | 1.9 | .2 | * | .0 | .0 | .0 | .0 | .2 | .0 | .0 | 2.3 | |
| 1<2 | PCP | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| | NO PCP | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| | TOT % | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| 2<5 | PCP | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| | NO PCP | .6 | * | .1 | .0 | .0 | .0 | .0 | .8 | .0 | .1 | 1.6 | |
| | TOT % | .6 | .1 | .1 | .0 | .0 | .0 | .0 | .8 | .0 | .1 | 1.7 | |
| 5<10 | PCP | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .8 | |
| | NO PCP | 14.6 | 1.7 | 1.0 | .2 | .0 | .0 | .5 | 7.0 | .0 | .2 | 25.1 | |
| | TOT % | 14.9 | 2.0 | 1.0 | .2 | .0 | .0 | .5 | 7.2 | .0 | .2 | 25.9 | |
| 10+ | PCP | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| | NO PCP | 36.8 | 7.9 | 1.2 | .0 | .2 | .2 | 1.8 | 20.1 | .0 | 1.1 | 69.1 | |
| | TOT % | 36.8 | 8.0 | 1.2 | .0 | .2 | .2 | 1.8 | 20.1 | .0 | 1.1 | 69.2 | |
| | TOT OBS | | | | | | | | | | | | 1117 |
| | TOT PCT | 54.4 | 10.4 | 2.7 | .2 | .2 | .2 | 2.2 | 28.3 | .0 | 1.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | * | .2 | .0 | .0 | .0 | .0 | .0 | .0 | | .3 | |
| | 11-21 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | * | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .8 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | | .9 | |
| | 11-21 | 1.1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | 1.3 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | 1.9 | .2 | * | .0 | .0 | .0 | .0 | .2 | .0 | .0 | 2.3 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | | .4 | |
| | 11-21 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .5 | |
| 2<5 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | |
| | 4-10 | .2 | * | .0 | .0 | .0 | .0 | .0 | .4 | .0 | | .6 | |
| | 11-21 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .5 | .0 | | 1.0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .6 | .1 | .1 | .0 | .0 | .0 | .0 | .8 | .0 | .1 | 1.7 | |
| 5<10 | 0-3 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .2 | .8 | |
| | 4-10 | 6.8 | .9 | .5 | .0 | .0 | .0 | .1 | 3.4 | .0 | | 11.8 | |
| | 11-21 | 7.6 | 1.0 | .2 | .0 | .0 | .0 | .3 | 3.4 | .0 | | 12.5 | |
| | 22+ | .1 | .0 | .2 | .2 | .0 | .0 | .0 | .3 | .0 | | .7 | |
| | TOT % | 14.8 | 2.0 | 1.0 | .2 | .0 | .0 | .5 | 7.2 | .0 | .2 | 25.8 | |
| 10+ | 0-3 | .6 | .1 | .1 | .0 | .0 | .1 | .2 | .2 | .0 | 1.1 | 2.4 | |
| | 4-10 | 14.3 | 4.2 | .8 | .0 | .2 | .1 | 1.2 | 9.1 | .0 | | 29.8 | |
| | 11-21 | 19.8 | 3.5 | .3 | .0 | .0 | .0 | .4 | 9.7 | .0 | | 33.8 | |
| | 22+ | 1.9 | .2 | .0 | .0 | .0 | .0 | .0 | 1.0 | .0 | | 3.1 | |
| | TOT % | 36.7 | 8.0 | 1.2 | .0 | .2 | .2 | 1.8 | 20.1 | .0 | 1.1 | 69.1 | |
| | TOT OBS | | | | | | | | | | | | 1118 |
| | TOT PCT | 54.4 | 10.5 | 2.7 | .2 | .2 | .2 | 2.2 | 28.3 | .0 | 1.3 | 100.0 | |

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .0 | 1.9 | 16.3 | 37.7 | 12.5 | 3.5 | .0 | .0 | .0 | 72.0 | 28.0 | 257 |
| 06&09 | .0 | .0 | 1.7 | 22.4 | 36.2 | 8.0 | 2.9 | .0 | .0 | .0 | 71.3 | 28.7 | 174 |
| 12&15 | .0 | .0 | 5.0 | 20.6 | 38.8 | 11.9 | 2.5 | .6 | .0 | .0 | 79.4 | 20.6 | 160 |
| 18&21 | .0 | .0 | 3.2 | 17.6 | 40.4 | 12.8 | 2.8 | .0 | .8 | .0 | 77.6 | 22.4 | 250 |
| TOT | 0 | 0 | 24 | 158 | 323 | 97 | 25 | 1 | 2 | 0 | 630 | 211 | 841 |
| PCT | .0 | .0 | 2.9 | 18.8 | 38.4 | 11.5 | 3.0 | .1 | .2 | .0 | 74.9 | 25.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .6 | 1.5 | .6 | .6 | 23.2 | 73.5 | 336 |
| 06&09 | .4 | 2.5 | .4 | 2.1 | 27.7 | 66.9 | 242 |
| 12&15 | .4 | 4.0 | .8 | 2.8 | 32.9 | 59.0 | 249 |
| 18&21 | .3 | 1.7 | .3 | 2.3 | 20.8 | 74.6 | 303 |
| TOT | 5 | 26 | 6 | 21 | 290 | 782 | 1130 |
| PCT | .4 | 2.3 | .5 | 1.9 | 25.7 | 69.2 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.9 | 18.3 | 53.7 | 28.0 | 257 |
| 06&09 | .0 | 1.7 | 25.6 | 46.5 | 27.9 | 172 |
| 12&15 | .0 | 5.0 | 27.5 | 52.5 | 20.0 | 160 |
| 18&21 | .0 | 3.2 | 22.7 | 55.9 | 21.5 | 247 |
| TOT | 0 | 24 | 191 | 440 | 205 | 836 |
| PCT | .0 | 2.9 | 22.8 | 52.6 | 24.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | 1 | .1 |
| 75/79 | .0 | .0 | .0 | .3 | .6 | .1 | .1 | .0 | 10 | 1.2 |
| 70/74 | .0 | .0 | .0 | .0 | 1.7 | 5.8 | 2.0 | .6 | 87 | 10.1 |
| 65/69 | .0 | .0 | .0 | .2 | 1.7 | 18.5 | 24.4 | 9.0 | 463 | 53.8 |
| 60/64 | .0 | .0 | .0 | .0 | .8 | 6.5 | 17.6 | 9.7 | 297 | 34.5 |
| 55/59 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | 2 | .2 |
| TOTAL | 0 | 0 | 0 | 5 | 43 | 266 | 379 | 167 | 860 | 100.0 |
| PCT | .0 | .0 | .0 | .6 | 5.0 | 30.9 | 44.1 | 19.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| | .9 | * | .1 | .0 | .0 | .0 | .1 | .1 | .0 | .0 |
| | 5.4 | 1.7 | .6 | .1 | .0 | .0 | .2 | 1.9 | .0 | .2 |
| | 27.6 | 5.2 | 1.3 | .0 | .1 | .2 | 1.1 | 17.5 | .0 | .9 |
| | 17.8 | 3.3 | .4 | .0 | .0 | .1 | 1.2 | 11.4 | .0 | .3 |
| | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 |
| | 51.6 | 10.4 | 2.3 | .1 | .1 | .3 | 2.6 | 31.1 | .0 | 1.5 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 77 | 73 | 67 | 62 | 60 | 60 | 67.1 | 340 |
| 06&09 | 82 | 74 | 68 | 65 | 61 | 60 | 60 | 64.8 | 244 |
| 12&15 | 84 | 73 | 68 | 64 | 61 | 60 | 57 | 64.4 | 256 |
| 18&21 | 79 | 77 | 72 | 66 | 63 | 60 | 58 | 66.8 | 336 |
| TOT | 84 | 77 | 72 | 65 | 62 | 60 | 57 | 66.0 | 1176 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .0 | 9.1 | 40.7 | 41.1 | 9.1 | 79 | 253 |
| 06&09 | .0 | .0 | 2.1 | 22.2 | 49.7 | 25.9 | 84 | 189 |
| 12&15 | .0 | .6 | 2.2 | 17.7 | 47.5 | 32.0 | 85 | 181 |
| 18&21 | .0 | 1.6 | 4.9 | 36.9 | 40.6 | 16.0 | 80 | 244 |
| TOT | 0 | 5 | 43 | 267 | 383 | 169 | 82 | 867 |

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|
| 11/13 | .0 | .0 | .0 | .1 | .2 | .2 | 5 | .0 | .5 |
| 9/10 | .0 | .0 | .0 | .0 | .4 | .2 | 6 | .0 | .6 |
| 7/8 | .0 | .1 | .1 | .7 | .3 | .1 | 13 | .0 | 1.2 |
| 6 | .0 | .0 | .3 | .8 | .6 | .0 | 17 | .0 | 1.6 |
| 5 | .0 | .1 | .6 | 1.8 | .2 | .1 | 29 | .0 | 2.7 |
| 4 | .0 | .3 | 1.0 | 1.3 | .6 | .0 | 34 | .2 | 3.0 |
| 3 | .0 | .0 | 2.1 | 1.4 | .0 | .0 | 37 | .1 | 3.4 |
| 2 | .1 | .7 | 3.6 | 2.3 | .2 | .0 | 72 | .2 | 6.6 |
| 1 | .0 | 1.3 | 5.9 | 1.8 | .1 | .0 | 97 | .3 | 8.9 |
| 0 | .2 | 4.2 | 10.1 | 1.1 | .0 | .0 | 166 | .6 | 15.1 |
| -1 | .0 | 4.7 | 9.8 | .5 | .0 | .0 | 159 | 1.0 | 13.9 |
| -2 | .1 | 7.2 | 6.3 | .2 | .0 | .0 | 146 | .4 | 13.4 |
| -3 | .4 | 5.7 | 4.9 | .2 | .0 | .0 | 118 | .0 | 11.1 |
| -4 | .3 | 6.0 | 2.4 | .0 | .0 | .0 | 92 | .2 | 8.5 |
| -5 | .1 | 2.9 | 1.4 | .0 | .0 | .0 | 47 | .0 | 4.4 |
| -6 | .1 | .8 | .2 | .0 | .0 | .0 | 11 | .0 | 1.0 |
| -7/-8 | .1 | .7 | .0 | .0 | .0 | .0 | 8 | .1 | .7 |
| -9/-10 | .0 | .4 | .0 | .0 | .0 | .0 | 4 | .0 | .4 |
| TOTAL | 14 | 371 | 516 | 128 | 26 | 6 | 1061 | 32 | 1029 |
| PCT | 1.3 | 35.0 | 48.6 | 12.1 | 2.5 | .6 | 100.0 | 3.0 | 97.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.9 | .0 | .0 | .0 | .0 | 2.2 |
| 1-2 | .3 | 9.5 | 4.5 | .0 | .0 | .0 | 14.3 |
| 3-4 | .2 | 7.1 | 12.4 | .6 | .0 | .0 | 20.3 |
| 5-6 | .0 | 1.4 | 9.1 | .3 | .0 | .0 | 10.8 |
| 7 | .0 | .1 | 3.5 | .6 | .0 | .0 | 4.2 |
| 8-9 | .0 | .0 | .6 | .5 | .0 | .0 | 1.0 |
| 10-11 | .0 | .0 | .7 | .8 | .0 | .0 | 1.5 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 20.1 | 30.8 | 2.8 | .0 | .0 | 54.4 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | 2.1 | 1.6 | .0 | .0 | .0 | 3.7 |
| 3-4 | .0 | 2.5 | 2.5 | .0 | .0 | .0 | 5.1 |
| 5-6 | .0 | .5 | .9 | .2 | .0 | .0 | 1.6 |
| 7 | .0 | .0 | .2 | .2 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 5.5 | 5.2 | .3 | .0 | .0 | 11.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .2 | 1.3 | .1 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 7 | .0 | .0 | .2 | .2 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.7 | .4 | .3 | .0 | .0 | 2.8 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .0 | .0 | .2 | .0 | .0 | .2 |

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0031 SAN DIEGO 200 SW

TABLE 18 (CONT) 29.5N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .1 | .0 | .0 | .0 | .0 | .1 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .0 | .0 | .0 | .0 | .2 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .0 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | 1.1 | .2 | .0 | .0 | .0 | 1.4 |
| 3-4 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.2 | .3 | .0 | .0 | .0 | 1.8 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .0 | .0 | .0 | .0 | .6 | |
| 1-2 | .1 | 7.8 | 3.0 | .0 | .0 | .0 | 10.8 | |
| 3-4 | .0 | 3.3 | 3.5 | .3 | .0 | .0 | 7.2 | |
| 5-6 | .2 | .9 | 4.8 | .5 | .0 | .0 | 6.3 | |
| 7 | .0 | * | .8 | .6 | .0 | .0 | 1.4 | |
| 8-9 | .0 | .0 | .7 | .0 | .0 | .0 | .7 | |
| 10-11 | .0 | .0 | .6 | .2 | .0 | .0 | .8 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .2 | 12.5 | 13.4 | 1.6 | .0 | .0 | 27.7 | 98.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.6 | 3.0 | .0 | .0 | .0 | .0 | 5.6 | |
| 1-2 | .6 | 22.5 | 9.3 | .0 | .0 | .0 | 32.4 | |
| 3-4 | .2 | 13.2 | 18.5 | 1.1 | .0 | .0 | 33.0 | |
| 5-6 | .2 | 2.7 | 14.8 | 1.1 | .0 | .0 | 18.8 | |
| 7 | .0 | .2 | 4.6 | 1.4 | .0 | .0 | 6.2 | |
| 8-9 | .0 | .0 | 1.3 | .5 | .0 | .0 | 1.8 | |
| 10-11 | .0 | .0 | 1.3 | 1.0 | .0 | .0 | 2.2 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 3.5 | 41.6 | 49.8 | 5.1 | .0 | .0 | 100.0 | 627 |

PERIOD: (OVER-ALL) 1950-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.3 | 10.5 | 16.2 | 10.0 | 2.7 | 1.3 | 1.2 | .0 | .4 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 330 | 4 |
| 6-7 | .0 | .8 | 6.5 | 9.5 | 5.5 | 3.3 | 1.5 | .7 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 209 | 6 |
| 8-9 | .0 | .0 | 1.3 | 4.3 | 4.4 | 2.5 | 1.6 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 108 | 7 |
| 10-11 | .0 | .3 | 1.2 | 2.0 | 1.7 | .5 | .5 | .7 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 56 | 7 |
| 12-13 | .0 | .0 | .3 | .0 | .1 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7 | 7 |
| >13 | .0 | .0 | .0 | .3 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | 8 |
| INDET | .8 | .4 | .7 | 1.1 | 1.2 | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 25 | 5 |
| TOTAL | 16 | 90 | 197 | 203 | 118 | 64 | 40 | 12 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 751 | 5 |
| PCT | 2.1 | 12.0 | 26.2 | 27.0 | 15.7 | 8.5 | 5.3 | 1.6 | 1.2 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | .4 | 1.2 | .0 | .0 | .0 | .0 | 1.8 | .2 | .0 | 2.9 | .0 | 1.5 | | .0 | 93.6 |
| NE | 7.0 | .0 | 1.8 | .0 | .0 | .0 | .0 | 8.8 | .0 | .0 | .0 | .0 | .0 | | .0 | 91.2 |
| E | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 | .0 | .0 | .0 | .0 | .0 | | .0 | 95.8 |
| SE | 45.0 | .0 | .0 | .0 | .0 | .0 | .0 | 45.0 | .0 | .0 | .0 | .0 | .0 | | .0 | 55.0 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| SW | 16.1 | .0 | .0 | .0 | .0 | .0 | .0 | 16.1 | .0 | .0 | .0 | .0 | .0 | | .0 | 83.9 |
| W | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | 2.0 | 2.6 | .0 | .0 | .0 | .0 | | .0 | 95.4 |
| NW | .1 | .7 | .8 | .0 | .0 | .0 | .0 | 1.6 | .7 | .0 | 2.7 | .4 | 2.9 | | .0 | 91.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | 100.0 |
| TOT PCT | 1.1 | .4 | 1.0 | .0 | .0 | .0 | .0 | 2.6 | .4 | .0 | 2.3 | .1 | 1.7 | | .0 | 92.8 |
| TOT OBS: | 895 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .8 | .4 | .4 | .0 | .0 | .0 | .0 | 1.5 | .4 | .0 | 3.5 | .0 | 2.3 | | .0 | 92.3 |
| 06&09 | 1.4 | .5 | .9 | .0 | .0 | .0 | .0 | 2.8 | .5 | .0 | 1.9 | .0 | 1.4 | | .0 | 93.4 |
| 12&15 | 1.4 | .9 | 2.3 | .0 | .0 | .0 | .0 | 4.5 | .0 | .0 | 2.3 | .5 | 1.8 | | .0 | 91.0 |
| 18&21 | .9 | .0 | .5 | .0 | .0 | .0 | .0 | 1.4 | .9 | .0 | 1.4 | .5 | .9 | | .0 | 95.0 |
| TOT PCT | 1.1 | .4 | 1.0 | .0 | .0 | .0 | .0 | 2.5 | .4 | .0 | 2.3 | .2 | 1.6 | | .0 | 92.9 |
| TOT OBS: | 914 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.1 | 21.3 | 27.5 | 2.4 | .0 | .0 | | 52.3 | 12.1 | 48.8 | 64.4 | 47.7 | 58.5 | 50.7 | 58.9 | 52.9 | 59.9 |
| NE | .2 | 2.6 | 3.9 | .4 | .0 | .0 | | 7.1 | 12.8 | 7.8 | 6.9 | 6.3 | 6.8 | 8.0 | 4.8 | 6.3 | 9.2 |
| E | .2 | 1.0 | .8 | .0 | .0 | .0 | | 2.0 | 10.2 | 1.8 | 2.1 | 2.4 | 1.7 | 2.7 | .0 | 1.7 | 1.4 |
| SE | .2 | .2 | .2 | .1 | .0 | .0 | | .6 | 11.4 | .1 | .0 | .9 | .6 | .7 | .0 | .7 | 2.1 |
| S | .0 | .5 | .0 | .1 | .0 | .0 | | .5 | 9.1 | .5 | .0 | 1.5 | .0 | .4 | .0 | .4 | .0 |
| SW | .0 | .7 | .2 | .1 | .0 | .0 | | .9 | 9.8 | 1.1 | .0 | .2 | .0 | 1.1 | 2.4 | 1.3 | 1.4 |
| W | .1 | 3.2 | .7 | .0 | .0 | .0 | | 4.0 | 8.2 | 4.1 | 1.6 | 6.6 | .0 | 3.0 | 2.4 | 5.3 | 2.5 |
| NW | .5 | 15.2 | 13.5 | 1.2 | .0 | .0 | | 30.3 | 11.6 | 33.0 | 22.9 | 33.2 | 30.1 | 29.5 | 31.5 | 29.7 | 23.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.1 | | | | | | | 2.1 | .0 | 2.8 | 2.1 | 1.2 | 2.3 | 3.8 | .0 | 1.7 | .0 |
| TOT OBS | 41 | 420 | 440 | 40 | 0 | 0 | 941 | | 11.5 | 212 | 47 | 164 | 44 | 182 | 42 | 179 | 71 |
| TOT PCT | 4.4 | 44.6 | 46.8 | 4.3 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 7.6 | 34.9 | 9.7 | .0 | .0 | | 52.3 | 12.1 | 51.6 | 50.0 | 52.2 | 54.9 |
| NE | 1.4 | 3.6 | 2.0 | .1 | .0 | | 7.1 | 12.8 | 7.6 | 6.4 | 7.4 | 7.1 |
| E | .4 | 1.4 | .2 | .0 | .0 | | 2.0 | 10.2 | 1.8 | 2.3 | 2.2 | 1.6 |
| SE | .3 | .1 | .2 | .0 | .0 | | .6 | 11.4 | .1 | .8 | .6 | 1.1 |
| S | .3 | .1 | .1 | .0 | .0 | | .5 | 9.1 | .4 | 1.2 | .3 | .3 |
| SW | .3 | .5 | .1 | .0 | .0 | | .9 | 9.8 | .9 | .1 | 1.3 | 1.3 |
| W | 1.4 | 2.5 | .2 | .0 | .0 | | 4.0 | 8.2 | 3.7 | 5.2 | 2.9 | 4.5 |
| NW | 6.3 | 18.0 | 6.1 | .0 | .0 | | 30.3 | 11.6 | 31.2 | 32.6 | 29.9 | 28.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.1 | | | | | | 2.1 | .0 | 2.7 | 1.4 | 3.1 | 1.2 |
| TOT OBS | 191 | 574 | 175 | 1 | 0 | 941 | | 11.5 | 259 | 208 | 224 | 250 |
| TOT PCT | 20.3 | 61.0 | 18.6 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.7 | 1.2 | 40.2 | 51.4 | 4.6 | .0 | .0 | 12.0 | 100.0 | 259 |
| 06&09 | 1.4 | 2.9 | 50.0 | 39.9 | 5.8 | .0 | .0 | 11.4 | 100.0 | 208 |
| 12&15 | 3.1 | 1.3 | 48.2 | 43.8 | 3.6 | .0 | .0 | 11.2 | 100.0 | 224 |
| 18&21 | 1.2 | 3.6 | 41.6 | 50.4 | 3.2 | .0 | .0 | 11.4 | 100.0 | 250 |
| TOT | 20 | 21 | 420 | 440 | 40 | 0 | 0 | 11.5 | | 941 |
| PCT | 2.1 | 2.2 | 44.6 | 46.8 | 4.3 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.3 | 6.2 | 14.0 | 20.5 | | 5.6 |
| NE | 1.0 | 1.2 | 1.7 | 2.4 | | 5.5 |
| E | .2 | .3 | 1.0 | .9 | | 6.1 |
| SE | .2 | .0 | * | .4 | | 5.5 |
| S | .0 | .1 | .1 | .3 | | 6.6 |
| SW | .2 | * | .3 | .5 | | 6.2 |
| W | 1.1 | .6 | .9 | 2.0 | | 5.4 |
| NW | 7.1 | 3.1 | 10.0 | 12.6 | | 5.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .3 | .5 | .5 | .8 | | 5.3 |
| TOT OBS | 128 | 79 | 189 | 266 | 662 | 5.6 |
| TOT PCT | 19.3 | 11.9 | 28.5 | 40.2 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .4 | .1 | .8 | 6.1 | 18.4 | 6.5 | .4 | .3 | .1 | .2 | 16.7 | |
| NE | .0 | .2 | .2 | 1.0 | 1.5 | .8 | .0 | .0 | .0 | .0 | 2.8 | |
| E | .0 | .2 | .0 | .5 | .9 | .2 | .0 | .0 | .0 | .0 | .6 | |
| SE | .0 | .0 | .0 | * | .3 | * | .0 | .0 | .0 | .0 | .2 | |
| S | .0 | .0 | .2 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | |
| SW | .0 | .0 | .2 | .2 | .5 | .0 | .0 | .0 | .0 | .0 | .2 | |
| W | .0 | .0 | .3 | 1.1 | .8 | .4 | .2 | .0 | .1 | .0 | 1.9 | |
| NW | * | * | .9 | 4.4 | 9.9 | 4.2 | 1.1 | .0 | .2 | .0 | 11.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .0 | .3 | .6 | .0 | .2 | .0 | .0 | .0 | .9 | |
| TOT OBS | 3 | 3 | 16 | 90 | 219 | 80 | 12 | 2 | 3 | 1 | 233 | 662 |
| TOT PCT | .5 | .5 | 2.4 | 13.6 | 33.1 | 12.1 | 1.8 | .3 | .5 | .2 | 35.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

| CEILING (FEET) | VSBY (NH) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| * OR >4000 | .7 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >3500 | 1.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| * OR >2000 | 11.6 | 14.6 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |
| * OR >1000 | 37.3 | 46.4 | 47.4 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 |
| * OR >600 | 46.5 | 58.5 | 60.6 | 61.2 | 61.4 | 61.4 | 61.4 | 61.4 |
| * OR >300 | 48.1 | 60.9 | 63.0 | 63.6 | 63.7 | 63.7 | 63.7 | 63.7 |
| * OR >150 | 48.6 | 61.5 | 63.6 | 64.2 | 64.3 | 64.3 | 64.3 | 64.3 |
| * OR > 0 | 48.7 | 61.8 | 64.0 | 64.6 | 64.8 | 64.8 | 64.8 | 64.8 |
| TOTAL | 328 | 416 | 431 | 435 | 436 | 436 | 436 | 436 |

TOTAL NUMBER OF OBS: 673

PCT FREQ NH <5/8: 35.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 8.6 | 6.4 | 8.0 | 7.4 | 4.5 | 4.9 | 7.0 | 15.8 | 37.3 .1 | 669 |

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | PCP | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .2 | |
| | NO PCP | 1.2 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | 1.9 | |
| | TOT % | 1.2 | .1 | .0 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 2.1 | |
| 1<2 | PCP | .0 | .1 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .3 | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | TOT % | .0 | .1 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .3 | |
| 2<5 | PCP | .1 | .2 | .1 | .1 | .0 | * | .1 | .0 | .0 | .0 | .7 | |
| | NO PCP | .6 | .1 | .2 | .0 | .0 | .0 | .3 | .5 | .0 | .0 | 1.7 | |
| | TOT % | .8 | .3 | .3 | .1 | .0 | * | .4 | .5 | .0 | .0 | 2.3 | |
| 5<10 | PCP | .6 | .1 | .0 | .0 | .0 | .0 | .0 | .4 | .0 | .0 | 1.1 | |
| | NO PCP | 15.4 | .8 | .3 | * | .0 | .0 | .2 | 10.0 | .0 | .6 | 27.3 | |
| | TOT % | 16.0 | 1.0 | .3 | * | .0 | .0 | .2 | 10.3 | .0 | .6 | 28.4 | |
| 10+ | PCP | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | NO PCP | 33.7 | 4.9 | 1.5 | .3 | .6 | .7 | 3.6 | 19.7 | .0 | 1.6 | 66.6 | |
| | TOT % | 33.9 | 4.9 | 1.5 | .3 | .6 | .7 | 3.6 | 19.7 | .0 | 1.6 | 66.8 | |
| TOT OBS | | | | | | | | | | | | | 894 |
| TOT PCT | | 52.0 | 6.3 | 2.0 | .6 | .6 | .9 | 4.3 | 31.3 | .0 | 2.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | 1.2 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .0 | | 1.8 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .2 | |
| | 22+ | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | TOT % | 1.2 | .1 | .0 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 2.1 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | | .1 | |
| | TOT % | .0 | .1 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .3 | |
| 2<5 | 0-3 | .0 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | |
| | 4-10 | .3 | .0 | .0 | .1 | .0 | .0 | .3 | .3 | .0 | | 1.1 | |
| | 11-21 | .4 | .1 | .2 | * | .0 | * | .1 | * | .0 | | .9 | |
| | 22+ | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | | .3 | |
| | TOT % | .8 | .3 | .3 | .3 | .0 | * | .4 | .5 | .0 | .0 | 2.4 | |
| 5<10 | 0-3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .6 | .8 | |
| | 4-10 | 7.4 | .3 | .0 | .0 | .0 | .0 | .2 | 4.7 | .0 | | 12.6 | |
| | 11-21 | 7.6 | .5 | .3 | * | .0 | .0 | .0 | 4.7 | .0 | | 13.1 | |
| | 22+ | .9 | .2 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | | 1.8 | |
| | TOT % | 15.9 | .9 | .3 | * | .0 | .0 | .2 | 10.3 | .0 | .6 | 28.2 | |
| 10+ | 0-3 | 1.0 | .2 | .1 | .2 | .0 | .0 | .1 | .4 | .0 | 1.7 | 3.6 | |
| | 4-10 | 12.5 | 2.3 | 1.0 | .1 | .3 | .6 | 2.8 | 10.2 | .0 | | 30.0 | |
| | 11-21 | 19.1 | 2.4 | .4 | .0 | .0 | .1 | .7 | 8.9 | .0 | | 31.6 | |
| | 22+ | 1.3 | .0 | .0 | * | .1 | .0 | .0 | .4 | .0 | | 1.8 | |
| | TOT % | 33.9 | 4.9 | 1.5 | .3 | .6 | .7 | 3.6 | 19.8 | .0 | 1.7 | 66.9 | |
| TOT OBS | | | | | | | | | | | | | 900 |
| TOT PCT | | 51.8 | 6.3 | 2.0 | .7 | .6 | .9 | 4.2 | 31.3 | .0 | 2.2 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | .0 | 3.1 | 14.1 | 27.1 | 12.5 | 1.6 | .0 | .5 | .0 | 59.9 | 40.1 | 192 |
| 06&09 | .0 | 1.2 | 3.7 | 11.7 | 32.7 | 9.3 | 1.9 | .0 | .6 | .0 | 61.1 | 38.9 | 162 |
| 12&15 | .7 | 1.4 | 1.4 | 17.8 | 37.7 | 10.3 | 1.4 | .0 | .7 | .0 | 71.2 | 28.8 | 146 |
| 18&21 | .0 | .0 | 1.7 | 10.1 | 36.5 | 15.2 | 2.2 | 1.1 | .0 | .6 | 67.4 | 32.6 | 178 |
| TOT | 3 | 4 | 17 | 90 | 225 | 81 | 12 | 2 | 3 | 1 | 438 | 240 | 678 |
| PCT | .4 | .6 | 2.5 | 13.3 | 33.2 | 11.9 | 1.8 | .3 | .4 | .1 | 64.6 | 35.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.1 | .0 | 1.5 | 26.9 | 68.5 | 260 |
| 06&09 | .0 | 2.3 | .0 | 4.2 | 29.6 | 63.8 | 213 |
| 12&15 | .0 | 1.8 | .9 | 1.3 | 35.9 | 60.1 | 223 |
| 18&21 | .0 | .9 | .9 | 2.7 | 20.2 | 75.3 | 223 |
| TOT | 0 | 19 | 4 | 22 | 258 | 616 | 919 |
| PCT | .0 | 2.1 | .4 | 2.4 | 28.1 | 67.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.0 | 4.7 | 19.9 | 41.4 | 38.7 | 191 |
| 06&09 | .0 | 5.6 | 20.0 | 41.9 | 38.1 | 160 |
| 12&15 | .7 | 3.4 | 23.4 | 49.0 | 27.6 | 145 |
| 18&21 | .0 | 1.1 | 13.6 | 53.7 | 32.8 | 177 |
| TOT | 3 | 25 | 128 | 312 | 233 | 673 |
| PCT | .4 | 3.7 | 19.0 | 46.4 | 34.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | 2 | .3 |
| 75/79 | .0 | .0 | .0 | .2 | 1.1 | .6 | .0 | .0 | 12 | 1.8 |
| 70/74 | .0 | .0 | .0 | .9 | 3.5 | 6.6 | 4.9 | 1.5 | 114 | 17.5 |
| 65/69 | .0 | .0 | .0 | .3 | 5.7 | 17.9 | 16.7 | 10.6 | 334 | 51.2 |
| 60/64 | .0 | .0 | .0 | .0 | .9 | 9.5 | 13.2 | 5.4 | 189 | 29.0 |
| 55/59 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | 1 | .2 |
| TOTAL | 0 | 0 | 0 | 9 | 73 | 228 | 228 | 114 | 652 | 100.0 |
| PCT | .0 | .0 | .0 | 1.4 | 11.2 | 35.0 | 35.0 | 17.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .3 | .2 | .2 | .0 | .0 | .0 | .1 | .9 | .0 | .2 |
| 7.9 | 1.5 | .5 | .1 | .1 | .2 | .4 | 5.9 | .0 | .8 |
| 24.4 | 3.1 | 1.5 | .5 | .7 | .5 | 3.0 | 16.4 | .0 | 1.1 |
| 16.6 | 1.5 | .5 | .0 | .0 | .2 | .9 | 9.5 | .0 | .2 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 |
| 49.4 | 6.4 | 2.5 | .5 | .8 | .9 | 4.4 | 32.9 | .0 | 2.1 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 76 | 74 | 68 | 63 | 61 | 60 | 67.9 | 263 |
| 06&09 | 84 | 78 | 70 | 65 | 62 | 60 | 59 | 65.4 | 214 |
| 12&15 | 82 | 80 | 70 | 65 | 61 | 60 | 60 | 65.2 | 225 |
| 18&21 | 76 | 75 | 73 | 67 | 63 | 61 | 60 | 67.3 | 249 |
| TOT | 84 | 76 | 72 | 66 | 62 | 60 | 59 | 66.5 | 951 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 4.0 | 16.6 | 32.6 | 36.0 | 10.9 | 78 | 175 |
| 06&09 | .0 | .0 | 5.7 | 31.2 | 38.9 | 24.2 | 82 | 157 |
| 12&15 | .0 | .6 | 6.4 | 34.0 | 34.6 | 24.4 | 81 | 156 |
| 18&21 | .0 | .6 | 15.1 | 41.9 | 31.3 | 11.2 | 78 | 179 |
| TOT | 0 | 9 | 73 | 234 | 234 | 115 | 80 | 667 |

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|
| 14/18 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 1 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | 2 | .0 | .2 |
| 9/10 | .0 | .0 | .0 | .1 | .4 | .0 | .0 | 4 | .0 | .3 |
| 7/8 | .0 | .0 | .1 | .4 | .0 | .1 | .0 | 5 | .0 | .6 |
| 6 | .0 | .0 | .4 | .4 | .2 | .0 | .0 | 6 | .0 | .9 |
| 5 | .0 | .0 | .2 | 1.4 | 1.4 | .0 | .0 | 26 | .0 | 3.1 |
| 4 | .0 | .1 | 1.2 | 2.3 | .7 | .0 | .0 | 38 | .1 | 4.4 |
| 3 | .1 | .0 | 1.1 | 1.3 | .7 | .0 | .0 | 29 | .0 | 3.4 |
| 2 | .0 | .1 | 2.9 | 2.7 | .0 | .0 | .0 | 49 | .1 | 5.6 |
| 1 | .0 | .4 | 4.6 | 2.8 | .4 | .0 | .0 | 69 | .2 | 7.9 |
| 0 | .0 | 3.6 | 8.7 | 2.2 | .2 | .0 | .0 | 126 | .2 | 14.6 |
| -1 | .0 | 4.0 | 10.9 | 1.1 | .0 | .0 | .0 | 138 | .7 | 15.3 |
| -2 | .1 | 6.1 | 8.9 | 1.3 | .1 | .0 | .0 | 141 | .6 | 16.0 |
| -3 | .4 | 5.2 | 2.8 | .3 | .0 | .0 | .0 | 72 | .4 | 8.1 |
| -4 | .3 | 4.0 | 3.2 | .2 | .0 | .0 | .0 | 67 | .0 | 7.9 |
| -5 | .1 | 2.8 | 1.5 | .4 | .0 | .0 | .0 | 41 | .0 | 4.8 |
| -6 | .1 | 1.2 | .6 | .0 | .0 | .0 | .0 | 16 | .0 | 1.9 |
| -7/-8 | .0 | 1.4 | .7 | .0 | .0 | .0 | .0 | 18 | .0 | 2.1 |
| -11/-13 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | 2 | .0 | .2 |
| TOTAL | 11 | 247 | 405 | 149 | 36 | 1 | 1 | 850 | 20 | 830 |
| PCT | 1.3 | 29.1 | 47.6 | 17.5 | 4.2 | .1 | .1 | 100.0 | 2.4 | 97.6 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.0 | .0 | .0 | .0 | .0 | 1.3 |
| 1-2 | .6 | 8.2 | 5.6 | .0 | .0 | .0 | 14.4 |
| 3-4 | .0 | 4.7 | 12.4 | 1.0 | .0 | .0 | 18.1 |
| 5-6 | .0 | 1.5 | 9.8 | .2 | .0 | .0 | 11.4 |
| 7 | .0 | .2 | 2.5 | .7 | .0 | .0 | 3.4 |
| 8-9 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .3 | .2 | .2 | .0 | .0 | .7 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 16.2 | 30.8 | 2.1 | .0 | .0 | 50.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .0 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | 1.7 | .5 | .0 | .0 | .0 | 2.2 |
| 3-4 | .0 | .8 | 1.6 | .2 | .0 | .0 | 2.6 |
| 5-6 | .0 | .1 | .3 | .2 | .0 | .0 | .6 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.5 | 2.4 | .4 | .0 | .0 | 5.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .0 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | 1.0 | .4 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .6 | .5 | .0 | .0 | .0 | 1.0 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.6 | 1.2 | .0 | .0 | .0 | 3.0 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .3 | .3 | .0 | .0 | .7 |

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .9 | .0 | .2 | .0 | .0 | 1.0 | .0 | .7 | .1 | .2 | .0 | .0 | 1.0 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | 1.4 | .0 | .0 | .0 | .0 | 1.6 | .2 | 2.0 | .0 | .0 | .0 | .0 | 2.2 | |
| 1-2 | .0 | 1.7 | .4 | .0 | .0 | .0 | 2.1 | .4 | 6.8 | 1.6 | .0 | .0 | .0 | 8.8 | |
| 3-4 | .0 | .4 | .2 | .0 | .0 | .0 | .6 | .0 | 3.9 | 6.0 | .2 | .0 | .0 | 10.1 | |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .0 | 1.7 | 4.2 | .3 | .0 | .0 | 6.2 | |
| 7 | .0 | .4 | .3 | .0 | .0 | .0 | .7 | .0 | .4 | 2.2 | .6 | .0 | .0 | 3.2 | |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .6 | .0 | .0 | .0 | .7 | |
| 10-11 | .0 | .2 | .0 | .0 | .0 | .0 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .2 | 4.1 | 1.1 | .0 | .0 | .0 | 5.4 | .6 | 15.1 | 14.6 | 1.0 | .0 | .0 | 31.3 | 98.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.9 | 4.3 | .0 | .0 | .0 | .0 | 8.2 | |
| 1-2 | 1.0 | 20.4 | 8.4 | .0 | .0 | .0 | 29.9 | |
| 3-4 | .0 | 10.8 | 20.4 | 1.4 | .0 | .0 | 32.7 | |
| 5-6 | .0 | 3.5 | 14.5 | .6 | .0 | .0 | 18.6 | |
| 7 | .0 | 1.0 | 5.3 | 1.6 | .0 | .0 | 8.0 | |
| 8-9 | .0 | .4 | .8 | .0 | .0 | .0 | 1.2 | |
| 10-11 | .0 | .6 | .2 | .4 | .0 | .0 | 1.2 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 4.9 | 41.1 | 49.9 | 4.1 | .0 | .0 | 100.0 | 489 |

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .5 | 7.5 | 14.6 | 7.2 | 3.0 | .7 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 203 | 4 |
| 6-7 | .0 | 2.3 | 8.8 | 12.8 | 8.0 | 2.2 | 2.3 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 220 | 5 |
| 8-9 | .0 | .2 | 1.5 | 4.3 | 6.2 | 2.0 | 2.0 | .8 | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 107 | 7 |
| 10-11 | .0 | .0 | .8 | 1.8 | 1.2 | .7 | .2 | .2 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 31 | 6 |
| 12-13 | .0 | .0 | .3 | .2 | .2 | .5 | .7 | .2 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14 | 9 |
| >13 | .0 | .0 | .0 | .3 | .2 | .5 | .0 | .0 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | 9 |
| INDET | 1.7 | .5 | .5 | .0 | .2 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18 | 2 |
| TOTAL | 13 | 63 | 160 | 160 | 113 | 39 | 34 | 7 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 601 | 5 |
| PCT | 2.2 | 10.5 | 26.6 | 26.6 | 18.8 | 6.5 | 5.7 | 1.2 | 1.7 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | 1.2 | .8 | .0 | .0 | .0 | .0 | 2.2 | .5 | .0 | 1.6 | .2 | 1.0 | .0 | | 94.6 |
| NE | .0 | 1.6 | 1.0 | .0 | .0 | .0 | .0 | 2.6 | .3 | .0 | 2.1 | .5 | 2.1 | .0 | | 92.4 |
| E | 5.3 | .0 | .0 | .0 | .0 | .0 | .0 | 5.3 | .0 | .0 | .0 | .0 | 9.2 | .0 | | 85.5 |
| SE | .0 | 6.3 | .0 | .0 | .0 | .0 | .0 | 6.3 | .0 | .0 | .0 | .0 | 3.1 | .0 | | 90.6 |
| S | .0 | 1.8 | 6.4 | .0 | .0 | .0 | .0 | 8.3 | .0 | .0 | .0 | .0 | .0 | .0 | | 91.7 |
| SW | 2.5 | .0 | .6 | .0 | .0 | .0 | .0 | 3.1 | .0 | .0 | 8.6 | .0 | 5.5 | .0 | | 82.8 |
| W | 1.3 | .7 | .7 | .0 | .0 | .0 | .0 | 2.6 | 1.3 | .0 | .7 | .0 | 3.3 | .0 | | 92.1 |
| NW | .7 | 1.2 | .7 | .0 | .0 | .0 | .0 | 2.6 | 1.0 | .0 | 1.7 | .1 | 1.2 | .3 | | 93.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.3 | .0 | .0 | | 94.7 |
| TOT PCT | .5 | 1.2 | .9 | .0 | .0 | .0 | .0 | 2.6 | .6 | .0 | 1.8 | .3 | 1.6 | .1 | | 93.1 |
| TOT OBS: | 1124 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .6 | .9 | .0 | .0 | .0 | .0 | 1.5 | .6 | .0 | 2.1 | .0 | 2.4 | .3 | | 93.2 |
| 06&09 | .4 | 1.3 | .8 | .0 | .0 | .0 | .0 | 2.5 | .4 | .0 | 2.5 | .0 | 2.1 | .0 | | 92.5 |
| 12&15 | 1.0 | 2.3 | 1.3 | .0 | .0 | .0 | .0 | 4.6 | .7 | .0 | 1.3 | 1.0 | .7 | .0 | | 91.8 |
| 18&21 | .8 | .4 | .4 | .0 | .0 | .0 | .0 | 1.5 | .8 | .0 | 1.1 | .0 | 1.1 | .0 | | 95.5 |
| TOT PCT | .5 | 1.1 | .9 | .0 | .0 | .0 | .0 | 2.5 | .6 | .0 | 1.7 | .3 | 1.6 | .1 | | 93.2 |
| TOT OBS: | 1146 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.0 | 20.0 | 20.4 | 2.7 | .0 | .0 | | 45.1 | 12.0 | 48.3 | 44.5 | 44.9 | 48.5 | 42.5 | 48.6 | 41.0 | 45.1 |
| NE | .7 | 4.5 | 3.3 | .3 | .0 | .0 | | 8.8 | 10.0 | 7.4 | 7.8 | 8.1 | 16.2 | 6.6 | 12.1 | 7.9 | 10.8 |
| E | .3 | 1.2 | .4 | .0 | .0 | .0 | | 1.9 | 8.3 | 1.3 | 1.3 | 1.6 | 1.5 | 2.8 | .5 | 1.6 | 3.4 |
| SE | .1 | .5 | * | .0 | .0 | .0 | | .7 | 6.3 | .3 | .6 | 1.2 | 2.2 | .7 | .0 | .7 | .3 |
| S | .1 | 1.9 | .3 | .1 | .0 | .0 | | 2.4 | 7.9 | 1.3 | .6 | 5.0 | 2.2 | 2.4 | 1.1 | 3.6 | 1.8 |
| SW | .4 | 2.6 | .7 | .0 | .0 | .0 | | 3.7 | 8.2 | 3.7 | 1.9 | 1.2 | 3.7 | 2.9 | 5.8 | 4.4 | 6.1 |
| W | .7 | 4.9 | 1.1 | .0 | .0 | .0 | | 6.7 | 7.6 | 7.4 | 13.0 | 6.4 | 4.4 | 8.5 | 5.8 | 3.7 | 5.2 |
| NW | 1.1 | 13.2 | 13.6 | 1.1 | .0 | .0 | | 29.0 | 11.6 | 29.1 | 30.2 | 28.6 | 21.3 | 30.2 | 25.0 | 35.4 | 26.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.7 | | | | | | | 1.7 | .0 | 1.1 | .0 | 3.1 | .0 | 3.4 | 1.1 | 1.7 | 1.2 |
| TOT OBS | 86 | 588 | 481 | 50 | 0 | 0 | 1205 | | 10.9 | 261 | 77 | 161 | 68 | 208 | 91 | 175 | 164 |
| TOT PCT | 7.1 | 48.8 | 39.9 | 4.1 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 8.0 | 26.4 | 10.2 | .5 | .0 | | 45.1 | 12.0 | 47.4 | 46.0 | 44.4 | 43.0 |
| NE | 2.4 | 5.3 | 1.1 | .0 | .0 | | 8.8 | 10.0 | 7.5 | 10.5 | 8.3 | 9.3 |
| E | .8 | .9 | .2 | .0 | .0 | | 1.9 | 8.3 | 1.3 | 1.5 | 2.1 | 2.4 |
| SE | .4 | .3 | .0 | .0 | .0 | | .7 | 6.3 | .4 | 1.5 | .5 | .5 |
| S | 1.1 | 1.2 | .0 | .1 | .0 | | 2.4 | 7.9 | 1.2 | 4.1 | 2.0 | 2.7 |
| SW | 1.2 | 2.3 | .2 | .0 | .0 | | 3.7 | 8.2 | 3.3 | 2.0 | 3.8 | 5.2 |
| W | 2.7 | 3.9 | * | .0 | .0 | | 6.7 | 7.6 | 8.7 | 5.8 | 7.7 | 4.4 |
| NW | 4.8 | 19.0 | 5.1 | .2 | .0 | | 29.0 | 11.6 | 29.4 | 26.4 | 28.6 | 30.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.7 | | | | | | 1.7 | .0 | .9 | 7.2 | 2.7 | 1.5 |
| TOT OBS | 279 | 715 | 202 | 9 | 0 | 1205 | | 10.9 | 338 | 229 | 299 | 339 |
| TOT PCT | 23.2 | 59.3 | 16.8 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

OCTOBER

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WIND SPEED (KNOTS) | | | | | | |
| 00&03 | .9 | 4.4 | 42.9 | 46.4 | 5.3 | .0 | .0 | 11.9 | 100.0 | 338 |
| 06&09 | 2.2 | 7.0 | 48.5 | 36.7 | 5.7 | .0 | .0 | 10.8 | 100.0 | 229 |
| 12&15 | 2.7 | 4.7 | 53.2 | 36.8 | 2.7 | .0 | .0 | 10.3 | 100.0 | 299 |
| 18&21 | 1.5 | 5.9 | 51.0 | 38.3 | 3.2 | .0 | .0 | 10.4 | 100.0 | 339 |
| TOT | 21 | 65 | 588 | 481 | 50 | 0 | 0 | 10.9 | | 1205 |
| PCT | 1.7 | 5.4 | 48.8 | 39.9 | 4.1 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 11.5 | 7.0 | 13.4 | 12.8 | | 4.9 |
| NE | 2.6 | 1.1 | 2.6 | 2.4 | | 4.7 |
| E | .4 | .3 | .4 | .8 | | 5.0 |
| SE | .2 | .1 | .3 | .1 | | 4.6 |
| S | .5 | .5 | 1.0 | .4 | | 4.9 |
| SW | .5 | .3 | .7 | 1.1 | | 5.6 |
| W | .6 | .8 | 2.4 | 1.2 | | 5.7 |
| NW | 8.0 | 3.9 | 8.9 | 11.0 | | 5.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .8 | .3 | .4 | .6 | | 4.3 |
| TOT OBS | 183 | 104 | 219 | 221 | 727 | 5.0 |
| TOT PCT | 25.2 | 14.3 | 30.1 | 30.4 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .0 | .1 | 1.0 | 5.1 | 12.0 | 4.8 | .9 | .0 | .0 | .0 | 20.9 | |
| NE | .0 | .0 | .2 | .8 | 1.9 | .9 | .3 | .1 | .0 | .0 | 4.4 | |
| E | .0 | .0 | .0 | .7 | .2 | .0 | .0 | .0 | .0 | .0 | 1.0 | |
| SE | .0 | .0 | .0 | .0 | .2 | .0 | .1 | .0 | .0 | .0 | .4 | |
| S | .0 | .0 | .0 | .1 | .6 | .4 | .0 | .0 | .0 | .0 | 1.3 | |
| SW | .0 | .0 | .1 | .6 | .7 | .2 | .0 | .2 | .0 | .0 | .8 | |
| W | .0 | .0 | .0 | .7 | 2.3 | .4 | .0 | .2 | .0 | .0 | 1.4 | |
| NW | .1 | .0 | .5 | 4.0 | 8.8 | 4.5 | .6 | .3 | .1 | .0 | 12.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .1 | .6 | .1 | .0 | .0 | .0 | .0 | 1.1 | |
| TOT OBS | 1 | 1 | 14 | 88 | 198 | 83 | 14 | 6 | 1 | 0 | 321 | 727 |
| TOT PCT | .1 | .1 | 1.9 | 12.1 | 27.2 | 11.4 | 1.9 | .8 | .1 | .0 | 44.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) = OR >10 | = OR >5 | = OR >2 | = OR >1 | = OR >1/2 | = OR >1/4 | = OR >50YD | = OR >0 |
|---|---|---|---|---|---|---|---|---|
| = OR >6500 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| = OR >5000 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| = OR >3500 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| = OR >2000 | 13.1 | 14.3 | 14.3 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| = OR >1000 | 33.7 | 41.0 | 41.4 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 |
| = OR >600 | 40.5 | 52.8 | 53.3 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 |
| = OR >300 | 41.6 | 54.4 | 55.2 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 |
| = OR >150 | 41.6 | 54.6 | 55.4 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 |
| = OR > 0 | 41.6 | 54.7 | 55.5 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 |
| TOTAL | 306 | 402 | 408 | 409 | 409 | 409 | 409 | 409 |

TOTAL NUMBER OF OBS: 735

PCT FREQ NH <5/8: 44.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 12.2 | 7.2 | 9.4 | 10.2 | 5.4 | 8.4 | 8.8 | 11.2 | 27.1 .1 | 776 |

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| | PCP | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .3 | .0 | .0 | .0 | .0 | .3 | * | .1 | .0 | .0 | .8 | |
| | TOT % | .4 | .1 | .0 | .0 | .0 | .3 | * | .1 | .0 | .0 | 1.0 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 1<2 | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| | PCP | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .1 | .0 | .0 | .3 | |
| 2<5 | NO PCP | .3 | .1 | .1 | .0 | .0 | .1 | .2 | .2 | .0 | .0 | 1.0 | |
| | TOT % | .3 | .1 | .1 | .0 | .1 | .1 | .3 | .3 | .0 | .0 | 1.2 | |
| | PCP | .8 | .1 | .1 | * | * | .0 | .1 | .4 | .0 | .0 | 1.6 | |
| 5<10 | NO PCP | 18.0 | 3.5 | .8 | .3 | .4 | 1.8 | 2.9 | 9.7 | .0 | .0 | 37.4 | |
| | TOT % | 18.8 | 3.6 | .9 | .4 | .4 | 1.8 | 3.0 | 10.1 | .0 | .0 | 39.0 | |
| | PCP | .1 | .0 | .0 | .0 | .1 | .1 | .0 | .1 | .0 | .0 | .4 | |
| 10+ | NO PCP | 25.7 | 4.8 | .7 | .3 | 1.8 | 1.3 | 3.5 | 18.3 | .0 | 1.7 | 58.1 | |
| | TOT % | 25.8 | 4.8 | .7 | .3 | 1.9 | 1.4 | 3.5 | 18.3 | .0 | 1.7 | 58.4 | |
| | TOT OBS | | | | | | | | | | | | 1123 |
| | TOT PCT | 45.3 | 8.5 | 1.7 | .7 | 2.4 | 3.6 | 6.7 | 29.3 | .0 | 1.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | |
| 1/2<1 | 4-10 | * | * | .0 | .0 | .0 | .2 | * | .0 | .0 | | .4 | |
| | 11-21 | .2 | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .4 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .2 | |
| | TOT % | .4 | .1 | .0 | .0 | .0 | .3 | * | .1 | .0 | .0 | 1.0 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 1<2 | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 2<5 | 4-10 | .1 | .1 | .1 | .0 | .1 | .0 | .1 | .2 | .0 | | .7 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .1 | .1 | .0 | .1 | .1 | .3 | .3 | .0 | .0 | 1.2 | |
| | 0-3 | 1.3 | .4 | .1 | * | * | .1 | .2 | .5 | .0 | .0 | 2.8 | |
| 5<10 | 4-10 | 10.1 | 2.2 | .6 | .3 | .4 | 1.5 | 2.4 | 4.4 | .0 | | 21.8 | |
| | 11-21 | 7.0 | .9 | .2 | * | * | .2 | .4 | 5.1 | .0 | | 13.9 | |
| | 22+ | .4 | .1 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .5 | |
| | TOT % | 18.8 | 3.6 | .9 | .4 | .4 | 1.8 | 3.0 | 10.1 | .0 | .0 | 39.0 | |
| | 0-3 | .6 | .3 | .1 | .1 | .1 | .1 | .3 | .4 | .0 | 1.7 | 3.7 | |
| 10+ | 4-10 | 9.2 | 1.9 | .4 | .2 | 1.5 | 1.0 | 2.5 | 8.2 | .0 | | 25.0 | |
| | 11-21 | 13.6 | 2.4 | .3 | .0 | .2 | .2 | .6 | 8.7 | .0 | | 26.0 | |
| | 22+ | 2.4 | .2 | .0 | .0 | .1 | .0 | .0 | 1.1 | .0 | | 3.7 | |
| | TOT % | 25.8 | 4.8 | .7 | .3 | 1.9 | 1.4 | 3.5 | 18.3 | .0 | 1.7 | 98.4 | |
| | TOT OBS | | | | | | | | | | | | 1123 |
| | TOT PCT | 45.3 | 8.5 | 1.7 | .7 | 2.4 | 3.6 | 6.7 | 29.3 | .0 | 1.7 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

TABLE 10

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .5 | 1.8 | 12.7 | 22.3 | 11.8 | 3.2 | 1.4 | .5 | .0 | 54.1 | 45.9 | 220 |
| 06&09 | .6 | .0 | 1.7 | 13.1 | 24.4 | 12.5 | .6 | .6 | .0 | .0 | 53.4 | 46.6 | 176 |
| 12&15 | .0 | .0 | 1.8 | 11.6 | 32.3 | 10.4 | 1.2 | .0 | .0 | .0 | 57.3 | 42.7 | 164 |
| 18&21 | .0 | .0 | 2.1 | 9.3 | 27.8 | 10.3 | 2.1 | 1.0 | .0 | .0 | 52.6 | 47.4 | 194 |
| TOT | 1 | 1 | 14 | 88 | 199 | 85 | 14 | 6 | 1 | 0 | 409 | 345 | 754 |
| PCT | .1 | .1 | 1.9 | 11.7 | 26.4 | 11.3 | 1.9 | .8 | .1 | .0 | 54.2 | 45.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.2 | .3 | 1.8 | 39.6 | 57.1 | 338 |
| 06&09 | .4 | .0 | .4 | 2.1 | 36.3 | 60.8 | 240 |
| 12&15 | .3 | 1.3 | .0 | .7 | 45.9 | 51.8 | 303 |
| 18&21 | .0 | 1.1 | .0 | .4 | 34.1 | 64.4 | 264 |
| TOT | 2 | 11 | 2 | 14 | 450 | 666 | 1145 |
| PCT | .2 | 1.0 | .2 | 1.2 | 39.3 | 58.2 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.3 | 17.4 | 39.4 | 43.2 | 213 |
| 06&09 | .6 | 2.9 | 18.0 | 38.4 | 43.6 | 172 |
| 12&15 | .0 | 2.5 | 14.9 | 44.7 | 40.4 | 161 |
| 18&21 | .0 | 2.1 | 12.2 | 41.8 | 46.0 | 189 |
| TOT | 1 | 18 | 115 | 301 | 319 | 735 |
| PCT | .1 | 2.4 | 15.6 | 41.0 | 43.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .1 | .7 | .5 | .3 | .0 | 12 | 1.6 |
| 70/74 | .0 | .0 | .0 | .3 | 1.7 | 5.0 | 1.5 | .3 | 66 | 8.7 |
| 65/69 | .0 | .0 | .1 | .3 | 5.2 | 16.5 | 17.2 | 9.0 | 365 | 48.3 |
| 60/64 | .0 | .0 | .0 | .7 | 3.7 | 12.4 | 16.8 | 6.2 | 301 | 39.8 |
| 55/59 | .0 | .0 | .0 | .0 | .3 | .0 | .4 | .9 | 12 | 1.6 |
| TOTAL | 0 | 0 | 1 | 10 | 87 | 261 | 273 | 124 | 756 | 100.0 |
| PCT | .0 | .0 | .1 | 1.3 | 11.5 | 34.5 | 36.1 | 16.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .8 | * | .2 | * | .0 | .3 | .1 | .1 | .0 | .0 |
| 3.3 | 1.1 | .4 | * | .2 | .3 | 1.0 | 2.3 | .0 | .1 |
| 19.6 | 4.2 | .6 | .6 | 1.6 | 1.6 | 3.2 | 18.4 | .0 | 1.5 |
| 19.4 | 2.3 | .6 | .1 | .6 | .5 | 1.7 | 14.3 | .0 | .4 |
| .6 | .2 | .0 | .0 | .0 | .0 | .2 | .4 | .0 | .3 |
| 43.6 | 7.9 | 1.8 | .7 | 2.4 | 2.7 | 6.2 | 32.5 | .0 | 2.2 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 75 | 72 | 66 | 61 | 60 | 57 | 66.0 | 338 |
| 06&09 | 76 | 72 | 68 | 64 | 61 | 59 | 59 | 64.6 | 240 |
| 12&15 | 76 | 70 | 68 | 64 | 60 | 59 | 58 | 64.1 | 305 |
| 18&21 | 79 | 75 | 71 | 66 | 62 | 61 | 59 | 66.0 | 339 |
| TOT | 79 | 75 | 71 | 65 | 61 | 59 | 57 | 65.3 | 1222 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.8 | 12.6 | 37.8 | 35.6 | 12.2 | 79 | 222 |
| 06&09 | .0 | .6 | 9.1 | 32.4 | 34.1 | 23.9 | 81 | 176 |
| 12&15 | .0 | .6 | 9.6 | 25.4 | 43.5 | 20.9 | 81 | 177 |
| 18&21 | .0 | 2.6 | 15.6 | 41.1 | 30.2 | 10.4 | 77 | 192 |
| TOT | 0 | 11 | 91 | 265 | 274 | 126 | 80 | 767 |

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .1 | .0 | 1 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .1 | .1 | .0 | 2 | .0 | .2 |
| 9/10 | .0 | .0 | .0 | .0 | .1 | .1 | 2 | .0 | .2 |
| 7/8 | .0 | .1 | .0 | .2 | .1 | .0 | 4 | .0 | .4 |
| 6 | .0 | .1 | .0 | .0 | .1 | .1 | 3 | .0 | .3 |
| 5 | .0 | .1 | .6 | .7 | .5 | .0 | 22 | .0 | 2.0 |
| 4 | .0 | .0 | 1.1 | .8 | .3 | .0 | 24 | .0 | 2.2 |
| 3 | .0 | .2 | 1.2 | 1.5 | .1 | .0 | 32 | .0 | 2.9 |
| 2 | .0 | .6 | 1.5 | 1.2 | .2 | .0 | 38 | .0 | 3.5 |
| 1 | .0 | .4 | 4.8 | 1.6 | .1 | .0 | 74 | .2 | 6.6 |
| 0 | .0 | 3.1 | 8.2 | .7 | .1 | .0 | 132 | .6 | 11.4 |
| -1 | .2 | 5.5 | 9.6 | .9 | .0 | .0 | 177 | .2 | 16.0 |
| -2 | .4 | 8.9 | 8.0 | .2 | .0 | .0 | 190 | .2 | 17.2 |
| -3 | .3 | 7.3 | 5.4 | .6 | .0 | .0 | 149 | .2 | 13.5 |
| -4 | .7 | 6.0 | 3.8 | .1 | .0 | .0 | 116 | .1 | 10.5 |
| -5 | 1.0 | 3.5 | 1.3 | .1 | .0 | .0 | 64 | .4 | 5.5 |
| -6 | .7 | 1.6 | .6 | .0 | .0 | .0 | 32 | .0 | 2.9 |
| -7/-8 | .2 | 1.7 | .5 | .0 | .0 | .0 | 26 | .0 | 2.4 |
| -9/-10 | .1 | .0 | .2 | .0 | .0 | .0 | 3 | .0 | .3 |
| -11/-13 | .0 | .1 | .0 | .0 | .0 | .0 | 1 | .0 | .1 |
| TOTAL | 39 | 428 | 509 | 95 | 19 | 2 | 1092 | 20 | 1072 |
| PCT | 3.6 | 39.2 | 46.6 | 8.7 | 1.7 | .2 | 100.0 | 1.8 | 98.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 2.3 | .0 | .0 | .0 | .0 | 2.5 |
| 1-2 | .2 | 8.1 | 4.8 | .0 | .0 | .0 | 13.2 |
| 3-4 | .0 | 5.7 | 8.1 | .8 | .0 | .0 | 14.6 |
| 5-6 | .0 | 1.8 | 6.5 | .6 | .0 | .0 | 9.0 |
| 7 | .2 | .3 | 2.0 | 1.0 | .0 | .0 | 3.6 |
| 8-9 | .0 | .0 | .2 | .2 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 18.3 | 21.6 | 2.8 | .0 | .0 | 43.4 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.0 | .0 | .0 | .0 | .0 | 1.3 |
| 1-2 | .0 | 3.1 | .8 | .0 | .0 | .0 | 3.9 |
| 3-4 | .2 | 1.2 | 1.3 | .0 | .0 | .0 | 2.7 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 5.6 | 2.5 | .0 | .0 | .0 | 8.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .8 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.7 | .5 | .0 | .0 | .0 | 2.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .6 | .0 | .0 | .0 | .0 | .6 |

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 | .1 | 1.0 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .0 | 1.5 | .2 | .0 | .0 | .0 | 1.7 | .0 | .7 | .0 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .6 | .2 | .0 | .0 | .0 | .8 | .2 | .7 | .8 | .0 | .0 | .0 | 1.7 |
| 5-6 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 2.3 | .4 | .2 | .0 | .0 | 2.9 | .3 | 2.6 | 1.0 | .0 | .0 | .0 | 4.0 |

| | W | | | | | | | NW | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 1.3 | .0 | .0 | .0 | .0 | 1.6 | .2 | 1.4 | .0 | .0 | .0 | .0 | 1.6 | |
| 1-2 | .0 | 2.2 | .4 | .0 | .0 | .0 | 2.6 | .0 | 6.9 | 2.6 | .0 | .0 | .0 | 9.5 | |
| 3-4 | .0 | .3 | .5 | .0 | .0 | .0 | .8 | .2 | 3.2 | 6.2 | .1 | .0 | .0 | 9.7 | |
| 5-6 | .0 | .4 | .2 | .0 | .0 | .0 | .6 | .0 | 1.5 | 4.0 | .5 | .0 | .0 | 6.0 | |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .7 | .3 | .0 | .0 | 1.6 | |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .1 | .0 | .0 | .8 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .5 | .0 | .0 | .8 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .3 | 4.2 | 1.0 | .0 | .0 | .0 | 5.6 | .5 | 13.6 | 14.4 | 1.6 | .0 | .0 | 30.1 | 97.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.5 | 7.6 | .0 | .0 | .0 | .0 | 11.1 | |
| 1-2 | .7 | 23.8 | 9.0 | .0 | .0 | .0 | 33.6 | |
| 3-4 | .9 | 12.0 | 16.9 | .9 | .0 | .0 | 30.8 | |
| 5-6 | .0 | 3.7 | 11.3 | 1.4 | .0 | .0 | 16.4 | |
| 7 | .2 | 1.6 | 2.8 | 1.4 | .0 | .0 | 6.0 | |
| 8-9 | .0 | .0 | .9 | .2 | .0 | .0 | 1.2 | |
| 10-11 | .0 | .0 | .2 | .7 | .0 | .0 | .9 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 432 |
| TOT PCT | 5.3 | 48.8 | 41.2 | 4.6 | .0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 7.4 | 14.4 | 8.3 | 1.7 | .8 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 225 | 3 |
| 6-7 | .0 | 1.4 | 7.3 | 10.2 | 6.2 | 2.0 | 1.2 | .2 | .5 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 193 | 6 |
| 8-9 | .0 | .8 | 3.0 | 5.3 | 2.9 | 3.2 | 2.4 | .8 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 124 | 6 |
| 10-11 | .0 | .3 | 1.1 | 1.2 | 1.8 | 1.1 | .8 | .5 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 46 | 7 |
| 12-13 | .0 | .0 | .9 | .6 | .9 | .3 | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 23 | 6 |
| >13 | .0 | .0 | .0 | .3 | .5 | .6 | .2 | .2 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14 | 9 |
| INDET | 2.3 | 1.2 | .8 | .6 | .3 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 35 | 2 |
| TOTAL | 24 | 73 | 181 | 175 | 94 | 52 | 37 | 10 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 660 | 5 |
| PCT | 3.6 | 11.1 | 27.4 | 26.5 | 14.2 | 7.9 | 5.6 | 1.5 | 1.7 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 200 SW
29.4N 122.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .0 | .5 | .4 | .0 | .0 | .0 | .0 | 1.0 | 1.0 | .0 | .6 | .4 | .4 | | .0 | 96.7 |
| NE | .0 | .6 | 1.9 | .0 | .0 | .0 | .0 | 2.5 | 2.5 | .0 | 8.8 | .0 | 1.1 | | .0 | 85.1 |
| E | 2.6 | .0 | 2.0 | .0 | .0 | .0 | .0 | 4.6 | .0 | .0 | .0 | .0 | 2.6 | | .0 | 92.7 |
| SE | 3.1 | .0 | 3.1 | .0 | .0 | .0 | .0 | 6.3 | .0 | .0 | .0 | .0 | .0 | | .0 | 93.8 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3.4 | .0 | 1.1 | 2.3 | 2.3 | | .0 | 91.0 |
| SW | .0 | .6 | 2.9 | .0 | .0 | .0 | .0 | 3.5 | 3.5 | .0 | 3.5 | .0 | .0 | | .0 | 89.4 |
| W | 1.3 | 1.0 | 1.0 | .0 | .0 | .0 | .0 | 3.2 | 2.2 | .0 | .0 | .0 | .0 | | .0 | 94.6 |
| NW | .0 | 1.1 | 1.3 | .0 | .0 | .0 | .0 | 2.4 | 1.8 | .6 | .7 | .0 | .0 | | .0 | 94.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.5 | 4.5 | .0 | | .0 | 90.9 |
| TOT PCT | .4 | .6 | 1.1 | .0 | .0 | .0 | .0 | 2.1 | 1.6 | .1 | 1.7 | .4 | .5 | | .0 | 93.6 |
| TOT OBS: | 807 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .4 | 1.3 | .4 | .0 | .0 | .0 | .0 | 2.2 | .9 | .0 | 2.2 | .4 | .0 | | .0 | 94.2 |
| 06&09 | .5 | 1.0 | 1.6 | .0 | .0 | .0 | .0 | 3.1 | 2.1 | .5 | .5 | .5 | .5 | | .0 | 92.7 |
| 12&15 | .0 | .5 | 1.5 | .0 | .0 | .0 | .0 | 2.1 | 2.6 | .0 | 2.6 | .0 | 1.0 | | .0 | 91.8 |
| 18&21 | .5 | .5 | 1.0 | .0 | .0 | .0 | .0 | 1.9 | 1.0 | .0 | 1.4 | .5 | .5 | | .0 | 94.7 |
| TOT PCT | .4 | .9 | 1.1 | .0 | .0 | .0 | .0 | 2.3 | 1.6 | .1 | 1.7 | .4 | .5 | | .0 | 93.4 |
| TOT OBS: | 821 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .8 | 16.8 | 16.6 | 2.7 | .0 | .0 | | 37.0 | 12.2 | 37.5 | 46.2 | 28.0 | 40.0 | 33.2 | 46.7 | 35.5 | 46.2 |
| NE | .7 | 5.2 | 4.9 | .5 | .0 | .0 | | 11.3 | 11.4 | 8.1 | 16.8 | 12.2 | 10.0 | 8.2 | 13.3 | 14.2 | 13.5 |
| E | .4 | 2.8 | 1.1 | .4 | .0 | .0 | | 4.7 | 10.3 | 3.2 | 2.2 | 5.1 | 3.3 | 5.8 | 3.3 | 6.8 | 4.6 |
| SE | .7 | 2.4 | .5 | .1 | .0 | .0 | | 3.6 | 8.0 | 2.8 | 6.5 | 3.3 | 3.3 | 5.1 | 3.3 | 2.4 | 4.2 |
| S | .8 | 2.7 | 1.3 | .2 | .0 | .0 | | 5.0 | 9.0 | 5.1 | 1.1 | 5.1 | 5.6 | 6.9 | 7.8 | 4.3 | 3.5 |
| SW | .2 | 2.2 | 2.4 | .6 | .0 | .0 | | 5.3 | 12.4 | 6.5 | 2.2 | 5.1 | 2.2 | 5.1 | 2.2 | 6.8 | 5.8 |
| W | 1.5 | 4.4 | 2.7 | .7 | .0 | .0 | | 9.3 | 10.1 | 9.1 | 7.1 | 15.4 | 8.9 | 9.1 | 4.4 | 9.6 | 4.6 |
| NW | 1.1 | 10.3 | 8.3 | 1.5 | .0 | .0 | | 21.2 | 11.4 | 22.3 | 15.8 | 24.5 | 26.7 | 22.1 | 18.9 | 19.1 | 17.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.5 | | | | | | | 2.5 | .0 | 5.4 | 2.2 | 1.4 | .0 | 4.5 | .0 | 1.3 | .0 |
| TOT OBS | 78 | 416 | 337 | 60 | 0 | 0 | 891 | | 11.0 | 186 | 46 | 143 | 45 | 156 | 45 | 157 | 113 |
| TOT PCT | 8.8 | 46.7 | 37.8 | 6.7 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.8 | 21.6 | 7.7 | .9 | .0 | | 37.0 | 12.2 | 39.2 | 30.9 | 36.2 | 40.0 |
| NE | 2.5 | 6.3 | 2.6 | .0 | .0 | | 11.3 | 11.4 | 9.8 | 11.7 | 9.3 | 13.9 |
| E | 1.4 | 2.9 | .3 | .1 | .0 | | 4.7 | 10.3 | 3.0 | 4.7 | 5.2 | 5.9 |
| SE | 1.6 | 1.8 | .3 | .0 | .0 | | 3.6 | 8.0 | 3.6 | 3.3 | 4.7 | 3.1 |
| S | 2.0 | 2.4 | .4 | .1 | .0 | | 5.0 | 9.0 | 4.3 | 5.2 | 7.1 | 4.0 |
| SW | 1.2 | 2.9 | 1.2 | .1 | .0 | | 5.3 | 12.4 | 5.6 | 4.4 | 4.5 | 6.4 |
| W | 2.9 | 4.8 | 1.5 | .0 | .0 | | 9.3 | 10.1 | 8.7 | 13.8 | 8.1 | 7.5 |
| NW | 4.1 | 13.7 | 3.0 | .3 | .0 | | 21.2 | 11.4 | 21.0 | 25.0 | 21.4 | 18.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.5 | | | | | | 2.5 | .0 | 4.7 | 1.1 | 3.5 | .7 |
| TOT OBS | 222 | 503 | 152 | 14 | 0 | 891 | | 11.0 | 232 | 188 | 201 | 270 |
| TOT PCT | 24.9 | 56.5 | 17.1 | 1.6 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 20^ SW
29.4N 122.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.7 | 6.0 | 46.6 | 36.6 | 6.0 | .0 | .0 | 10.7 | 100.0 | 232 |
| 06&09 | 1.1 | 5.9 | 44.1 | 40.4 | 8.5 | .0 | .0 | 11.9 | 100.0 | 188 |
| 12&15 | 3.5 | 5.0 | 47.8 | 36.3 | 7.5 | .0 | .0 | 11.0 | 100.0 | 201 |
| 18&21 | .7 | 7.8 | 47.8 | 38.1 | 5.6 | .0 | .0 | 10.7 | 100.0 | 270 |
| TOT | 22 | 56 | 416 | 337 | 60 | 0 | 0 | 11.0 | | 891 |
| PCT | 2.5 | 6.3 | 46.7 | 37.8 | 6.7 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.6 | 7.6 | 9.6 | 6.8 | | 4.6 |
| NE | 3.2 | 1.8 | 3.4 | 2.1 | | 4.5 |
| E | 2.7 | .7 | 1.3 | .7 | | 3.1 |
| SE | 1.3 | .4 | .7 | .5 | | 4.0 |
| S | 1.1 | .8 | 1.9 | 1.2 | | 5.1 |
| SW | 1.3 | .7 | 2.2 | 2.2 | | 5.4 |
| W | 3.3 | 2.5 | 3.5 | 2.6 | | 4.5 |
| NW | 4.4 | 4.7 | 8.4 | 5.0 | | 4.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.2 | .4 | .5 | 1.1 | | 4.4 |
| TOT OBS | 154 | 109 | 180 | 126 | 569 | 4.6 |
| TOT PCT | 27.1 | 19.2 | 31.6 | 22.1 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .0 | .0 | .3 | 3.0 | 7.4 | 3.3 | .5 | .1 | .0 | .0 | 18.1 | |
| NE | .4 | .0 | .2 | 1.3 | 1.8 | .6 | .4 | .0 | .2 | .0 | 5.1 | |
| E | .0 | .0 | .0 | .2 | .8 | .2 | .0 | .0 | .1 | .0 | 4.0 | |
| SE | .2 | .0 | .0 | .2 | .4 | .0 | .0 | .0 | .0 | .0 | 2.1 | |
| S | .0 | .0 | .2 | .8 | .5 | .4 | .5 | .0 | .0 | .0 | 2.7 | |
| SW | .0 | .0 | .2 | .4 | 1.4 | 1.1 | .5 | .2 | .2 | .0 | 2.6 | |
| W | .0 | .0 | .2 | .6 | 1.9 | 1.9 | .3 | .0 | .0 | .1 | 7.0 | |
| NW | .0 | .0 | * | 1.3 | 5.5 | 3.8 | 1.5 | .2 | .0 | .1 | 10.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .2 | .2 | 1.2 | .0 | .0 | .0 | .0 | .0 | 1.6 | |
| TOT OBS | 3 | 0 | 7 | 45 | 119 | 64 | 20 | 3 | 3 | 1 | 304 | 569 |
| TOT PCT | .5 | .0 | 1.2 | 7.9 | 20.9 | 11.2 | 3.5 | .5 | .5 | .2 | 53.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) ▪ OR >10 | ▪ OR >5 | ▪ OR >2 | ▪ OR >1 | ▪ OR >1/2 | ▪ OR >1/4 | ▪ OR >50YD | ▪ OR >0 |
|---|---|---|---|---|---|---|---|---|
| ▪ OR >6500 | .5 | .7 | .7 | .7 | .7 | .7 | .7 | .7 |
| ▪ OR >5000 | .9 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 |
| ▪ OR >3500 | 3.7 | 4.4 | 4.4 | 4.4 | 4.6 | 4.6 | 4.6 | 4.6 |
| ▪ OR >2000 | 12.6 | 15.4 | 15.6 | 15.6 | 15.8 | 15.8 | 15.8 | 15.8 |
| ▪ OR >1000 | 29.1 | 35.8 | 36.3 | 36.3 | 36.5 | 36.5 | 36.5 | 36.5 |
| ▪ OR >600 | 34.2 | 43.3 | 44.2 | 44.2 | 44.4 | 44.4 | 44.4 | 44.4 |
| ▪ OR >300 | 34.9 | 44.2 | 45.4 | 45.4 | 45.6 | 45.6 | 45.6 | 45.6 |
| ▪ OR >150 | 34.9 | 44.2 | 45.4 | 45.4 | 45.6 | 45.6 | 45.6 | 45.6 |
| ▪ OR > 0 | 34.9 | 44.2 | 45.6 | 45.6 | 45.8 | 46.1 | 46.1 | 46.1 |
| TOTAL | 199 | 252 | 260 | 260 | 261 | 263 | 263 | 263 |

TOTAL NUMBER OF OBS: 570

PCT FREQ NH <5/8: 53.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 13.3 | 9.4 | 10.7 | 12.2 | 8.1 | 7.6 | 9.4 | 10.7 | 18.1 | .5 | 596 |

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 200 SW
29.4N 122.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | NO PCP | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .4 | |
| | TOT % | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .4 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | .1 | .6 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .9 | |
| | TOT % | .1 | .6 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .9 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1<2 | NO PCP | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | TOT % | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | PCP | .0 | .0 | .0 | .1 | .0 | .1 | .1 | .1 | .0 | .0 | .5 | |
| 2<5 | NO PCP | .4 | .1 | .0 | .0 | .2 | * | .0 | .1 | .0 | .0 | .7 | |
| | TOT % | .4 | .1 | .0 | .1 | .2 | .2 | .1 | .2 | .0 | .0 | 1.2 | |
| | PCP | .2 | .3 | .2 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | 1.0 | |
| 5<10 | NO PCP | 10.3 | 3.5 | 1.1 | 2.1 | 2.2 | 1.5 | 1.7 | 4.7 | .0 | .6 | 27.5 | |
| | TOT % | 10.5 | 3.7 | 1.3 | 2.1 | 2.2 | 1.5 | 1.7 | 4.9 | .0 | .6 | 28.5 | |
| | PCP | .1 | .0 | .0 | .1 | .0 | .1 | .2 | .2 | .0 | .0 | .6 | |
| 10+ | NO PCP | 23.9 | 6.5 | 3.4 | 1.7 | 3.1 | 3.6 | 7.8 | 16.5 | .0 | 1.7 | 68.2 | |
| | TOT % | 24.0 | 6.5 | 3.4 | 1.8 | 3.1 | 3.7 | 8.0 | 16.6 | .0 | 1.7 | 68.8 | |
| | TOT OBS | | | | | | | | | | | | 804 |
| | TOT PCT | 35.1 | 11.3 | 4.7 | 4.0 | 5.5 | 5.3 | 9.8 | 21.9 | .0 | 2.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | |
| <1/2 | 4-10 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .4 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 11-21 | .1 | .6 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .9 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .6 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .9 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1<2 | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .0 | | .1 | |
| | 11-21 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .1 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .4 | |
| | 0-3 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | .1 | |
| 2<5 | 4-10 | .2 | * | .0 | .0 | .1 | .0 | .1 | * | .0 | | .5 | |
| | 11-21 | .2 | * | .0 | .0 | .0 | .1 | .0 | .2 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | TOT % | .4 | .1 | .0 | .1 | .2 | .2 | .1 | .2 | .0 | .0 | 1.2 | |
| | 0-3 | .0 | .2 | .1 | .4 | .4 | .1 | .2 | .2 | .0 | .6 | 2.2 | |
| 5<10 | 4-10 | 4.1 | 1.2 | .7 | 1.5 | 1.5 | .4 | .9 | 3.1 | .0 | | 13.3 | |
| | 11-21 | 5.0 | 1.9 | .3 | .1 | .2 | .8 | .4 | 1.4 | .0 | | 10.2 | |
| | 22+ | 1.4 | .4 | .1 | .0 | .1 | .2 | .2 | .2 | .0 | | 2.7 | |
| | TOT % | 10.5 | 3.7 | 1.3 | 2.0 | 2.2 | 1.5 | 1.7 | 4.9 | .0 | .6 | 28.4 | |
| | 0-3 | .4 | .1 | .2 | .4 | .3 | .1 | 1.3 | .6 | .0 | 1.7 | 5.2 | |
| 10+ | 4-10 | 11.4 | 3.7 | 2.1 | 1.0 | 1.5 | 1.7 | 3.6 | 7.5 | .0 | | 32.5 | |
| | 11-21 | 11.0 | 2.6 | .8 | .4 | 1.1 | 1.5 | 2.5 | 7.2 | .0 | | 27.1 | |
| | 22+ | 1.4 | * | .2 | .0 | .1 | .3 | .6 | 1.3 | .0 | | 4.0 | |
| | TOT % | 24.1 | 6.5 | 3.4 | 1.8 | 3.1 | 3.7 | 7.9 | 16.6 | .0 | 1.7 | 68.8 | |
| | TOT OBS | | | | | | | | | | | | 807 |
| | TOT PCT | 35.3 | 11.2 | 4.7 | 4.0 | 5.5 | 5.3 | 9.8 | 21.8 | .0 | 2.5 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 200 SW
29.4N 122.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .6 | .0 | 2.5 | 7.0 | 24.1 | 10.1 | 3.2 | .0 | .6 | .0 | 48.1 | 51.9 | 158 |
| 06&09 | .7 | .0 | 1.3 | 6.7 | 16.0 | 10.0 | 2.0 | .7 | 1.3 | .7 | 39.3 | 60.7 | 150 |
| 12&15 | .0 | .0 | .0 | 9.1 | 21.8 | 11.8 | 2.7 | .0 | .0 | .0 | 45.5 | 54.5 | 110 |
| 18&21 | .6 | .0 | .6 | 8.4 | 19.8 | 12.0 | 5.4 | 1.2 | .0 | .0 | 47.9 | 52.1 | 167 |
| TOT | 3 | 0 | 7 | 45 | 119 | 64 | 20 | 3 | 3 | 1 | 265 | 320 | 585 |
| PCT | .5 | .0 | 1.2 | 7.7 | 20.3 | 10.9 | 3.4 | .5 | .5 | .2 | 45.3 | 54.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .9 | .4 | 1.3 | 29.3 | 67.6 | 225 |
| 06&09 | .0 | .5 | .0 | 2.1 | 28.1 | 69.3 | 192 |
| 12&15 | .5 | 1.0 | .5 | 1.0 | 36.4 | 60.5 | 195 |
| 18&21 | .5 | 1.0 | .5 | .5 | 20.1 | 77.5 | 209 |
| TOT | 3 | 7 | 3 | 10 | 233 | 565 | 821 |
| PCT | .4 | .9 | .4 | 1.2 | 28.4 | 68.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .7 | 3.3 | 11.3 | 37.7 | 51.0 | 151 |
| 06&09 | .7 | 2.0 | 10.1 | 29.5 | 60.4 | 149 |
| 12&15 | .0 | .9 | 11.2 | 37.4 | 51.4 | 107 |
| 18&21 | .6 | 1.8 | 10.4 | 38.7 | 50.9 | 163 |
| TOT | 3 | 12 | 61 | 204 | 305 | 570 |
| PCT | .5 | 2.1 | 10.7 | 35.8 | 53.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | 1 | .2 |
| 70/74 | .0 | .0 | .2 | .0 | 1.9 | 1.0 | .2 | .7 | 23 | 4.0 |
| 65/69 | .0 | .0 | .3 | 1.4 | 4.5 | 10.4 | 12.9 | 5.9 | 204 | 35.5 |
| 60/64 | .0 | .0 | .0 | 1.0 | 10.4 | 14.3 | 18.1 | 10.1 | 310 | 53.9 |
| 55/59 | .0 | .0 | .0 | .0 | 1.0 | 1.6 | 2.3 | 1.6 | 37 | 6.4 |
| TOTAL | 0 | 0 | 3 | 14 | 104 | 157 | 192 | 105 | 575 | 100.0 |
| PCT | .0 | .0 | .5 | 2.4 | 18.1 | 27.3 | 33.4 | 18.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1.7 | .5 | .3 | .2 | .0 | .5 | .3 | .5 | .0 | .0 |
| 11.8 | 2.9 | 2.0 | .7 | 3.5 | 2.7 | 4.3 | 6.3 | .0 | 1.2 |
| 17.3 | 6.3 | 2.8 | 1.7 | 1.8 | 2.2 | 6.3 | 13.3 | .0 | 2.1 |
| 1.8 | .8 | .0 | .2 | .3 | .3 | .7 | 2.3 | .0 | .2 |
| 32.7 | 10.5 | 5.1 | 2.8 | 5.6 | 5.8 | 11.7 | 22.3 | .0 | 3.5 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 75 | 74 | 70 | 64 | 60 | 56 | 52 | 64.5 | 231 |
| 06&09 | 69 | 68 | 67 | 63 | 59 | 56 | 54 | 62.7 | 194 |
| 12&15 | 71 | 68 | 67 | 63 | 59 | 57 | 57 | 62.6 | 200 |
| 18&21 | 74 | 72 | 70 | 64 | 60 | 58 | 55 | 64.5 | 266 |
| TOT | 75 | 72 | 68 | 64 | 59 | 57 | 52 | 63.7 | 891 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.6 | 21.3 | 32.3 | 27.1 | 16.8 | 78 | 155 |
| 06&09 | .0 | 4.7 | 14.1 | 26.2 | 34.9 | 20.1 | 79 | 149 |
| 12&15 | .0 | 1.6 | 13.1 | 23.0 | 42.6 | 19.7 | 81 | 122 |
| 18&21 | .0 | 2.5 | 23.6 | 26.8 | 30.6 | 16.6 | 77 | 157 |
| TOT | 0 | 17 | 107 | 159 | 194 | 106 | 79 | 583 |

PERIOD: (PRIMARY) 1901-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|
| 11/13 | .0 | .0 | .0 | .0 | .0 | .1 | 1 | .0 | .1 |
| 9/10 | .0 | .0 | .0 | .0 | .1 | .1 | 2 | .0 | .3 |
| 7/8 | .0 | .0 | .0 | .4 | .3 | .3 | 7 | .0 | .9 |
| 6 | .0 | .0 | .0 | .6 | .3 | .1 | 8 | .0 | 1.0 |
| 5 | .0 | .0 | .0 | .3 | .3 | .3 | 6 | .0 | .8 |
| 4 | .0 | .0 | .4 | 1.4 | .9 | .1 | 22 | .1 | 2.7 |
| 3 | .0 | .0 | .5 | 1.2 | .9 | .0 | 20 | .0 | 2.6 |
| 2 | .0 | .0 | 1.4 | 3.5 | .3 | .0 | 40 | .1 | 5.0 |
| 1 | .0 | .0 | 3.6 | 3.5 | .0 | .0 | 55 | .0 | 7.1 |
| 0 | .0 | .4 | 7.4 | 5.5 | .1 | .0 | 105 | .0 | 13.5 |
| -1 | .1 | .3 | 9.5 | 3.9 | .1 | .1 | 109 | .5 | 13.5 |
| -2 | .0 | .9 | 8.2 | 4.9 | .1 | .0 | 110 | .3 | 13.9 |
| -3 | .0 | 1.7 | 8.6 | 3.9 | .0 | .0 | 110 | .1 | 14.0 |
| -4 | .0 | 2.1 | 8.0 | .9 | .0 | .0 | 85 | .3 | 10.7 |
| -5 | .1 | 1.9 | 4.6 | .3 | .0 | .0 | 54 | .3 | 6.7 |
| -6 | .1 | .9 | .8 | .3 | .0 | .0 | 16 | .0 | 2.1 |
| -7/-8 | .0 | 2.1 | 1.2 | .0 | .0 | .0 | 25 | .1 | 3.1 |
| -9/-10 | .0 | .5 | .0 | .0 | .0 | .0 | 4 | .0 | .5 |
| TOTAL | 3 | 83 | 422 | 236 | 26 | 9 | 779 | 14 | 765 |
| PCT | .4 | 10.7 | 54.2 | 30.3 | 3.3 | 1.2 | 100.0 | 1.8 | 98.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 2.1 | .0 | .0 | .0 | .0 | 2.4 |
| 1-2 | .0 | 5.6 | 4.5 | .0 | .0 | .0 | 10.2 |
| 3-4 | .0 | 3.8 | 4.2 | .2 | .0 | .0 | 8.3 |
| 5-6 | .0 | 1.9 | 4.2 | .0 | .0 | .0 | 6.1 |
| 7 | .0 | .2 | 2.0 | 1.2 | .0 | .0 | 3.5 |
| 8-9 | .0 | .5 | .2 | .0 | .0 | .0 | .8 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 14.2 | 15.2 | 1.4 | .0 | .0 | 31.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | 3.4 | 2.0 | .0 | .0 | .0 | 5.3 |
| 3-4 | .0 | .5 | 1.6 | .1 | .0 | .0 | 2.1 |
| 5-6 | .0 | .1 | 1.2 | .3 | .0 | .0 | 1.6 |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 4.1 | 5.0 | .4 | .0 | .0 | 9.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | .9 | .0 | .0 | .0 | .0 | 1.5 |
| 1-2 | .0 | 1.6 | .5 | .0 | .0 | .0 | 2.0 |
| 3-4 | .0 | .6 | .5 | .0 | .0 | .0 | 1.1 |
| 5-6 | .0 | .0 | 1.6 | .9 | .0 | .0 | 2.5 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 3.1 | 2.6 | .9 | .0 | .0 | 7.2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .6 | 1.0 | .0 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .9 | .5 | .0 | .0 | .0 | 1.4 |
| 5-6 | .0 | .0 | .5 | .3 | .0 | .0 | .8 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.0 | 1.3 | .3 | .0 | .0 | 4.2 |

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | 1.7 | .3 | .0 | .0 | .0 | 2.0 |
| 3-4 | .0 | .3 | 1.3 | .0 | .0 | .0 | 1.6 |
| 5-6 | .0 | .3 | .2 | .2 | .0 | .0 | .8 |
| 7 | .0 | .0 | .3 | .3 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.5 | 2.1 | .5 | .0 | .0 | 5.3 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .7 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 1.2 | .6 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .8 | 2.0 | .6 | .0 | .0 | 3.4 |
| 5-6 | .0 | .0 | .2 | .1 | .0 | .0 | .2 |
| 7 | .0 | .0 | .3 | .3 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 2.7 | 3.1 | 1.0 | .0 | .0 | 6.8 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .8 | 2.0 | .2 | .0 | .0 | .0 | 3.1 |
| 3-4 | .0 | 1.1 | 1.1 | .0 | .0 | .0 | 2.2 |
| 5-6 | .0 | .8 | .8 | .0 | .0 | .0 | 1.7 |
| 7 | .0 | .6 | .6 | .8 | .0 | .0 | 2.0 |
| 8-9 | .0 | .0 | .7 | .0 | .0 | .0 | .7 |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 5.1 | 3.4 | 1.4 | .0 | .0 | 11.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | |
| 1-2 | .1 | 2.5 | 2.5 | .0 | .0 | .0 | 5.0 | |
| 3-4 | .0 | 2.2 | 2.4 | .0 | .0 | .0 | 4.6 | |
| 5-6 | .0 | 2.0 | 3.1 | .9 | .0 | .0 | 6.0 | |
| 7 | .0 | .6 | 3.1 | 1.0 | .0 | .0 | 4.7 | |
| 8-9 | .0 | .1 | .2 | .0 | .0 | .0 | .3 | |
| 10-11 | .0 | .0 | .3 | .1 | .0 | .0 | .4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .1 | 8.2 | 11.6 | 2.0 | .0 | .0 | 21.8 | 97.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.8 | 5.4 | .0 | .0 | .0 | .0 | 10.2 | |
| 1-2 | 1.5 | 18.9 | 10.5 | .0 | .0 | .0 | 30.9 | |
| 3-4 | .0 | 10.2 | 13.5 | .9 | .0 | .0 | 24.6 | |
| 5-6 | .0 | 5.1 | 11.7 | 2.7 | .0 | .0 | 19.5 | |
| 7 | .0 | 1.5 | 6.3 | 3.6 | .0 | .0 | 11.4 | |
| 8-9 | .0 | .6 | 1.5 | .0 | .0 | .0 | 2.1 | |
| 10-11 | .0 | .0 | .3 | .3 | .0 | .0 | .6 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .3 | .3 | .0 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 333 |
| TOT PCT | 6.3 | 41.7 | 44.1 | 7.8 | .0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.7 | 6.9 | 13.4 | 8.8 | 4.2 | .8 | .6 | .6 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 179 | 4 |
| 6-7 | .0 | .4 | 5.6 | 11.3 | 4.0 | 2.9 | 1.3 | 1.5 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 130 | 6 |
| 8-9 | .2 | .4 | 1.5 | 1.5 | 6.3 | 1.9 | .6 | 1.3 | 1.9 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 75 | 8 |
| 10-11 | .0 | .6 | 1.0 | 1.5 | 1.7 | .4 | .4 | .2 | .6 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 32 | 7 |
| 12-13 | .0 | .0 | .4 | 1.3 | .6 | .2 | .0 | .2 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 15 | 7 |
| >13 | .0 | .0 | .0 | .4 | .6 | .6 | .6 | .0 | 1.0 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10 | 11 |
| INDET | 4.2 | .8 | .0 | .6 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29 | 1 |
| TOTAL | 29 | 44 | 105 | 121 | 84 | 34 | 17 | 18 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 478 | 8 |
| PCT | 6.1 | 9.2 | 22.0 | 25.3 | 17.6 | 7.1 | 3.6 | 3.8 | 4.6 | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | 1.7 | 1.4 | .0 | .0 | .0 | .0 | 3.0 | .9 | .0 | 1.7 | .0 | .8 | .0 | | 93.8 |
| NE | .0 | 1.0 | .0 | .0 | .0 | .0 | .0 | 1.0 | .0 | .5 | 1.2 | .0 | 1.0 | 1.0 | | 95.4 |
| E | 1.3 | 2.7 | .0 | .0 | .0 | .0 | .0 | 4.0 | .0 | 1.3 | 2.0 | .0 | .0 | .0 | | 91.6 |
| SE | 3.8 | 7.5 | .0 | .0 | .0 | .0 | .0 | 11.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | | 81.1 |
| S | 3.4 | .0 | 1.7 | .0 | .0 | .0 | .0 | 5.0 | .0 | .0 | 3.4 | .0 | 5.0 | .0 | | 86.6 |
| SW | 8.8 | .0 | 1.8 | .0 | .0 | .0 | .0 | 10.6 | 3.5 | .0 | .0 | .0 | 1.8 | .0 | | 84.1 |
| W | 5.3 | 1.3 | 3.9 | .0 | .0 | .0 | .0 | 10.5 | .0 | .0 | 1.3 | .0 | 2.6 | .0 | | 89.5 |
| NW | .8 | 1.2 | 1.8 | .0 | .0 | .0 | .0 | 3.8 | 1.4 | .0 | 3.2 | .0 | .8 | .0 | | 88.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18.2 | .0 | | 81.8 |
| TOT PCT | 1.4 | 1.6 | 1.3 | .0 | .0 | .0 | .0 | 4.1 | 1.1 | .2 | 2.2 | .0 | 1.4 | .2 | | 90.9 |
| TOT OBS: | 638 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.4 | 1.4 | 1.4 | .0 | .0 | .0 | .0 | 3.7 | .9 | .5 | 1.9 | .0 | .9 | .5 | | 91.7 |
| 06&09 | .8 | 1.6 | 1.6 | .0 | .0 | .0 | .0 | 3.9 | .8 | .0 | 2.4 | .0 | 1.6 | .0 | | 91.3 |
| 12&15 | 2.6 | 1.9 | 1.3 | .0 | .0 | .0 | .0 | 5.8 | .6 | .0 | 2.6 | .0 | 2.6 | .0 | | 88.4 |
| 18&21 | .6 | 1.3 | .6 | .0 | .0 | .0 | .0 | 2.5 | 1.9 | .0 | 2.5 | .0 | .6 | .0 | | 92.4 |
| TOT PCT | 1.4 | 1.3 | 1.2 | .0 | .0 | .0 | .0 | 4.0 | 1.1 | .2 | 2.3 | .0 | 1.4 | .2 | | 91.0 |
| TOT OBS: | 656 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .9 | 15.5 | 19.3 | 2.4 | .0 | .0 | | 38.0 | 12.3 | 40.7 | 38.8 | 35.8 | 38.1 | 24.7 | 37.5 | 44.4 | 41.5 |
| NE | 1.0 | 9.0 | 5.4 | .8 | .0 | .0 | | 16.1 | 10.7 | 12.4 | 12.1 | 22.7 | 13.1 | 21.2 | 16.7 | 15.4 | 15.8 |
| E | .9 | 2.7 | 1.6 | .0 | .0 | .0 | | 5.2 | 9.1 | 6.9 | 8.6 | 2.9 | 5.7 | 5.9 | 8.3 | 1.5 | 3.8 |
| SE | .9 | 2.4 | .8 | .0 | .0 | .0 | | 4.2 | 6.9 | 3.0 | 2.6 | 5.5 | 8.0 | 5.4 | 3.8 | 2.8 | 4.7 |
| S | .3 | 2.7 | 1.3 | .0 | .0 | .0 | | 4.3 | 8.7 | 4.3 | 7.8 | 5.8 | 6.8 | 3.6 | 3.3 | 2.5 | 3.0 |
| SW | .2 | 1.8 | 2.4 | .1 | .0 | .0 | | 4.4 | 11.3 | 5.4 | 4.3 | 4.1 | 1.1 | 2.8 | 2.5 | 8.3 | 3.4 |
| W | .1 | 4.1 | 2.4 | .1 | .0 | .0 | | 6.6 | 9.9 | 5.2 | 6.9 | 4.4 | 5.7 | 14.0 | 3.3 | 6.1 | 6.4 |
| NW | .8 | 6.1 | 10.0 | 2.5 | .0 | .0 | | 19.3 | 13.6 | 20.8 | 19.0 | 14.2 | 21.6 | 17.3 | 22.9 | 18.9 | 20.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | | 1.8 | .0 | 1.2 | .0 | 4.7 | .0 | 5.1 | 1.7 | .0 | .9 |
| TOT OBS | 49 | 323 | 315 | 42 | 0 | 0 | 729 | | 11.3 | 167 | 58 | 86 | 44 | 98 | 60 | 99 | 117 |
| TOT PCT | 6.7 | 44.3 | 43.2 | 5.8 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.9 | 26.5 | 6.3 | .2 | .0 | | 38.0 | 12.3 | 40.2 | 36.5 | 29.6 | 42.8 |
| NE | 3.5 | 10.3 | 2.2 | .1 | .0 | | 16.1 | 10.7 | 12.3 | 19.4 | 19.5 | 15.6 |
| E | 1.5 | 3.5 | .2 | .0 | .0 | | 5.2 | 9.1 | 7.3 | 3.8 | 6.8 | 2.8 |
| SE | 2.2 | 1.9 | * | .0 | .0 | | 4.2 | 6.9 | 2.9 | 6.3 | 4.7 | 3.8 |
| S | 2.0 | 1.9 | .4 | .0 | .0 | | 4.3 | 8.7 | 5.2 | 6.2 | 3.5 | 2.8 |
| SW | .8 | 2.9 | .6 | .0 | .0 | | 4.4 | 11.3 | 5.1 | 3.1 | 2.7 | 5.7 |
| W | 2.4 | 3.4 | .9 | .0 | .0 | | 6.6 | 9.9 | 5.7 | 4.8 | 10.0 | 6.3 |
| NW | 2.8 | 10.0 | 6.0 | .4 | .0 | | 19.3 | 13.6 | 20.3 | 16.7 | 19.5 | 19.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | 1.8 | .0 | .9 | 3.1 | 3.8 | .5 |
| TOT OBS | 160 | 441 | 122 | 6 | 0 | 729 | | 11.3 | 225 | 130 | 158 | 216 |
| TOT PCT | 21.9 | 60.5 | 16.7 | .8 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

DECEMBER

PERIOD: (PRIMARY) 1965-1972
(OVER-ALL) 1872-1972

TABLE 4

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | 4.0 | 44.0 | 46.2 | 4.9 | .0 | .0 | 11.6 | 100.0 | 225 |
| 06&09 | 3.1 | 6.2 | 40.0 | 43.1 | 7.7 | .0 | .0 | 11.3 | 100.0 | 130 |
| 12&15 | 3.8 | 6.3 | 44.9 | 39.9 | 5.1 | .0 | .0 | 10.7 | 100.0 | 158 |
| 18&21 | .5 | 4.2 | 46.8 | 42.6 | 6.0 | .0 | .0 | 11.3 | 100.0 | 216 |
| TOT | 13 | 36 | 323 | 315 | 42 | 0 | 0 | 11.3 | | 729 |
| PCT | 1.8 | 4.9 | 44.3 | 43.2 | 5.8 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.0 | 3.6 | 14.4 | 8.6 | | 4.9 |
| NE | 4.2 | 3.1 | 7.7 | 3.5 | | 4.9 |
| E | 1.3 | .5 | 1.3 | .9 | | 4.6 |
| SE | .1 | .0 | 2.5 | 1.0 | | 6.6 |
| S | .9 | .5 | 2.0 | .9 | | 5.4 |
| SW | .4 | .5 | 2.4 | 2.2 | | 6.5 |
| W | .3 | .7 | 3.7 | 2.2 | | 6.1 |
| NW | 2.9 | 4.0 | 8.0 | 2.3 | | 4.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .3 | .5 | .8 | .8 | | 5.7 |
| TOT OBS | 72 | 57 | 159 | 83 | 371 | 5.2 |
| TOT PCT | 19.4 | 15.4 | 42.9 | 22.4 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .0 | .2 | 2.8 | 10.4 | 4.9 | .8 | .0 | .3 | .0 | 18.0 | |
| NE | .0 | .0 | .3 | 1.9 | 3.8 | 2.4 | .5 | .0 | .0 | .8 | 8.8 | |
| E | .0 | .3 | .0 | .3 | .5 | .0 | .0 | .0 | .0 | .0 | 3.0 | |
| SE | .1 | .0 | .0 | .6 | 1.7 | .0 | .0 | .0 | .0 | .0 | 1.2 | |
| S | .1 | .0 | .3 | .2 | 1.2 | .3 | .1 | .0 | .0 | .0 | 2.1 | |
| SW | .0 | .0 | .0 | .6 | 2.1 | .3 | .7 | .0 | .0 | .3 | 1.5 | |
| W | .4 | .0 | .0 | .9 | .9 | 1.7 | .8 | .3 | .0 | .0 | 1.8 | |
| NW | .4 | .0 | .3 | 1.0 | 3.3 | 2.1 | .8 | .0 | .0 | .0 | 9.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .0 | .0 | .3 | .5 | .0 | .0 | .0 | .0 | 1.6 | |
| TOT OBS | 5 | 1 | 4 | 31 | 90 | 45 | 14 | 1 | 1 | 4 | 175 | 371 |
| TOT PCT | 1.3 | .3 | 1.1 | 8.4 | 24.3 | 12.1 | 3.8 | .3 | .3 | 1.1 | 47.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| * OR >5000 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| * OR >3500 | 5.1 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| * OR >2000 | 16.3 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| * OR >1000 | 39.6 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 |
| * OR >600 | 42.2 | 49.7 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 |
| * OR >300 | 43.0 | 50.8 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 |
| * OR >150 | 43.3 | 51.1 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 |
| * OR > 0 | 43.9 | 51.9 | 52.4 | 52.7 | 52.7 | 52.7 | 52.9 | 52.9 |
| TOTAL | 164 | 194 | 196 | 197 | 197 | 197 | 198 | 198 |

TOTAL NUMBER OF OBS: 374 PCT FREQ NH <5/8: 47.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 7.4 | 8.2 | 11.4 | 11.1 | 7.2 | 7.9 | 15.8 | 12.6 | 17.6 .7 | 404 |

DECEMBER

PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | | | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | | | |
| | NO PCP | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .5 | |
| | TOT % | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .5 | |
| 1<2 | PCP | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | | | | |
| | NO PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | |
| | TOT % | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | |
| 2<5 | PCP | .0 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | | | | |
| | NO PCP | .3 | .0 | .1 | * | .0 | .2 | .2 | * | .0 | .0 | .8 | |
| | TOT % | .3 | .0 | .1 | .2 | .0 | .2 | .2 | * | .0 | .0 | .9 | |
| 5<10 | PCP | .9 | .2 | .2 | .2 | .2 | .5 | .4 | .6 | | | | |
| | NO PCP | 11.7 | 4.8 | 2.2 | 1.3 | 2.0 | .6 | 1.3 | 7.4 | .0 | .0 | 30.1 | |
| | TOT % | 12.6 | 4.9 | 2.4 | 1.5 | 2.2 | 1.1 | 1.6 | 8.0 | .0 | .2 | 31.4 | |
| 10+ | PCP | .3 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | | | | |
| | NO PCP | 24.1 | 11.2 | 3.2 | 2.4 | 2.4 | 3.2 | 3.8 | 11.2 | .0 | .0 | .6 | |
| | TOT % | 24.4 | 11.2 | 3.2 | 2.4 | 2.4 | 3.2 | 4.1 | 11.3 | .0 | 1.6 | 63.1 | |
| | TOT OBS | | | | | | | | | | 1.6 | 63.7 | |
| | TOT PCT | 37.6 | 16.1 | 5.7 | 4.2 | 4.7 | 4.4 | 6.0 | 19.5 | .0 | 1.7 | 100.0 | 637 |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .2 | |
| | 11-21 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .6 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | | .2 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | |
| 2<5 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .1 | .0 | .1 | .2 | .0 | .2 | .2 | * | .0 | | .8 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .0 | .1 | .2 | .0 | .2 | .3 | * | .0 | .0 | 1.1 | |
| 5<10 | 0-3 | .6 | .7 | .2 | .4 | .2 | .1 | .0 | .1 | .0 | .2 | 2.5 | |
| | 4-10 | 4.8 | 2.2 | 1.6 | .9 | 1.3 | .2 | .9 | 1.5 | .0 | | 13.5 | |
| | 11-21 | 6.4 | 1.5 | .6 | .2 | .7 | .7 | .7 | 5.6 | .0 | | 16.3 | |
| | 22+ | .6 | .5 | .0 | .0 | .0 | .0 | .0 | .8 | .0 | | 1.9 | |
| | TOT % | 12.4 | 4.9 | 2.4 | 1.5 | 2.2 | 1.0 | 1.6 | 7.9 | .0 | .2 | 34.1 | |
| 10+ | 0-3 | .3 | .2 | .7 | .5 | .2 | .1 | .1 | .5 | .0 | 1.7 | 4.3 | |
| | 4-10 | 10.3 | 6.7 | 1.3 | 1.3 | 1.5 | 1.4 | 2.7 | 3.8 | .0 | | 29.0 | |
| | 11-21 | 12.1 | 3.8 | 1.1 | .5 | .8 | 1.9 | 1.5 | 4.9 | .0 | | 26.7 | |
| | 22+ | 1.7 | .2 | .0 | .0 | .0 | .0 | .0 | 2.0 | .0 | | 3.9 | |
| | TOT % | 24.3 | 11.0 | 3.1 | 2.4 | 2.4 | 3.3 | 4.3 | 11.3 | .0 | 1.7 | 63.9 | |
| | TOT OBS | | | | | | | | | | 1.9 | 100.0 | |
| | TOT PCT | 37.6 | 15.9 | 5.7 | 4.1 | 4.7 | 4.6 | 6.2 | 19.4 | .0 | | | 645 |

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PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

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29.5N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .8 | .0 | 2.4 | 8.9 | 21.1 | 11.4 | 4.1 | .0 | .8 | .8 | 50.4 | 49.6 | 123 |
| 06&09 | 1.2 | .0 | .0 | 6.0 | 26.5 | 7.2 | 1.2 | .0 | .0 | 1.2 | 43.4 | 56.6 | 83 |
| 12&15 | 1.3 | 1.3 | 1.3 | 1.3 | 33.3 | 17.3 | 1.3 | .0 | .0 | .0 | 57.3 | 42.7 | 75 |
| 18&21 | 2.0 | .0 | .0 | 13.9 | 17.8 | 12.9 | 7.9 | 1.0 | .0 | 2.0 | 57.4 | 42.6 | 101 |
| TOT | 5 | 1 | 4 | 31 | 91 | 46 | 15 | 1 | 1 | 4 | 199 | 183 | 382 |
| PCT | 1.3 | .3 | 1.0 | 8.1 | 23.8 | 12.0 | 3.9 | .3 | .3 | 1.0 | 52.1 | 47.9 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .9 | .5 | 1.4 | 33.9 | 63.3 | 218 |
| 06&09 | .8 | .8 | .0 | .0 | 34.4 | 64.1 | 128 |
| 12&15 | .0 | .0 | .0 | 1.3 | 46.5 | 52.2 | 157 |
| 18&21 | .0 | 1.3 | .0 | 1.3 | 25.6 | 71.9 | 160 |
| TOT | 1 | 5 | 1 | 7 | 232 | 417 | 663 |
| PCT | .2 | .8 | .2 | 1.1 | 35.0 | 62.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <5/8 AND 3+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .8 | 3.4 | 14.4 | 39.0 | 46.6 | 118 |
| 06&09 | 1.2 | 1.2 | 7.2 | 36.1 | 56.6 | 83 |
| 12&15 | 1.3 | 4.0 | 5.3 | 52.0 | 42.7 | 75 |
| 18&21 | 2.0 | 2.0 | 16.3 | 42.9 | 40.8 | 98 |
| TOT | 5 | 10 | 43 | 157 | 174 | 374 |
| PCT | 1.3 | 2.7 | 11.5 | 42.0 | 46.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | .0 | .2 | .2 | .2 | .0 | .0 | 3 | .7 |
| 65/69 | .0 | .0 | .0 | .2 | 2.4 | 4.2 | 2.4 | .9 | 43 | 10.1 |
| 60/64 | .0 | .0 | .0 | 4.2 | 14.9 | 20.3 | 17.9 | 7.1 | 273 | 64.4 |
| 55/59 | .0 | .0 | .0 | 2.1 | 8.5 | 6.8 | 4.5 | 1.9 | 101 | 23.8 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .2 | 4 | .9 |
| TOTAL | 0 | 0 | 0 | 29 | 110 | 134 | 108 | 43 | 424 | 100.0 |
| PCT | .0 | .0 | .0 | 6.8 | 25.9 | 31.6 | 25.5 | 10.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .2 | .2 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 |
| 3.2 | .7 | .4 | .0 | .2 | 2.1 | 1.3 | 1.7 | .0 | .5 |
| 23.2 | 11.6 | 4.0 | 2.7 | 3.0 | 2.9 | 4.0 | 11.1 | .0 | 1.9 |
| 10.5 | 4.6 | .5 | .9 | .6 | .2 | .9 | 5.5 | .0 | .0 |
| .2 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 37.4 | 17.6 | 5.0 | 3.7 | 3.8 | 5.3 | 6.3 | 18.6 | .0 | 2.4 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 72 | 68 | 66 | 61 | 57 | 54 | 51 | 61.5 | 224 |
| 06&09 | 70 | 68 | 64 | 60 | 56 | 55 | 52 | 60.2 | 131 |
| 12&15 | 66 | 65 | 64 | 60 | 55 | 51 | 48 | 59.9 | 161 |
| 18&21 | 72 | 68 | 66 | 62 | 57 | 54 | 52 | 61.6 | 219 |
| TOT | 72 | 68 | 66 | 61 | 57 | 52 | 48 | 60.9 | 735 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 5.1 | 23.9 | 34.8 | 23.9 | 12.3 | 76 | 138 |
| 06&09 | .0 | 2.2 | 26.7 | 40.0 | 20.0 | 11.1 | 76 | 90 |
| 12&15 | .0 | 7.0 | 26.7 | 29.1 | 27.9 | 9.3 | 75 | 86 |
| 18&21 | .0 | 12.3 | 27.2 | 22.8 | 29.8 | 7.9 | 74 | 114 |
| TOT | 0 | 29 | 111 | 135 | 109 | 44 | 76 | 428 |

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|
| 7/8 | .0 | .0 | .0 | .3 | .2 | .2 | 4 | .0 | .6 |
| 6 | .0 | .0 | .0 | .2 | .0 | .2 | 2 | .0 | .3 |
| 5 | .0 | .0 | .0 | .5 | .6 | .3 | 9 | .0 | 1.4 |
| 4 | .0 | .0 | .2 | .8 | .3 | .0 | 8 | .0 | 1.3 |
| 3 | .0 | .0 | .0 | 1.8 | 1.3 | .0 | 19 | .0 | 3.1 |
| 2 | .0 | .0 | .0 | 1.9 | .6 | .2 | 17 | .0 | 2.7 |
| 1 | .0 | .0 | .0 | 2.3 | 1.8 | .0 | 25 | .0 | 4.0 |
| 0 | .0 | .0 | 2.7 | 6.4 | 1.3 | .0 | 65 | .6 | 9.8 |
| -1 | .0 | .0 | 3.5 | 9.0 | 1.4 | .0 | 87 | .0 | 14.0 |
| -2 | .0 | .2 | 5.9 | 9.2 | .2 | .0 | 96 | .2 | 15.3 |
| -3 | .0 | .2 | 8.7 | 5.8 | .2 | .0 | 92 | .0 | 14.8 |
| -4 | .0 | .6 | 8.7 | 4.2 | .0 | .0 | 84 | .3 | 13.2 |
| -5 | .0 | .3 | 3.9 | 2.3 | .0 | .0 | 40 | .3 | 6.1 |
| -6 | .0 | .6 | 3.4 | .5 | .0 | .0 | 28 | .0 | 4.5 |
| -7/-8 | .2 | 1.0 | 3.4 | .8 | .0 | .0 | 33 | .0 | 5.3 |
| -9/-10 | .2 | .2 | .6 | .0 | .0 | .0 | 6 | .0 | 1.0 |
| -11/-13 | .5 | .2 | .2 | .3 | .0 | .0 | 7 | .3 | .9 |
| TOTAL | 5 | 20 | 256 | 287 | 49 | 5 | 622 | 11 | 611 |
| PCT | .8 | 3.2 | 41.2 | 46.1 | 7.9 | .8 | 100.0 | 1.8 | 98.2 |

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | 2.2 | .0 | .0 | .0 | .0 | 2.2 |
| 1-2 | .0 | 6.9 | 2.2 | .0 | .0 | .0 | 9.1 |
| 3-4 | .0 | 3.7 | 9.4 | .5 | .0 | .0 | 13.6 |
| 5-6 | .0 | 2.2 | 3.7 | 1.9 | .0 | .0 | 7.9 |
| 7 | .0 | .8 | 1.4 | .0 | .0 | .0 | 2.3 |
| 8-9 | .0 | .5 | .0 | 1.4 | .0 | .0 | 1.9 |
| 10-11 | .0 | .0 | 1.0 | .0 | .0 | .0 | 1.0 |
| 12 | .0 | .0 | 1.0 | .0 | .0 | .0 | 1.0 |
| 13-16 | .0 | .0 | .0 | .4 | .0 | .0 | .4 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 16.3 | 18.7 | 4.2 | .0 | .0 | 39.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | 1.1 | 9.1 | 2.1 | .0 | .0 | .0 | 12.2 |
| 3-4 | .0 | 4.8 | 3.5 | .0 | .0 | .0 | 8.3 |
| 5-6 | .0 | 1.4 | 1.2 | .0 | .0 | .0 | 2.7 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .5 | .5 | .0 | .0 | 1.0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 15.6 | 7.2 | .5 | .0 | .0 | 24.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | 1.0 | .0 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .4 | 1.3 | .5 | .0 | .0 | .0 | 2.2 |
| 3-4 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.3 | 1.3 | 1.3 | .0 | .0 | .0 | 4.0 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | .0 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | 1.0 | .5 | .0 | .0 | .0 | 1.4 |
| 3-4 | .0 | .5 | .8 | .0 | .0 | .0 | 1.3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 1.4 | 1.3 | .0 | .0 | .0 | 3.3 |

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | 1.6 | .0 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .0 | .7 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.6 | .7 | .0 | .0 | .0 | 2.3 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .4 | .5 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .5 | 1.9 | .0 | .0 | .0 | 2.4 |
| 5-6 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.3 | 3.5 | .0 | .0 | .0 | 4.8 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | 1.9 | .4 | .0 | .0 | .0 | 2.3 |
| 3-4 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 2.4 | 1.7 | .0 | .0 | .0 | 4.1 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .5 | .0 | .0 | .0 | .0 | .0 | .5 | |
| 1-2 | 1.0 | 3.0 | 1.7 | .0 | .0 | .0 | 5.7 | |
| 3-4 | .0 | 1.6 | 3.0 | .5 | .0 | .0 | 5.1 | |
| 5-6 | .0 | .7 | 1.3 | .0 | .0 | .0 | 2.1 | |
| 7 | .0 | .1 | 1.0 | .0 | .0 | .0 | 1.1 | |
| 8-9 | .0 | .0 | .0 | 1.0 | .0 | .0 | 1.0 | |
| 10-11 | .0 | .0 | .0 | .5 | .0 | .0 | .5 | |
| 12 | .0 | .0 | .0 | .5 | .0 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.4 | 5.4 | 7.0 | 2.5 | .0 | .0 | 16.4 | 98.6 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.4 | 3.4 | .0 | .0 | .0 | .0 | 6.7 | |
| 1-2 | 2.9 | 25.0 | 7.7 | .0 | .0 | .0 | 35.6 | |
| 3-4 | .0 | 11.1 | 20.2 | 1.0 | .0 | .0 | 32.2 | |
| 5-6 | .0 | 4.3 | 7.7 | 1.9 | .0 | .0 | 13.9 | |
| 7 | .0 | 1.0 | 2.9 | .0 | .0 | .0 | 3.8 | |
| 8-9 | .0 | .5 | 1.0 | 2.9 | .0 | .0 | 4.3 | |
| 10-11 | .0 | .0 | 1.0 | .5 | .0 | .0 | 1.4 | |
| 12 | .0 | .0 | 1.0 | .5 | .0 | .0 | 1.4 | |
| 13-16 | .0 | .0 | .0 | .5 | .0 | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 6.3 | 45.2 | 41.3 | 7.2 | .0 | .0 | 100.0 | 208 |

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.7 | 10.2 | 16.2 | 7.7 | 3.7 | .6 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 142 | 4 |
| 6-7 | .0 | .3 | 4.5 | 9.7 | 5.7 | 3.1 | .9 | 1.4 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 92 | 6 |
| 8-9 | .0 | .0 | 2.8 | 5.4 | 5.1 | 1.4 | 1.1 | .9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 59 | 6 |
| 10-11 | .0 | .3 | .9 | 1.7 | .6 | 2.0 | 1.7 | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29 | 7 |
| 12-13 | .0 | .0 | .6 | .0 | .6 | 1.1 | .6 | .0 | .9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 13 | 9 |
| >13 | .0 | .0 | .0 | .3 | .6 | .3 | .3 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | 8 |
| INDET | 1.4 | .9 | .3 | .0 | .3 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 11 | 3 |
| TOTAL | 11 | 41 | 89 | 87 | 58 | 30 | 16 | 12 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 352 | 5 |
| PCT | 3.1 | 11.6 | 25.3 | 24.7 | 16.5 | 8.5 | 4.5 | 3.4 | 2.0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | 1.0 | 1.0 | .0 | .0 | .0 | .0 | 2.2 | .6 | * | 2.1 | .1 | .7 | * | | 94.4 |
| NE | .9 | .6 | 1.7 | .0 | .0 | .0 | .0 | 3.1 | 1.1 | .2 | 2.2 | * | .6 | .1 | | 92.9 |
| E | 2.6 | .2 | 1.6 | .0 | .0 | .0 | .0 | 3.4 | .0 | .5 | 3.5 | .6 | 1.6 | .0 | | 90.6 |
| SE | 6.3 | 1.1 | 3.3 | .0 | .0 | .0 | .0 | 10.8 | 7.6 | .3 | 1.5 | .4 | .3 | .0 | | 79.2 |
| S | 1.2 | .9 | 2.9 | .0 | .0 | .0 | .0 | 5.0 | 1.4 | .0 | 1.5 | 1.1 | .6 | .0 | | 90.3 |
| SW | 3.7 | .6 | .8 | .0 | .0 | .0 | .0 | 5.1 | 1.3 | .1 | 2.5 | .1 | 1.0 | .0 | | 90.0 |
| W | 1.4 | 2.0 | 1.1 | .0 | .0 | .0 | .0 | 4.5 | 1.1 | .2 | 2.0 | .0 | .9 | .0 | | 91.4 |
| NW | .5 | 1.1 | 1.1 | .0 | .0 | .0 | .0 | 2.6 | .9 | * | 2.0 | .1 | .9 | * | | 93.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.2 | .0 | 1.5 | .8 | 2.7 | .0 | | 93.8 |
| TOT PCT | .7 | 1.0 | 1.2 | .0 | .0 | .0 | .0 | 2.9 | .8 | .1 | 2.2 | .1 | .9 | * | | 93.0 |
| TOT OBS: 11111 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .5 | 1.0 | .6 | .0 | .0 | .0 | .0 | 2.0 | .4 | * | 2.3 | .1 | .8 | | .1 | 94.3 |
| 06&09 | .8 | 1.1 | 1.6 | .0 | .0 | .0 | .0 | 3.4 | 1.2 | .1 | 1.7 | .1 | .7 | | .0 | 92.8 |
| 12&15 | .8 | 1.6 | 1.8 | .0 | .0 | .0 | .0 | 4.3 | .8 | .2 | 2.7 | .2 | 1.1 | | .0 | 90.8 |
| 18&21 | .3 | .6 | .6 | .0 | .0 | .0 | .0 | 2.1 | 1.0 | * | 2.1 | .1 | .8 | | * | 93.9 |
| TOT PCT | .7 | 1.1 | 1.1 | .0 | .0 | .0 | .0 | 2.9 | .8 | .1 | 2.2 | .1 | .8 | | * | 93.0 |
| TOT OBS: 11269 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 16.1 | 24.1 | 3.6 | * | .0 | | 44.9 | 13.1 | 46.1 | 46.6 | 42.4 | 45.5 | 42.3 | 47.7 | 45.4 | 46.4 |
| NE | .4 | 4.5 | 4.4 | .4 | .0 | .0 | | 9.7 | 11.5 | 8.3 | 10.4 | 10.0 | 9.6 | 10.2 | 11.2 | 8.8 | 12.0 |
| E | .3 | 1.6 | .7 | .1 | .0 | .0 | | 2.7 | 9.1 | 2.4 | 3.5 | 2.6 | 2.5 | 2.7 | 3.7 | 2.1 | 3.3 |
| SE | .3 | .9 | .3 | .1 | * | .0 | | 1.7 | 9.7 | 1.4 | 1.9 | 1.4 | 2.3 | 1.6 | 1.1 | 1.8 | 2.3 |
| S | .3 | 1.5 | .9 | .1 | .0 | .0 | | 2.8 | 9.2 | 2.5 | 2.3 | 3.5 | 3.5 | 3.0 | 2.2 | 2.9 | 2.4 |
| SW | .3 | 1.6 | 1.3 | .1 | .0 | .0 | | 3.3 | 9.6 | 3.3 | 2.7 | 3.7 | 2.7 | 2.7 | 2.7 | 3.7 | 4.0 |
| W | .5 | 3.6 | 2.0 | .3 | * | .0 | | 6.3 | 9.6 | 6.4 | 7.1 | 6.5 | 5.8 | 7.1 | 4.4 | 5.8 | 6.5 |
| NW | .7 | 10.7 | 13.5 | 2.1 | .1 | .0 | | 27.1 | 12.7 | 28.3 | 25.2 | 27.6 | 27.7 | 27.4 | 26.7 | 27.8 | 22.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.5 | | | | | | | 1.5 | .0 | 1.3 | .4 | 2.2 | .4 | 2.9 | .2 | 1.6 | .5 |
| TOT OBS | | | | | | | 11910 | | 12.1 | 2685 | 592 | 1924 | 511 | 2063 | 676 | 2160 | 1299 |
| TOT PCT | 5.3 | 40.4 | 47.3 | 6.8 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.7 | 27.4 | 11.2 | .6 | .0 | | 44.9 | 13.1 | 46.3 | 43.2 | 43.7 | 45.7 |
| NE | 1.9 | 5.9 | 1.8 | .1 | .0 | | 9.7 | 11.5 | 8.7 | 9.9 | 10.5 | 9.9 |
| E | 1.0 | 1.6 | .2 | * | .0 | | 2.7 | 9.1 | 2.6 | 2.6 | 3.0 | 2.6 |
| SE | .7 | .8 | .1 | * | .0 | | 1.7 | 9.7 | 1.5 | 1.7 | 1.4 | 2.0 |
| S | 1.0 | 1.5 | .4 | * | .0 | | 2.8 | 9.2 | 2.5 | 3.5 | 2.8 | 2.6 |
| SW | .9 | 1.9 | .5 | * | .0 | | 3.3 | 9.6 | 3.1 | 3.4 | 2.7 | 3.8 |
| W | 1.9 | 3.7 | .6 | .1 | .0 | | 6.3 | 9.6 | 6.5 | 6.3 | 6.3 | 6.2 |
| NW | 3.9 | 16.5 | 6.2 | .5 | .0 | | 27.1 | 12.7 | 27.6 | 27.6 | 27.2 | 26.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.5 | | | | | | 1.5 | .0 | 1.1 | 1.8 | 2.2 | 1.2 |
| TOT OBS | | | | | | 11910 | | 12.1 | 3277 | 2435 | 2739 | 3459 |
| TOT PCT | 18.5 | 59.1 | 21.1 | 1.3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

ANNUAL

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 3.8 | 38.0 | 50.0 | 6.9 | .1 | .0 | 12.4 | 100.0 | 3277 |
| 06&09 | 1.8 | 3.3 | 41.0 | 46.9 | 6.9 | .1 | .0 | 12.1 | 100.0 | 2435 |
| 12&15 | 2.2 | 3.5 | 42.5 | 45.0 | 6.5 | .2 | .0 | 11.9 | 100.0 | 2739 |
| 18&21 | 1.2 | 4.4 | 40.6 | 46.9 | 6.8 | .1 | .0 | 12.0 | 100.0 | 3459 |
| TOT PCT | 1.5 | 3.8 | 40.4 | 47.3 | 6.8 | .1 | .0 | 12.1 | 100.0 | 11910 |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.2 | 6.1 | 15.5 | 14.6 | | 5.3 |
| NE | 2.4 | 1.3 | 3.2 | 2.7 | | 5.2 |
| E | .6 | .3 | .6 | .7 | | 5.4 |
| SE | .2 | .2 | .6 | .6 | | 6.1 |
| S | .5 | .3 | 1.0 | 1.0 | | 5.9 |
| SW | .6 | .5 | 1.0 | 1.1 | | 5.6 |
| W | 1.1 | .9 | 2.2 | 2.2 | | 5.7 |
| NW | 4.9 | 3.7 | 9.2 | 10.3 | | 5.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .2 | .4 | .7 | | 5.2 |
| TOT OBS | | | | | 8224 | 5.4 |
| TOT PCT | 18.9 | 13.5 | 33.7 | 33.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .9 | 4.9 | 13.4 | 6.7 | 1.2 | .2 | .1 | .1 | 16.6 | |
| NE | .1 | * | .2 | 1.0 | 2.2 | 1.0 | .2 | * | .1 | .2 | 4.6 | |
| E | * | * | * | .3 | .5 | .1 | .1 | * | * | * | 1.2 | |
| SE | * | * | * | .2 | .3 | .1 | .1 | * | * | * | .7 | |
| S | * | * | .1 | .3 | .3 | .4 | .2 | * | * | * | 1.2 | |
| SW | * | .0 | .1 | .3 | .8 | .4 | .1 | * | * | * | 1.4 | |
| W | .1 | * | .1 | .7 | 1.6 | .8 | .2 | .1 | * | * | 2.6 | |
| NW | .2 | .1 | .6 | 3.0 | 7.8 | 5.0 | 1.0 | .2 | .2 | .1 | 9.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .1 | .5 | .2 | .1 | .0 | * | .0 | .8 | |
| TOT OBS | | | | | | | | | | | | 8224 |
| TOT PCT | .6 | .4 | 2.1 | 10.7 | 27.6 | 14.9 | 3.1 | .6 | .4 | .5 | 39.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | 1.2 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 |
| * OR >3500 | 3.7 | 4.5 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| * OR >2000 | 15.6 | 19.1 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |
| * OR >1000 | 36.7 | 46.2 | 47.0 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 |
| * OR >600 | 44.1 | 56.3 | 57.6 | 57.7 | 57.7 | 57.8 | 57.8 | 57.8 |
| * OR >300 | 45.4 | 58.2 | 59.6 | 59.8 | 59.8 | 59.8 | 59.9 | 59.9 |
| * OR >150 | 45.6 | 58.5 | 59.9 | 60.1 | 60.2 | 60.2 | 60.3 | 60.3 |
| * OR > 0 | 45.8 | 58.7 | 60.3 | 60.5 | 60.6 | 60.7 | 60.8 | 60.9 |

TOTAL NUMBER OF OBS: 8268

PCT FREQ NH <5/8: 39.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 8.8 | 6.3 | 8.9 | 8.2 | 6.6 | 6.6 | 11.0 | 14.5 | 28.8 | .4 | 8605 |

ANNUAL

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| <1/2 | NO PCP | * | * | * | * | * | * | * | .1 | .0 | * | .3 | |
| | TOT % | .1 | .1 | * | * | * | * | * | .1 | .0 | * | .3 | |
| | PCP | .1 | * | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| 1/2<1 | NO PCP | .5 | .1 | * | * | * | .1 | * | .1 | .0 | * | 1.0 | |
| | TOT % | .6 | .1 | * | * | * | .1 | * | .2 | .0 | * | 1.1 | |
| | PCP | * | * | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .1 | * | * | .0 | * | * | * | * | .0 | .0 | .2 | |
| | TOT % | .1 | * | * | * | * | * | * | .1 | .0 | .0 | .3 | |
| | PCP | * | * | * | .1 | * | .1 | .1 | .1 | .0 | .0 | .4 | |
| 2<5 | NO PCP | .5 | .1 | .1 | * | * | .1 | .1 | .4 | .0 | * | 1.4 | |
| | TOT % | .6 | .1 | .1 | .1 | .1 | .1 | .2 | .5 | .0 | * | 1.8 | |
| | PCP | .6 | .1 | .1 | .1 | .1 | .1 | .2 | .4 | .0 | .0 | 1.6 | |
| 5<10 | NO PCP | 12.4 | 2.5 | 1.0 | .5 | .8 | .8 | 1.6 | 7.4 | .0 | .2 | 27.3 | |
| | TOT % | 19.1 | 2.6 | 1.0 | .6 | .9 | 1.0 | 1.8 | 7.8 | .0 | .2 | 28.9 | |
| | PCP | .2 | * | * | * | .1 | * | .1 | .1 | .0 | .0 | * .5 | |
| 10+ | NO PCP | 30.1 | 6.4 | 1.5 | .9 | 1.8 | 2.0 | 4.1 | 18.8 | .0 | 1.3 | 67.0 | |
| | TOT % | 30.3 | 6.5 | 1.5 | .9 | 1.8 | 2.0 | 4.2 | 19.0 | .0 | 1.3 | 67.5 | |
| | TOT OBS | | | | | | | | | | | | 11092 |
| | TOT PCT | 44.7 | 9.4 | 2.7 | 1.7 | 2.9 | 3.2 | 6.3 | 27.6 | .0 | 1.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | .0 | .0 | .0 | * | * | .0 | .0 | * | * | |
| <1/2 | 4-10 | * | * | * | * | * | * | * | .1 | .0 | | .2 | |
| | 11-21 | * | * | * | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .1 | * | * | * | * | * | .1 | .0 | * | .3 | |
| | 0-3 | * | .0 | .0 | .0 | .0 | * | .0 | * | .0 | * | * | |
| 1/2<1 | 4-10 | .3 | * | * | * | .0 | * | * | .1 | .0 | | .5 | |
| | 11-21 | .3 | .1 | .0 | .0 | * | * | * | .1 | .0 | | .5 | |
| | 22+ | * | * | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .6 | .1 | * | * | * | .1 | * | .2 | .0 | * | 1.1 | |
| | 0-3 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 1<2 | 4-10 | .1 | * | * | * | * | * | * | * | .0 | | .2 | |
| | 11-21 | * | * | .0 | * | .0 | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | | * | |
| | TOT % | .1 | * | * | * | * | * | * | .1 | .0 | .0 | .3 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| 2<5 | 4-10 | .2 | .1 | * | * | .1 | .1 | .1 | .2 | .0 | | .8 | |
| | 11-21 | .3 | .1 | * | * | * | .1 | * | .3 | .0 | | .9 | |
| | 22+ | * | * | * | * | .0 | * | * | * | .0 | | .1 | |
| | TOT % | .6 | .1 | .1 | .1 | .1 | .1 | .2 | .5 | .0 | * | 1.9 | |
| | 0-3 | .3 | .2 | .1 | .1 | .1 | .1 | .2 | .2 | .0 | .2 | 1.4 | |
| 5<10 | 4-10 | 4.8 | 1.1 | .5 | .3 | .4 | .4 | 1.0 | 2.9 | .0 | | 11.4 | |
| | 11-21 | 7.0 | 1.2 | .3 | .1 | .3 | .4 | .6 | 4.1 | .0 | | 14.1 | |
| | 22+ | .9 | .1 | * | * | .1 | .1 | .1 | .6 | .0 | | 1.9 | |
| | TOT % | 13.0 | 2.6 | 1.0 | .6 | .9 | 1.0 | 1.8 | 7.7 | .0 | .2 | 28.8 | |
| | 0-3 | .6 | .2 | .2 | .2 | .1 | .2 | .3 | .4 | .0 | 1.3 | 3.5 | |
| 10+ | 4-10 | 10.3 | 3.2 | .9 | .5 | 1.0 | 1.0 | 2.4 | 7.5 | .0 | | 26.9 | |
| | 11-21 | 16.6 | 2.8 | .4 | .2 | .6 | .8 | 1.4 | 9.3 | .0 | | 32.1 | |
| | 22+ | 2.8 | .2 | * | * | .1 | * | .1 | 1.7 | .0 | | 5.0 | |
| | TOT % | 30.3 | 6.4 | 1.5 | .9 | 1.9 | 2.0 | 4.2 | 18.9 | .0 | 1.3 | 67.5 | |
| | TOT OBS | | | | | | | | | | | | 11143 |
| | TOT PCT | 44.7 | 9.4 | 2.7 | 1.7 | 2.9 | 3.2 | 6.3 | 27.5 | .0 | 1.6 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .2 | 2.3 | 10.6 | 26.3 | 14.9 | 3.2 | .7 | .5 | .4 | 59.5 | 40.5 | 2450 |
| 06&09 | .7 | .3 | 2.0 | 10.1 | 25.3 | 14.1 | 2.5 | .5 | .4 | .7 | 56.7 | 43.3 | 1899 |
| 12&15 | .6 | .5 | 2.1 | 10.4 | 30.7 | 14.9 | 2.3 | .1 | .4 | .3 | 62.3 | 37.7 | 1754 |
| 18&21 | .6 | .5 | 2.0 | 11.0 | 27.4 | 14.9 | 4.2 | 1.0 | .3 | .6 | 62.5 | 37.5 | 2282 |
| TOT PCT | .6 | .4 | 2.1 | 10.5 | 27.3 | 14.7 | 3.1 | .6 | .4 | .5 | 60.3 | 39.7 | 8385 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .2 | 1.2 | .3 | 1.4 | 27.5 | 69.4 | 3261 |
| 06&09 | .5 | .9 | .3 | 2.4 | 29.2 | 66.7 | 2455 |
| 12&15 | .5 | 1.4 | .4 | 2.1 | 36.4 | 59.2 | 2732 |
| 18&21 | .3 | .9 | .4 | 1.7 | 23.5 | 73.3 | 2853 |
| TOT PCT | .3 | 1.1 | .3 | 1.9 | 29.0 | 67.3 | 11301 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .4 | 3.1 | 14.5 | 46.0 | 39.5 | 2415 |
| 06&09 | .7 | 3.3 | 15.3 | 42.6 | 42.2 | 1872 |
| 12&15 | .6 | 3.5 | 15.5 | 48.1 | 36.4 | 1729 |
| 18&21 | .7 | 3.2 | 15.3 | 48.0 | 36.7 | 2252 |
| TOT PCT | .6 | 3.2 | 15.1 | 46.2 | 38.7 | 8268 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | | * |
| 75/79 | .0 | .0 | .0 | .1 | .2 | .1 | * | * | | .5 |
| 70/74 | .0 | .0 | * | .2 | 1.1 | 2.1 | .9 | .3 | | 4.6 |
| 65/69 | .0 | * | .1 | .4 | 2.6 | 8.3 | 8.6 | 3.8 | | 23.7 |
| 60/64 | .0 | .0 | .1 | 1.0 | 5.8 | 15.2 | 17.8 | 7.4 | | 47.4 |
| 55/59 | .0 | .0 | .1 | .7 | 3.9 | 7.5 | 6.9 | 3.1 | | 22.2 |
| 50/54 | .0 | .0 | .0 | .1 | .3 | .2 | .6 | .1 | | 1.4 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * |
| TOTAL PCT | .0 | * | .3 | 2.6 | 14.1 | 33.4 | 34.8 | 14.7 | 8369 | 100.0 |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .2 | * | * | * | .0 | * | * | .1 | .0 | * |
| 2.1 | .5 | .2 | .1 | * | .1 | .2 | 1.3 | .0 | .1 |
| 10.5 | 1.8 | .6 | .3 | .7 | .8 | 1.6 | 6.8 | .0 | .6 |
| 20.8 | 4.5 | 1.2 | .7 | 1.5 | 1.6 | 3.3 | 13.0 | .0 | .7 |
| 9.9 | 2.4 | .3 | .3 | .5 | .6 | 1.3 | 6.6 | .0 | .4 |
| .6 | .1 | .1 | * | * | * | .1 | .5 | .0 | * |
| .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 |
| 44.1 | 9.4 | 2.5 | 1.4 | 2.7 | 3.2 | 6.5 | 28.3 | .0 | 1.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 73 | 69 | 63 | 59 | 56 | 51 | 63.7 | 3293 |
| 06&09 | 84 | 68 | 66 | 61 | 58 | 56 | 51 | 61.7 | 2468 |
| 12&15 | 84 | 68 | 65 | 61 | 57 | 55 | 48 | 61.2 | 2762 |
| 18&21 | 79 | 72 | 68 | 63 | 59 | 57 | 51 | 63.3 | 3449 |
| TOT | 84 | 72 | 68 | 62 | 58 | 56 | 48 | 62.6 | 11972 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.4 | 16.3 | 38.1 | 31.4 | 10.9 | 78 | 2371 |
| 06&09 | .0 | 2.1 | 10.9 | 32.8 | 35.9 | 18.3 | 81 | 1907 |
| 12&15 | .0 | 2.3 | 11.1 | 27.1 | 40.2 | 19.2 | 81 | 1903 |
| 18&21 | .0 | 3.7 | 17.3 | 34.3 | 32.9 | 11.9 | 78 | 2263 |
| TOT | 0 | 214 | 1101 | 2647 | 3017 | 1265 | 79 | 8444 |

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | 5 | .0 | * |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | * | .0 | 27 | .0 | .2 |
| 9/10 | .0 | .0 | .0 | * | * | .1 | .3 | .1 | * | .0 | 57 | .0 | .6 |
| 7/8 | .0 | .0 | .0 | * | .1 | .5 | .4 | .1 | * | .0 | 119 | .0 | 1.1 |
| 6 | .0 | .0 | * | * | .2 | .5 | .3 | .1 | * | .0 | 127 | * | 1.2 |
| 5 | .0 | .0 | .0 | .1 | .4 | .9 | .6 | .2 | * | .0 | 239 | * | 2.1 |
| 4 | .0 | .0 | * | .2 | .8 | 1.0 | .6 | .2 | .0 | .0 | 303 | .1 | 2.8 |
| 3 | .0 | .0 | * | .2 | 1.2 | 1.1 | .6 | .1 | .0 | .0 | 340 | .1 | 3.1 |
| 2 | .0 | .0 | * | .5 | 2.5 | 2.0 | .6 | * | .0 | .0 | 624 | .1 | 5.7 |
| 1 | .0 | * | .1 | .9 | 3.2 | 2.4 | .6 | .1 | .0 | .0 | 786 | .1 | 7.1 |
| 0 | .0 | * | .1 | 2.8 | 5.9 | 3.8 | .4 | * | .0 | .0 | 1401 | .3 | 12.7 |
| -1 | .0 | * | .3 | 3.5 | 6.1 | 3.6 | .2 | * | .0 | .0 | 1481 | .5 | 13.2 |
| -2 | .0 | * | .7 | 5.0 | 6.3 | 2.7 | .2 | * | .0 | .0 | 1601 | .3 | 14.5 |
| -3 | .0 | * | .7 | 4.9 | 4.6 | 1.6 | .1 | .0 | .0 | .0 | 1268 | .2 | 11.7 |
| -4 | .0 | * | 1.2 | 4.2 | 3.3 | .9 | * | .0 | .0 | .0 | 1018 | .2 | 9.5 |
| -5 | .0 | * | 1.0 | 2.5 | 1.8 | .4 | * | .0 | .0 | .0 | 615 | .1 | 5.8 |
| -6 | .0 | * | .9 | 1.2 | .7 | .1 | .0 | .0 | .0 | .0 | 302 | * | 2.9 |
| -7/-8 | .0 | .1 | .7 | 1.2 | .6 | .1 | .0 | .0 | .0 | .0 | 266 | * | 2.7 |
| -9/-10 | * | .1 | .1 | .3 | .1 | * | .0 | .0 | .0 | .0 | 63 | .0 | .6 |
| -11/-13 | .0 | .1 | * | * | .1 | * | .0 | .0 | .0 | .0 | 19 | * | .2 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | | | | | | | | | | | 10662 | | |
| PCT | * | .4 | 6.0 | 27.6 | 38.0 | 21.7 | 5.1 | 1.1 | .1 | * | 100.0 | 2.2 | 97.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.6 | .1 | .0 | .0 | .0 | 1.9 |
| 1-2 | .2 | 7.1 | 3.9 | .0 | .0 | .0 | 11.3 |
| 3-4 | .1 | 4.9 | 10.3 | .7 | .0 | .0 | 15.9 |
| 5-6 | .0 | 1.3 | 7.0 | .9 | .0 | .0 | 9.2 |
| 7 | * | .4 | 3.0 | 1.3 | .0 | .0 | 4.7 |
| 8-9 | .0 | .2 | .7 | .6 | .0 | .0 | 1.5 |
| 10-11 | .0 | * | .4 | .4 | .0 | .0 | .8 |
| 12 | .0 | .0 | .2 | .2 | .0 | .0 | .3 |
| 13-16 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | * | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 15.4 | 25.7 | 4.2 | .0 | .0 | 45.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .6 | * | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 2.7 | 1.2 | .0 | .0 | .0 | 4.0 |
| 3-4 | .1 | 1.4 | 1.5 | .1 | .0 | .0 | 3.1 |
| 5-6 | .0 | .3 | 1.1 | .1 | .0 | .0 | 1.5 |
| 7 | .0 | * | .4 | .1 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 |
| 12 | .0 | .0 | * | * | .0 | .0 | * |
| 13-16 | .0 | * | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 5.1 | 4.3 | .4 | .0 | .0 | 10.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | * | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .9 | .2 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .3 | .2 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | * | .3 | .1 | .0 | .0 | .4 |
| 7 | .0 | * | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.4 | .7 | .2 | .0 | .0 | 2.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | .4 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .2 | .2 | * | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 7 | .0 | .1 | .0 | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .8 | .4 | .1 | .0 | .0 | 1.5 |

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.9N 122.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .6 | .2 | .0 | .0 | .0 | .8 | .1 | .5 | .4 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .2 | .3 | * | .0 | .0 | .6 | * | .4 | .6 | .1 | .0 | .0 | 1.1 |
| 5-6 | .0 | .1 | .1 | * | .0 | .0 | .2 | .0 | .1 | .2 | * | .0 | .0 | .4 |
| 7 | .0 | .0 | * | * | .0 | .0 | .1 | .0 | * | .1 | * | .0 | .0 | .2 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.2 | .7 | .1 | .0 | .0 | 2.2 | .2 | 1.4 | 1.5 | .1 | .0 | .0 | 3.1 |

| | W | | | | | | | NW | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | .7 | .0 | .0 | .0 | .0 | .9 | .2 | .9 | * | .0 | .0 | .0 | 1.1 | |
| 1-2 | .2 | 1.7 | .3 | .0 | .0 | .0 | 2.2 | .3 | 5.2 | 2.3 | .0 | .0 | .0 | 7.8 | |
| 3-4 | * | .8 | .8 | .0 | .0 | .0 | 1.6 | .1 | 3.1 | 4.9 | .2 | .0 | .0 | 8.2 | |
| 5-6 | .0 | .3 | .3 | .0 | .0 | .0 | .6 | * | 1.3 | 3.4 | .5 | .0 | .0 | 5.2 | |
| 7 | .0 | .2 | .2 | .1 | .0 | .0 | .4 | .0 | .2 | 1.9 | .6 | .0 | .0 | 2.7 | |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | .0 | .1 | .6 | .2 | .0 | .0 | .9 | |
| 10-11 | .0 | * | .0 | * | .0 | .0 | .1 | .0 | * | .2 | .3 | .0 | .0 | .5 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | * | .2 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .1 | * | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .4 | 3.7 | 1.8 | .2 | .0 | .0 | 6.0 | .6 | 10.7 | 13.4 | 2.1 | .0 | .0 | 26.8 | 98.2 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.1 | 4.9 | .2 | .0 | .0 | .0 | 8.1 | |
| 1-2 | 1.2 | 19.0 | 8.6 | .0 | .0 | .0 | 28.8 | |
| 3-4 | .3 | 11.2 | 18.7 | 1.1 | .0 | .0 | 31.3 | |
| 5-6 | * | 3.3 | 12.4 | 1.7 | .0 | .0 | 17.5 | |
| 7 | * | .9 | 5.7 | 2.1 | .0 | .0 | 8.8 | |
| 8-9 | .0 | .3 | 1.7 | 1.0 | .0 | .0 | 3.0 | |
| 10-11 | .0 | .1 | .6 | .8 | .0 | .0 | 1.5 | |
| 12 | .0 | .0 | .3 | .4 | .0 | .0 | .6 | |
| 13-16 | .0 | * | .2 | .2 | .0 | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 4917 |
| TOT PCT | 4.6 | 39.7 | 48.4 | 7.4 | .0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.3 | 7.6 | 14.5 | 7.3 | 3.4 | 1.0 | .5 | .2 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2623 | 4 |
| 6-7 | * | 1.5 | 6.9 | 9.8 | 6.5 | 3.0 | 1.7 | .8 | .4 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2334 | 6 |
| 8-9 | * | .4 | 2.4 | 4.0 | 4.9 | 2.8 | 1.6 | .9 | .6 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1361 | 7 |
| 10-11 | .0 | .3 | 1.0 | 1.4 | 1.4 | 1.2 | .7 | .6 | .5 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 532 | 7 |
| 12-13 | .0 | .0 | .5 | .4 | .6 | .4 | .4 | .1 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 198 | 8 |
| >13 | .0 | .0 | .0 | .2 | .3 | .3 | .2 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 96 | 9 |
| INDET | 1.3 | .7 | .5 | .5 | .5 | .1 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 262 | 3 |
| TOTAL | | | | | | | | | | | | | | | | | | | | 7404 | 5 |
| PCT | 2.6 | 10.5 | 25.8 | 23.7 | 17.6 | 8.8 | 5.3 | 2.8 | 2.4 | .5 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

| SEA TMP DEG F | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN | PCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 95/96 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 93/94 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 91/92 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 89/90 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 87/88 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 85/86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 83/84 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 81/82 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 79/80 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 77/78 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 1 | * |
| 75/76 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .6 | .4 | .1 | .0 | 14 | .1 |
| 73/74 | .0 | .0 | .0 | .1 | .1 | .3 | .6 | .3 | 2.3 | 1.3 | .2 | .1 | 53 | .5 |
| 71/72 | .1 | .0 | .0 | .3 | .3 | .0 | 1.1 | 3.5 | 6.4 | 3.8 | 1.0 | .1 | 169 | 1.5 |
| 69/70 | .1 | .4 | .1 | .9 | .8 | 1.2 | 3.4 | 10.3 | 16.9 | 13.7 | 4.9 | .3 | 540 | 4.7 |
| 67/68 | 1.4 | .4 | .9 | .3 | 1.2 | 5.1 | 17.9 | 31.2 | 29.9 | 31.4 | 20.8 | 5.1 | 1469 | 12.9 |
| 65/66 | 6.6 | 3.2 | 3.0 | 4.6 | 6.5 | 17.6 | 28.1 | 33.8 | 27.0 | 29.9 | 28.6 | 18.2 | 2046 | 17.9 |
| 63/64 | 23.1 | 19.3 | 17.3 | 17.9 | 29.5 | 36.0 | 32.1 | 18.0 | 14.7 | 16.1 | 33.3 | 36.9 | 2794 | 24.5 |
| 61/62 | 35.9 | 30.0 | 33.1 | 31.0 | 34.2 | 28.3 | 11.3 | 1.8 | 1.5 | 2.6 | 8.3 | 27.0 | 2254 | 19.8 |
| 59/60 | 21.5 | 31.1 | 28.9 | 32.8 | 21.5 | 9.1 | 4.1 | .8 | .4 | .4 | 2.7 | 10.0 | 1471 | 12.9 |
| 57/58 | 8.0 | 10.0 | 11.7 | 10.2 | 4.4 | 1.6 | .8 | .3 | .2 | .1 | .1 | 1.7 | 431 | 3.8 |
| 55/56 | 2.2 | 3.6 | 3.0 | 1.6 | 1.0 | .7 | .3 | .1 | .1 | .1 | .0 | .6 | 115 | 1.0 |
| 53/54 | .6 | 1.4 | 1.4 | .1 | .4 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | 34 | .3 |
| 51/52 | .5 | .2 | .3 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12 | .1 |
| 49/50 | .0 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | .1 |
| 47/48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 45/46 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 43/44 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 41/42 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 39/40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 37/38 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 35/36 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 33/34 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 31/32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 29/30 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 27/28 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| <27 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| TOTAL | 940 | 808 | 692 | 960 | 1156 | 1108 | 999 | 1108 | 896 | 1172 | 860 | 710 | 11409 | 100.0 |
| MEAN | 61.3 | 60.6 | 60.6 | 61.0 | 61.8 | 63.1 | 64.7 | 66.3 | 67.1 | 66.6 | 65.1 | 63.0 | 63.4 | |

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

| MO | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 1020 | 1021 | 1022 | 1022 | 1020 | 1021 | 1022 | 1021 | 1021 | 723 |
| FEB | 1018 | 1020 | 1020 | 1019 | 1019 | 1020 | 1021 | 1020 | 1020 | 725 |
| MAR | 1020 | 1019 | 1021 | 1016 | 1020 | 1020 | 1021 | 1020 | 1020 | 609 |
| APR | 1019 | 1019 | 1020 | 1019 | 1019 | 1020 | 1021 | 1020 | 1020 | 895 |
| MAY | 1018 | 1017 | 1019 | 1019 | 1018 | 1018 | 1019 | 1018 | 1019 | 1075 |
| JUN | 1017 | 1016 | 1018 | 1016 | 1016 | 1016 | 1018 | 1018 | 1017 | 1108 |
| JUL | 1016 | 1016 | 1017 | 1016 | 1016 | 1017 | 1017 | 1017 | 1017 | 985 |
| AUG | 1015 | 1016 | 1016 | 1016 | 1016 | 1016 | 1017 | 1017 | 1016 | 996 |
| SEP | 1014 | 1014 | 1015 | 1014 | 1015 | 1014 | 1016 | 1015 | 1015 | 801 |
| OCT | 1016 | 1016 | 1017 | 1016 | 1016 | 1016 | 1017 | 1017 | 1016 | 888 |
| NOV | 1017 | 1019 | 1019 | 1019 | 1018 | 1019 | 1020 | 1018 | 1018 | 705 |
| DEC | 1019 | 1020 | 1021 | 1019 | 1019 | 1021 | 1021 | 1021 | 1020 | 533 |
| ANN | 1017 | 1018 | 1019 | 1018 | 1018 | 1018 | 1019 | 1019 | 1018 | 10043 |
| OBS | 2404 | 326 | 1931 | 267 | 1815 | 408 | 2141 | 751 | | |

PERCENTILES

| MO | MIN | 1% | 5% | 25% | 50% | 75% | 95% | 99% | MAX |
|---|---|---|---|---|---|---|---|---|---|
| JAN | 1006 | 1012 | 1015 | 1019 | 1021 | 1024 | 1027 | 1028 | 1031 |
| FEB | 1005 | 1007 | 1012 | 1017 | 1020 | 1023 | 1026 | 1028 | 1031 |
| MAR | 1008 | 1010 | 1013 | 1018 | 1021 | 1023 | 1026 | 1028 | 1031 |
| APR | 1009 | 1011 | 1014 | 1018 | 1020 | 1022 | 1025 | 1027 | 1031 |
| MAY | 1008 | 1012 | 1014 | 1017 | 1019 | 1021 | 1023 | 1025 | 1027 |
| JUN | 1006 | 1009 | 1012 | 1015 | 1017 | 1019 | 1022 | 1023 | 1027 |
| JUL | 1009 | 1010 | 1013 | 1015 | 1017 | 1018 | 1020 | 1022 | 1024 |
| AUG | 1007 | 1009 | 1012 | 1015 | 1016 | 1018 | 1020 | 1022 | 1023 |
| SEP | 1005 | 1007 | 1010 | 1013 | 1015 | 1017 | 1019 | 1021 | 1022 |
| OCT | 1007 | 1009 | 1012 | 1015 | 1017 | 1018 | 1021 | 1022 | 1024 |
| NOV | 1002 | 1004 | 1012 | 1017 | 1019 | 1021 | 1024 | 1027 | 1029 |
| DEC | 1005 | 1009 | 1014 | 1018 | 1020 | 1023 | 1027 | 1029 | 1031 |

JANUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1890-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .6 | .1 | .6 | .0 | .0 | .0 | .0 | 1.3 | .2 | * | 7.9 | .2 | 7.8 | | .1 | 82.6 |
| NE | 1.2 | .1 | .7 | .0 | .0 | .0 | .0 | 1.7 | .5 | * | 4.9 | .1 | 10.0 | | .1 | 82.7 |
| E | 3.1 | .4 | 1.6 | .0 | .0 | .0 | .0 | 4.6 | 1.4 | .1 | 4.9 | .2 | 8.4 | | .1 | 80.5 |
| SE | 6.7 | 1.3 | 2.2 | .0 | .0 | .0 | .0 | 10.0 | 1.9 | .0 | 6.1 | .1 | 7.9 | | .0 | 74.0 |
| S | 7.5 | 2.3 | 2.6 | .0 | .0 | .0 | .1 | 12.3 | 1.9 | .0 | 6.3 | .3 | 5.6 | | .0 | 73.5 |
| SW | 4.3 | 1.7 | 2.2 | .0 | .0 | .0 | .1 | 7.7 | 1.5 | .0 | 6.8 | .3 | 5.7 | | .1 | 77.8 |
| W | 1.2 | 1.0 | 1.4 | .0 | .0 | .0 | * | 3.5 | 1.1 | .0 | 5.3 | .3 | 6.1 | | .0 | 83.7 |
| NW | .5 | .4 | 1.2 | .0 | .0 | .0 | .0 | 2.0 | .5 | .1 | 5.1 | .2 | 6.6 | | .1 | 85.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .5 | .1 | .8 | .0 | .0 | .0 | .1 | 1.6 | .1 | .0 | 17.4 | .0 | 13.9 | | .0 | 66.9 |
| TOT PCT | 1.9 | .7 | 1.3 | .0 | .0 | .0 | * | 3.8 | .8 | * | 6.4 | .2 | 7.4 | | .1 | 81.4 |
| TOT OBS: | 14527 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.8 | .6 | 1.1 | .0 | .0 | .0 | * | 3.3 | .6 | * | 5.1 | .2 | 8.0 | | .1 | 82.7 |
| 06&09 | 1.8 | .6 | 2.1 | .0 | .0 | .0 | * | 4.4 | 1.3 | * | 6.9 | .3 | 4.7 | | * | 82.3 |
| 12&15 | 2.2 | .9 | 1.5 | .0 | .0 | .0 | * | 4.4 | .8 | .1 | 6.8 | .2 | 7.1 | | .0 | 80.6 |
| 18&21 | 1.9 | .7 | 1.0 | .0 | .0 | .0 | 0 | 3.3 | .7 | .0 | 7.0 | .1 | 8.8 | | .1 | 80.0 |
| TOT PCT | 1.9 | .7 | 1.3 | .0 | .0 | .0 | * | 3.8 | .8 | * | 6.4 | .2 | 7.4 | | .1 | 81.3 |
| TOT OBS: | 14674 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.0 | 8.5 | 4.7 | .3 | * | * | | 15.6 | 9.0 | 13.2 | 16.2 | 16.8 | 15.5 | 17.6 | 14.8 | 18.1 | 13.7 |
| NE | 1.4 | 4.3 | 1.6 | .1 | * | .0 | | 7.4 | 7.8 | 3.3 | 5.8 | 5.8 | 6.3 | 8.5 | 13.7 | 11.0 | 5.9 |
| E | 1.4 | 3.6 | 1.1 | .1 | * | .0 | | 6.2 | 7.4 | 2.2 | 4.4 | 4.8 | 6.5 | 6.1 | 12.9 | 9.8 | 4.8 |
| SE | 1.1 | 3.2 | 1.2 | .2 | * | .0 | | 5.8 | 8.2 | 3.4 | 5.1 | 5.4 | 5.2 | 6.1 | 8.8 | 6.5 | 6.2 |
| S | 1.2 | 3.2 | 1.6 | .4 | * | .0 | | 6.3 | 9.2 | 6.6 | 5.8 | 5.8 | 5.0 | 5.4 | 5.6 | 6.2 | 9.2 |
| SW | 1.1 | 3.6 | 1.5 | .2 | * | .0 | | 6.5 | 8.2 | 7.8 | 6.7 | 6.0 | 5.1 | 5.2 | 4.8 | 6.0 | 8.6 |
| W | 1.7 | 8.9 | 5.1 | .8 | * | .0 | | 16.6 | 9.8 | 22.8 | 18.7 | 15.6 | 17.2 | 13.7 | 11.3 | 13.1 | 18.7 |
| NW | 2.5 | 14.6 | 11.2 | 1.9 | .1 | * | | 30.1 | 10.8 | 37.8 | 32.7 | 34.5 | 31.1 | 30.6 | 20.6 | 23.7 | 28.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.4 | | | | | | | 5.4 | .0 | 2.9 | 4.7 | 5.3 | 8.2 | 6.8 | 7.7 | 5.6 | 4.4 |
| TOT OBS | 2660 | 7471 | 4202 | 596 | 39 | 1 | 14969 | | 8.9 | 2756 | 1365 | 1884 | 918 | 2001 | 1725 | 2265 | 2055 |
| TOT PCT | 17.8 | 49.9 | 28.1 | 4.0 | .3 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.4 | 9.0 | 1.1 | .1 | * | | 15.6 | 9.0 | 14.2 | 16.4 | 16.3 | 16.0 |
| NE | 3.5 | 3.5 | .4 | * | .0 | | 7.4 | 7.8 | 4.1 | 5.9 | 10.9 | 8.6 |
| E | 3.2 | 2.6 | .3 | * | * | | 6.2 | 7.4 | 2.9 | 5.4 | 9.2 | 7.4 |
| SE | 2.7 | 2.5 | .5 | .1 | * | | 5.8 | 8.2 | 4.0 | 5.4 | 7.4 | 6.4 |
| S | 2.8 | 2.6 | .7 | .1 | * | | 6.3 | 9.2 | 6.3 | 5.5 | 5.5 | 7.6 |
| SW | 2.9 | 3.0 | .5 | * | .0 | | 6.5 | 8.2 | 7.5 | 5.7 | 5.0 | 7.2 |
| W | 5.5 | 9.1 | 1.8 | .3 | .0 | | 16.6 | 9.8 | 21.5 | 16.1 | 12.6 | 15.8 |
| NW | 7.9 | 17.4 | 4.3 | .5 | * | | 30.1 | 10.8 | 36.1 | 33.4 | 26.0 | 26.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.4 | | | | | | 5.4 | .0 | 3.5 | 6.2 | 7.2 | 5.0 |
| TOT OBS | 5902 | 7452 | 1442 | 170 | 3 | 14969 | | 8.9 | 4121 | 2802 | 3726 | 4320 |
| TOT PCT | 39.4 | 49.8 | 9.6 | 1.1 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.5 | 10.4 | 49.4 | 32.0 | 4.3 | .3 | * | 9.5 | 100.0 | 4121 |
| 06&09 | 6.2 | 9.5 | 48.8 | 30.7 | 4.6 | .2 | .0 | 9.4 | 100.0 | 2802 |
| 12&15 | 7.2 | 16.0 | 49.3 | 23.2 | 4.0 | .2 | .0 | 8.2 | 100.0 | 3726 |
| 18&21 | 5.0 | 13.1 | 51.6 | 26.8 | 3.2 | .3 | .0 | 8.7 | 100.0 | 4320 |
| TOT | 802 | 1858 | 7471 | 4202 | 596 | 39 | 1 | 8.9 | | 14969 |
| PCT | 5.4 | 12.4 | 49.9 | 28.1 | 4.0 | .3 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.9 | 1.7 | 3.1 | 2.4 | | 2.9 |
| NE | 4.4 | .8 | 1.4 | 1.0 | | 2.8 |
| E | 3.0 | .7 | 1.1 | 1.3 | | 3.5 |
| SE | 1.4 | .4 | 1.3 | 2.3 | | 5.3 |
| S | 1.1 | .6 | 1.6 | 2.7 | | 5.7 |
| SW | 1.5 | .7 | 1.6 | 2.3 | | 5.2 |
| W | 5.9 | 2.2 | 4.5 | 3.5 | | 4.2 |
| NW | 14.7 | 3.9 | 6.7 | 4.9 | | 3.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.5 | .5 | .9 | 1.4 | | 3.7 |
| TOT OBS | 4378 | 1143 | 2207 | 2171 | 9899 | 3.8 |
| TOT PCT | 44.2 | 11.5 | 22.3 | 21.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | * | .1 | .3 | 1.0 | .7 | .1 | .1 | .1 | .4 | 13.9 | |
| NE | .2 | * | * | .1 | .4 | .3 | .1 | * | * | .2 | 6.2 | |
| E | .1 | * | * | .1 | .5 | .5 | .1 | .1 | .1 | .1 | 4.5 | |
| SE | .2 | * | .1 | .3 | 1.0 | .7 | .1 | * | .1 | .2 | 2.6 | |
| S | .3 | * | .1 | .4 | 1.2 | .9 | .1 | .1 | .1 | .1 | 2.8 | |
| SW | .3 | * | .1 | .3 | 1.1 | .7 | .2 | .1 | * | .1 | 3.1 | |
| W | .4 | .1 | .3 | .6 | 2.2 | 1.4 | .3 | .1 | .1 | .2 | 10.4 | |
| NW | .6 | * | .3 | .9 | 2.6 | 1.9 | .4 | .1 | .2 | .3 | 22.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .6 | * | * | .1 | .3 | .3 | .1 | * | .1 | .1 | 3.6 | |
| TOT OBS | 310 | 19 | 112 | 315 | 1031 | 735 | 147 | 62 | 83 | 177 | 6908 | 9899 |
| TOT PCT | 3.1 | .2 | 1.1 | 3.2 | 10.4 | 7.4 | 1.5 | .6 | .8 | 1.8 | 69.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.3 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| * OR >5000 | 1.7 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| * OR >3500 | 2.6 | 4.5 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| * OR >2000 | 6.6 | 11.6 | 12.1 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| * OR >1000 | 11.4 | 21.2 | 22.4 | 22.5 | 22.6 | 22.6 | 22.6 | 22.6 |
| * OR >600 | 12.6 | 23.8 | 25.4 | 25.6 | 25.7 | 25.7 | 25.7 | 25.8 |
| * OR >300 | 12.8 | 24.4 | 26.3 | 26.6 | 26.8 | 26.9 | 26.9 | 26.9 |
| * OR >150 | 12.8 | 24.5 | 26.4 | 26.7 | 26.9 | 27.0 | 27.1 | 27.1 |
| * OR > 0 | 12.9 | 24.7 | 26.8 | 27.5 | 28.0 | 28.5 | 29.3 | 30.2 |
| TOTAL | 1284 | 2462 | 2673 | 2744 | 2795 | 2841 | 2910 | 3011 |

TOTAL NUMBER OF OBS: 9970

PCT FREQ NH <5/8: 69.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 38.8 | 8.0 | 12.8 | 6.1 | 3.8 | 4.7 | 3.8 | 4.1 | 12.6 | 2.3 | 10284 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | .0 | * | * | .0 | * | * | .1 | .0 | .0 | .1 | |
| | NO PCP | .5 | .1 | .1 | .1 | .1 | .2 | .3 | .5 | .0 | .5 | 2.4 | |
| | TOT % | .5 | .1 | .1 | .1 | .1 | .2 | .3 | .6 | .0 | .5 | 2.5 | |
| 1/2<1 | PCP | .0 | .0 | * | .0 | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | .1 | .1 | .1 | * | .1 | .2 | .0 | .1 | .8 | |
| | TOT % | .1 | * | .1 | .1 | .1 | .1 | .1 | .2 | .0 | .1 | 1.0 | |
| 1<2 | PCP | * | * | * | .1 | .1 | .1 | .1 | * | .0 | * | .6 | |
| | NO PCP | .1 | .1 | .1 | .2 | .1 | .1 | .2 | .4 | .0 | .2 | 1.6 | |
| | TOT % | .2 | .1 | .1 | .2 | .2 | .2 | .3 | .4 | .0 | .2 | 2.2 | |
| 2<5 | PCP | .1 | * | .1 | .1 | .2 | .1 | .2 | .1 | .0 | * | .9 | |
| | NO PCP | .7 | .4 | .3 | .3 | .3 | .3 | .6 | 1.0 | .0 | .4 | 4.4 | |
| | TOT % | .7 | .4 | .3 | .4 | .5 | .4 | .8 | 1.1 | .0 | .4 | 5.3 | |
| 5<10 | PCP | .1 | .1 | .1 | .3 | .3 | .2 | .2 | .2 | .0 | * | 1.5 | |
| | NO PCP | 3.1 | 2.4 | 2.2 | 2.0 | 2.1 | 1.9 | 5.0 | 9.1 | .0 | 1.7 | 31.4 | |
| | TOT % | 3.2 | 2.4 | 2.3 | 2.2 | 2.4 | 2.1 | 5.1 | 9.3 | .0 | 1.7 | 32.9 | |
| 10+ | PCP | .1 | * | * | .1 | .1 | .1 | .1 | .1 | .0 | * | .7 | |
| | NO PCP | 9.0 | 4.3 | 3.2 | 2.7 | 2.9 | 3.5 | 9.8 | 18.3 | .0 | 2.2 | 55.9 | |
| | TOT % | 9.0 | 4.3 | 3.3 | 2.8 | 3.1 | 3.6 | 9.9 | 18.4 | .0 | 2.2 | 56.6 | |
| | TOT OBS | | | | | | | | | | | | 14523 |
| | TOT PCT | 15.7 | 7.5 | 6.3 | 5.8 | 6.4 | 6.5 | 16.6 | 30.1 | .0 | 5.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | * | * | * | * | * | .1 | .0 | .5 | .9 | |
| | 4-10 | .3 | .1 | .1 | .1 | .1 | .1 | .2 | .4 | .0 | | 1.4 | |
| | 11-21 | .1 | * | * | * | * | * | .1 | .1 | .0 | | .2 | |
| | 22+ | * | .0 | .0 | * | * | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .5 | .1 | .1 | .1 | .1 | .2 | .3 | .6 | .0 | .5 | 2.5 | |
| 1/2<1 | 0-3 | * | * | .1 | * | * | * | * | * | .0 | .1 | .3 | |
| | 4-10 | .1 | * | * | * | * | * | .1 | .1 | .0 | | .4 | |
| | 11-21 | * | * | * | * | * | * | .1 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | * | * | * | * | .0 | | * | |
| | TOT % | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .0 | .1 | 1.0 | |
| 1<2 | 0-3 | .1 | * | .1 | .1 | .1 | * | .1 | .1 | .0 | .2 | .7 | |
| | 4-10 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | | .9 | |
| | 11-21 | * | * | * | * | .1 | * | .1 | .1 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | * | * | * | .0 | .0 | .0 | | .1 | |
| | TOT % | .2 | .1 | .1 | .2 | .2 | .2 | .3 | .5 | .0 | .2 | 2.1 | |
| 2<5 | 0-3 | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .0 | .4 | 1.3 | |
| | 4-10 | .4 | .2 | .2 | .2 | .2 | .2 | .4 | .5 | .0 | | 2.3 | |
| | 11-21 | .1 | .1 | * | .1 | .1 | .1 | .2 | .4 | .0 | | 1.3 | |
| | 22+ | * | * | * | * | .1 | * | * | * | .0 | | .2 | |
| | TOT % | .7 | .4 | .3 | .4 | .5 | .4 | .8 | 1.1 | .0 | .4 | 5.0 | |
| 5<10 | 0-3 | .7 | .6 | .6 | .4 | .4 | .3 | .5 | .9 | .0 | 1.7 | 6.1 | |
| | 4-10 | 2.9 | 1.4 | 1.4 | 1.2 | 1.2 | 1.1 | 2.8 | 4.6 | .0 | | 16.6 | |
| | 11-21 | 1.5 | .4 | .3 | .4 | .6 | .6 | 1.5 | 3.3 | .0 | | 8.6 | |
| | 22+ | .1 | * | .1 | .1 | .2 | .1 | .3 | .4 | .0 | | 1.2 | |
| | TOT % | 5.1 | 2.4 | 2.3 | 2.2 | 2.4 | 2.0 | 5.1 | 9.2 | .0 | 1.7 | 32.5 | |
| 10+ | 0-3 | .9 | .6 | .6 | .5 | .6 | .6 | .9 | 1.2 | .0 | 2.3 | 8.2 | |
| | 4-10 | 4.8 | 2.5 | 1.9 | 1.6 | 1.6 | 2.1 | 5.3 | 8.5 | .0 | | 28.3 | |
| | 11-21 | 3.0 | 1.1 | .8 | .6 | .8 | .8 | 3.2 | 7.3 | .0 | | 17.5 | |
| | 22+ | .3 | .1 | .1 | .1 | .1 | .1 | .6 | 1.5 | .0 | | 2.8 | |
| | TOT % | 9.0 | 4.3 | 3.3 | 2.8 | 3.0 | 3.6 | 9.9 | 18.5 | .0 | 2.3 | 56.9 | |
| | TOT OBS | | | | | | | | | | | | 14826 |
| | TOT PCT | 15.6 | 7.5 | 6.3 | 5.8 | 6.4 | 6.5 | 16.6 | 30.1 | .0 | 5.3 | 100.0 | |

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 2999 | 3000 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.5 | .2 | 1.4 | 2.7 | 9.5 | 7.4 | 1.5 | .7 | .6 | 2.0 | 28.6 | 71.4 | 2964 |
| 06&09 | 3.0 | .1 | 1.0 | 3.3 | 9.2 | 6.9 | 1.1 | .5 | .9 | 1.4 | 27.2 | 72.8 | 2350 |
| 12&15 | 3.6 | .2 | 1.0 | 3.3 | 12.1 | 7.6 | 1.5 | .9 | .7 | 1.3 | 32.3 | 67.7 | 2419 |
| 18&21 | 3.2 | .2 | 1.1 | 3.2 | 10.2 | 7.4 | 1.7 | .4 | .8 | 2.3 | 30.5 | 69.5 | 2826 |
| TOT | 312 | 19 | 112 | 316 | 1041 | 743 | 148 | 62 | 83 | 179 | 3015 | 7146 | 10161 |
| PCT | 3.1 | .2 | 1.1 | 3.1 | 10.2 | 7.3 | 1.5 | .6 | .8 | 1.8 | 29.7 | 70.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | .8 | 2.1 | 5.5 | 32.7 | 57.2 | 4118 |
| 06&09 | 3.3 | .9 | 1.1 | 2.7 | 35.0 | 57.1 | 2801 |
| 12&15 | 3.0 | 1.3 | 2.9 | 5.0 | 33.5 | 54.3 | 3734 |
| 18&21 | 2.5 | 1.0 | 2.2 | 6.3 | 29.5 | 58.5 | 4325 |
| TOT | 382 | 145 | 322 | 761 | 4856 | 8512 | 14978 |
| PCT | 2.6 | 1.0 | 2.1 | 5.1 | 32.4 | 56.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 AND 9+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.5 | 4.8 | 11.2 | 21.2 | 67.5 | 2916 |
| 06&09 | 3.1 | 5.0 | 10.3 | 18.9 | 70.8 | 2330 |
| 12&15 | 3.8 | 5.7 | 11.9 | 23.2 | 64.9 | 2370 |
| 18&21 | 3.4 | 5.6 | 14.1 | 21.3 | 64.6 | 2745 |
| TOT | 319 | 523 | 1193 | 2112 | 6665 | 9970 |
| PCT | 3.2 | 5.2 | 12.0 | 21.2 | 66.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | .0 | .0 | .0 | * | .0 | .0 | 3 | * |
| 75/79 | .1 | .1 | * | * | * | * | * | * | 30 | .3 |
| 70/74 | .2 | .1 | .2 | .2 | .1 | .1 | * | * | 113 | 1.0 |
| 65/69 | .2 | .2 | .5 | .7 | 1.0 | .9 | .4 | .1 | 480 | 4.1 |
| 60/64 | .1 | .5 | 1.2 | 2.1 | 4.3 | 6.8 | 6.2 | 2.1 | 2756 | 23.6 |
| 55/59 | .1 | .4 | 1.3 | 2.9 | 6.8 | 14.0 | 15.8 | 8.6 | 5829 | 49.8 |
| 50/54 | .1 | .2 | .6 | 1.8 | 3.8 | 2.9 | 5.0 | 3.8 | 2146 | 18.4 |
| 45/49 | .0 | .1 | .1 | .3 | .5 | .5 | .6 | .5 | 299 | 2.6 |
| 40/44 | .0 | .0 | * | .1 | .1 | .1 | .1 | .1 | 37 | .3 |
| 35/39 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | * |
| TOTAL | 101 | 193 | 473 | 957 | 1960 | 2953 | 3291 | 1766 | 11694 | 100.0 |
| PCT | .9 | 1.7 | 4.0 | 8.2 | 16.8 | 25.3 | 28.1 | 15.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | * | .0 | .0 | * | * | .0 | .0 |
| * | * | * | * | .0 | * | * | .1 | .0 | * |
| .2 | .1 | * | * | * | * | .2 | .4 | .0 | .1 |
| .6 | .3 | .2 | .2 | .2 | .3 | .7 | 1.3 | .0 | .2 |
| 4.0 | 1.8 | 1.2 | 1.1 | 1.9 | 1.6 | 3.6 | 7.3 | .0 | 1.0 |
| 7.7 | 3.3 | 2.6 | 3.0 | 3.1 | 3.3 | 8.8 | 15.7 | .0 | 2.3 |
| 2.6 | 1.4 | 1.6 | 1.1 | .9 | 1.3 | 3.0 | 5.6 | .0 | .9 |
| .3 | .5 | .5 | .3 | .1 | .2 | .2 | .3 | .0 | .2 |
| * | .1 | .1 | .1 | * | .0 | * | * | .0 | * |
| .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 15.4 | 7.5 | 6.2 | 5.8 | 6.3 | 6.7 | 16.5 | 30.7 | .0 | 4.8 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 84 | 71 | 66 | 58 | 52 | 48 | 43 | 58.6 | 4136 |
| 06&09 | 78 | 66 | 63 | 57 | 51 | 48 | 43 | 57.0 | 2808 |
| 12&15 | 70 | 64 | 62 | 56 | 48 | 44 | 38 | 55.7 | 3760 |
| 18&21 | 80 | 71 | 66 | 58 | 52 | 48 | 39 | 58.8 | 4314 |
| TOT | 84 | 70 | 65 | 58 | 51 | 46 | 38 | 57.6 | 15018 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 15.5 | 16.9 | 26.4 | 26.8 | 13.3 | 74 | 3384 |
| 06&09 | .2 | 9.3 | 14.6 | 24.2 | 32.1 | 19.5 | 78 | 2050 |
| 12&15 | .2 | 8.9 | 15.3 | 24.6 | 31.8 | 19.1 | 78 | 2939 |
| 18&21 | 1.5 | 19.2 | 19.1 | 25.3 | 24.0 | 10.9 | 72 | 3460 |
| TOT | 101 | 1642 | 1979 | 2983 | 3323 | 1785 | 75 | 11813 |

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | 2 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | 8 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | 9 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | * | .1 | .2 | .0 | .0 | 45 | * | .3 |
| 11/13 | .0 | .0 | .0 | .0 | * | .0 | * | .3 | .4 | .1 | .0 | .0 | 113 | * | .8 |
| 9/10 | .0 | .0 | .0 | .0 | * | .1 | .2 | .4 | .4 | * | .0 | .0 | 147 | .1 | 1.0 |
| 7/8 | .0 | .0 | .0 | .0 | * | .2 | .7 | 1.1 | .1 | * | .0 | .0 | 292 | * | 2.1 |
| 6 | .0 | .0 | .0 | .0 | .1 | .2 | .7 | .4 | * | .0 | .0 | .0 | 196 | * | 1.4 |
| 5 | .0 | .0 | * | .0 | .2 | .4 | 1.3 | .3 | * | .0 | .0 | .0 | 331 | .1 | 2.4 |
| 4 | .0 | .0 | .0 | * | .4 | 1.0 | 1.7 | .2 | * | .0 | .0 | .0 | 453 | .1 | 3.2 |
| 3 | .0 | .0 | .0 | * | .3 | 2.0 | 2.1 | .2 | .0 | .0 | .0 | .0 | 634 | .2 | 4.5 |
| 2 | .0 | .0 | .0 | * | .7 | 3.0 | 2.2 | .2 | .0 | .0 | .0 | .0 | 920 | .3 | 6.5 |
| 1 | .0 | .0 | .0 | .1 | 1.0 | 5.1 | 2.2 | .1 | .0 | .0 | .0 | .0 | 1140 | .5 | 7.9 |
| 0 | .0 | .0 | * | .2 | 2.3 | 6.6 | 1.7 | * | .0 | .0 | .0 | .0 | 1469 | .5 | 10.4 |
| -1 | .0 | .0 | .0 | .2 | 3.2 | 6.3 | 1.4 | * | .0 | .0 | .0 | .0 | 1495 | .7 | 10.4 |
| -2 | .0 | .0 | .0 | .4 | 4.9 | 5.9 | .7 | * | .0 | .0 | .0 | .0 | 1605 | .7 | 11.2 |
| -3 | .0 | .0 | .0 | .4 | 4.9 | 4.5 | .3 | * | .0 | .0 | .0 | .0 | 1366 | .9 | 9.2 |
| -4 | .0 | .0 | .1 | 1.4 | 4.2 | 2.1 | .1 | * | * | .0 | .0 | .0 | 1061 | .8 | 7.1 |
| -5 | .0 | * | * | 1.1 | 3.1 | 1.5 | .1 | * | .0 | .0 | .0 | .0 | 782 | .4 | 5.4 |
| -6 | .0 | .0 | .1 | 1.3 | 1.9 | .5 | * | .0 | .0 | .0 | .0 | .0 | 519 | .4 | 3.5 |
| -7/-8 | .0 | * | .4 | 1.4 | 1.5 | .3 | * | .0 | .0 | .0 | .0 | .0 | 505 | .3 | 3.4 |
| -9/-10 | * | .1 | .5 | .7 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 232 | .1 | 1.6 |
| -11/-13 | * | .1 | .4 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | 122 | * | .9 |
| -14/-16 | .0 | .1 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 30 | .0 | .2 |
| -17/-19 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | .0 | .1 |
| -20/-22 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 3 | 35 | 211 | 1010 | 3945 | 5497 | 2096 | 488 | 141 | 46 | 12 | 1 | 13485 | 830 | 12655 |
| PCT | * | .3 | 1.6 | 7.5 | 29.3 | 40.8 | 15.5 | 3.6 | 1.0 | .3 | .1 | * | 100.0 | 6.2 | 93.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .7 | 2.6 | .1 | .0 | .0 | .0 | 3.3 |
| 1-2 | .6 | 5.0 | 2.7 | .0 | .0 | .0 | 8.2 |
| 3-4 | .1 | 1.5 | 1.3 | .2 | .0 | .0 | 3.0 |
| 5-6 | .0 | .1 | .6 | .1 | .0 | .0 | .8 |
| 7 | * | * | .2 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.4 | 9.2 | 5.0 | .4 | .0 | .0 | 16.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 2.0 | * | .0 | .0 | .0 | 2.5 |
| 1-2 | .4 | 2.3 | 1.0 | .0 | .0 | .0 | 3.7 |
| 3-4 | .0 | .4 | .3 | * | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | * | * | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 4.7 | 1.6 | .1 | * | .0 | 7.3 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.6 | .1 | .0 | .0 | .0 | 2.0 |
| 1-2 | .3 | 1.9 | .4 | .0 | .0 | .0 | 2.6 |
| 3-4 | .1 | .4 | .4 | * | .0 | .0 | .8 |
| 5-6 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 3.9 | 1.0 | * | .0 | .0 | 5.5 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.0 | * | .0 | .0 | .0 | 1.4 |
| 1-2 | .1 | 1.6 | .6 | .0 | .0 | .0 | 2.3 |
| 3-4 | * | .3 | .3 | .1 | .0 | .0 | .8 |
| 5-6 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | * | .0 | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.9 | 1.0 | .1 | .0 | .0 | 4.6 |

PERIOD: (OVER-ALL) 1963-1974 JANUARY AREA 0032 SAN DIEGO 32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.2 | .0 | .0 | .0 | .0 | 1.5 |
| 1-2 | .5 | 1.8 | .7 | .0 | .0 | .0 | 3.0 |
| 3-4 | .0 | .3 | .4 | .3 | .0 | .0 | 1.0 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | * | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | * | .0 | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 3.3 | 1.4 | .3 | * | .0 | 5.8 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.3 | * | .0 | .0 | .0 | 1.8 |
| 1-2 | .3 | 1.7 | .6 | .0 | .0 | .0 | 2.7 |
| 3-4 | .1 | .4 | .3 | .1 | .0 | .0 | .9 |
| 5-6 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 7 | .0 | * | .0 | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 3.3 | 1.1 | .2 | .0 | .0 | 5.7 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 2.2 | .1 | .0 | .0 | .0 | 2.9 |
| 1-2 | .7 | 5.3 | 2.5 | .0 | .0 | .0 | 8.4 |
| 3-4 | .1 | 1.6 | 2.0 | .5 | .0 | .0 | 4.2 |
| 5-6 | .0 | .2 | .3 | .2 | .0 | .0 | .7 |
| 7 | .0 | .1 | .1 | * | * | .0 | .3 |
| 8-9 | .0 | * | * | * | * | .0 | .1 |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.5 | 9.4 | 5.0 | .7 | .1 | .0 | 16.7 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .7 | 3.8 | .3 | .0 | .0 | .0 | 4.9 | |
| 1-2 | .8 | 10.2 | 5.6 | .0 | .0 | .0 | 16.6 | |
| 3-4 | .1 | 2.7 | 4.2 | 1.0 | .0 | .0 | 8.0 | |
| 5-6 | * | .4 | 1.3 | .3 | * | .0 | 2.0 | |
| 7 | * | * | .7 | .3 | .1 | .0 | 1.1 | |
| 8-9 | .0 | * | .2 | .2 | .0 | .0 | .5 | |
| 10-11 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 12 | .0 | * | .1 | * | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.7 | 17.2 | 12.6 | 1.9 | .1 | .0 | 33.5 | 95.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 8.8 | 15.7 | .8 | .0 | .0 | .0 | 25.3 | |
| 1-2 | 4.0 | 29.6 | 14.1 | .0 | .0 | .0 | 47.8 | |
| 3-4 | .6 | 7.6 | 9.2 | 2.1 | .0 | .0 | 19.6 | |
| 5-6 | * | .8 | 2.6 | .8 | * | .0 | 4.3 | |
| 7 | * | .2 | 1.2 | .4 | .1 | .0 | 1.9 | |
| 8-9 | .0 | .1 | .4 | .3 | .1 | .0 | .8 | |
| 10-11 | .0 | * | .1 | .2 | .0 | .0 | .4 | |
| 12 | .0 | * | .1 | * | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 13.4 | 54.1 | 28.5 | 3.8 | .2 | .0 | 100.0 | 3405 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.9 | 22.7 | 18.7 | 4.2 | 1.6 | .3 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4062 | 3 |
| 6-7 | .1 | 4.0 | 6.8 | 3.2 | 2.1 | 1.0 | .2 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1389 | 4 |
| 8-9 | .1 | 1.9 | 2.3 | 1.7 | 1.2 | .3 | .3 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 686 | 5 |
| 10-11 | .0 | .8 | .8 | .5 | .5 | .3 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 258 | 5 |
| 12-13 | .0 | .0 | .5 | .2 | .1 | .2 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 93 | 5 |
| >13 | .0 | .0 | .0 | * | .1 | .1 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 23 | 9 |
| INDET | 14.2 | 2.7 | .7 | .3 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1432 | 1 |
| TOTAL | 1441 | 2561 | 2360 | 806 | 492 | 171 | 68 | 20 | 19 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7893 | 3 |
| PCT | 18.3 | 32.2 | 29.9 | 10.2 | 5.7 | 2.2 | .9 | .3 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.9N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .7 | .3 | .2 | .0 | .0 | .0 | .0 | 1.2 | .4 | .1 | 6.1 | .2 | 7.6 | | .1 | 84.3 |
| NE | .8 | .4 | .3 | .0 | .0 | .0 | .0 | 1.8 | .3 | .1 | 5.2 | .1 | 7.9 | | .1 | 84.6 |
| E | 1.9 | .8 | .9 | .0 | .0 | .0 | .0 | 3.6 | .5 | .0 | 8.0 | .6 | 8.6 | | .0 | 78.6 |
| SE | 7.1 | 1.3 | 3.6 | .0 | .0 | .0 | .0 | 11.3 | 2.9 | .0 | 6.8 | .3 | 6.7 | | * | 72.0 |
| S | 9.7 | 1.9 | 3.8 | .0 | .0 | .0 | .0 | 15.0 | 2.0 | .0 | 6.8 | .2 | 6.8 | | .1 | 69.1 |
| SW | 4.4 | 1.6 | 2.9 | .0 | .0 | .0 | .0 | 8.8 | 1.5 | .0 | 8.3 | .0 | 6.1 | | .0 | 75.3 |
| W | 1.1 | .7 | 1.2 | .0 | .0 | .0 | * | 3.0 | 1.6 | .1 | 6.1 | .3 | 6.2 | | .0 | 82.7 |
| NW | .6 | .2 | .8 | .0 | .0 | .0 | * | 1.7 | .8 | * | 5.3 | .2 | 5.7 | | .0 | 86.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .8 | .2 | .4 | .0 | .0 | .0 | .0 | 1.4 | .8 | .2 | 11.5 | .2 | 10.2 | | .0 | 75.8 |
| TOT PCT | 2.0 | .6 | 1.2 | .0 | .0 | .0 | * | 3.8 | 1.1 | .1 | 6.3 | .2 | 6.7 | | * | 81.8 |
| TOT OBS: | 12222 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 2.2 | .5 | 1.0 | .0 | .0 | .0 | * | 3.6 | 1.0 | .1 | 4.8 | .2 | 6.4 | | * | 84.0 |
| 06&09 | 1.6 | .5 | 1.9 | .0 | .0 | .0 | .0 | 4.0 | 1.1 | .2 | 6.3 | .2 | 3.9 | | * | 84.3 |
| 12&15 | 2.4 | .8 | 1.3 | .0 | .0 | .0 | .0 | 4.4 | 1.2 | * | 7.0 | .4 | 5.4 | | .0 | 81.5 |
| 18&21 | 1.7 | .7 | 1.0 | .0 | .0 | .0 | .0 | 3.3 | 1.1 | * | 7.3 | .1 | 9.9 | | * | 78.3 |
| TOT PCT | 2.0 | .6 | 1.2 | .0 | .0 | .0 | * | 3.8 | 1.1 | .1 | 6.3 | .2 | 6.7 | | * | 81.8 |
| TOT OBS: | 12336 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.9 | 7.8 | 4.1 | .5 | * | .0 | | 14.4 | 9.2 | 10.2 | 14.9 | 14.9 | 14.2 | 17.7 | 16.5 | 16.7 | 11.2 |
| NE | 1.2 | 3.3 | 1.1 | * | * | .0 | | 5.7 | 7.4 | 2.4 | 4.3 | 5.0 | 6.0 | 7.0 | 9.6 | 7.8 | 4.6 |
| E | 1.1 | 2.9 | .7 | .1 | .0 | .0 | | 4.8 | 6.8 | 1.7 | 2.5 | 3.4 | 4.8 | 5.7 | 9.3 | 8.1 | 3.5 |
| SE | 1.2 | 2.6 | 1.1 | .2 | * | * | | 5.1 | 8.4 | 3.0 | 4.2 | 4.4 | 5.1 | 3.6 | 8.5 | 7.0 | 6.1 |
| S | 1.1 | 3.2 | 1.6 | .5 | * | * | | 6.4 | 9.8 | 6.0 | 7.0 | 4.3 | 5.1 | 4.9 | 7.8 | 6.1 | 9.9 |
| SW | 1.1 | 4.0 | 1.6 | .2 | * | .0 | | 6.8 | 8.4 | 8.1 | 6.7 | 5.9 | 6.6 | 5.0 | 5.5 | 6.5 | 9.5 |
| W | 1.7 | 9.5 | 6.4 | 1.1 | .1 | .0 | | 18.8 | 10.3 | 25.6 | 21.8 | 19.5 | 18.8 | 15.2 | 12.2 | 15.1 | 20.1 |
| NW | 2.1 | 15.0 | 13.6 | 2.4 | .2 | .0 | | 33.4 | 11.6 | 40.4 | 34.1 | 37.8 | 34.3 | 34.8 | 26.4 | 28.1 | 31.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.6 | | | | | | | 4.6 | .0 | 2.6 | 4.3 | 4.8 | 5.0 | 6.1 | 6.2 | 4.7 | 3.8 |
| TOT OBS | 2014 | 6105 | 3827 | 635 | 56 | 2 | 12639 | | 9.5 | 2278 | 1156 | 1634 | 803 | 1704 | 1447 | 1980 | 1657 |
| TOT PCT | 15.9 | 48.3 | 30.3 | 5.0 | .4 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.5 | 7.4 | 1.3 | .2 | * | | 14.4 | 9.2 | 11.8 | 14.7 | 17.1 | 14.2 |
| NE | 2.9 | 2.5 | .3 | * | .0 | | 5.7 | 7.4 | 3.0 | 5.3 | 8.2 | 6.3 |
| E | 2.7 | 2.1 | .1 | * | .0 | | 4.8 | 6.8 | 2.0 | 3.9 | 7.4 | 6.0 |
| SE | 2.5 | 2.1 | .5 | .1 | * | | 5.1 | 8.4 | 3.4 | 4.7 | 5.8 | 6.6 |
| S | 2.5 | 2.8 | .9 | .2 | * | | 6.4 | 9.8 | 6.3 | 4.6 | 6.2 | 7.8 |
| SW | 3.0 | 3.3 | .5 | * | .0 | | 6.8 | 8.4 | 7.7 | 6.1 | 5.2 | 7.9 |
| W | 5.4 | 10.7 | 2.3 | .3 | * | | 18.8 | 10.3 | 24.4 | 19.3 | 13.9 | 17.4 |
| NW | 7.9 | 19.0 | 5.6 | .9 | * | | 33.4 | 11.6 | 38.3 | 36.6 | 30.1 | 29.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.6 | | | | | | 4.6 | .0 | 3.2 | 4.8 | 6.1 | 4.3 |
| TOT OBS | 4667 | 6301 | 1458 | 207 | 6 | 12639 | | 9.5 | 3434 | 2437 | 3151 | 3617 |
| TOT PCT | 36.9 | 49.9 | 11.5 | 1.6 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.9N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.2 | 8.6 | 46.6 | 36.1 | 4.9 | .6 | * | 10.3 | 100.0 | 3434 |
| 06&09 | 4.8 | 8.7 | 45.9 | 33.6 | 6.4 | .6 | .0 | 10.2 | 100.0 | 2437 |
| 12&15 | 6.1 | 14.7 | 48.0 | 26.1 | 5.0 | .2 | * | 8.8 | 100.0 | 3131 |
| 18&21 | 4.3 | 12.9 | 51.9 | 26.2 | 4.3 | .4 | .0 | 8.9 | 100.0 | 3617 |
| TOT | 576 | 1438 | 6105 | 3827 | 635 | 56 | 2 | 9.5 | | 12639 |
| PCT | 4.6 | 11.4 | 48.3 | 30.3 | 5.0 | .4 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.6 | 1.2 | 2.9 | 2.4 | | 3.0 |
| NE | 3.4 | .6 | 1.2 | .8 | | 2.9 |
| E | 2.5 | .5 | 1.0 | 1.0 | | 3.4 |
| SE | 1.4 | .3 | 1.0 | 1.6 | | 4.9 |
| S | 1.0 | .4 | 1.4 | 2.5 | | 5.8 |
| SW | 1.6 | .7 | 1.9 | 2.2 | | 5.1 |
| W | 8.0 | 2.2 | 4.9 | 4.3 | | 4.0 |
| NW | 16.5 | 4.1 | 7.4 | 6.4 | | 3.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.0 | .3 | .9 | 1.0 | | 3.7 |
| TOT OBS | 3786 | 873 | 1912 | 1858 | 8429 | 3.8 |
| TOT PCT | 44.9 | 10.4 | 22.7 | 22.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .4 | * | .2 | .3 | 1.1 | .8 | .1 | .1 | * | .4 | 11.7 | |
| NE | .1 | * | * | * | .4 | .3 | * | * | .0 | .1 | 4.9 | |
| E | .1 | * | * | .1 | .3 | .4 | .1 | * | * | .2 | 3.7 | |
| SE | .1 | .0 | .1 | .3 | .5 | .5 | .1 | * | .1 | .1 | 2.5 | |
| S | .2 | * | .1 | .4 | 1.1 | .9 | .1 | * | * | .1 | 2.4 | |
| SW | .3 | * | .1 | .4 | 1.0 | .8 | .1 | .0 | .1 | .1 | 3.4 | |
| W | .5 | .1 | .3 | .9 | 2.2 | 2.0 | .3 | .1 | .1 | .3 | 12.7 | |
| NW | .7 | .1 | .5 | 1.2 | 3.5 | 2.3 | .4 | .1 | .1 | .6 | 24.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .1 | .2 | .3 | .2 | .1 | * | * | .1 | 3.0 | |
| TOT OBS | 222 | 20 | 129 | 328 | 876 | 694 | 105 | 31 | 37 | 160 | 5827 | 8429 |
| TOT PCT | 2.6 | .2 | 1.5 | 3.9 | 10.4 | 8.2 | 1.2 | .4 | .4 | 1.9 | 69.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .9 | 2.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| * OR >5000 | 1.1 | 2.5 | 2.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| * OR >3500 | 1.7 | 3.7 | 3.9 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 |
| * OR >2000 | 6.4 | 11.5 | 12.1 | 12.1 | 12.1 | 12.2 | 12.2 | 12.2 |
| * OR >1000 | 11.9 | 21.2 | 22.3 | 22.5 | 22.5 | 22.6 | 22.6 | 22.6 |
| * OR >600 | 13.2 | 24.3 | 26.0 | 26.3 | 26.4 | 26.5 | 26.5 | 26.5 |
| * OR >300 | 13.5 | 25.3 | 27.3 | 27.7 | 27.9 | 27.9 | 28.0 | 28.0 |
| * OR >150 | 13.6 | 25.3 | 27.5 | 27.9 | 28.1 | 28.1 | 28.2 | 28.2 |
| * OR > 0 | 13.6 | 25.5 | 27.8 | 28.6 | 29.2 | 29.5 | 30.3 | 30.9 |
| TOTAL | 1155 | 2169 | 2365 | 2426 | 2480 | 2505 | 2573 | 2621 |

TOTAL NUMBER OF OBS: 8494 PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 39.9 | 7.9 | 12.2 | 5.6 | 3.9 | 5.2 | 6.9 | 3.8 | 12.8 | 2.0 | 8745 |

FEBRUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.5N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | .0 | .0 | * | .1 | * | * | * | .0 | * | .2 | |
| | NO PCP | .3 | .1 | .1 | .1 | .1 | .1 | .4 | .5 | .0 | .2 | 1.9 | |
| | TOT % | .3 | .1 | .1 | .1 | .2 | .2 | .4 | .5 | .0 | .2 | 2.1 | |
| 1/2<1 | PCP | * | .0 | * | * | .1 | * | * | * | .0 | * | .2 | |
| | NO PCP | .1 | * | .1 | * | .1 | .1 | .1 | .3 | .0 | .1 | .9 | |
| | TOT % | .2 | * | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.1 | |
| 1<2 | PCP | * | .0 | * | .1 | .2 | * | .1 | * | .0 | .0 | .4 | |
| | NO PCP | .2 | .1 | .1 | .1 | .1 | .1 | .3 | .4 | .0 | .1 | 1.6 | |
| | TOT % | .2 | .1 | .1 | .2 | .3 | .2 | .3 | .4 | .0 | .1 | 2.0 | |
| 2<5 | PCP | * | * | * | .2 | .2 | .2 | .1 | .1 | .0 | * | .9 | |
| | NO PCP | .5 | .2 | .3 | .3 | .4 | .4 | .8 | 1.0 | .0 | .2 | 4.0 | |
| | TOT % | .5 | .2 | .3 | .5 | .6 | .6 | .8 | 1.0 | .0 | .2 | 4.8 | |
| 5<10 | PCP | .1 | .1 | .1 | .1 | .3 | .2 | .3 | .3 | .0 | * | 1.5 | |
| | NO PCP | 4.3 | 1.7 | 1.9 | 1.6 | 1.9 | 2.1 | 5.5 | 9.0 | .0 | 1.2 | 29.1 | |
| | TOT % | 4.4 | 1.8 | 2.0 | 1.7 | 2.2 | 2.3 | 5.7 | 9.3 | .0 | 1.2 | 30.6 | |
| 10+ | PCP | * | * | * | .1 | .1 | .1 | .1 | .1 | .0 | * | .6 | |
| | NO PCP | 8.7 | 3.4 | 2.4 | 2.5 | 2.8 | 3.6 | 11.4 | 21.7 | .0 | 2.4 | 58.8 | |
| | TOT % | 8.8 | 3.5 | 2.4 | 2.6 | 2.9 | 3.7 | 11.5 | 21.8 | .0 | 2.4 | 59.4 | |
| | TOT OBS | | | | | | | | | | | | 12216 |
| | TOT PCT | 14.3 | 5.7 | 4.9 | 5.2 | 6.4 | 6.9 | 19.0 | 33.3 | .0 | 4.2 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | * | * | * | * | * | * | .0 | .2 | .5 | |
| | 4-10 | .2 | .1 | .1 | * | .1 | .1 | .2 | .3 | .0 | | 1.2 | |
| | 11-21 | * | * | * | * | * | .1 | .1 | .1 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .3 | .1 | .1 | .1 | .2 | .2 | .4 | .5 | .0 | .2 | 2.1 | |
| 1/2<1 | 0-3 | * | * | * | * | .0 | * | * | * | .0 | .1 | .2 | |
| | 4-10 | .1 | * | * | * | .1 | * | .1 | .2 | .0 | | .6 | |
| | 11-21 | .0 | .0 | .0 | * | * | * | .1 | * | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | * | * | * | .0 | * | .0 | | .1 | |
| | TOT % | .2 | * | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.1 | |
| 1<2 | 0-3 | * | * | * | .1 | .1 | * | .1 | .1 | .0 | .1 | .5 | |
| | 4-10 | .1 | .1 | * | .1 | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | * | * | * | .1 | .1 | .1 | .1 | .1 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | * | * | .0 | * | * | .0 | | .1 | |
| | TOT % | .2 | .1 | .1 | .3 | .3 | .2 | .3 | .5 | .0 | .1 | 2.1 | |
| 2<5 | 0-3 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .3 | 1.2 | |
| | 4-10 | .3 | .2 | .2 | .2 | .3 | .3 | .5 | .6 | .0 | | 2.6 | |
| | 11-21 | .1 | * | * | .1 | .1 | .1 | .2 | .3 | .0 | | .9 | |
| | 22+ | * | .0 | * | * | .1 | .1 | * | * | .0 | | .3 | |
| | TOT % | .5 | .3 | .3 | .5 | .7 | .6 | .8 | 1.1 | .0 | .3 | 5.0 | |
| 5<10 | 0-3 | .6 | .5 | .5 | .3 | .4 | .4 | .5 | .7 | .0 | 1.3 | 5.2 | |
| | 4-10 | 2.4 | 1.0 | 1.2 | .9 | 1.0 | 1.3 | 2.7 | 4.1 | .0 | | 14.7 | |
| | 11-21 | 1.2 | .3 | .2 | .4 | .6 | .5 | 2.0 | 3.6 | .0 | | 8.8 | |
| | 22+ | .1 | * | * | .1 | .2 | .1 | .4 | .7 | .0 | | 1.5 | |
| | TOT % | 4.4 | 1.8 | 2.0 | 1.7 | 2.2 | 2.2 | 5.6 | 9.2 | .0 | 1.3 | 30.2 | |
| 10+ | 0-3 | 1.0 | .6 | .4 | .6 | .4 | .5 | .9 | 1.1 | .0 | 2.5 | 6.2 | |
| | 4-10 | 4.6 | 2.0 | 1.4 | 1.4 | 1.6 | 2.1 | 5.8 | 9.3 | .0 | | 28.2 | |
| | 11-21 | 2.8 | .8 | .5 | .5 | .7 | .8 | 4.0 | 9.5 | .0 | | 19.5 | |
| | 22+ | .5 | * | * | .1 | .1 | .1 | .8 | 1.9 | .0 | | 3.5 | |
| | TOT % | 8.8 | 3.5 | 2.4 | 2.5 | 2.9 | 3.6 | 11.4 | 21.8 | .0 | 2.5 | 59.5 | |
| | TOT OBS | | | | | | | | | | | | 12510 |
| | TOT PCT | 14.4 | 5.7 | 4.9 | 5.2 | 6.5 | 6.9 | 18.8 | 33.3 | .0 | 4.4 | 100.0 | |

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.5N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.5 | .2 | 1.0 | 3.8 | 10.4 | 6.9 | 1.3 | .5 | .6 | 2.3 | 29.6 | 70.4 | 2204 |
| 06&09 | 2.4 | .2 | 1.0 | 2.9 | 9.4 | 7.1 | 1.5 | .3 | .4 | 1.5 | 26.8 | 73.2 | 2047 |
| 12&15 | 3.0 | .1 | 1.8 | 4.5 | 10.2 | 10.1 | .9 | .3 | .3 | 1.6 | 33.0 | 67.0 | 2038 |
| 18&21 | 2.3 | .3 | 2.1 | 4.0 | 10.5 | 8.2 | 1.3 | .3 | .3 | 2.0 | 31.3 | 68.8 | 2400 |
| TOT | 223 | 20 | 130 | 331 | 883 | 699 | 107 | 32 | 37 | 160 | 2622 | 6067 | 8689 |
| PCT | 2.6 | .2 | 1.5 | 3.8 | 10.2 | 8.0 | 1.2 | .4 | .4 | 1.8 | 30.2 | 69.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.9 | 1.1 | 2.2 | 4.9 | 29.2 | 60.7 | 3423 |
| 06&09 | 2.0 | .9 | 1.0 | 3.6 | 31.4 | 61.1 | 2436 |
| 12&15 | 2.7 | 1.3 | 2.6 | 4.9 | 29.7 | 58.8 | 3147 |
| 18&21 | 1.8 | 1.2 | 2.3 | 6.3 | 30.3 | 57.9 | 3623 |
| TOT | 264 | 142 | 265 | 640 | 3803 | 7515 | 12629 |
| PCT | 2.1 | 1.1 | 2.1 | 5.1 | 30.1 | 59.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.6 | 4.3 | 11.7 | 21.0 | 67.3 | 2141 |
| 06&09 | 2.5 | 4.3 | 9.7 | 19.7 | 70.6 | 2016 |
| 12&15 | 3.2 | 5.5 | 13.2 | 22.7 | 64.1 | 2009 |
| 18&21 | 2.5 | 5.8 | 14.3 | 21.5 | 64.3 | 2328 |
| TOT | 230 | 423 | 1043 | 1803 | 5648 | 8494 |
| PCT | 2.7 | 5.0 | 12.3 | 21.2 | 66.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 75/79 | * | .1 | .1 | * | .0 | * | .0 | .0 | 14 | .1 |
| 70/74 | .1 | .1 | .1 | .1 | .1 | .1 | * | * | 70 | .7 |
| 65/69 | .1 | .2 | .5 | .7 | 1.0 | .8 | .4 | .3 | 380 | 3.9 |
| 60/64 | .1 | .3 | 1.3 | 2.3 | 4.7 | 7.1 | 7.0 | 2.4 | 2439 | 25.2 |
| 55/59 | * | .2 | .7 | 2.4 | 6.3 | 15.1 | 18.5 | 10.3 | 5172 | 53.5 |
| 50/54 | .0 | .1 | .3 | 1.3 | 3.0 | 2.8 | 4.8 | 3.1 | 1494 | 15.5 |
| 45/49 | .0 | * | * | .1 | .1 | .3 | .2 | .3 | 86 | .9 |
| 40/44 | .0 | .0 | .0 | .0 | .0 | * | * | * | 6 | .1 |
| 35/39 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | * |
| TOTAL | 27 | 86 | 297 | 665 | 1479 | 2529 | 2993 | 1587 | 9663 | 100.0 |
| PCT | .3 | .9 | 3.1 | 6.9 | 15.3 | 26.2 | 31.0 | 16.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| * | .0 | .0 | * | * | * | * | .1 | .0 | * |
| .1 | * | * | .1 | * | * | .1 | .2 | .0 | .1 |
| .6 | .3 | .2 | .2 | .3 | .4 | .7 | 1.2 | .0 | .2 |
| 3.7 | 1.7 | 1.2 | 1.4 | 2.0 | 2.1 | 4.3 | 7.8 | .0 | 1.0 |
| 7.5 | 2.7 | 2.2 | 2.6 | 3.5 | 3.9 | 10.3 | 18.7 | .0 | 2.1 |
| 2.5 | .9 | .9 | .8 | .6 | .7 | 3.0 | 5.4 | .0 | .7 |
| .2 | .2 | .2 | .1 | * | * | .1 | .1 | .0 | * |
| .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 14.5 | 5.8 | 4.8 | 5.2 | 6.5 | 7.1 | 18.5 | 33.4 | .0 | 4.1 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 70 | 65 | 59 | 53 | 51 | 46 | 58.8 | 3433 |
| 06&09 | 73 | 65 | 62 | 57 | 52 | 50 | 44 | 57.1 | 2457 |
| 12&15 | 72 | 65 | 61 | 56 | 50 | 47 | 39 | 56.2 | 3171 |
| 18&21 | 78 | 70 | 65 | 59 | 53 | 51 | 45 | 58.9 | 3633 |
| TOT | 81 | 68 | 64 | 58 | 52 | 49 | 39 | 57.9 | 12694 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .3 | 11.9 | 17.5 | 26.4 | 29.6 | 14.4 | 76 | 2733 |
| 06&09 | .1 | 6.9 | 14.5 | 24.9 | 33.3 | 20.3 | 79 | 1768 |
| 12&15 | .1 | 7.5 | 11.5 | 24.8 | 35.1 | 21.0 | 80 | 2432 |
| 18&21 | .6 | 15.3 | 18.7 | 27.6 | 27.4 | 12.3 | 74 | 2829 |
| TOT | 28 | 1062 | 1487 | 2546 | 3028 | 1611 | 77 | 9762 |

FEBRUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.5N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | 6 | * | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | * | * | .0 | 20 | .0 | .2 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | .1 | .1 | .1 | .1 | * | .0 | 44 | .0 | .4 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .2 | .2 | * | .0 | .0 | 71 | * | .6 |
| 9/10 | .0 | .0 | .0 | .0 | * | * | .2 | .5 | .2 | * | .0 | .0 | 110 | .1 | .9 |
| 7/8 | .0 | .0 | .0 | .0 | * | .1 | .7 | 1.0 | .1 | * | * | .0 | 233 | .1 | 2.0 |
| 6 | .0 | .0 | .0 | .0 | * | .2 | .8 | .3 | * | .0 | .0 | .0 | 163 | * | 1.4 |
| 5 | .0 | .0 | .0 | * | .1 | .5 | 1.5 | .5 | * | .0 | .0 | .0 | 306 | .1 | 2.6 |
| 4 | .0 | .0 | .0 | * | .2 | 1.1 | 1.9 | .2 | * | .0 | .0 | .0 | 392 | .2 | 3.2 |
| 3 | .0 | .0 | .0 | .0 | .3 | 2.0 | 2.1 | .2 | * | .0 | .0 | .0 | 512 | .2 | 4.3 |
| 2 | .0 | .0 | .0 | * | .5 | 3.9 | 2.3 | .1 | * | .0 | .0 | .0 | 777 | .4 | 6.4 |
| 1 | .0 | .0 | .0 | .0 | .8 | 5.4 | 2.2 | .1 | * | .0 | .0 | .0 | 979 | .6 | 7.9 |
| 0 | .0 | .0 | .0 | .1 | 2.5 | 8.1 | 1.6 | * | * | .0 | .0 | .0 | 1415 | .7 | 11.7 |
| -1 | .0 | .0 | .0 | .1 | 3.6 | 7.7 | 1.0 | * | .0 | .0 | .0 | .0 | 1414 | .8 | 11.6 |
| -2 | .0 | .0 | * | .3 | 5.4 | 6.5 | .5 | * | * | .0 | .0 | .0 | 1455 | .7 | 12.0 |
| -3 | .0 | .0 | * | .5 | 4.8 | 4.8 | .3 | * | .0 | .0 | .0 | .0 | 1201 | .6 | 9.8 |
| -4 | .0 | .0 | * | 1.1 | 5.0 | 1.8 | .1 | .0 | .0 | .0 | .0 | .0 | 918 | .7 | 7.3 |
| -5 | .0 | .0 | * | .7 | 3.3 | 1.3 | .1 | * | .0 | .0 | .0 | .0 | 613 | .5 | 4.8 |
| -6 | .0 | .0 | * | 1.0 | 1.8 | .4 | * | .0 | .0 | .0 | .0 | .0 | 369 | .3 | 2.9 |
| -7/-8 | .0 | .0 | .1 | .9 | 1.3 | .3 | .1 | * | .0 | .0 | .0 | .0 | 311 | .3 | 2.4 |
| -9/-10 | .0 | .0 | .1 | .6 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | 118 | .1 | .9 |
| -11/-13 | .0 | * | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 29 | * | .2 |
| -14/-16 | * | .0 | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | 8 | .0 | .1 |
| -17/-19 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 1 | 1 | 45 | 614 | 3440 | 5076 | 1769 | 398 | 93 | 23 | 5 | 1 | 11466 | 747 | 10719 |
| PCT | * | * | .4 | 5.4 | 30.0 | 44.3 | 15.4 | 3.5 | .8 | .2 | * | * | 100.0 | 6.5 | 93.5 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 2.2 | .1 | .0 | .0 | .0 | 3.0 |
| 1-2 | .6 | 5.3 | 2.1 | .0 | .0 | .0 | 7.9 |
| 3-4 | * | .8 | 1.4 | .2 | .0 | .0 | 2.3 |
| 5-6 | .0 | .1 | .4 | .2 | * | .0 | .8 |
| 7 | .0 | * | .2 | .2 | .0 | .0 | .5 |
| 8-9 | .0 | * | .1 | .1 | * | .0 | .3 |
| 10-11 | .0 | .0 | * | .2 | * | .0 | .2 |
| 12 | .0 | .0 | * | * | * | .0 | .1 |
| 13-16 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | * | * | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.2 | 8.4 | 4.4 | 1.0 | .1 | .0 | 15.1 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.2 | * | .0 | .0 | .0 | 1.9 |
| 1-2 | .3 | 2.7 | 1.0 | .0 | .0 | .0 | 4.0 |
| 3-4 | * | .1 | .5 | * | .0 | .0 | .7 |
| 5-6 | .0 | .1 | .2 | * | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 4.1 | 1.8 | * | .0 | .0 | 7.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .9 | * | .0 | .0 | .0 | 1.1 |
| 1-2 | .2 | 1.7 | .6 | .0 | .0 | .0 | 2.5 |
| 3-4 | * | * | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.6 | 1.0 | * | .0 | .0 | 4.1 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.0 | * | .0 | .0 | .0 | 1.3 |
| 1-2 | .4 | 1.2 | .5 | .0 | .0 | .0 | 2.1 |
| 3-4 | .0 | .1 | .3 | * | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.3 | 1.0 | * | .0 | .0 | 4.1 |

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.5N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 1.2 | .1 | .0 | .0 | .0 | 1.6 | .3 | 1.4 | * | .0 | .0 | .0 | 1.7 |
| 1-2 | .3 | 1.5 | .7 | .0 | .0 | .0 | 2.5 | .4 | 2.3 | .7 | .0 | .0 | .0 | 3.4 |
| 3-4 | .0 | .2 | .6 | .2 | .0 | .0 | 1.0 | .0 | .4 | .6 | * | .0 | .0 | 1.1 |
| 5-6 | .0 | .0 | .1 | .4 | .0 | .0 | .5 | * | .0 | .1 | .1 | .0 | .0 | .2 |
| 7 | .0 | * | .1 | .1 | .0 | .0 | .2 | .0 | * | .1 | * | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.9 | 1.5 | .8 | * | .0 | 5.9 | .7 | 4.2 | 1.6 | .2 | .0 | .0 | 6.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .6 | 2.2 | .1 | .0 | .0 | .0 | 2.9 | .5 | 3.1 | .2 | .0 | .0 | .0 | 3.8 | |
| 1-2 | .4 | 6.2 | 2.7 | .0 | .0 | .0 | 9.2 | .9 | 9.3 | 5.4 | .0 | .0 | .0 | 15.6 | |
| 3-4 | .1 | 1.7 | 2.5 | .4 | .0 | .0 | 4.6 | .1 | 2.3 | 4.9 | .4 | .0 | .0 | 7.8 | |
| 5-6 | .0 | .2 | .7 | .2 | .0 | .0 | 1.1 | .0 | .5 | 2.1 | .6 | * | .0 | 3.1 | |
| 7 | .0 | .1 | .2 | .3 | .0 | .0 | .6 | .0 | .1 | 1.1 | .5 | .0 | .0 | 1.7 | |
| 8-9 | .0 | .0 | .1 | * | .0 | .0 | .1 | .0 | * | .4 | .5 | .1 | .0 | 1.0 | |
| 10-11 | .0 | .0 | .1 | * | .0 | .0 | .1 | .0 | .0 | .2 | .3 | .1 | .0 | .6 | |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | * | .2 | * | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.1 | 10.3 | 6.4 | .9 | .0 | .0 | 18.7 | 1.5 | 15.3 | 14.3 | 2.6 | .3 | .0 | 34.0 | 95.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.6 | 13.2 | .6 | .0 | .0 | .0 | 21.3 | |
| 1-2 | 3.9 | 30.0 | 13.7 | .0 | .0 | .0 | 47.6 | |
| 3-4 | .2 | 5.7 | 10.9 | 1.3 | .0 | .0 | 18.2 | |
| 5-6 | .1 | .9 | 3.7 | 1.5 | * | .0 | 6.2 | |
| 7 | .0 | .3 | 1.9 | 1.2 | .0 | .0 | 3.4 | |
| 8-9 | .0 | * | .6 | .7 | .1 | .0 | 1.5 | |
| 10-11 | .0 | .0 | .4 | .5 | .1 | .0 | 1.0 | |
| 12 | .0 | .0 | .1 | .2 | .1 | .0 | .4 | |
| 13-16 | .0 | .0 | .1 | .1 | .1 | .0 | .3 | |
| 17-19 | .0 | * | * | .1 | * | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 11.8 | 50.2 | 31.9 | 5.7 | .5 | .0 | 100.0 | 2813 |

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.5 | 22.9 | 17.0 | 5.1 | 1.9 | .4 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3417 | 3 |
| 6-7 | * | 3.4 | 7.6 | 3.9 | 2.3 | 1.2 | .5 | .1 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1299 | 4 |
| 8-9 | * | 1.2 | 3.0 | 1.7 | 2.0 | .9 | .5 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 652 | 5 |
| 10-11 | .0 | .9 | 1.1 | .7 | .6 | .6 | .3 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 295 | 5 |
| 12-13 | .0 | .0 | .5 | .1 | .1 | .2 | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 76 | 6 |
| >13 | .0 | .0 | .0 | .1 | .1 | * | .1 | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 22 | 9 |
| INDET | 10.5 | 2.4 | .7 | .2 | .1 | .1 | * | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 939 | 1 |
| TOTAL | 940 | 2060 | 1999 | 790 | 470 | 220 | 114 | 41 | 49 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6700 | 3 |
| PCT | 14.0 | 30.7 | 29.8 | 11.8 | 7.0 | 3.3 | 1.7 | .6 | .7 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .3 | .2 | .3 | .0 | .0 | .0 | .0 | .7 | .2 | .1 | 4.6 | * | 6.3 | | .1 | 87.9 |
| NE | 1.8 | .2 | .0 | .0 | .0 | .0 | .0 | 2.0 | .1 | .2 | 6.7 | .1 | 7.1 | | .0 | 83.8 |
| E | .9 | .6 | .6 | .0 | .0 | .0 | .0 | 2.1 | 1.0 | .3 | 7.9 | .2 | 6.4 | | .0 | 82.0 |
| SE | 2.9 | .7 | 1.0 | .0 | .0 | .0 | .0 | 4.6 | 1.4 | .2 | 7.0 | .2 | 5.4 | | .0 | 81.3 |
| S | 6.7 | 2.3 | 1.0 | .0 | .0 | .0 | .0 | 9.9 | 1.2 | .0 | 6.3 | .2 | 5.4 | | .0 | 77.0 |
| SW | 2.3 | 1.1 | 1.0 | .0 | .0 | .0 | .0 | 4.0 | 1.0 | .2 | 4.4 | * | 6.8 | | .0 | 83.6 |
| W | .6 | .6 | .5 | .0 | .0 | .0 | .0 | 1.6 | .7 | * | 3.1 | .1 | 4.2 | | * | 90.3 |
| NW | .3 | .3 | .2 | .0 | .0 | .0 | .0 | .7 | .3 | * | 2.8 | .1 | 4.1 | | * | 92.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .2 | .2 | .2 | .0 | .0 | .0 | .0 | .7 | .0 | .2 | 11.9 | .5 | 11.7 | | .0 | 75.0 |
| TOT PCT | 1.1 | .5 | .4 | .0 | .0 | .0 | .0 | 2.0 | .6 | .1 | 4.2 | .1 | 5.1 | | * | 88.0 |
| TOT OBS: | 14293 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | 1.2 | .6 | .4 | .0 | .0 | .0 | .0 | 2.1 | .4 | .0 | 3.0 | .1 | 5.1 | | .1 | 89.3 |
| 06&09 | 1.0 | .3 | .5 | .0 | .0 | .0 | .0 | 1.7 | .7 | .2 | 4.0 | .1 | 3.5 | | .0 | 89.9 |
| 12&15 | 1.4 | .6 | .7 | .0 | .0 | .0 | .0 | 2.5 | .4 | .1 | 4.9 | .1 | 4.7 | | .0 | 87.3 |
| 18&21 | .9 | .6 | .2 | .0 | .0 | .0 | .0 | 1.7 | .7 | * | 4.8 | .2 | 6.8 | | * | 85.8 |
| TOT PCT | 1.1 | .6 | .4 | .0 | .0 | .0 | .0 | 2.0 | .6 | .1 | 4.2 | .1 | 5.2 | | * | 87.9 |
| TOT OBS: | 14394 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.3 | 5.5 | 3.0 | .3 | * | .0 | | 10.0 | 9.2 | 6.4 | 8.7 | 11.5 | 9.9 | 12.1 | 13.8 | 11.7 | 7.2 |
| NE | 1.0 | 2.1 | .6 | * | * | .0 | | 3.7 | 6.6 | .9 | 3.2 | 2.6 | 2.8 | 4.8 | 8.7 | 4.8 | 2.6 |
| E | .9 | 2.1 | .4 | * | .0 | .0 | | 3.4 | 6.3 | .9 | 1.6 | 2.2 | 3.4 | 4.6 | 7.8 | 5.2 | 2.4 |
| SE | 1.0 | 2.7 | .8 | .1 | .0 | .0 | | 4.6 | 7.2 | 2.6 | 3.5 | 3.4 | 5.4 | 4.6 | 8.6 | 6.0 | 3.6 |
| S | 1.1 | 3.5 | 1.3 | .2 | * | .0 | | 6.0 | 8.1 | 6.1 | 6.0 | 4.9 | 5.7 | 4.2 | 6.3 | 6.9 | 7.5 |
| SW | 1.4 | 4.7 | 1.7 | .2 | * | .0 | | 8.0 | 7.9 | 8.9 | 8.5 | 5.9 | 7.2 | 5.9 | 7.0 | 7.3 | 12.4 |
| W | 1.9 | 11.0 | 9.0 | 1.6 | .1 | .0 | | 23.6 | 11.0 | 30.8 | 27.5 | 22.6 | 22.8 | 19.3 | 15.2 | 19.6 | 28.7 |
| NW | 2.1 | 14.0 | 17.2 | 3.7 | .2 | .0 | | 37.3 | 12.7 | 41.9 | 38.5 | 44.3 | 38.5 | 40.2 | 27.4 | 33.8 | 32.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | | 3.3 | .0 | 1.5 | 2.4 | 2.7 | 4.4 | 4.1 | 5.2 | 4.6 | 2.8 |
| TOT OBS | 2070 | 6760 | 5037 | 901 | 39 | 0 | 14807 | | 10.2 | 2691 | 1362 | 1869 | 979 | 1956 | 1737 | 2229 | 1984 |
| TOT PCT | 14.0 | 45.7 | 34.0 | 6.1 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.8 | 5.2 | 1.0 | .1 | .0 | | 10.0 | 9.2 | 7.2 | 11.0 | 12.9 | 9.6 |
| NE | 2.2 | 1.4 | .1 | * | .0 | | 3.7 | 6.6 | 1.7 | 2.7 | 6.7 | 3.8 |
| E | 2.1 | 1.2 | .1 | .0 | .0 | | 3.4 | 6.3 | 1.1 | 2.7 | 6.1 | 3.9 |
| SE | 2.4 | 1.9 | .2 | * | .0 | | 4.6 | 7.2 | 2.9 | 4.1 | 6.5 | 4.8 |
| S | 2.8 | 2.7 | .4 | .1 | .0 | | 6.0 | 8.1 | 6.1 | 5.2 | 5.2 | 7.2 |
| SW | 3.8 | 3.7 | .5 | * | .0 | | 8.0 | 7.9 | 8.8 | 6.3 | 6.4 | 9.7 |
| W | 6.4 | 12.9 | 4.0 | .4 | .0 | | 23.6 | 11.0 | 29.7 | 22.6 | 17.4 | 23.9 |
| NW | 6.9 | 20.8 | 8.5 | 1.1 | * | | 37.3 | 12.7 | 40.7 | 42.3 | 34.2 | 33.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | 3.3 | .0 | 1.8 | 3.3 | 4.6 | 3.5 |
| TOT OBS | 5006 | 7359 | 2189 | 251 | 2 | 14807 | | 10.2 | 4053 | 2848 | 3093 | 4213 |
| TOT PCT | 33.8 | 49.7 | 14.8 | 1.7 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MARCH

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 8.1 | 41.7 | 40.0 | 7.9 | .4 | .0 | 11.3 | 100.0 | 4053 |
| 06&09 | 3.3 | 8.0 | 43.8 | 37.0 | 7.8 | .2 | .0 | 10.9 | 100.0 | 2848 |
| 12&15 | 4.6 | 14.8 | 46.5 | 29.0 | 4.9 | .2 | .0 | 9.1 | 100.0 | 3693 |
| 18&21 | 3.8 | 11.2 | 49.9 | 30.7 | 4.2 | .2 | .0 | 9.4 | 100.0 | 4213 |
| TOT | 496 | 1574 | 6760 | 5037 | 901 | 39 | 0 | 10.2 | | 14807 |
| PCT | 3.3 | 10.6 | 45.7 | 34.0 | 6.1 | .3 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 5.8 | 1.1 | 1.9 | 1.9 | | 3.1 |
| NE | 1.8 | .2 | .6 | .7 | | 3.3 |
| E | 1.5 | .5 | .7 | .8 | | 3.8 |
| SE | 1.4 | .4 | .9 | 1.4 | | 4.6 |
| S | 1.3 | .6 | 1.4 | 2.2 | | 5.3 |
| SW | 2.1 | .8 | 2.0 | 2.1 | | 4.8 |
| W | 9.1 | 2.8 | 6.7 | 4.6 | | 4.1 |
| NW | 17.8 | 5.1 | 9.5 | 7.1 | | 3.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.4 | .3 | .7 | .9 | | 4.2 |
| TOT OBS | 3952 | 1104 | 2279 | 2044 | 9379 | 3.9 |
| TOT PCT | 42.1 | 11.8 | 24.3 | 21.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .0 | .1 | .2 | 1.0 | .8 | .1 | .1 | * | .2 | 8.2 | |
| NE | .1 | .0 | * | * | .3 | .3 | .1 | * | * | .1 | 2.4 | |
| E | .1 | .0 | .0 | .1 | .3 | .4 | * | * | * | * | 2.5 | |
| SE | .1 | * | .1 | .1 | .5 | .6 | .1 | * | * | .1 | * | 2.5 |
| S | .1 | .0 | .1 | .3 | .9 | .7 | .3 | * | * | .1 | .1 | 2.9 |
| SW | .1 | .0 | .1 | .3 | 1.2 | 1.0 | .1 | * | * | * | .1 | 4.0 |
| W | .3 | * | .2 | .7 | 3.3 | 2.8 | .3 | .1 | .1 | .2 | 15.1 | |
| NW | .5 | .1 | .4 | 1.3 | 4.7 | 3.8 | .5 | .2 | .2 | .4 | 27.6 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .1 | .1 | .4 | .3 | * | * | * | .1 | 2.0 | |
| TOT OBS | 153 | 9 | 99 | 287 | 1185 | 998 | 148 | 49 | 53 | 104 | 6294 | 9379 |
| TOT PCT | 1.6 | .1 | 1.1 | 3.1 | 12.6 | 10.6 | 1.6 | .5 | .6 | 1.1 | 67.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .9 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| * OR >5000 | 1.2 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.4 |
| * OR >3500 | 2.2 | 3.6 | 3.7 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 |
| * OR >2000 | 9.4 | 14.2 | 14.4 | 14.4 | 14.4 | 14.5 | 14.5 | 14.5 |
| * OR >1000 | 16.7 | 25.9 | 27.0 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| * OR >600 | 18.1 | 28.5 | 30.0 | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 |
| * OR >300 | 18.5 | 29.3 | 30.9 | 31.1 | 31.2 | 31.2 | 31.2 | 31.2 |
| * OR >150 | 18.5 | 29.4 | 31.0 | 31.2 | 31.3 | 31.3 | 31.3 | 31.3 |
| * OR > 0 | 18.6 | 29.6 | 31.3 | 31.8 | 32.2 | 32.4 | 32.7 | 33.0 |
| TOTAL | 1754 | 2787 | 2955 | 2998 | 3036 | 3054 | 3088 | 3108 |

TOTAL NUMBER OF OBS: 9431

PCT FREQ NH <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 31.8 | 9.2 | 14.4 | 6.7 | 4.9 | 5.0 | 7.9 | 5.2 | 13.4 | 1.4 | 9878 |

MARCH

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

TABLE 8

AREA 0032 SAN DIEGO
32.6N 118.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | .0 | .0 | * | * | * | * | .0 | .0 | .0 | * | |
| | NO PCP | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .0 | .1 | 1.0 | |
| | TOT % | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .0 | .1 | 1.0 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | * | .1 | * | .1 | .1 | .1 | .0 | .1 | .7 | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .1 | .2 | .0 | .1 | .7 | |
| 1<2 | PCP | .0 | .0 | * | * | .1 | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | * | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.0 | |
| | TOT % | .1 | * | .1 | .1 | .2 | .2 | .2 | .3 | .0 | .1 | 1.2 | |
| 2<5 | PCP | * | * | * | * | .2 | .1 | .1 | .1 | .0 | * | .5 | |
| | NO PCP | .4 | .2 | .2 | .2 | .2 | .3 | .7 | .9 | .0 | .2 | 3.2 | |
| | TOT % | .4 | .2 | .2 | .2 | .4 | .4 | .8 | .9 | .0 | .2 | 3.7 | |
| 5<10 | PCP | * | * | * | .1 | .2 | .1 | .2 | .1 | .0 | * | .8 | |
| | NO PCP | 3.0 | 1.2 | 1.2 | 1.3 | 1.8 | 2.5 | 6.6 | 9.3 | .0 | 1.1 | 28.0 | |
| | TOT % | 3.0 | 1.3 | 1.2 | 1.4 | 2.1 | 2.7 | 6.8 | 9.4 | .0 | 1.1 | 28.8 | |
| 10+ | PCP | * | * | * | * | .1 | .1 | .1 | .1 | .0 | * | .4 | |
| | NO PCP | 6.4 | 2.1 | 1.9 | 2.5 | 3.1 | 4.4 | 15.6 | 26.5 | .0 | 1.5 | 64.1 | |
| | TOT % | 6.4 | 2.1 | 1.9 | 2.6 | 3.2 | 4.5 | 15.7 | 26.6 | .0 | 1.5 | 64.6 | |
| | TOT OBS | | | | | | | | | | | | 14286 |
| | TOT PCT | 10.1 | 3.8 | 3.5 | 4.4 | 6.0 | 7.9 | 23.7 | 37.5 | .0 | 3.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .4 | |
| | 4-10 | .1 | .1 | .1 | * | .1 | .1 | .1 | .1 | .0 | | .6 | |
| | 11-21 | * | .0 | .0 | * | * | * | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .0 | .1 | 1.1 | |
| 1/2<1 | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .2 | |
| | 4-10 | .1 | * | * | * | * | * | .1 | .1 | .0 | | .4 | |
| | 11-21 | * | * | .0 | * | * | * | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | | * | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .1 | .2 | .0 | .1 | .8 | |
| 1<2 | 0-3 | .1 | * | * | * | * | * | * | .1 | .0 | .1 | .4 | |
| | 4-10 | .1 | * | * | * | .1 | .1 | .1 | .1 | .0 | | .7 | |
| | 11-21 | * | .0 | * | * | * | .1 | * | .1 | .0 | | .3 | |
| | 22+ | .0 | .0 | * | .0 | * | * | * | * | .0 | | .1 | |
| | TOT % | .1 | .1 | .1 | .1 | .2 | .2 | .2 | .3 | .0 | .1 | 1.4 | |
| 2<5 | 0-3 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .1 | .0 | .2 | 1.1 | |
| | 4-10 | .2 | .1 | .1 | .1 | .2 | .2 | .5 | .6 | .0 | | 1.9 | |
| | 11-21 | * | * | * | * | .1 | .1 | .1 | .3 | .0 | | .7 | |
| | 22+ | .0 | .0 | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .4 | .2 | .2 | .3 | .4 | .4 | .8 | 1.0 | .0 | .2 | 3.9 | |
| 5<10 | 0-3 | .5 | .3 | .4 | .3 | .4 | .5 | .6 | .6 | .0 | 1.1 | 4.5 | |
| | 4-10 | 1.6 | .7 | .7 | .9 | 1.2 | 1.6 | 3.3 | 3.9 | .0 | | 13.8 | |
| | 11-21 | .8 | .2 | .1 | .2 | .4 | .5 | 2.5 | 3.9 | .0 | | 8.7 | |
| | 22+ | * | * | .0 | * | .1 | .1 | .4 | .8 | .0 | | 1.4 | |
| | TOT % | 2.9 | 1.2 | 1.2 | 1.4 | 2.0 | 2.6 | 6.7 | 9.2 | .0 | 1.1 | 28.4 | |
| 10+ | 0-3 | .6 | .5 | .4 | .5 | .6 | .7 | 1.0 | 1.3 | .0 | 1.6 | 7.1 | |
| | 4-10 | 3.5 | 1.2 | 1.3 | 1.6 | 1.9 | 2.7 | 7.0 | 9.2 | .0 | | 28.3 | |
| | 11-21 | 2.2 | .4 | .2 | .5 | .7 | 1.1 | 6.4 | 13.0 | .0 | | 24.4 | |
| | 22+ | .3 | * | * | * | * | .1 | 1.3 | 3.0 | .0 | | 4.7 | |
| | TOT % | 6.4 | 2.1 | 1.9 | 2.6 | 3.2 | 4.6 | 15.7 | 26.4 | .0 | 1.6 | 64.5 | |
| | TOT OBS | | | | | | | | | | | | 14642 |
| | TOT PCT | 10.0 | 3.7 | 3.5 | 4.5 | 6.0 | 8.0 | 23.7 | 37.3 | .0 | 3.3 | 100.0 | |

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | .1 | .7 | 2.7 | 10.4 | 9.1 | 1.8 | .4 | .6 | 1.1 | 27.9 | 72.1 | 2536 |
| 06&09 | 1.2 | * | .9 | 2.6 | 10.7 | 9.2 | 1.4 | .4 | .7 | 1.1 | 28.2 | 71.8 | 2271 |
| 12&15 | 2.3 | .2 | 1.1 | 3.1 | 14.6 | 12.2 | 1.2 | .7 | .6 | .7 | 36.8 | 63.2 | 2281 |
| 18&21 | 1.8 | .1 | 1.3 | 3.4 | 13.4 | 11.0 | 1.7 | .6 | .4 | 1.2 | 34.9 | 65.1 | 2651 |
| TOT | 155 | 10 | 99 | 289 | 1194 | 1010 | 190 | 49 | 53 | 104 | 3113 | 6626 | 9739 |
| PCT | 1.6 | .1 | 1.0 | 3.0 | 12.3 | 10.4 | 1.5 | .5 | .5 | 1.1 | 32.0 | 68.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .7 | .7 | 1.1 | 3.7 | 28.8 | 64.9 | 4028 |
| 06&09 | 1.0 | .4 | .5 | 2.4 | 27.6 | 68.1 | 2835 |
| 12&15 | 1.5 | 1.0 | 2.1 | 4.3 | 28.7 | 62.4 | 3673 |
| 18&21 | 1.2 | .9 | 1.7 | 4.7 | 28.0 | 63.6 | 4207 |
| TOT | 162 | 112 | 207 | 572 | 4179 | 9511 | 14743 |
| PCT | 1.1 | .8 | 1.4 | 3.9 | 28.3 | 64.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 2.2 | 7.0 | 23.4 | 69.5 | 2430 |
| 06&09 | 1.3 | 2.3 | 6.4 | 23.3 | 70.3 | 2219 |
| 12&15 | 2.4 | 4.0 | 9.3 | 29.5 | 61.2 | 2222 |
| 18&21 | 1.9 | 3.9 | 10.7 | 27.5 | 61.8 | 2560 |
| TOT | 156 | 293 | 795 | 2446 | 6190 | 9431 |
| PCT | 1.7 | 3.1 | 8.4 | 25.9 | 65.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | .0 | .0 | * | .0 | .0 | .0 | 4 | * |
| 75/79 | * | * | * | .1 | .1 | * | * | * | 25 | .2 |
| 70/74 | .1 | .1 | .1 | .2 | .2 | .1 | .1 | .1 | 108 | .9 |
| 65/69 | * | .1 | .4 | .8 | 1.3 | 1.2 | .6 | .4 | 573 | 4.9 |
| 60/64 | * | .2 | .5 | 1.6 | 4.9 | 7.8 | 5.6 | 2.0 | 2609 | 22.5 |
| 55/59 | .0 | .1 | .6 | 1.8 | 7.6 | 18.2 | 22.2 | 7.4 | 6705 | 57.8 |
| 50/54 | .0 | .1 | .2 | .7 | 2.1 | 2.7 | 4.8 | 2.3 | 1495 | 12.9 |
| 45/49 | .0 | .0 | * | * | .1 | .1 | .1 | .2 | 69 | .6 |
| 40/44 | .0 | .0 | .0 | .0 | * | .0 | * | .1 | 9 | .1 |
| TOTAL | 21 | 63 | 210 | 605 | 1895 | 3492 | 3871 | 1440 | 11597 | 100.0 |
| PCT | .2 | .5 | 1.8 | 5.2 | 16.3 | 30.1 | 33.4 | 12.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .0 |
| * | * | * | * | * | * | * | .1 | .0 | .0 |
| .1 | * | * | .1 | * | .1 | .2 | .3 | .0 | * |
| .6 | .2 | .2 | .3 | .3 | .4 | .9 | 1.8 | .0 | .1 |
| 2.4 | .9 | .6 | 1.0 | 1.8 | 2.2 | 5.2 | 7.6 | .0 | .9 |
| 5.7 | 2.0 | 1.8 | 2.5 | 3.2 | 4.8 | 14.1 | 22.2 | .0 | 1.6 |
| 1.3 | .6 | .6 | .6 | .5 | .6 | 2.8 | 5.4 | .0 | .4 |
| * | .1 | .1 | .1 | * | * | .1 | .1 | .0 | .1 |
| .0 | * | * | .0 | * | * | * | * | .0 | .0 |
| 10.1 | 3.8 | 3.4 | 4.5 | 5.9 | 8.2 | 23.3 | 37.7 | .0 | 3.1 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 78 | 70 | 66 | 58 | 54 | 52 | 40 | 59.1 | 4061 |
| 06&09 | 79 | 65 | 62 | 57 | 53 | 50 | 46 | 56.9 | 2863 |
| 12&15 | 78 | 65 | 62 | 56 | 51 | 48 | 40 | 56.4 | 3720 |
| 18&21 | 82 | 71 | 67 | 59 | 54 | 51 | 40 | 59.2 | 4215 |
| TOT | 82 | 69 | 65 | 58 | 53 | 50 | 40 | 58.0 | 14859 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .2 | 9.0 | 18.4 | 31.3 | 30.0 | 11.2 | 76 | 3310 |
| 06&09 | * | 3.1 | 11.9 | 30.9 | 40.4 | 13.7 | 80 | 2109 |
| 12&15 | * | 5.3 | 11.1 | 26.9 | 39.5 | 17.1 | 80 | 2920 |
| 18&21 | .4 | 10.9 | 21.6 | 31.3 | 26.8 | 8.9 | 74 | 3346 |
| TOT | 22 | 882 | 1907 | 3519 | 3898 | 1457 | 77 | 11685 |

PERIOD: (PRIMARY) 1944-1976
(OVER-ALL) 1889-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 3 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | * | * | * | * | * | * | 15 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | * | * | .1 | .1 | .1 | * | * | 36 | * | .2 |
| 11/13 | .0 | .0 | .0 | * | .2 | .2 | .3 | .1 | * | .0 | 109 | * | .8 |
| 9/10 | .0 | .0 | * | * | .2 | .5 | .2 | * | .0 | .0 | 131 | * | 1.0 |
| 7/8 | .0 | .0 | * | .2 | .7 | 1.1 | .2 | * | .0 | .0 | 296 | * | 2.2 |
| 6 | .0 | .0 | * | .4 | .9 | .5 | .1 | * | .0 | .0 | 254 | * | 1.9 |
| 5 | .0 | .0 | .1 | .5 | 1.0 | .7 | * | * | .0 | .0 | 327 | .1 | 2.4 |
| 4 | .0 | * | .1 | 1.2 | 1.7 | .4 | * | .0 | .0 | .0 | 451 | .1 | 3.3 |
| 3 | .0 | * | .4 | 1.7 | 2.0 | .3 | * | .0 | .0 | .0 | 596 | .1 | 4.4 |
| 2 | .0 | * | .8 | 3.5 | 2.2 | .2 | * | .0 | .0 | .0 | 885 | .3 | 6.4 |
| 1 | .0 | * | 1.1 | 4.6 | 2.. | .1 | * | .0 | .0 | .0 | 1058 | .3 | 7.7 |
| 0 | .0 | .1 | 2.9 | 7.8 | 1.5 | .1 | .0 | .0 | .0 | .0 | 1044 | .5 | 11.8 |
| -1 | .0 | .1 | 3.0 | 7.4 | .8 | * | .0 | * | .0 | .0 | 1317 | .5 | 10.8 |
| -2 | * | .2 | 5.9 | 6.2 | .5 | * | .0 | .0 | .0 | .0 | 1710 | .5 | 12.3 |
| -3 | .0 | .1 | 5.7 | 5.1 | .2 | * | .0 | .0 | .0 | .0 | 1478 | .5 | 10.6 |
| -4 | * | .5 | 5.0 | 2.6 | .2 | .0 | .0 | .0 | .0 | .0 | 1116 | .3 | 8.1 |
| -5 | .0 | .4 | 3.6 | 1.6 | * | * | .0 | .0 | .0 | .0 | 737 | .3 | 5.2 |
| -6 | .0 | .5 | 2.2 | .4 | * | .0 | .0 | .0 | .0 | .0 | 416 | .2 | 2.9 |
| -7/-8 | * | .7 | 1.8 | .4 | * | .0 | .0 | .0 | .0 | .0 | 391 | .2 | 2.7 |
| -9/-10 | * | .3 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | 97 | * | .7 |
| -11/-13 | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 32 | * | .2 |
| -14/-16 | .0 | * | * | .0 | * | .0 | .0 | .0 | .0 | .0 | 7 | * | * |
| -17/-19 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | * | * |
| TOTAL | 12 | 425 | 4406 | 5826 | .888 | 564 | 144 | 37 | 6 | 2 | 13310 | 558 | 12752 |
| PCT | .1 | 3.2 | 33.1 | 43.8 | 14.2 | 4.2 | 1.1 | .3 | * | * | 100.0 | 4.2 | 95.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.5 | * | .0 | .0 | .0 | 1.9 |
| 1-2 | .3 | 3.1 | 1.7 | .0 | .0 | .0 | 5.1 |
| 3-4 | * | .9 | 1.1 | .1 | .0 | .0 | 2.1 |
| 5-6 | .0 | .1 | .4 | * | .0 | .0 | .6 |
| 7 | .0 | .1 | .1 | * | * | .0 | .3 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 12 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 5.7 | 3.6 | .3 | * | .0 | 10.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .2 | 1.2 | .3 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .2 | .2 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | * | .0 | .0 | * |
| 8-9 | .0 | * | .0 | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.9 | .6 | * | .0 | .0 | 3.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .2 | 1.3 | .3 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | * | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.3 | .4 | .0 | .0 | .0 | 3.2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | * | .0 | .0 | .0 | 1.1 |
| 1-2 | .4 | 1.7 | .4 | .0 | .0 | .0 | 2.5 |
| 3-4 | * | .2 | * | .1 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.7 | .5 | .1 | .0 | .0 | 3.9 |

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0032 SAN DIEGO
32.0N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.0 | .1 | .0 | .0 | .0 | 1.4 |
| 1-2 | .3 | 1.6 | .8 | .0 | .0 | .0 | 2.7 |
| 3-4 | * | .2 | .1 | .1 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | * | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.8 | 1.0 | .2 | .0 | .0 | 4.6 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.5 | .1 | .0 | .0 | .0 | 2.1 |
| 1-2 | .3 | 3.0 | 1.1 | .0 | .0 | .0 | 4.3 |
| 3-4 | .1 | .5 | .4 | .1 | .0 | .0 | 1.0 |
| 5-6 | .0 | .1 | .2 | * | .0 | .0 | .3 |
| 7 | .0 | .0 | .2 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 5.0 | 1.9 | .1 | .0 | .0 | 7.8 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 2.1 | * | .0 | .0 | .0 | 2.8 |
| 1-2 | .4 | 5.9 | 3.6 | .0 | .0 | .0 | 9.9 |
| 3-4 | .1 | 1.8 | 4.2 | .5 | .0 | .0 | 6.6 |
| 5-6 | .0 | .3 | 1.1 | .5 | .0 | .0 | 1.8 |
| 7 | .0 | .0 | .5 | .4 | .0 | .0 | .9 |
| 8-9 | .0 | .0 | .2 | .2 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .1 | * | * | .0 | .1 |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 10.1 | 9.7 | 1.7 | * | .0 | 22.6 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .5 | 2.5 | * | .0 | .0 | .0 | 3.1 | |
| 1-2 | .6 | 9.1 | 6.7 | .0 | .0 | .0 | 16.5 | |
| 3-4 | .1 | 3.5 | 7.2 | 1.4 | .0 | .0 | 12.2 | |
| 5-6 | * | .5 | 3.0 | 1.0 | .0 | .0 | 4.4 | |
| 7 | .0 | .2 | 1.6 | 1.0 | .1 | .0 | 2.9 | |
| 8-9 | .0 | .1 | .9 | .7 | .0 | .0 | 1.7 | |
| 10-11 | .0 | .0 | .1 | .5 | .1 | .0 | .7 | |
| 12 | .0 | .0 | * | .2 | .1 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.3 | 15.9 | 19.6 | 4.9 | .3 | .0 | 42.0 | 97.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.6 | 10.8 | .3 | .0 | .0 | .0 | 16.7 | |
| 1-2 | 2.9 | 26.8 | 14.9 | .0 | .0 | .0 | 44.6 | |
| 3-4 | .4 | 7.3 | 13.4 | 2.2 | .0 | .0 | 23.3 | |
| 5-6 | * | 1.0 | 4.8 | 1.5 | .0 | .0 | 7.3 | |
| 7 | .0 | .3 | 2.4 | 1.6 | .1 | .0 | 4.3 | |
| 8-9 | .0 | .1 | 1.2 | .9 | .0 | .0 | 2.2 | |
| 10-11 | .0 | .0 | .3 | .5 | .2 | .0 | 1.0 | |
| 12 | .0 | .0 | .1 | .3 | .1 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 8.8 | 46.3 | 37.2 | 7.2 | .4 | .0 | 100.0 | 3252 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.4 | 22.5 | 19.3 | 5.0 | 2.5 | .8 | .4 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3898 | 3 |
| 6-7 | .1 | 4.0 | 8.5 | 4.0 | 3.0 | 1.3 | .5 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1593 | 4 |
| 8-9 | * | 1.2 | 2.0 | 1.6 | 1.8 | 1.5 | .5 | .3 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 686 | 6 |
| 10-11 | .0 | .5 | .4 | .6 | .4 | .3 | .1 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 199 | 6 |
| 12-13 | .0 | .0 | .3 | .1 | .1 | .1 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 72 | 6 |
| >13 | .0 | .0 | .0 | .1 | .1 | * | .1 | * | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 20 | 9 |
| INDET | 8.4 | 2.1 | 1.0 | .4 | .1 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 883 | 1 |
| TOTAL | 796 | 2231 | 2324 | 871 | 591 | 305 | 126 | 54 | 34 | 12 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 7991 | 3 |
| PCT | 10.8 | 30.3 | 31.6 | 11.8 | 8.0 | 4.1 | 1.7 | .7 | .5 | .2 | .1 | * | .0 | .0 | .0 | .0 | * | .0 | .0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG NO PCPN | FOG NO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .6 | .1 | .4 | .0 | .0 | .0 | .0 | 1.0 | .2 | .0 | 6.4 | .1 | 9.8 | | .0 | 82.4 |
| NE | .6 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.6 | .3 | .0 | 7.1 | .0 | 11.7 | | .0 | 79.3 |
| E | .8 | 1.0 | 1.2 | .0 | .0 | .0 | .0 | 2.4 | .3 | .0 | 9.1 | .0 | 9.9 | | .3 | 78.0 |
| SE | 2.1 | .9 | 2.3 | .0 | .0 | .0 | .0 | 3.9 | 1.6 | .0 | 7.9 | .0 | 9.1 | | .0 | 77.8 |
| S | 2.7 | 1.8 | 1.9 | .0 | .0 | .0 | .0 | 6.1 | .6 | .2 | 6.4 | .1 | 10.5 | | .0 | 76.2 |
| SW | 1.3 | 1.1 | 1.0 | .0 | .0 | .0 | .0 | 3.4 | .6 | .0 | 4.9 | .1 | 8.4 | | .1 | 82.5 |
| W | .5 | .6 | .5 | .0 | .0 | .0 | * | 1.6 | .6 | * | 3.8 | * | 8.1 | | .1 | 85.8 |
| NW | .2 | .3 | .5 | .0 | .0 | .0 | .0 | 1.1 | .2 | * | 3.3 | .1 | 7.0 | | * | 88.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .2 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.2 | .0 | .0 | 13.3 | .2 | 16.1 | | .0 | 69.2 |
| TOT PCT | .7 | .6 | .8 | .0 | .0 | .0 | * | 1.9 | .4 | * | 4.7 | .1 | 8.4 | | * | 84.5 |
| TOT OBS: 13881 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG NO PCPN | FOG NO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .8 | .7 | .5 | .0 | .0 | .0 | .0 | 1.8 | .3 | .0 | 3.2 | .0 | 8.4 | | .0 | 86.3 |
| 06&09 | .4 | .3 | .9 | .0 | .0 | .0 | .0 | 1.5 | .6 | .1 | 4.4 | .0 | 9.7 | | .1 | 87.6 |
| 12&15 | 1.1 | .4 | 1.3 | .0 | .0 | .0 | .0 | 2.6 | .5 | * | 5.9 | * | 7.3 | | .1 | 83.6 |
| 18&21 | .5 | .8 | .4 | .0 | .0 | .0 | * | 1.6 | .4 | .0 | 5.3 | .2 | 10.8 | | * | 81.6 |
| TOT PCT | .7 | .6 | .8 | .0 | .0 | .0 | * | 1.9 | .4 | * | 4.7 | .1 | 8.4 | | * | 84.4 |
| TOT OBS: 13906 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 3.7 | 2.5 | .3 | * | .0 | | 7.5 | 9.7 | 4.7 | 5.8 | 8.6 | 6.2 | 9.5 | 10.9 | 8.8 | 4.9 |
| NE | .6 | 1.2 | .2 | * | .0 | .0 | | 2.1 | 6.2 | .5 | 2.1 | 1.6 | 1.3 | 2.6 | 3.5 | 2.5 | 1.4 |
| E | .7 | 1.3 | .2 | * | * | .0 | | 2.2 | 5.7 | .7 | .8 | 1.5 | 2.3 | 2.8 | 3.5 | 3.1 | 1.0 |
| SE | .8 | 2.3 | .7 | * | .0 | .0 | | 3.9 | 7.4 | 1.8 | 3.0 | 3.1 | 4.1 | 4.1 | 6.9 | 5.4 | 2.9 |
| S | 1.1 | 4.0 | 1.3 | .1 | .0 | .0 | | 6.6 | 7.9 | 5.4 | 6.3 | 5.8 | 6.2 | 5.6 | 7.6 | 8.2 | 7.4 |
| SW | 1.3 | 5.8 | 2.0 | .1 | .0 | .0 | | 9.2 | 7.8 | 10.2 | 10.8 | 6.9 | 9.1 | 5.8 | 8.2 | 8.8 | 14.0 |
| W | 2.2 | 13.3 | 10.6 | 1.6 | .1 | .0 | | 27.8 | 10.8 | 34.3 | 34.1 | 25.9 | 29.9 | 22.6 | 18.2 | 23.9 | 34.7 |
| NW | 1.7 | 14.4 | 17.9 | 3.3 | .2 | .0 | | 37.5 | 12.5 | 41.3 | 39.1 | 44.2 | 36.7 | 42.3 | 31.6 | 34.9 | 32.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.2 | | | | | | | 3.2 | .0 | 1.1 | 2.1 | 2.6 | 4.4 | 4.8 | 5.7 | 4.3 | 1.6 |
| TOT OBS | 1802 | 6820 | 5106 | 798 | 34 | 0 | 14360 | | 10.2 | 2925 | 1222 | 1782 | 897 | 1981 | 1696 | 2368 | 1989 |
| TOT PCT | 12.9 | 48.1 | 35.6 | 5.6 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.6 | 3.9 | .9 | * | .0 | | 7.5 | 9.7 | 5.1 | 7.8 | 10.1 | 7.0 |
| NE | 1.4 | .7 | .1 | * | .0 | | 2.1 | 6.1 | 1.0 | 1.5 | 3.9 | 2.0 |
| E | 1.6 | .3 | .1 | * | .0 | | 2.2 | 5.7 | .7 | 1.8 | 4.0 | 2.2 |
| SE | 2.0 | 1.6 | .2 | * | .0 | | 3.9 | 7.4 | 2.2 | 3.4 | 5.4 | 4.3 |
| S | 3.1 | 3.0 | .4 | * | .0 | | 6.6 | 7.9 | 3.7 | 5.9 | 6.3 | 7.8 |
| SW | 4.3 | 4.5 | .4 | * | .0 | | 9.2 | 7.8 | 10.4 | 7.6 | 6.9 | 11.2 |
| W | 7.3 | 15.9 | 4.2 | .4 | * | | 27.8 | 10.8 | 34.2 | 27.1 | 20.6 | 28.8 |
| NW | 6.7 | 21.9 | 8.1 | .9 | * | | 37.5 | 12.5 | 39.3 | 41.8 | 37.3 | 33.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.2 | | | | | | 3.2 | .0 | 1.9 | 3.1 | 3.2 | 2.1 |
| TOT OBS | 4640 | 7460 | 2061 | 198 | 1 | 14360 | | 10.2 | 3767 | 2609 | 3677 | 4327 |
| TOT PCT | 32.3 | 51.9 | 14.4 | 1.4 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 6.5 | 41.9 | 42.8 | 7.1 | .2 | .0 | 11.5 | 100.0 | 3747 |
| 06&09 | 3.1 | 8.3 | 43.2 | 38.2 | 6.9 | .3 | .0 | 10.8 | 100.0 | 2609 |
| 12&15 | 5.2 | 12.7 | 49.3 | 28.0 | 4.3 | .2 | .0 | 8.9 | 100.0 | 3677 |
| 18&21 | 3.1 | 9.6 | 48.6 | 34.1 | 4.4 | .2 | .0 | 9.8 | 100.0 | 4327 |
| TOT | 460 | 1342 | 6820 | 5108 | 798 | 34 | 0 | 10.2 | | 14360 |
| PCT | 3.2 | 9.3 | 48.1 | 35.6 | 5.6 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 3.5 | .7 | 1.5 | 1.9 | | 3.7 |
| NE | .9 | .2 | .3 | .5 | | 3.6 |
| E | .9 | .2 | .4 | .6 | | 3.9 |
| SE | .9 | .3 | .9 | 1.5 | | 5.4 |
| S | 1.5 | .6 | 1.6 | 2.8 | | 5.5 |
| SW | 2.3 | .8 | 2.4 | 3.1 | | 5.1 |
| W | 10.5 | 3.3 | 6.5 | 7.1 | | 4.2 |
| NW | 17.3 | 4.9 | 8.1 | 8.8 | | 3.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.1 | .3 | .6 | 1.9 | | 4.7 |
| TOT OBS | 3550 | 1022 | 2028 | 2513 | 9093 | 4.2 |
| TOT PCT | 38.8 | 11.2 | 22.3 | 27.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | * | .1 | .3 | 1.2 | .9 | .1 | * | * | .1 | 4.8 | |
| NE | .1 | .0 | * | .1 | .2 | .2 | * | .0 | .0 | * | 1.2 | |
| E | .1 | * | * | .1 | .3 | .2 | * | * | * | * | 1.3 | |
| SE | .1 | * | .1 | .2 | .9 | .5 | .1 | .0 | * | * | 1.9 | |
| S | .2 | * | .2 | .3 | 1.7 | 1.1 | .2 | * | * | .1 | 2.7 | |
| SW | .1 | * | .2 | .5 | 1.9 | 1.5 | .2 | .1 | .1 | .1 | 3.9 | |
| W | .3 | * | .4 | 1.3 | 3.0 | 3.5 | .3 | .1 | .1 | .3 | 10.1 | |
| NW | .4 | .1 | .6 | 1.7 | 6.0 | 4.5 | .4 | .1 | .1 | .3 | 24.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .1 | .3 | .7 | .3 | * | * | * | * | 1.6 | |
| TOT OBS | 146 | 23 | 147 | 430 | 1636 | 1191 | 139 | 40 | 24 | 81 | 3280 | 9093 |
| TOT PCT | 1.6 | .3 | 1.6 | 4.7 | 18.0 | 12.7 | 1.5 | .4 | .3 | .9 | 36.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >5000 | 1.0 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| * OR >3500 | 2.1 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| * OR >2000 | 10.5 | 15.4 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |
| * OR >1000 | 19.8 | 32.7 | 33.5 | 33.5 | 33.6 | 33.6 | 33.6 | 33.7 |
| * OR >600 | 21.4 | 36.8 | 38.2 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 |
| * OR >300 | 21.6 | 37.7 | 39.5 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| * OR >150 | 21.7 | 37.9 | 39.8 | 40.2 | 40.2 | 40.2 | 40.3 | 40.3 |
| * OR > 0 | 21.7 | 38.1 | 40.1 | 41.0 | 41.2 | 41.6 | 41.8 | 41.9 |
| TOTAL | 1987 | 3478 | 3663 | 3709 | 3747 | 3762 | 3802 | 3827 |

TOTAL NUMBER OF OBS: 9138

PCT FREQ NM <5/8: 58.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 28.5 | 7.8 | 11.4 | 6.1 | 4.2 | 4.9 | 7.9 | 5.5 | 22.1 | 1.5 | 9434 |

APRIL

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | • | • | • | • | .0 | .0 | • | |
| | NO PCP | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.1 | |
| | TOT % | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.1 | |
| 1/2<1 | PCP | • | • | .0 | .0 | • | • | • | • | .0 | • | .1 | |
| | NO PCP | .1 | • | • | • | • | • | .1 | .2 | .0 | .1 | .6 | |
| | TOT % | .1 | • | • | • | • | .1 | .1 | .2 | .0 | .1 | .6 | |
| 1<2 | PCP | • | .0 | • | • | • | • | • | • | .0 | .0 | .1 | |
| | NO PCP | .1 | .1 | • | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.2 | |
| | TOT % | .1 | .1 | • | .1 | .1 | .2 | .3 | .4 | .0 | .1 | 1.4 | |
| 2<5 | PCP | • | • | • | • | .1 | • | .1 | .1 | .0 | .0 | .3 | |
| | NO PCP | .3 | .1 | .1 | .2 | .4 | .5 | .9 | 1.3 | .0 | .2 | 4.0 | |
| | TOT % | .3 | .1 | .1 | .2 | .5 | .5 | 1.0 | 1.3 | .0 | .2 | 4.3 | |
| 5<10 | PCP | • | • | • | • | .2 | .2 | .2 | .2 | .0 | • | .9 | |
| | NO PCP | 2.4 | .7 | .8 | 1.5 | 2.4 | 3.2 | 9.2 | 10.6 | .0 | 1.3 | 32.0 | |
| | TOT % | 2.4 | .7 | .8 | 1.5 | 2.6 | 3.3 | 9.4 | 10.8 | .0 | 1.3 | 32.9 | |
| 10+ | PCP | • | • | • | .1 | .1 | • | .1 | .1 | .0 | • | .5 | |
| | NO PCP | 4.4 | 1.2 | 1.1 | 1.9 | 3.2 | 5.0 | 16.7 | 24.6 | .0 | 1.2 | 59.3 | |
| | TOT % | 4.4 | 1.2 | 1.1 | 2.0 | 3.3 | 5.0 | 16.8 | 24.7 | .0 | 1.2 | 59.7 | |
| | TOT OBS | | | | | | | | | | | | 13872 |
| | TOT PCT | 7.5 | 2.2 | 2.2 | 3.9 | 6.6 | 9.2 | 27.8 | 37.6 | .0 | 3.0 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | • | • | • | • | • | • | • | • | .0 | .1 | .4 | |
| | 4-10 | .1 | • | • | .1 | • | .1 | .2 | .2 | .0 | | .6 | |
| | 11-21 | • | • | .0 | .0 | • | • | .1 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | • | • | .0 | | • | |
| | TOT % | .1 | .1 | • | .1 | .1 | .1 | .3 | .3 | .0 | .1 | 1.2 | |
| 1/2<1 | 0-3 | • | • | • | • | • | • | • | • | .0 | .1 | .2 | |
| | 4-10 | • | • | • | • | • | • | .1 | .1 | .0 | | .3 | |
| | 11-21 | .0 | .0 | .0 | • | • | • | • | • | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | • | • | • | • | .1 | .2 | .2 | .0 | .1 | .6 | |
| 1<2 | 0-3 | • | • | • | • | • | • | .1 | [illegible] | .0 | .1 | .4 | |
| | 4-10 | .1 | • | • | .1 | .1 | .1 | .2 | .2 | .0 | | .8 | |
| | 11-21 | • | • | .0 | • | • | • | • | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | • | • | • | • | .0 | | • | |
| | TOT % | .1 | .1 | .1 | .1 | .2 | .2 | .3 | .4 | .0 | .1 | 1.4 | |
| 2<5 | 0-3 | • | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .2 | .9 | |
| | 4-10 | .2 | • | .1 | .1 | .3 | .3 | .6 | .9 | .0 | | 2.6 | |
| | 11-21 | .1 | • | • | • | • | .1 | .2 | .4 | .0 | | .9 | |
| | 22+ | .0 | .0 | • | .0 | • | • | • | • | .0 | | .1 | |
| | TOT % | .3 | .1 | .2 | .2 | .5 | .5 | 1.0 | 1.4 | .0 | .2 | 4.3 | |
| 5<10 | 0-3 | .3 | .2 | .3 | .3 | .4 | .4 | .8 | .6 | .0 | 1.3 | 4.6 | |
| | 4-10 | 1.3 | .4 | .5 | .9 | 1.8 | 2.1 | 4.8 | 4.6 | .0 | | 16.2 | |
| | 11-21 | .7 | .1 | • | .2 | .5 | .7 | 3.3 | 4.7 | .0 | | 10.3 | |
| | 22+ | .1 | • | • | • | .1 | • | .4 | .7 | .0 | | 1.3 | |
| | TOT % | 2.3 | .7 | .8 | 1.5 | 2.8 | 3.3 | 9.3 | 10.6 | .0 | 1.3 | 32.4 | |
| 10+ | 0-3 | .3 | .3 | .3 | .4 | .8 | .7 | 1.1 | .9 | .0 | 1.4 | 6.0 | |
| | 4-10 | 2.0 | .7 | .7 | 1.1 | 2.0 | 3.2 | 7.5 | 8.3 | .0 | | 25.4 | |
| | 11-21 | 1.7 | .1 | .1 | .4 | .7 | 1.1 | 7.0 | 12.6 | .0 | | 23.9 | |
| | 22+ | .2 | • | • | • | • | .1 | 1.2 | 2.6 | .0 | | 4.4 | |
| | TOT % | 4.4 | 1.2 | 1.1 | 1.9 | 3.2 | 5.0 | 16.8 | 24.6 | .0 | 1.4 | 59.7 | |
| | TOT OBS | | | | | | | | | | | | 14186 |
| | TOT PCT | 7.4 | 2.2 | 2.2 | 3.9 | 6.6 | 9.2 | 27.9 | 37.5 | .0 | 3.2 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00E03 | .9 | .5 | 1.2 | 4.9 | 14.8 | 10.2 | 1.2 | .3 | .4 | 1.1 | 35.3 | 64.7 | 2336 |
| 06E09 | 1.7 | .1 | 1.6 | 3.5 | 13.9 | 11.7 | 1.5 | .4 | .2 | .7 | 37.4 | 62.6 | 2068 |
| 12E15 | 2.2 | .3 | 2.0 | 5.5 | 20.3 | 13.0 | 1.6 | .5 | .2 | .5 | 48.0 | 52.0 | 2220 |
| 18E21 | 1.5 | .4 | 1.6 | 4.8 | 19.4 | 12.7 | 1.5 | .5 | .2 | 1.1 | 43.7 | 56.3 | 2689 |
| TOT | 146 | 24 | 149 | 437 | 1647 | 1193 | 135 | 40 | 24 | 81 | 3838 | 5477 | 9313 |
| PCT | 1.6 | .3 | 1.6 | 4.7 | 17.7 | 12.4 | 1.4 | .4 | .3 | .9 | 41.2 | 58.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00E03 | .7 | .3 | 1.5 | 3.9 | 33.3 | 60.2 | 3725 |
| 06E09 | 1.2 | .5 | .4 | 3.0 | 31.3 | 63.6 | 2596 |
| 12E15 | 1.9 | 1.0 | 2.1 | 4.7 | 31.3 | 58.9 | 3634 |
| 18E21 | 1.0 | .7 | 2.0 | 5.7 | 33.2 | 57.4 | 4318 |
| TOT | 172 | 92 | 280 | 639 | 4628 | 8512 | 14273 |
| PCT | 1.2 | .6 | 1.6 | 4.5 | 32.4 | 59.6 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 5+ AND | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00E03 | 1.0 | 2.6 | 9.4 | 28.2 | 62.3 | 2280 |
| 06E09 | 1.8 | 3.7 | 8.3 | 30.3 | 61.4 | 2034 |
| 12E15 | 2.3 | 4.9 | 12.1 | 37.7 | 50.2 | 2182 |
| 18E21 | 1.6 | 4.0 | 12.2 | 34.4 | 53.4 | 2642 |
| TOT | 151 | 348 | 968 | 2990 | 5180 | 9138 |
| PCT | 1.7 | 3.8 | 10.6 | 32.7 | 56.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | * | * | * | .0 | .0 | .0 | .0 | 6 | .1 |
| 75/79 | * | * | .1 | * | * | * | .0 | .0 | 26 | .2 |
| 70/74 | * | * | .1 | .2 | .3 | .3 | .1 | .1 | 135 | 1.2 |
| 65/69 | .0 | .1 | .2 | .6 | 1.4 | 1.9 | 1.0 | .6 | 676 | 5.8 |
| 60/64 | .0 | .1 | .4 | 1.4 | 5.4 | 10.3 | 9.6 | 2.8 | 3492 | 30.0 |
| 55/59 | .0 | * | .1 | 1.6 | 6.7 | 16.3 | 22.7 | 7.8 | 6421 | 55.2 |
| 50/54 | .0 | .0 | * | .3 | .9 | 1.4 | 2.8 | 1.8 | 839 | 7.2 |
| 45/49 | .0 | .0 | .0 | .0 | * | .1 | .1 | .1 | 26 | .2 |
| 40/44 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | * |
| TOTAL | 10 | 32 | 117 | 490 | 1720 | 3508 | 4217 | 1528 | 11622 | 100.0 |
| PCT | .1 | .3 | 1.0 | 4.2 | 14.8 | 30.2 | 36.3 | 13.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | * | .0 | .0 | .0 | * | * | .0 | * |
| * | * | * | .0 | * | * | * | .1 | .0 | * |
| * | * | * | * | .1 | .1 | .3 | .4 | .0 | .1 |
| .4 | .1 | .1 | .3 | .5 | .6 | 1.4 | 2.1 | .0 | .2 |
| 2.5 | .7 | .6 | 1.4 | 2.3 | 3.2 | 8.3 | 10.1 | .0 | .9 |
| 4.0 | 1.1 | 1.2 | 2.2 | 3.6 | 4.8 | 15.4 | 21.4 | .0 | 1.5 |
| .4 | .1 | .2 | .2 | .2 | .4 | 2.0 | 3.5 | .0 | .1 |
| * | * | * | * | * | * | .1 | * | .0 | * |
| .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 |
| 7.4 | 2.2 | 2.2 | 4.2 | 6.7 | 9.2 | 27.6 | 37.7 | .0 | 2.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 83 | 72 | 67 | 59 | 55 | 52 | 44 | 59.8 | 3744 |
| 06E09 | 83 | 69 | 63 | 57 | 53 | 52 | 49 | 57.7 | 2608 |
| 12E15 | 77 | 66 | 63 | 57 | 53 | 50 | 45 | 57.4 | 3670 |
| 18E21 | 82 | 71 | 67 | 60 | 55 | 53 | 48 | 60.2 | 4326 |
| TOT | 83 | 70 | 65 | 58 | 54 | 52 | 44 | 58.9 | 14348 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00E03 | .1 | 7.0 | 16.5 | 30.5 | 34.3 | 11.6 | 77 | 3116 |
| 06E09 | .1 | 2.7 | 12.1 | 30.5 | 39.2 | 15.3 | 80 | 2013 |
| 12E15 | * | 3.4 | 11.6 | 25.9 | 40.8 | 18.2 | 81 | 3007 |
| 18E21 | .1 | 7.5 | 17.7 | 33.2 | 32.3 | 9.2 | 76 | 3566 |
| TOT | 11 | 642 | 1737 | 3529 | 4239 | 1544 | 78 | 11702 |

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 4 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | * | .0 | * | * | * | .0 | 6 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | 11 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | .1 | * | .1 | * | * | 43 | * | .3 |
| 11/13 | .0 | .0 | * | * | .2 | .1 | .2 | .1 | * | .0 | 93 | .1 | .7 |
| 9/10 | .0 | .0 | .0 | .1 | .3 | .3 | .3 | .1 | .0 | .0 | 131 | .1 | 1.0 |
| 7/8 | .0 | .0 | .0 | .4 | .5 | .9 | .3 | * | .0 | .0 | 269 | .1 | 2.0 |
| 6 | .0 | .0 | * | .5 | .9 | .5 | .1 | .0 | .0 | .0 | 248 | .2 | 1.8 |
| 5 | .0 | * | .1 | .7 | 1.1 | .8 | .1 | * | .0 | .0 | 359 | .1 | 2.7 |
| 4 | .0 | .0 | .2 | 1.0 | 1.9 | .5 | .1 | .0 | .0 | .0 | 467 | .1 | 3.6 |
| 3 | .0 | .0 | .3 | 1.1 | 2.3 | .6 | .1 | * | .0 | .0 | 546 | .2 | 4.2 |
| 2 | .0 | * | .4 | 3.2 | 2.7 | .4 | .0 | .0 | .0 | .0 | 842 | .4 | 6.3 |
| 1 | .0 | .0 | .7 | 3.7 | 2.8 | .3 | .0 | .0 | .0 | .0 | 936 | .3 | 7.2 |
| 0 | .0 | .1 | 1.5 | 7.2 | 2.5 | .1 | * | .0 | .0 | .0 | 1442 | .5 | 10.9 |
| -1 | .0 | .1 | 1.5 | 7.3 | 1.9 | * | .0 | .0 | .0 | .0 | 1370 | .4 | 10.5 |
| -2 | .0 | .1 | 3.7 | 8.0 | 1.1 | * | .0 | .0 | .0 | .0 | 1632 | .7 | 12.3 |
| -3 | .0 | .2 | 3.6 | 6.5 | .6 | * | .0 | .0 | .0 | .0 | 1369 | .5 | 10.4 |
| -4 | .0 | .3 | 4.7 | 4.2 | .3 | * | .0 | .0 | .0 | .0 | 1185 | .5 | 9.0 |
| -5 | .0 | .2 | 3.1 | 2.8 | .2 | * | * | .0 | .0 | .0 | 792 | .4 | 5.9 |
| -6 | * | .3 | 2.2 | .8 | * | * | .0 | .0 | .0 | .0 | 416 | .1 | 3.2 |
| -7/-8 | * | .2 | 1.4 | .7 | .1 | .0 | .0 | .0 | .0 | .0 | 304 | .2 | 2.2 |
| -9/-10 | * | .1 | .4 | .1 | * | * | .0 | .0 | .0 | .0 | 81 | .1 | .5 |
| -11/-13 | * | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | 38 | * | .3 |
| -14/-16 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 7 | * | * |
| TOTAL | 6 | 202 | 3009 | 6100 | 2442 | 608 | 159 | 51 | 11 | 3 | 12591 | 607 | 11984 |
| PCT | * | 1.6 | 23.9 | 48.4 | 19.4 | 4.8 | 1.3 | .4 | .1 | * | 100.0 | 4.8 | 95.2 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | * | .0 | .0 | .0 | 1.0 |
| 1-2 | .3 | 2.2 | 1.2 | .0 | .0 | .0 | 3.8 |
| 3-4 | * | .5 | 1.0 | .1 | .0 | .0 | 1.6 |
| 5-6 | .0 | .1 | .3 | .1 | .0 | .0 | .6 |
| 7 | .0 | * | .2 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | * | * | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * |
| 13-16 | .0 | * | .0 | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 3.7 | 2.9 | .3 | .0 | .0 | 7.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | * | .0 | .0 | .0 | .6 |
| 1-2 | .2 | .6 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .1 | .1 | .1 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | * | * | .0 | .0 | * |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 1.1 | .3 | .1 | .0 | .0 | 2.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .4 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | .7 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | * | .0 | .0 | .0 | .0 | * |
| 5-6 | .0 | * | * | .0 | .0 | .0 | .1 |
| 7 | .0 | * | .0 | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.1 | .2 | .0 | .0 | .0 | 1.7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.1 | .0 | .0 | .0 | .0 | 1.4 |
| 1-2 | .3 | 1.1 | .4 | .0 | .0 | .0 | 1.8 |
| 3-4 | * | .1 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.2 | .7 | .0 | .0 | .0 | 3.5 |

PERIOD: (OVER-ALL) 1963-1974

APRIL

TABLE 18 (CONT)

AREA 0032 SAN DIEGO
32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .6 | 1.6 | * | .0 | .0 | .0 | 2.2 | .4 | 1.8 | .1 | .0 | .0 | .0 | 2.4 |
| 1-2 | .2 | 2.0 | .5 | .0 | .0 | .0 | 2.8 | .3 | 3.2 | 1.1 | .0 | .0 | .0 | 4.6 |
| 3-4 | .0 | .5 | .4 | .1 | .0 | .0 | 1.0 | * | .5 | .6 | .1 | .0 | .0 | 1.2 |
| 5-6 | .0 | .1 | .1 | * | .0 | .0 | .2 | * | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 4.2 | 1.0 | .2 | .0 | .0 | 6.2 | .8 | 5.6 | 2.2 | .1 | .0 | .0 | 8.7 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .5 | 2.3 | .2 | .0 | .0 | .0 | 3.0 | .4 | 2.2 | .2 | .0 | .0 | .0 | 2.8 | |
| 1-2 | .7 | 7.6 | 4.7 | .0 | .0 | .0 | 12.9 | .5 | 8.8 | 7.0 | .0 | .0 | .0 | 16.3 | |
| 3-4 | .1 | 1.8 | 4.7 | .8 | .0 | .0 | 7.4 | * | 2.0 | 8.6 | 1.5 | .0 | .0 | 12.1 | |
| 5-6 | * | .2 | 1.1 | .3 | * | .0 | 1.7 | .0 | .5 | 3.1 | .8 | * | .0 | 4.4 | |
| 7 | .0 | * | .8 | .5 | * | .0 | 1.4 | .0 | .2 | 1.6 | .7 | .1 | .0 | 2.6 | |
| 8-9 | .0 | * | .1 | * | * | .0 | .2 | .0 | * | .4 | .5 | * | .0 | .9 | |
| 10-11 | .0 | .0 | .1 | * | * | .0 | .2 | .0 | .0 | .1 | .4 | .1 | .0 | .6 | |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .1 | .1 | * | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 17-19 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.3 | 12.0 | 11.7 | 1.8 | .1 | .0 | 26.9 | .9 | 13.7 | 21.1 | 4.0 | .3 | .0 | 40.0 | 96.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.3 | 10.6 | .6 | .0 | .0 | .0 | 17.5 | |
| 1-2 | 2.9 | 26.1 | 15.2 | .0 | .0 | .0 | 44.2 | |
| 3-4 | .3 | 5.5 | 15.4 | 2.6 | .0 | .0 | 23.9 | |
| 5-6 | * | 1.0 | 4.9 | 1.3 | * | .0 | 7.2 | |
| 7 | .0 | .4 | 2.7 | 1.4 | .1 | .0 | 4.6 | |
| 8-9 | .0 | .1 | .6 | .6 | .1 | .0 | 1.3 | |
| 10-11 | .0 | .0 | .3 | .5 | .1 | .0 | .9 | |
| 12 | .0 | .0 | .1 | .1 | * | .0 | .3 | |
| 13-16 | .0 | * | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 3256 |
| TOT PCT | 9.6 | 43.7 | 39.9 | 6.5 | .4 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.1 | 22.8 | 20.7 | 5.9 | 2.8 | .7 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3845 | 3 |
| 6-7 | * | 3.2 | 7.2 | 4.7 | 2.5 | 1.6 | .5 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1384 | 4 |
| 8-9 | * | 1.1 | 3.0 | 1.8 | 1.6 | .9 | .5 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 632 | 5 |
| 10-11 | .0 | .7 | .7 | .9 | .5 | .4 | .1 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 238 | 5 |
| 12-13 | .0 | .0 | .3 | .1 | .1 | .1 | .1 | .1 | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 50 | 7 |
| >13 | .0 | .0 | .0 | * | .1 | .1 | * | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 20 | 9 |
| INDET | 6.9 | 2.4 | .9 | .3 | .2 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 760 | 1 |
| TOTAL | 627 | 2096 | 2274 | 953 | 535 | 266 | 107 | 34 | 30 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6929 | 3 |
| PCT | 9.0 | 30.2 | 32.8 | 13.8 | 7.7 | 3.8 | 1.5 | .5 | .4 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .0 | .3 | .0 | .0 | .0 | .0 | .4 | .2 | .0 | 5.4 | .0 | 7.6 | | .0 | 86.4 |
| NE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .5 | .0 | 10.2 | .5 | 9.5 | | .0 | 79.2 |
| E | .4 | .0 | .4 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 6.0 | .0 | 11.2 | | .0 | 82.0 |
| SE | .3 | .0 | .8 | .0 | .0 | .0 | .0 | 1.0 | 1.1 | .0 | 5.6 | .0 | 11.0 | | .0 | 81.2 |
| S | .3 | .3 | 1.6 | .0 | .0 | .0 | .1 | 2.2 | .6 | .1 | 4.9 | .2 | 13.4 | | .3 | 76.2 |
| SW | .5 | .5 | .9 | .0 | .0 | .0 | .0 | 1.9 | .6 | .0 | 3.7 | .1 | 9.5 | | .1 | 84.1 |
| W | .4 | .3 | 1.0 | .0 | .0 | .0 | .0 | 1.6 | .4 | * | 3.1 | .1 | 7.3 | | .0 | 87.5 |
| NW | .2 | .2 | .6 | .0 | .0 | .0 | .0 | .9 | .3 | .0 | 2.9 | * | 6.2 | | .0 | 89.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .2 | .2 | .0 | .0 | .0 | .0 | .5 | .5 | .0 | 10.7 | .0 | 13.8 | | .0 | 74.5 |
| TOT PCT | .3 | .3 | .7 | .0 | .0 | .0 | * | 1.2 | .4 | * | 3.8 | .1 | 7.8 | | * | 86.7 |
| TOT OBS: 14223 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .2 | .2 | .3 | .0 | .0 | .0 | .0 | .6 | .2 | .0 | 1.9 | * | 7.4 | | * | 89.8 |
| 06&09 | .3 | .3 | .6 | .0 | .0 | .0 | .0 | 1.1 | .5 | .0 | 3.6 | .0 | 4.8 | | .0 | 89.9 |
| 12&15 | .5 | .4 | 1.6 | .0 | .0 | .0 | * | 2.4 | .4 | .1 | 5.3 | .1 | 8.1 | | .0 | 83.6 |
| 18&21 | .2 | .2 | .5 | .0 | .0 | .0 | .0 | .8 | .3 | * | 4.3 | .1 | 10.3 | | * | 84.1 |
| TOT PCT | .3 | .3 | .7 | .0 | .0 | .0 | * | 1.2 | .4 | * | 3.8 | .1 | 7.9 | | * | 86.6 |
| TOT OBS: 14323 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .8 | 3.0 | 1.8 | .2 | * | .0 | | 5.8 | 9.1 | 3.1 | 4.8 | 6.9 | 6.3 | 8.3 | 9.1 | 5.8 | 3.1 |
| NE | .5 | .8 | .1 | * | .0 | .0 | | 1.3 | 5.2 | .6 | 1.1 | .7 | 1.3 | 2.5 | 3.4 | 1.0 | .6 |
| E | .6 | 1.0 | .2 | .0 | .0 | .0 | | 1.8 | 5.3 | .3 | .6 | 1.6 | 2.2 | 3.1 | 3.7 | 2.0 | 1.0 |
| SE | .8 | 1.4 | .3 | .0 | .0 | .0 | | 2.5 | 5.8 | 1.1 | 1.6 | 2.0 | 2.6 | 2.0 | 5.3 | 3.1 | 2.7 |
| S | 1.1 | 3.6 | .6 | * | .0 | .0 | | 5.3 | 6.5 | 3.9 | 4.4 | 3.7 | 3.9 | 4.7 | 7.9 | 7.3 | 5.5 |
| SW | 1.6 | 5.8 | 1.6 | * | * | .0 | | 10.1 | 7.1 | 10.3 | 10.4 | 6.4 | 7.6 | 6.9 | 9.9 | 11.3 | 15.8 |
| W | 2.2 | 16.2 | 12.3 | 1.2 | * | .0 | | 32.0 | 10.3 | 38.6 | 36.3 | 28.9 | 33.8 | 25.3 | 23.2 | 29.9 | 39.4 |
| NW | 1.8 | 14.8 | 18.4 | 3.0 | .1 | .0 | | 38.2 | 12.3 | 41.3 | 39.3 | 46.1 | 38.2 | 41.3 | 32.5 | 36.2 | 31.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.1 | | | | | | | 3.1 | .0 | .8 | 1.5 | 3.7 | 4.1 | 6.0 | 5.1 | 3.4 | 1.1 |
| TOT OBS | 1847 | 7007 | 5175 | 648 | 22 | 0 | 14699 | | 9.9 | 2453 | 1440 | 1823 | 990 | 1897 | 1792 | 2307 | 1997 |
| TOT PCT | 12.6 | 47.7 | 35.2 | 4.4 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.0 | 3.2 | .5 | * | .0 | | 5.8 | 9.1 | 3.8 | 6.7 | 8.7 | 4.6 |
| NE | 1.0 | .3 | * | * | .0 | | 1.3 | 5.2 | .8 | .9 | 2.9 | .8 |
| E | 1.3 | .5 | * | .0 | .0 | | 1.8 | 5.3 | .4 | 1.8 | 3.4 | 1.5 |
| SE | 1.7 | .8 | * | .0 | .0 | | 2.5 | 5.8 | 1.3 | 2.2 | 3.6 | 2.9 |
| S | 2.9 | 2.3 | .1 | .0 | .0 | | 5.3 | 6.5 | 4.1 | 3.8 | 6.2 | 6.5 |
| SW | 5.0 | 4.8 | .2 | * | .0 | | 10.1 | 7.1 | 10.4 | 6.8 | 8.4 | 13.3 |
| W | 8.5 | 19.4 | 3.9 | .2 | .0 | | 32.0 | 10.3 | 37.7 | 30.6 | 24.2 | 34.3 |
| NW | 6.7 | 22.8 | 8.0 | .7 | .0 | | 38.2 | 12.3 | 40.5 | 43.3 | 37.0 | 33.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.1 | | | | | | 3.1 | .0 | 1.1 | 3.9 | 5.6 | 2.3 |
| TOT OBS | 4732 | 7945 | 1876 | 146 | 0 | 14699 | | 9.9 | 3893 | 2813 | 3689 | 4304 |
| TOT PCT | 32.2 | 54.1 | 12.8 | 1.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 6.3 | 42.0 | 44.7 | 5.8 | .2 | .0 | 11.4 | 100.0 | 3893 |
| 06&09 | 3.9 | 7.7 | 44.6 | 37.0 | 6.5 | .4 | .0 | 10.6 | 100.0 | 2813 |
| 12&15 | 5.6 | 15.0 | 49.7 | 26.5 | 3.2 | .1 | .0 | 8.4 | 100.0 | 3689 |
| 18&21 | 2.3 | 8.8 | 53.1 | 32.9 | 2.9 | .1 | .0 | 9.4 | 100.0 | 4304 |
| TOT | 454 | 1393 | 7007 | 5175 | 648 | 22 | 0 | 9.9 | | 14699 |
| PCT | 3.1 | 9.5 | 47.7 | 35.2 | 4.4 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 2.4 | .4 | 1.2 | 2.3 | | 4.5 |
| NE | .5 | .1 | .1 | .5 | | 4.4 |
| E | .7 | .1 | .4 | .7 | | 4.7 |
| SE | .7 | .2 | .6 | .8 | | 4.9 |
| S | .9 | .3 | 1.0 | 2.5 | | 5.9 |
| SW | 2.0 | .5 | 2.1 | 4.1 | | 5.6 |
| W | 9.7 | 2.6 | 7.2 | 12.4 | | 5.0 |
| NW | 12.9 | 3.8 | 8.3 | 14.2 | | 4.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.0 | .1 | .6 | 1.7 | | 5.3 |
| TOT OBS | 2911 | 775 | 2032 | 3715 | 9433 | 5.0 |
| TOT PCT | 30.9 | 8.2 | 21.5 | 39.4 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | * | .1 | .4 | 1.5 | .9 | .1 | * | .0 | * | 3.1 | |
| NE | * | .0 | .1 | .1 | .3 | .2 | * | .0 | .0 | .0 | .7 | |
| E | * | .0 | * | .1 | .5 | .3 | * | * | * | * | .9 | |
| SE | * | .0 | * | .2 | .6 | .4 | * | * | * | * | 1.1 | |
| S | .1 | .0 | .1 | .3 | 1.7 | .9 | .1 | * | * | * | 1.6 | |
| SW | .1 | .0 | .1 | .6 | 2.9 | 1.6 | .1 | .1 | * | * | 3.1 | |
| W | .3 | * | .5 | 2.2 | 8.1 | 5.1 | .5 | .1 | .1 | .2 | 14.7 | |
| NW | .3 | * | .7 | 3.1 | 9.6 | 5.2 | .7 | .2 | .1 | .2 | 19.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .1 | .3 | 1.0 | .4 | .1 | * | .0 | * | 1.3 | |
| TOT OBS | 97 | 11 | 171 | 680 | 2474 | 1414 | 168 | 49 | 24 | 30 | 4295 | 9433 |
| TOT PCT | 1.0 | .1 | 1.8 | 7.2 | 26.2 | 15.0 | 1.8 | .5 | .3 | .5 | 45.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| * OR >5000 | .9 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| * OR >3500 | 2.1 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| * OR >2000 | 11.4 | 17.8 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| * OR >1000 | 24.1 | 43.0 | 44.2 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 |
| * OR >600 | 26.6 | 49.3 | 51.3 | 51.4 | 51.5 | 51.5 | 51.5 | 51.5 |
| * OR >300 | 27.1 | 50.5 | 53.0 | 53.2 | 53.3 | 53.3 | 53.3 | 53.3 |
| * OR >150 | 27.1 | 50.6 | 53.1 | 53.3 | 53.4 | 53.4 | 53.4 | 53.4 |
| * OR > 0 | 27.1 | 50.7 | 53.3 | 53.8 | 54.1 | 54.2 | 54.4 | 54.4 |
| TOTAL | 2569 | 4803 | 5052 | 5091 | 5120 | 5129 | 5148 | 5156 |

TOTAL NUMBER OF OBS: 9471 PCT FREQ NH <5/8: 45.C

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 20.1 | 7.3 | 9.8 | 4.7 | 3.4 | 4.7 | 7.8 | 6.4 | 34.8 | 1.0 | 9867 |

MAY

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | * | |
| <1/2 | NO PCP | * | * | * | * | * | * | .1 | .1 | .0 | * | .4 | |
| | TOT % | * | * | * | * | * | * | .1 | .1 | .0 | .1 | .4 | |
| | PCP | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | * | |
| 1/2<1 | NO PCP | .1 | * | * | .0 | .1 | .1 | .1 | .1 | .0 | * | .4 | |
| | TOT % | .1 | * | * | .0 | .1 | .1 | .1 | .1 | .0 | * | .5 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| 1<2 | NO PCP | .1 | * | * | * | .1 | .1 | .2 | .2 | .0 | * | .8 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .2 | .0 | * | .8 | |
| | PCP | * | .0 | * | * | * | .1 | .1 | .1 | .0 | .0 | .3 | |
| 2<5 | NO PCP | .3 | .1 | .1 | .1 | .3 | .5 | 1.2 | 1.2 | .0 | .2 | 4.1 | |
| | TOT % | .3 | .1 | .1 | .1 | .4 | .6 | 1.3 | 1.3 | .0 | .2 | 4.4 | |
| | PCP | * | .0 | .0 | * | .1 | .1 | .3 | .2 | .0 | * | .6 | |
| 5<10 | NO PCP | 2.0 | .6 | .8 | .9 | 2.1 | 4.1 | 11.2 | 11.6 | .0 | 1.3 | 34.6 | |
| | TOT % | 2.0 | .6 | .8 | .9 | 2.2 | 4.2 | 11.5 | 11.8 | .0 | 1.3 | 35.3 | |
| | PCP | .0 | .0 | * | * | * | * | .1 | .1 | .0 | .0 | .2 | |
| 10+ | NO PCP | 3.3 | .6 | .9 | 1.4 | 2.6 | 5.1 | 18.7 | 24.5 | .0 | 1.3 | 58.4 | |
| | TOT % | 3.3 | .6 | .9 | 1.4 | 2.6 | 5.1 | 18.8 | 24.6 | .0 | 1.3 | 58.6 | |
| | TOT OBS | | | | | | | | | | | | 14212 |
| | TOT PCT | 9.9 | 1.3 | 1.8 | 2.5 | 5.3 | 10.1 | 32.1 | 38.1 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | * | * | .0 | * | * | * | .0 | .1 | .2 | |
| <1/2 | 4-10 | * | * | * | * | * | * | .1 | .1 | .0 | | .2 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | * | * | * | * | * | .2 | .1 | .0 | .1 | .5 | |
| | 0-3 | * | * | * | .0 | * | * | * | * | .0 | * | .2 | |
| 1/2<1 | 4-10 | * | .0 | * | .0 | * | * | * | * | .0 | | .2 | |
| | 11-21 | * | .0 | .0 | .0 | * | * | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | * | .0 | .1 | .1 | .1 | .1 | .0 | * | .5 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .2 | |
| 1<2 | 4-10 | * | * | * | * | .1 | .1 | .2 | .1 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | * | .0 | * | .1 | .1 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .1 | * | * | * | .1 | .1 | .3 | .3 | .0 | * | 1.0 | |
| | 0-3 | * | * | * | .1 | .1 | .1 | .2 | .1 | .0 | .2 | .8 | |
| 2<5 | 4-10 | .2 | .1 | .1 | .1 | .3 | .5 | .9 | .7 | .0 | | 2.8 | |
| | 11-21 | .1 | * | * | * | * | .1 | .3 | .5 | .0 | | 1.0 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .3 | .1 | .1 | .2 | .4 | .6 | 1.4 | 1.3 | .0 | .2 | 4.6 | |
| | 0-3 | .3 | .2 | .3 | .3 | .4 | .5 | .8 | .7 | .0 | 1.3 | 4.8 | |
| 5<10 | 4-10 | 1.1 | .3 | .4 | .5 | 1.5 | 2.9 | 6.2 | 5.1 | .0 | | 18.1 | |
| | 11-21 | .5 | * | .1 | .1 | .2 | .6 | 4.1 | 5.2 | .0 | | 10.8 | |
| | 22+ | .1 | * | .0 | .0 | .0 | * | .3 | .7 | .0 | | 1.0 | |
| | TOT % | 2.0 | .6 | .7 | .9 | 2.1 | 4.1 | 11.3 | 11.7 | .0 | 1.3 | 34.8 | |
| | 0-3 | .4 | .2 | .3 | .4 | .6 | .9 | 1.1 | 1.0 | .0 | 1.4 | 6.3 | |
| 10+ | 4-10 | 1.7 | .3 | .5 | .7 | 1.7 | 3.3 | 8.8 | 8.7 | .0 | | 25.7 | |
| | 11-21 | 1.1 | * | .1 | .2 | .3 | .9 | 7.9 | 12.6 | .0 | | 23.1 | |
| | 22+ | .1 | * | .0 | .0 | * | * | .9 | 2.4 | .0 | | 3.4 | |
| | TOT % | 3.3 | .6 | .9 | 1.4 | 2.6 | 5.1 | 18.7 | 24.6 | .0 | 1.4 | 58.6 | |
| | TOT OBS | | | | | | | | | | | | 14536 |
| | TOT PCT | 5.8 | 1.3 | 1.8 | 2.5 | 5.3 | 10.1 | 32.0 | 38.1 | .0 | 3.1 | 100.0 | |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .3 | .1 | 1.5 | 6.3 | 22.4 | 10.7 | 1.3 | .8 | .2 | .6 | 44.2 | 55.8 | 2403 |
| 06&09 | .9 | .1 | 1.5 | 6.9 | 23.5 | 14.5 | 1.9 | .3 | .4 | .4 | 50.2 | 49.8 | 2223 |
| 12&15 | 2.0 | .2 | 2.5 | 7.9 | 29.8 | 18.8 | 1.6 | .4 | .3 | .5 | 64.1 | 35.9 | 2315 |
| 18&21 | .9 | .1 | 1.7 | 7.2 | 27.3 | 14.9 | 2.2 | .6 | .1 | .6 | 55.7 | 44.3 | 2697 |
| TOT | 97 | 11 | 172 | 683 | 2487 | 1419 | 171 | 49 | 24 | 50 | 5163 | 4475 | 9638 |
| PCT | 1.0 | .1 | 1.8 | 7.1 | 25.8 | 14.7 | 1.8 | .5 | .2 | .5 | 53.6 | 46.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .3 | .1 | 1.0 | 3.8 | 32.9 | 61.9 | 3868 |
| 06&09 | .4 | .4 | .5 | 2.5 | 36.1 | 60.2 | 2805 |
| 12&15 | 1.0 | 1.1 | 1.6 | 5.9 | 36.3 | 54.1 | 3674 |
| 18&21 | .3 | .4 | 1.2 | 5.9 | 34.0 | 58.2 | 4294 |
| TOT | 69 | 72 | 162 | 685 | 5082 | 8571 | 14641 |
| PCT | .5 | .5 | 1.1 | 4.7 | 34.7 | 58.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .3 | 1.9 | 9.5 | 36.5 | 54.1 | 2344 |
| 06&09 | .9 | 2.5 | 11.0 | 40.3 | 48.7 | 2203 |
| 12&15 | 2.1 | 4.8 | 14.7 | 50.5 | 34.8 | 2292 |
| 18&21 | .9 | 2.9 | 13.3 | 44.7 | 42.1 | 2632 |
| TOT | 95 | 286 | 1151 | 4076 | 4244 | 9471 |
| PCT | 1.0 | 3.0 | 12.2 | 43.0 | 44.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | * | * | .0 | * | * | .0 | .0 | 5 | * |
| 75/79 | * | .1 | .1 | .1 | * | .1 | * | .0 | 36 | .3 |
| 70/74 | .0 | .1 | .1 | .4 | .5 | .4 | .1 | .1 | 193 | 1.6 |
| 65/69 | * | * | .1 | .6 | 2.1 | 3.2 | 1.9 | .7 | 1027 | 8.8 |
| 60/64 | .0 | .0 | .1 | .8 | 6.2 | 16.0 | 15.6 | 4.4 | 5043 | 43.1 |
| 55/59 | .0 | .0 | * | .2 | 2.1 | 12.7 | 21.4 | 7.0 | 5088 | 43.5 |
| 50/54 | .0 | .0 | .0 | * | .1 | .4 | 1.3 | .9 | 311 | 2.7 |
| TOTAL | 5 | 17 | 45 | 258 | 1301 | 3842 | 4712 | 1523 | 11703 | 100.0 |
| PCT | * | .1 | .4 | 2.2 | 11.1 | 32.8 | 40.3 | 13.0 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | * | * | .0 | * | * | .0 | .0 |
| * | * | .0 | * | * | * | * | .1 | .0 | * |
| .1 | * | * | .1 | .1 | .3 | .3 | .6 | .0 | .1 |
| .5 | .1 | .2 | .3 | .5 | 1.2 | 3.0 | 2.8 | .0 | .1 |
| 2.4 | .6 | .7 | 1.3 | 2.7 | 5.5 | 14.2 | 14.3 | .0 | 1.5 |
| 2.6 | .6 | .6 | .8 | 1.8 | 3.3 | 14.0 | 18.7 | .0 | 1.1 |
| .1 | * | .1 | * | * | .1 | .8 | 1.4 | .0 | * |
| 5.8 | 1.4 | 1.6 | 2.5 | 5.3 | 10.3 | 32.3 | 37.9 | .0 | 2.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 72 | 68 | 60 | 56 | 54 | 50 | 61.1 | 3896 |
| 06&09 | 75 | 66 | 64 | 58 | 55 | 53 | 48 | 58.7 | 2830 |
| 12&15 | 81 | 69 | 64 | 59 | 54 | 52 | 50 | 59.0 | 3714 |
| 18&21 | 82 | 72 | 68 | 61 | 56 | 54 | 48 | 61.5 | 4302 |
| TOT | 82 | 71 | 67 | 60 | 55 | 53 | 48 | 60.2 | 14742 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 3.2 | 12.1 | 35.2 | 39.1 | 10.4 | 79 | 3195 |
| 06&09 | .0 | .6 | 6.1 | 27.9 | 48.4 | 16.9 | 83 | 2147 |
| 12&15 | .0 | 1.8 | 8.0 | 28.2 | 43.9 | 18.2 | 82 | 2940 |
| 18&21 | .1 | 4.4 | 16.0 | 37.2 | 33.4 | 8.9 | 78 | 3509 |
| TOT | 5 | 322 | 1310 | 3859 | 4752 | 1543 | 80 | 11791 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | 3 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | * | * | * | .1 | * | * | 25 | * | .2 |
| 11/13 | .0 | .0 | .0 | * | * | .2 | .1 | .1 | * | .0 | 59 | * | .4 |
| 9/10 | .0 | .0 | .0 | * | .2 | .2 | .3 | * | * | .0 | 109 | * | .8 |
| 7/8 | .0 | * | .0 | .1 | .5 | 1.0 | .4 | * | .0 | .0 | 267 | * | 2.0 |
| 6 | .0 | .0 | * | .2 | .6 | .6 | .1 | * | .0 | .0 | 202 | * | 1.5 |
| 5 | .0 | * | * | .3 | 1.0 | .9 | .2 | * | .0 | .0 | 326 | .1 | 2.4 |
| 4 | .0 | * | .1 | .7 | 1.8 | .9 | .1 | .0 | .0 | .0 | 471 | .2 | 3.4 |
| 3 | .0 | .0 | .1 | 1.0 | 2.1 | 1.2 | .1 | .0 | .0 | .0 | 593 | .1 | 4.4 |
| 2 | .0 | * | .2 | 2.6 | 3.6 | .8 | * | .0 | .0 | .0 | 960 | .4 | 7.0 |
| 1 | .0 | .0 | .6 | 2.9 | 3.6 | .7 | * | .0 | .0 | .0 | 1014 | .3 | 7.5 |
| 0 | * | * | 1.0 | 6.1 | 4.8 | .6 | * | .0 | .0 | .0 | 1641 | .4 | 12.2 |
| -1 | .0 | * | 1.1 | 6.2 | 3.7 | .3 | .0 | .0 | .0 | .0 | 1471 | .5 | 10.8 |
| -2 | .0 | .1 | 2.1 | 7.2 | 3.2 | .1 | .0 | .0 | .0 | .0 | 1653 | .5 | 12.2 |
| -3 | .0 | * | 1.9 | 6.8 | 2.2 | .1 | * | .0 | .0 | .0 | 1437 | .5 | 10.6 |
| -4 | .0 | .1 | 2.3 | 5.3 | 1.1 | * | .0 | .0 | .0 | .0 | 1153 | .4 | 8.4 |
| -5 | .0 | * | 1.5 | 3.5 | .6 | * | .0 | .0 | .0 | .0 | 735 | .2 | 5.4 |
| -6 | .0 | * | 1.2 | 1.7 | .3 | * | .0 | .0 | .0 | .0 | 428 | .2 | 3.1 |
| -7/-8 | .0 | .1 | .9 | 1.4 | .2 | * | * | .0 | .0 | .0 | 341 | .1 | 2.5 |
| -9/-10 | .0 | * | .3 | .3 | .1 | * | .0 | .0 | .0 | .0 | 87 | .1 | .6 |
| -11/-13 | .0 | * | * | .2 | .1 | * | .0 | .0 | .0 | .0 | 41 | * | .3 |
| -14/-16 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 6 | .0 | * |
| TOTAL | 2 | 60 | 1740 | 6099 | 3867 | 989 | 214 | 38 | 12 | 1 | 13022 | 515 | 12507 |
| PCT | * | .5 | 13.4 | 46.8 | 29.7 | 7.6 | 1.6 | .3 | .1 | * | 100.0 | 4.0 | 96.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.1 | * | .0 | .0 | .0 | 1.5 |
| 1-2 | .4 | 1.6 | .7 | .0 | .0 | .0 | 2.6 |
| 3-4 | * | .7 | .5 | .1 | .0 | .0 | 1.3 |
| 5-6 | .0 | .2 | .1 | .1 | .0 | .0 | .4 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | * | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 3.5 | 1.4 | .2 | * | .0 | 5.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .2 | * | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .6 | .1 | .0 | .0 | .0 | 1.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .4 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | .3 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | .9 | .2 | .0 | .0 | .0 | 1.4 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .6 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .2 | .6 | .3 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 1.3 | .3 | .0 | .0 | .0 | 2.2 |

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 1.4 | * | .0 | .0 | .0 | 1.8 | .6 | 2.1 | .1 | .0 | .0 | .0 | 2.8 |
| 1-2 | .2 | 1.6 | .3 | .0 | .0 | .0 | 2.1 | .4 | 3.6 | 1.1 | .0 | .0 | .0 | 5.0 |
| 3-4 | .0 | .3 | .2 | .0 | .0 | .0 | .5 | .1 | .8 | .6 | * | .0 | .0 | 1.5 |
| 5-6 | * | .0 | .0 | .0 | .0 | .0 | * | .0 | * | * | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 3.2 | .5 | .0 | .0 | .0 | 4.4 | 1.0 | 6.6 | 1.8 | * | .0 | .0 | 9.3 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | 1.0 | 3.8 | .2 | .0 | .0 | .0 | 5.0 | .6 | 3.2 | .1 | .0 | .0 | .0 | 3.9 | |
| 1-2 | .8 | 8.9 | 5.7 | .0 | .0 | .0 | 15.4 | 1.1 | 8.5 | 7.3 | .0 | .0 | .0 | 16.9 | |
| 3-4 | .1 | 2.8 | 5.1 | .4 | .0 | .0 | 8.4 | .2 | 3.8 | 8.3 | 1.0 | .0 | .0 | 13.2 | |
| 5-6 | * | .4 | 1.1 | .3 | .0 | .0 | 1.8 | * | .8 | 2.6 | .6 | .0 | .0 | 4.0 | |
| 7 | .0 | .1 | .3 | .0 | .0 | .0 | .4 | .0 | .1 | 1.4 | .6 | .0 | .0 | 2.1 | |
| 8-9 | .0 | .0 | * | .1 | .0 | .0 | .1 | .0 | .1 | .5 | .3 | .0 | .0 | .9 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .2 | * | .0 | .0 | .2 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 2.0 | 15.9 | 12.4 | .7 | .0 | .0 | 31.0 | 1.9 | 16.4 | 20.5 | 2.8 | * | .0 | 41.6 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.0 | 12.8 | .4 | .0 | .0 | .0 | 20.3 | |
| 1-2 | 3.5 | 25.2 | 15.4 | .0 | .0 | .0 | 44.1 | |
| 3-4 | .4 | 8.5 | 14.9 | 1.4 | .0 | .0 | 25.2 | |
| 5-6 | .1 | 1.4 | 3.8 | .9 | .0 | .0 | 6.2 | |
| 7 | .0 | .2 | 1.7 | .7 | .0 | .0 | 2.6 | |
| 8-9 | .0 | .1 | .5 | .4 | .0 | .0 | 1.0 | |
| 10-11 | .0 | * | .2 | * | .0 | .0 | .2 | |
| 12 | .0 | .0 | * | .1 | * | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 2980 |
| TOT PCT | 11.1 | 48.3 | 37.0 | 3.6 | * | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.0 | 26.7 | 23.0 | 5.1 | 1.6 | .4 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4179 | 3 |
| 6-7 | * | 3.4 | 6.0 | 4.1 | 2.0 | .6 | .3 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1182 | 4 |
| 8-9 | * | 1.6 | 2.6 | 1.5 | 1.2 | .6 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 565 | 5 |
| 10-11 | .1 | .7 | .6 | .6 | .5 | .3 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 217 | 5 |
| 12-13 | .0 | .0 | .3 | .2 | .1 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 55 | 6 |
| >13 | .0 | .0 | .0 | .1 | * | .1 | * | .0 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 20 | 9 |
| INDET | 8.7 | 2.2 | .8 | .3 | .1 | .2 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 874 | 1 |
| TOTAL | 766 | 2459 | 2360 | 830 | 391 | 156 | 64 | 29 | 30 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7092 | 3 |
| PCT | 10.8 | 34.7 | 33.3 | 11.7 | 5.5 | 2.2 | .9 | .4 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1889-1973

AREA 0032 SAN DIEGO
32.8N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG | SNOW | NO SIG WEA |
| N | .2 | .2 | .8 | .0 | .0 | .0 | .0 | 1.1 | .2 | .0 | 10.2 | .6 | 10.2 | | .0 | | 77.8 |
| NE | 1.3 | .0 | 2.6 | .0 | .0 | .0 | .0 | 3.9 | .8 | 1.0 | 16.1 | .8 | 14.2 | | .0 | | 64.2 |
| E | .7 | .0 | 1.9 | .0 | .0 | .0 | .0 | 2.6 | .6 | .0 | 15.5 | 1.0 | 13.5 | | .0 | | 66.9 |
| SE | .3 | .1 | 3.0 | .0 | .0 | .0 | .0 | 3.4 | .6 | .0 | 9.2 | .6 | 14.3 | | .0 | | 71.9 |
| S | .3 | .2 | 1.3 | .0 | .0 | .0 | .0 | 1.8 | .9 | .0 | 8.4 | .1 | 15.1 | | .0 | | 73.7 |
| SW | .2 | .2 | 1.2 | .0 | .0 | .0 | .0 | 1.6 | .4 | .0 | 6.4 | .1 | 12.1 | | .0 | | 79.4 |
| W | .1 | .1 | 1.2 | .0 | .0 | .0 | .0 | 1.4 | .4 | * | 6.3 | .2 | 7.8 | | .0 | | 83.9 |
| NW | .1 | .1 | 1.2 | .0 | .0 | .0 | .0 | 1.4 | .4 | * | 5.4 | .1 | 6.4 | | .0 | | 86.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | | .0 |
| CALM | .0 | .0 | 1.1 | .0 | .0 | .0 | .5 | 1.6 | .3 | .0 | 13.6 | .3 | 13.8 | | .0 | | 70.2 |
| TOT PCT | .2 | .1 | 1.3 | .0 | .0 | .0 | * | 1.6 | .5 | * | 7.0 | .2 | 9.1 | | .0 | | 81.7 |
| TOT OBS: 13486 | | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG | SNOW | NO SIG WEA |
| 00&03 | * | .0 | .4 | .0 | .0 | .0 | .0 | .4 | .2 | * | 4.5 | .2 | 8.9 | | .0 | | 85.8 |
| 06&09 | .3 | .2 | .9 | .0 | .0 | .0 | .0 | 1.4 | .6 | * | 6.3 | .3 | 4.9 | | .0 | | 86.5 |
| 12&15 | .3 | .2 | 2.9 | .0 | .0 | .0 | .1 | 3.5 | .6 | * | 9.0 | .2 | 10.0 | | .0 | | 76.7 |
| 18&21 | .1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.1 | .5 | * | 7.9 | .1 | 11.0 | | .0 | | 79.3 |
| TOT PCT | .2 | .1 | 1.3 | .0 | .0 | .0 | * | 1.6 | .5 | * | 7.0 | .2 | 9.1 | | .0 | | 81.7 |
| TOT OBS: 13549 | | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .9 | 3.0 | 1.4 | .1 | .0 | .0 | | 5.3 | 8.6 | 2.9 | 5.3 | 6.8 | 6.6 | 7.1 | 7.9 | 4.4 | 3.6 |
| NE | .5 | .7 | .1 | .0 | * | .0 | | 1.4 | 5.4 | .6 | .8 | 1.1 | 1.3 | 1.4 | 3.5 | 1.5 | 1.0 |
| E | .5 | .9 | .1 | * | .0 | .0 | | 1.5 | 5.5 | .4 | .7 | .9 | 2.0 | 2.7 | 2.7 | 2.3 | .8 |
| SE | .8 | 2.5 | .5 | * | .0 | .0 | | 3.8 | 6.4 | 1.8 | 2.9 | 2.6 | 3.1 | 4.5 | 6.6 | 5.6 | 3.2 |
| S | 1.3 | 5.4 | 1.0 | * | * | .0 | | 7.7 | 6.8 | 6.6 | 5.2 | 5.7 | 6.0 | 5.4 | 12.1 | 10.0 | 9.0 |
| SW | 1.9 | 8.2 | 1.6 | * | * | .0 | | 11.7 | 6.9 | 12.3 | 11.7 | 6.8 | 9.1 | 7.8 | 12.3 | 12.1 | 10.8 |
| W | 2.6 | 16.9 | 10.1 | .6 | * | .0 | | 30.3 | 9.4 | 38.4 | 34.0 | 29.7 | 30.5 | 24.4 | 20.4 | 27.6 | 35.5 |
| NW | 2.0 | 15.3 | 19.7 | 2.2 | .1 | .0 | | 35.2 | 11.6 | 35.7 | 36.9 | 43.1 | 37.7 | 42.3 | 28.9 | 33.9 | 26.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.0 | | | | | | | 3.0 | .0 | 1.3 | 2.5 | 3.2 | 3.8 | 4.4 | 5.5 | 2.5 | 1.9 |
| TOT OBS | 1883 | 7412 | 4287 | 417 | 13 | 0 | 14012 | | 9.1 | 2424 | 1276 | 1725 | 848 | 1840 | 1774 | 2157 | 1968 |
| TOT PCT | 13.4 | 52.9 | 30.6 | 3.0 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.3 | 2.6 | .5 | * | .0 | | 5.3 | 8.6 | 3.7 | 6.7 | 7.5 | 4.0 |
| NE | 1.0 | .3 | * | * | .0 | | 1.4 | 5.4 | .7 | 1.1 | 2.4 | 1.3 |
| E | 1.0 | .5 | * | .0 | .0 | | 1.5 | 5.5 | .5 | 1.3 | 2.7 | 1.6 |
| SE | 2.3 | 1.4 | .1 | .0 | .0 | | 3.8 | 6.4 | 2.2 | 2.8 | 5.5 | 4.4 |
| S | 4.1 | 3.6 | .1 | * | .0 | | 7.7 | 6.8 | 6.1 | 5.8 | 8.7 | 9.5 |
| SW | 5.9 | 5.6 | .1 | * | .0 | | 11.7 | 6.9 | 12.1 | 7.6 | 10.0 | 15.3 |
| W | 9.3 | 18.4 | 2.4 | .1 | .0 | | 30.3 | 9.4 | 36.9 | 30.0 | 22.5 | 31.4 |
| NW | 7.5 | 21.0 | 6.4 | .4 | .0 | | 35.2 | 11.6 | 36.1 | 41.3 | 35.7 | 30.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.0 | | | | | | 3.0 | .0 | 1.7 | 3.4 | 4.9 | 2.2 |
| TOT OBS | 5104 | 7482 | 1343 | 83 | 0 | 14012 | | 9.1 | 3700 | 2573 | 3614 | 4125 |
| TOT PCT | 36.4 | 53.4 | 9.6 | .6 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1889-1973

AREA 0932 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 7.1 | 30.5 | 36.6 | 3.9 | .1 | .0 | 10.1 | 100.0 | 3700 |
| 06&09 | 3.4 | 8.7 | 47.7 | 35.6 | 4.5 | .1 | .0 | 9.9 | 100.0 | 2573 |
| 12&15 | 4.9 | 15.7 | 53.8 | 23.2 | 2.3 | .1 | .0 | 7.9 | 100.0 | 3614 |
| 18&21 | 2.2 | 9.9 | 57.5 | 28.5 | 1.8 | * | .0 | 8.7 | 100.0 | 4125 |
| TOT | 421 | 1462 | 7412 | 4287 | 417 | 13 | 0 | 9.1 | | 14012 |
| PCT | 3.0 | 10.4 | 52.9 | 30.6 | 3.0 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 1.2 | .3 | 1.3 | 2.8 | | 5.7 |
| NE | .3 | .1 | .2 | .8 | | 5.8 |
| E | .3 | .1 | .3 | 1.0 | | 6.0 |
| SE | .6 | .2 | .7 | 2.4 | | 6.4 |
| S | .8 | .3 | 1.3 | 4.2 | | 6.6 |
| SW | 1.7 | .5 | 1.9 | 5.4 | | 6.1 |
| W | 7.9 | 2.1 | 6.2 | 14.8 | | 5.5 |
| NW | 9.7 | 2.9 | 7.0 | 17.9 | | 5.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .1 | .5 | 1.8 | | 6.3 |
| TOT OBS | 2033 | 575 | 1714 | 4508 | 8830 | 5.7 |
| TOT PCT | 23.0 | 6.5 | 19.4 | 51.1 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | * | .2 | .7 | 2.1 | .7 | .1 | * | * | * | 1.7 | |
| NE | * | .0 | .1 | .2 | .4 | .2 | * | .0 | * | .0 | .4 | |
| E | .1 | .0 | .1 | .3 | .7 | .2 | * | .0 | .0 | .0 | .6 | |
| SE | .1 | * | .2 | .6 | 1.7 | .6 | * | .0 | * | * | .8 | |
| S | .2 | * | .3 | .9 | 3.1 | .8 | .1 | * | * | .0 | 1.3 | |
| SW | .2 | * | .3 | 1.2 | 3.8 | 1.4 | .1 | * | * | .0 | 2.5 | |
| W | .5 | * | .9 | 3.6 | 10.0 | 4.3 | .4 | .1 | .1 | * | 10.9 | |
| NW | .6 | .1 | 1.5 | 4.9 | 11.6 | 4.2 | .7 | .1 | .1 | .1 | 13.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .1 | .4 | 1.0 | .5 | * | * | .0 | .0 | .7 | |
| TOT OBS | 171 | 19 | 307 | 1125 | 3027 | 1131 | 131 | 32 | 19 | 8 | 2860 | 8830 |
| TOT PCT | 1.9 | .2 | 3.5 | 12.7 | 34.3 | 12.8 | 1.5 | .4 | .2 | .1 | 32.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .2 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| * OR >5000 | .5 | .6 | .7 | .7 | .7 | .7 | .7 | .7 |
| * OR >3500 | 1.5 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| * OR >2000 | 9.1 | 14.7 | 14.9 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| * OR >1000 | 24.9 | 47.4 | 49.1 | 49.2 | 49.3 | 49.3 | 49.3 | 49.3 |
| * OR >600 | 29.2 | 58.4 | 61.6 | 61.9 | 62.0 | 62.0 | 62.0 | 62.0 |
| * OR >300 | 29.9 | 60.6 | 64.6 | 65.3 | 65.4 | 65.5 | 65.5 | 65.5 |
| * OR >150 | 29.9 | 60.7 | 64.8 | 65.4 | 65.6 | 65.7 | 65.7 | 65.7 |
| * OR > 0 | 30.0 | 60.9 | 65.3 | 66.0 | 66.6 | 66.9 | 67.4 | 67.6 |
| TOTAL | 2650 | 5390 | 5776 | 5843 | 5896 | 5923 | 5963 | 5980 |

TOTAL NUMBER OF OBS: 8847

PCT FREQ NM <5/8: 32.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 12.8 | 5.1 | 7.7 | 3.7 | 2.8 | 3.1 | 7.9 | 8.1 | 47.1 | 1.7 | 9085 |

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1889-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | * | * | .0 | * | * | * | * | .0 | * | .1 | |
| | NO PCP | .1 | * | * | .1 | .1 | .1 | .3 | .2 | .0 | .1 | 1.0 | |
| | TOT % | .1 | * | .1 | .1 | .1 | .1 | .3 | .2 | .0 | .1 | 1.0 | |
| 1/2<1 | PCP | * | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | * | |
| | NO PCP | .1 | * | * | .1 | .1 | .1 | .2 | .2 | .0 | * | .8 | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .2 | .2 | .0 | * | .9 | |
| 1<2 | PCP | * | * | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | .1 | .1 | .1 | .2 | .3 | .5 | .4 | .0 | .1 | 1.9 | |
| | TOT % | .2 | .1 | .1 | .1 | .3 | .3 | .5 | .4 | .0 | .1 | 2.0 | |
| 2<5 | PCP | * | .0 | * | * | * | .1 | .1 | .1 | .0 | * | .4 | |
| | NO PCP | .5 | .1 | .2 | .4 | .7 | 1.1 | 1.7 | 1.7 | .0 | .2 | 6.5 | |
| | TOT % | .5 | .1 | .2 | .4 | .7 | 1.1 | 1.8 | 1.8 | .0 | .2 | 6.9 | |
| 5<10 | PCP | * | * | * | .1 | .1 | .1 | .2 | .3 | .0 | * | .8 | |
| | NO PCP | 2.0 | .6 | .7 | 1.8 | 3.7 | 5.3 | 12.5 | 13.2 | .0 | 1.3 | 41.0 | |
| | TOT % | 2.0 | .6 | .7 | 1.9 | 3.7 | 5.4 | 12.7 | 13.4 | .0 | 1.3 | 41.8 | |
| 10+ | PCP | * | * | * | * | * | * | .1 | .1 | .0 | .0 | .2 | |
| | NO PCP | 2.5 | .5 | .5 | 1.4 | 2.8 | 4.6 | 14.7 | 19.2 | .0 | 1.0 | 47.2 | |
| | TOT % | 2.5 | .5 | .5 | 1.4 | 2.9 | 4.6 | 14.8 | 19.3 | .0 | 1.0 | 47.5 | |
| | TOT OBS | | | | | | | | | | | | 13479 |
| | TOT PCT | 5.4 | 1.4 | 1.6 | 3.9 | 7.8 | 11.7 | 30.2 | 35.3 | .0 | 2.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | * | * | * | * | * | * | .1 | .0 | .1 | .3 | |
| | 4-10 | .1 | * | * | * | .1 | .1 | .2 | .1 | .0 | | .6 | |
| | 11-21 | * | .0 | .0 | * | * | * | .1 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .3 | .3 | .0 | .1 | 1.2 | |
| 1/2<1 | 0-3 | * | * | * | * | .1 | * | * | * | .0 | * | .3 | |
| | 4-10 | .1 | * | * | .1 | .1 | .1 | .2 | .1 | .0 | | .6 | |
| | 11-21 | * | .0 | .0 | * | * | * | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .1 | * | * | .1 | .2 | .1 | .2 | .2 | .0 | * | 1.0 | |
| 1<2 | 0-3 | .1 | * | * | * | * | .1 | .1 | .1 | .0 | .1 | .6 | |
| | 4-10 | .1 | .1 | * | .1 | .2 | .3 | .4 | .3 | .0 | | 1.5 | |
| | 11-21 | * | * | * | * | * | * | .1 | .1 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .2 | .1 | .1 | .1 | .3 | .4 | .6 | .5 | .0 | .1 | 2.3 | |
| 2<5 | 0-3 | .2 | * | * | .1 | .1 | .3 | .3 | .3 | .0 | .3 | 1.6 | |
| | 4-10 | .2 | .1 | .1 | .2 | .5 | .8 | 1.3 | 1.1 | .0 | | 4.3 | |
| | 11-21 | .1 | * | * | .1 | .1 | .1 | .3 | .6 | .0 | | 1.2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | | .1 | |
| | TOT % | .5 | .1 | .2 | .4 | .7 | 1.2 | 1.9 | 1.9 | .0 | .3 | 7.2 | |
| 5<10 | 0-3 | .4 | .2 | .2 | .4 | .6 | .8 | 1.2 | .8 | .0 | 1.3 | 6.0 | |
| | 4-10 | 1.2 | .3 | .4 | 1.2 | 2.6 | 3.7 | 7.2 | 6.0 | .0 | | 22.6 | |
| | 11-21 | .4 | .1 | .1 | .2 | .4 | .7 | 4.0 | 5.7 | .0 | | 11.6 | |
| | 22+ | * | .0 | * | * | * | .0 | .2 | .6 | .0 | | .9 | |
| | TOT % | 2.0 | .6 | .7 | 1.8 | 3.7 | 5.3 | 12.5 | 13.2 | .0 | 1.3 | 41.1 | |
| 10+ | 0-3 | .2 | .2 | .2 | .3 | .4 | .5 | .9 | .6 | .0 | 1.1 | 4.5 | |
| | 4-10 | 1.3 | .3 | .3 | .9 | 2.0 | 3.3 | 7.7 | 7.6 | .0 | | 23.4 | |
| | 11-21 | .8 | .1 | * | .2 | .4 | .8 | 5.7 | 9.2 | .0 | | 17.2 | |
| | 22+ | .1 | * | .0 | * | * | * | .4 | 1.6 | .0 | | 2.2 | |
| | TOT % | 2.5 | .5 | .5 | 1.4 | 2.8 | 4.6 | 14.7 | 19.2 | .0 | 1.1 | 47.3 | |
| | TOT OBS | | | | | | | | | | | | 13848 |
| | TOT PCT | 5.3 | 1.4 | 1.5 | 3.9 | 7.7 | 11.7 | 30.3 | 35.3 | .0 | 2.9 | 100.0 | |

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PERIOD: (PRIMARY) 1943-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 1.3 | .3 | 3.0 | 10.2 | 29.9 | 9.7 | 1.4 | .4 | .3 | * | 56.5 | 43.5 | 2177 |
| 06E09 | 2.2 | .1 | 3.1 | 10.7 | 31.9 | 12.0 | 1.1 | .2 | * | .1 | 61.5 | 38.5 | 2065 |
| 12E15 | 2.5 | .2 | 3.9 | 15.3 | 39.0 | 15.9 | 1.4 | .1 | .2 | .2 | 78.9 | 21.1 | 2157 |
| 18E21 | 1.8 | .2 | 3.7 | 14.1 | 35.3 | 13.2 | 2.0 | .6 | .3 | .0 | 71.3 | 28.7 | 2509 |
| TOT | 173 | 19 | 308 | 1128 | 3036 | 1134 | 133 | 32 | 19 | 8 | 5990 | 2918 | 8908 |
| PCT | 1.9 | .2 | 3.5 | 12.7 | 34.1 | 12.7 | 1.5 | .4 | .2 | .1 | 67.2 | 32.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00E03 | .8 | .7 | 1.8 | 6.0 | 40.0 | 50.8 | 3674 |
| 06E09 | 1.2 | .7 | .8 | 4.7 | 40.4 | 52.1 | 3555 |
| 12E15 | 1.9 | 1.9 | 3.6 | 8.6 | 41.8 | 42.3 | 3590 |
| 18E21 | .8 | .8 | 2.8 | 8.6 | 41.5 | 45.4 | 4097 |
| TOT | 163 | 145 | 326 | 1001 | 5703 | 6578 | 13916 |
| PCT | 1.2 | 1.0 | 2.3 | 7.2 | 41.0 | 47.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00E03 | 1.2 | 4.5 | 16.6 | 41.0 | 42.4 | 2158 |
| 06E09 | 2.2 | 5.5 | 18.2 | 43.8 | 38.0 | 2052 |
| 12E15 | 2.4 | 6.9 | 24.7 | 54.9 | 20.5 | 2145 |
| 18E21 | 1.8 | 6.0 | 23.3 | 49.4 | 27.3 | 2492 |
| TOT | 169 | 510 | 1843 | 4190 | 2814 | 8847 |
| PCT | 1.9 | 5.8 | 20.8 | 47.4 | 31.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | * | .0 | * | * | .0 | .0 | .0 | 4 | * |
| 75/79 | .0 | .0 | .0 | .1 | .1 | * | * | .0 | 20 | .2 |
| 70/74 | .0 | * | * | .3 | 1.0 | .9 | .3 | .1 | 287 | 2.6 |
| 65/69 | .0 | * | * | .4 | 2.4 | 6.5 | 5.5 | 2.2 | 1886 | 16.9 |
| 60/64 | .0 | .0 | .1 | .3 | 3.6 | 15.9 | 27.1 | 10.0 | 6359 | 57.0 |
| 55/59 | .0 | .0 | .0 | * | .4 | 4.1 | 11.6 | 6.9 | 2578 | 23.1 |
| 50/54 | .0 | .0 | .0 | .0 | * | .0 | .1 | .1 | 27 | .2 |
| TOTAL | 0 | 4 | 10 | 117 | 831 | 3059 | 4984 | 2156 | 11161 | 100.0 |
| PCT | .0 | * | .1 | 1.0 | 7.4 | 27.4 | 44.7 | 19.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | * | * | * | * | .0 | .0 |
| * | .0 | * | * | * | * | * | .1 | .0 | * |
| .2 | .1 | * | .1 | .2 | .3 | .9 | .8 | .0 | * |
| .8 | .2 | .3 | .5 | 1.2 | 2.6 | 6.0 | 4.8 | .0 | .5 |
| 3.0 | .8 | .9 | 2.7 | 5.4 | 7.7 | 16.1 | 18.5 | .0 | 1.8 |
| 1.3 | .3 | .3 | .6 | 1.2 | 1.6 | 6.6 | 10.8 | .0 | .4 |
| * | .0 | .0 | .0 | * | * | * | .1 | .0 | * |
| 5.3 | 1.4 | 1.5 | 3.9 | 8.1 | 12.3 | 29.7 | 35.0 | .0 | 2.7 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 81 | 73 | 69 | 62 | 58 | 56 | 50 | 62.8 | 3712 |
| 06E09 | 81 | 68 | 65 | 60 | 56 | 55 | 52 | 60.4 | 2582 |
| 12E15 | 74 | 69 | 66 | 60 | 56 | 55 | 50 | 60.6 | 3632 |
| 18E21 | 79 | 72 | 69 | 63 | 58 | 56 | 50 | 63.0 | 4121 |
| TOT | 81 | 72 | 68 | 62 | 57 | 55 | 50 | 61.9 | 14047 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00E03 | .0 | 1.2 | 9.3 | 29.9 | 44.5 | 15.1 | 81 | 3070 |
| 06E09 | .0 | .4 | 2.6 | 22.4 | 50.5 | 24.1 | 85 | 1887 |
| 12E15 | .0 | .3 | 4.4 | 22.8 | 46.4 | 26.1 | 85 | 2905 |
| 18E21 | .0 | 2.3 | 11.1 | 31.8 | 40.1 | 14.7 | 80 | 3350 |
| TOT | 0 | 131 | 834 | 3065 | 5013 | 2169 | 82 | 11212 |

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PERIOD: (PRIMARY) 1943-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | 5 | .0 | * |
| 14/16 | .0 | .0 | .0 | * | .1 | * | * | .0 | .0 | 18 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .1 | .2 | .1 | .1 | * | .0 | 62 | * | .5 |
| 9/10 | .0 | .0 | * | .1 | .2 | .2 | .1 | * | .0 | 75 | * | .6 |
| 7/8 | .0 | .0 | .2 | .4 | .5 | .3 | .1 | * | .0 | 182 | .1 | 1.4 |
| 6 | .0 | * | .3 | .5 | .4 | .3 | * | .0 | .0 | 183 | .1 | 1.4 |
| 5 | .0 | * | .3 | .4 | .9 | .3 | * | .0 | .0 | 240 | .1 | 1.8 |
| 4 | .0 | .0 | .4 | 1.3 | 1.2 | .3 | * | .0 | .0 | 395 | .2 | 3.1 |
| 3 | .0 | * | .5 | 1.7 | 1.7 | .4 | * | .0 | .0 | 515 | .3 | 3.9 |
| 2 | .0 | .1 | 1.2 | 3.7 | 1.7 | .4 | * | .0 | .0 | 859 | .6 | 6.5 |
| 1 | .0 | .2 | 1.2 | 4.2 | 1.8 | .2 | * | .0 | .0 | 933 | .5 | 7.2 |
| 0 | .0 | .2 | 2.9 | 6.2 | 1.4 | .1 | * | .0 | * | 1315 | .6 | 10.2 |
| -1 | .0 | .3 | 3.7 | 6.0 | 1.3 | .1 | * | .0 | .0 | 1394 | .7 | 10.8 |
| -2 | * | .4 | 5.7 | 6.0 | 1.0 | .1 | .0 | .0 | .0 | 1614 | .9 | 12.3 |
| -3 | * | .4 | 4.6 | 4.8 | .9 | * | .0 | .0 | .0 | 1307 | .9 | 9.9 |
| -4 | * | .6 | 5.3 | 3.0 | .5 | .1 | .0 | .0 | .0 | 1160 | .7 | 8.8 |
| -5 | * | .4 | 3.4 | 2.1 | .4 | * | .0 | .0 | .0 | 770 | .6 | 5.7 |
| -6 | * | .3 | 2.2 | 1.5 | .2 | * | .0 | .0 | .0 | 513 | .4 | 3.8 |
| -7/-8 | * | .4 | 1.9 | 1.4 | .2 | .0 | .0 | .0 | .0 | 472 | .3 | 3.6 |
| -9/-10 | .0 | .1 | .5 | .4 | .1 | .0 | .0 | .0 | .0 | 126 | .1 | .9 |
| -11/-13 | * | * | .2 | .1 | * | .0 | .0 | .0 | .0 | 36 | * | .3 |
| -14/-16 | .0 | * | * | * | * | .0 | .0 | .0 | .0 | 5 | * | * |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -20/-22 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 11 430 | | 4192 5341 | | 1776 | 361 | 63 | 6 | 1 | 12181 | 871 | 11310 |
| PCT | .1 | 3.5 | 34.4 | 43.8 | 14.6 | 3.0 | .5 | * | * | 100.0 | 7.2 | 92.8 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .9 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .3 | 1.6 | .7 | .0 | .0 | .0 | 2.6 |
| 3-4 | .0 | .2 | .6 | .1 | .0 | .0 | .9 |
| 5-6 | .0 | .1 | .1 | * | .0 | .0 | .2 |
| 7 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.9 | 1.5 | .2 | .0 | .0 | 5.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .5 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | .1 | .0 | .0 | .0 | 1.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .3 | .1 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | * | * | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | .1 | .0 | .0 | .0 | 1.1 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.1 | .1 | .0 | .0 | .0 | 1.6 |
| 1-2 | .2 | 1.8 | .3 | .0 | .0 | .0 | 2.3 |
| 3-4 | * | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 3.1 | .5 | .0 | .0 | .0 | 4.2 |

PERIOD: (OVER-ALL) 1963-1973 JUNE AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 2.1 | * | .0 | .0 | .0 | 2.5 | .5 | 2.5 | .1 | .0 | .0 | .0 | 3.1 |
| 1-2 | .5 | 2.4 | .6 | .0 | .0 | .0 | 3.4 | .4 | 4.1 | .9 | .0 | .0 | .0 | 5.4 |
| 3-4 | .1 | .2 | .2 | .0 | .0 | .0 | .5 | * | .9 | .3 | .0 | .0 | .0 | 1.2 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 4.7 | .8 | .0 | .0 | .0 | 6.4 | .9 | 7.6 | 1.4 | .0 | .0 | .0 | 9.9 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .6 | 3.8 | .5 | .0 | .0 | .0 | 4.9 | .8 | 3.3 | .2 | .0 | .0 | .0 | 4.3 | |
| 1-2 | .8 | 9.8 | 6.2 | .0 | .0 | .0 | 16.9 | .6 | 8.3 | 6.2 | .0 | .0 | .0 | 15.2 | |
| 3-4 | .2 | 2.9 | 4.0 | .2 | .0 | .0 | 7.4 | * | 3.0 | 6.8 | .7 | .0 | .0 | 10.6 | |
| 5-6 | .1 | .3 | .5 | .1 | .0 | .0 | 1.0 | * | .7 | 2.8 | .6 | .0 | .0 | 4.0 | |
| 7 | .0 | .2 | .3 | .1 | .0 | .0 | .5 | .0 | .4 | 1.3 | .5 | .0 | .0 | 2.2 | |
| 8-9 | .0 | * | .2 | .1 | .0 | .0 | .3 | .0 | .1 | .4 | .3 | .0 | .0 | .9 | |
| 10-11 | .0 | .0 | * | .1 | * | .0 | .2 | .0 | .0 | .2 | .2 | * | .0 | .4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.7 | 17.1 | 11.8 | .6 | * | .0 | 31.2 | 1.5 | 15.8 | 17.9 | 2.4 | * | .0 | 37.6 | 97.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.4 | 14.4 | .9 | .0 | .0 | .0 | 21.7 | |
| 1-2 | 3.0 | 28.8 | 15.2 | .0 | .0 | .0 | 47.0 | |
| 3-4 | .4 | 7.5 | 12.1 | 1.1 | .0 | .0 | 21.1 | |
| 5-6 | .1 | 1.2 | 3.4 | .7 | .0 | .0 | 5.5 | |
| 7 | .0 | .6 | 1.6 | .6 | .0 | .0 | 2.8 | |
| 8-9 | .0 | .1 | .7 | .4 | .0 | .0 | 1.2 | |
| 10-11 | .0 | .0 | .2 | .3 | .1 | .0 | .6 | |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 2992 |
| TOT PCT | 9.8 | 52.7 | 34.3 | 3.2 | .1 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.3 | 29.2 | 22.5 | 5.1 | 2.0 | .4 | .2 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4421 | 3 |
| 6-7 | .1 | 3.1 | 7.2 | 3.5 | 2.1 | .9 | .4 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1238 | 4 |
| 8-9 | .2 | 1.9 | 2.2 | 1.3 | 1.0 | .4 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 515 | 4 |
| 10-11 | .0 | .7 | .8 | .3 | .3 | .3 | .2 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 186 | 5 |
| 12-13 | .0 | .0 | .3 | .2 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 47 | 6 |
| >13 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9 | 7 |
| INDET | 6.1 | 2.0 | .7 | .2 | .1 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 641 | 1 |
| TOTAL | 679 | 2597 | 2373 | 752 | 391 | 150 | 72 | 25 | 16 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7057 | 3 |
| PCT | 9.6 | 36.8 | 33.6 | 10.7 | 5.5 | 2.1 | 1.0 | .4 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .0 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .2 | .2 | 10.3 | .2 | 12.8 | | .1 | 75.5 |
| NE | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .3 | .0 | 12.1 | .0 | 13.0 | | .0 | 74.3 |
| E | .6 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.8 | .0 | .3 | 14.1 | .7 | 14.8 | | .0 | 68.2 |
| SE | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .2 | .2 | 11.0 | .5 | 19.3 | | .0 | 68.5 |
| S | .1 | .0 | .5 | .0 | .0 | .0 | .0 | .6 | .4 | .2 | 8.7 | .2 | 17.7 | | .0 | 72.3 |
| SW | .2 | * | .4 | .0 | .0 | .0 | .0 | .6 | .2 | .4 | 8.7 | .3 | 17.9 | | .0 | 72.0 |
| W | .1 | .1 | .2 | .0 | .0 | .0 | .0 | .4 | .3 | .2 | 6.5 | .1 | 11.3 | | .0 | 81.3 |
| NW | .1 | .1 | .6 | .0 | .0 | .0 | .0 | .7 | .2 | .1 | 6.8 | .2 | 10.8 | | * | 81.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .6 | .6 | .0 | .0 | .0 | .3 | 1.4 | .3 | .0 | 15.4 | .3 | 17.3 | | .0 | 65.4 |
| TOT PCT | .1 | .1 | .5 | .0 | .0 | .0 | * | .6 | .2 | .1 | 7.7 | .2 | 12.6 | | * | 78.5 |
| TOT OBS: 12093 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .2 | .1 | * | 3.6 | * | 11.4 | * | | 84.6 |
| 06&09 | * | .1 | .6 | .0 | .0 | .0 | .0 | .7 | .2 | .3 | 6.8 | .4 | 7.7 | .1 | | 83.8 |
| 12&15 | .2 | .1 | .9 | .0 | .0 | .0 | * | 1.3 | .2 | .3 | 11.3 | .2 | 12.6 | .0 | | 74.2 |
| 18&21 | * | .1 | .3 | .0 | .0 | .0 | .0 | .4 | .4 | * | 8.9 | .2 | 16.5 | .0 | | 73.6 |
| TOT PCT | .1 | .1 | .5 | .0 | .0 | .0 | * | .6 | .2 | .1 | 7.7 | .2 | 12.6 | * | | 78.5 |
| TOT OBS: 12158 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.1 | 3.6 | 1.6 | .1 | .0 | .0 | | 6.5 | 8.3 | 3.2 | 5.2 | 7.9 | 6.3 | 8.0 | 10.8 | 7.7 | 3.5 |
| NE | .4 | .7 | .1 | * | .0 | .0 | | 1.3 | 5.5 | .5 | .6 | 1.1 | 1.0 | 1.2 | 2.9 | 1.9 | .9 |
| E | .4 | .8 | .2 | .0 | .0 | .0 | | 1.4 | 5.6 | .5 | .5 | 1.1 | .6 | 1.9 | 3.2 | 2.0 | 1.0 |
| SE | .5 | 1.5 | .3 | * | .0 | .0 | | 2.2 | 6.4 | .7 | 1.2 | 1.6 | 1.4 | 2.8 | 3.9 | 3.4 | 2.4 |
| S | 1.0 | 4.1 | .7 | * | .0 | .0 | | 5.8 | 6.6 | 4.2 | 3.9 | 4.2 | 4.0 | 3.5 | 9.5 | 8.1 | 7.9 |
| SW | 1.7 | 6.4 | 1.3 | * | .0 | .0 | | 9.4 | 6.8 | 9.9 | 8.9 | 5.7 | 8.7 | 5.8 | 11.2 | 10.0 | 13.6 |
| W | 2.4 | 17.8 | 9.7 | .4 | .0 | .0 | | 30.2 | 9.2 | 38.6 | 34.7 | 28.2 | 32.9 | 23.2 | 20.5 | 25.5 | 37.9 |
| NW | 2.0 | 19.1 | 17.6 | 1.3 | * | .0 | | 39.9 | 10.9 | 41.6 | 42.9 | 47.0 | 41.5 | 48.1 | 32.4 | 36.9 | 31.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | | 3.3 | .0 | .9 | 2.0 | 3.2 | 3.6 | 5.5 | 5.8 | 4.4 | 1.8 |
| TOT OBS | 1613 | 6799 | 3957 | 231 | 1 | 0 | 12601 | | 9.0 | 2222 | 1084 | 1343 | 809 | 1646 | 1326 | 1008 | 1763 |
| TOT PCT | 12.8 | 54.0 | 31.4 | 1.8 | * | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.9 | 3.1 | .5 | * | .0 | | 6.5 | 8.3 | 3.9 | 7.3 | 9.3 | 5.8 |
| NE | .9 | .3 | * | * | .0 | | 1.3 | 5.5 | .5 | 1.1 | 2.0 | 1.4 |
| E | 1.0 | .4 | * | * | .0 | | 1.4 | 5.6 | .5 | .9 | 2.5 | 1.5 |
| SE | 1.3 | .9 | * | * | .0 | | 2.2 | 6.4 | .9 | 1.5 | 3.3 | 2.9 |
| S | 3.2 | 2.7 | * | * | .0 | | 5.8 | 6.6 | 4.1 | 4.2 | 6.3 | 8.0 |
| SW | 5.1 | 4.2 | .1 | * | .0 | | 9.4 | 6.8 | 9.6 | 6.7 | 8.4 | 11.7 |
| W | 9.8 | 18.3 | 2.1 | * | .0 | | 30.2 | 9.2 | 37.3 | 29.8 | 21.9 | 31.3 |
| NW | 8.4 | 25.9 | 5.4 | .2 | .0 | | 39.9 | 10.9 | 42.0 | 48.1 | 40.5 | 36.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | | | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | 3.3 | .0 | 1.2 | 3.4 | 5.6 | 3.2 |
| TOT OBS | 4505 | 7030 | 1037 | 29 | 0 | 12601 | | 9.0 | 3306 | 2352 | 3172 | 3771 |
| TOT PCT | 35.8 | 55.8 | 8.2 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JULY

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.2 | 5.0 | 48.9 | 41.6 | 3.2 | * | .0 | 10.8 | 100.0 | 3306 |
| 06&09 | 3.4 | 8.0 | 51.4 | 33.1 | 2.2 | .0 | .0 | 9.4 | 100.0 | 2382 |
| 12&15 | 5.6 | 15.8 | 55.2 | 22.3 | 1.1 | .0 | .0 | 7.4 | 100.0 | 3172 |
| 18&21 | 3.2 | 9.1 | 56.9 | 27.8 | 1.0 | .0 | .0 | 8.8 | 100.0 | 3771 |
| TOT | 418 | 1196 | 6798 | 3957 | 231 | 1 | 0 | 9.0 | | 12601 |
| PCT | 3.3 | 9.5 | 53.9 | 31.4 | 1.8 | * | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 1.4 | .5 | 1.6 | 3.5 | | 5.8 |
| NE | .2 | .1 | .2 | .6 | | 5.9 |
| E | .3 | .1 | .3 | .8 | | 5.9 |
| SE | .3 | .1 | .5 | 1.2 | | 6.3 |
| S | .7 | .4 | 1.2 | 2.7 | | 6.3 |
| SW | 1.8 | .6 | 1.7 | 3.9 | | 5.6 |
| W | 8.4 | 2.7 | 6.4 | 12.8 | | 5.2 |
| NW | 9.8 | 3.0 | 9.4 | 19.5 | | 5.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .6 | .1 | .8 | 1.8 | | 6.1 |
| TOT OBS | 1971 | 633 | 1863 | 3927 | 8394 | 5.5 |
| TOT PCT | 23.5 | 7.5 | 22.2 | 46.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | * | .4 | 1.2 | 2.8 | .6 | .1 | * | * | .1 | 2.0 | |
| NE | * | * | * | .2 | .8 | .1 | * | .0 | .0 | * | .4 | |
| E | * | .0 | .1 | .3 | .5 | .1 | * | * | .0 | .0 | .4 | |
| SE | * | .0 | .1 | .4 | .8 | .2 | * | .0 | * | * | .8 | |
| S | .1 | * | .1 | .9 | 1.8 | .3 | .1 | * | * | .1 | 1.4 | |
| SW | .1 | * | .3 | 1.4 | 2.7 | .6 | .1 | * | * | * | 2.7 | |
| W | .3 | .1 | 1.3 | 4.8 | 8.9 | 1.8 | .3 | .1 | .1 | .3 | 15.3 | |
| NW | .7 | .4 | 2.7 | 7.3 | 11.6 | 3.2 | .3 | .1 | .1 | .3 | 14.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | * | .1 | .2 | .8 | 1.3 | .2 | * | * | * | * | .9 | |
| TOT OBS | 131 | 48 | 437 | 1428 | 2543 | 604 | 85 | 23 | 29 | 66 | 2989 | 8394 |
| TOT PCT | 1.6 | .6 | 5.2 | 17.1 | 30.3 | 7.2 | 1.0 | .3 | .3 | .8 | 35.6 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >5000 | .7 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >3500 | 1.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| * OR >2000 | 5.3 | 9.3 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| * OR >1000 | 18.1 | 38.3 | 39.7 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 |
| * OR >600 | 22.4 | 53.5 | 56.6 | 56.8 | 56.9 | 57.0 | 57.0 | 57.0 |
| * OR >300 | 23.3 | 57.2 | 61.6 | 62.0 | 62.1 | 62.2 | 62.2 | 62.2 |
| * OR >150 | 23.5 | 57.5 | 62.0 | 62.5 | 62.7 | 62.7 | 62.8 | 62.8 |
| * OR > 0 | 23.7 | 57.9 | 62.6 | 63.2 | 63.7 | 63.9 | 64.2 | 64.3 |
| TOTAL | 1994 | 4876 | 5273 | 5328 | 5366 | 5383 | 5407 | 5422 |

TOTAL NUMBER OF OBS: 8428

PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 13.7 | 5.7 | 8.6 | 4.3 | 3.0 | 4.1 | 8.8 | 8.0 | 42.6 | 1.3 | 8686 |

JULY

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| <1/2 | NO PCP | .1 | * | * | * | .1 | .1 | .1 | .2 | .0 | * | .7 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .1 | .3 | .0 | * | .8 | |
| | PCP | * | * | * | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 1/2<1 | NO PCP | .1 | * | * | * | .1 | .1 | .2 | .3 | .0 | .1 | .9 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .3 | .0 | .1 | .9 | |
| | PCP | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| 1<2 | NO PCP | .1 | * | * | .1 | .2 | .2 | .4 | .5 | .0 | .1 | 1.5 | |
| | TOT % | .1 | * | * | .1 | .2 | .2 | .4 | .5 | .0 | .1 | 1.6 | |
| | PCP | * | .0 | * | .0 | .0 | * | * | .1 | .0 | * | .1 | |
| 2<5 | NO PCP | .8 | .1 | .2 | .3 | .7 | 1.1 | 2.2 | 2.7 | .0 | .2 | 9.3 | |
| | TOT % | .8 | .1 | .2 | .3 | .7 | 1.1 | 2.2 | 2.8 | .0 | .2 | 8.4 | |
| | PCP | * | .0 | * | * | * | * | .1 | .1 | .0 | * | .3 | |
| 5<10 | NO PCP | 3.1 | .6 | .6 | 1.2 | 3.2 | 4.6 | 14.5 | 17.2 | .0 | 1.5 | 46.5 | |
| | TOT % | 3.1 | .6 | .6 | 1.2 | 3.2 | 4.6 | 14.6 | 17.3 | .0 | 1.5 | 46.8 | |
| | PCP | * | .0 | .0 | .0 | .0 | * | * | * | .0 | * | * | |
| 10+ | NO PCP | 2.4 | .4 | .5 | .6 | 1.7 | 3.2 | 13.1 | 18.7 | .0 | .9 | 41.5 | |
| | TOT % | 2.4 | .4 | .5 | .6 | 1.7 | 3.2 | 13.1 | 18.7 | .0 | .9 | 41.5 | |
| | TOT OBS | | | | | | | | | | | | 12094 |
| | TOT PCT | 6.5 | 1.3 | 1.4 | 2.2 | 5.9 | 9.4 | 30.5 | 39.9 | .0 | 3.0 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .2 | |
| <1/2 | 4-10 | .1 | * | * | * | * | .1 | .1 | .2 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | .0 | * | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .3 | .0 | * | .8 | |
| | 0-3 | * | * | * | .0 | * | .1 | .1 | .1 | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .1 | * | * | * | .1 | * | .1 | .2 | .0 | | .5 | |
| | 11-21 | .0 | .0 | .0 | .0 | * | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .3 | .0 | .1 | 1.0 | |
| | 0-3 | * | * | * | * | * | * | .1 | .1 | .0 | .2 | .4 | |
| 1<2 | 4-10 | .1 | * | * | * | .1 | .1 | .3 | .3 | .0 | | 1.0 | |
| | 11-21 | * | .0 | .0 | * | * | * | .1 | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .1 | * | * | .1 | .2 | .2 | .4 | .6 | .0 | .2 | 1.9 | |
| | 0-3 | .3 | .1 | .1 | .1 | .1 | .3 | .4 | .4 | .0 | .3 | 2.0 | |
| 2<5 | 4-10 | .4 | .1 | .1 | .2 | .5 | .8 | 1.5 | 1.7 | .0 | | 5.0 | |
| | 11-21 | .2 | * | * | * | .1 | .1 | .3 | .8 | .0 | | 1.6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .8 | .2 | .2 | .3 | .7 | 1.2 | 2.2 | 2.9 | .0 | .3 | 8.7 | |
| | 0-3 | .5 | .2 | .2 | .2 | .5 | .9 | 1.0 | .8 | .0 | 1.6 | 5.9 | |
| 5<10 | 4-10 | 1.8 | .4 | .4 | .8 | 2.2 | 3.0 | 8.7 | 8.5 | .0 | | 25.9 | |
| | 11-21 | .7 | .1 | .1 | .2 | .4 | .6 | 4.4 | 7.2 | .0 | | 13.5 | |
| | 22+ | * | .0 | .0 | * | .0 | * | .2 | .5 | .0 | | .7 | |
| | TOT % | 3.0 | .6 | .7 | 1.2 | 3.1 | 4.5 | 14.3 | 17.0 | .0 | 1.6 | 46.0 | |
| | 0-3 | .2 | .1 | .1 | .1 | .3 | .5 | .8 | .6 | .0 | 1.1 | 3.9 | |
| 10+ | 4-10 | 1.3 | .2 | .3 | .5 | 1.2 | 2.3 | 7.1 | 8.1 | .0 | | 21.0 | |
| | 11-21 | .8 | * | .1 | .1 | .2 | .5 | 4.9 | 9.1 | .0 | | 15.7 | |
| | 22+ | .1 | * | .0 | .0 | * | * | .2 | .7 | .0 | | 1.0 | |
| | TOT % | 2.3 | .4 | .5 | .6 | 1.7 | 3.3 | 13.0 | 18.6 | .0 | 1.1 | 41.5 | |
| | TOT OBS | | | | | | | | | | | | 12438 |
| | TOT PCT | 6.5 | 1.3 | 1.4 | 2.2 | 5.9 | 9.4 | 30.3 | 39.8 | .0 | 3.3 | 100.0 | |

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .5 | .5 | 4.3 | 13.4 | 25.5 | 6.6 | 1.0 | * | .4 | 1.0 | 53.4 | 46.6 | 2093 |
| 06&09 | 1.8 | .5 | 5.3 | 15.6 | 26.7 | 7.1 | .7 | .2 | .3 | .5 | 58.7 | 41.3 | 1936 |
| 12&15 | 2.5 | .9 | 6.5 | 20.9 | 34.2 | 8.0 | 1.2 | .5 | .3 | .6 | 75.8 | 24.2 | 2001 |
| 18&21 | 1.5 | .4 | 4.7 | 17.9 | 33.3 | 6.9 | 1.1 | .3 | .3 | 1.0 | 67.4 | 32.6 | 2457 |
| TOT | 132 | 48 | 439 | 1441 | 2552 | 608 | 86 | 23 | 28 | 68 | 5425 | 3062 | 8487 |
| PCT | 1.6 | .6 | 5.2 | 17.0 | 30.1 | 7.2 | 1.0 | .3 | .3 | .8 | 63.9 | 36.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .2 | .5 | 1.1 | 6.8 | 45.0 | 46.3 | 3272 |
| 06&09 | 1.1 | .4 | .6 | 4.5 | 47.7 | 45.7 | 2326 |
| 12&15 | 1.5 | 2.2 | 3.0 | 11.3 | 45.4 | 36.5 | 3143 |
| 18&21 | .6 | .9 | 2.3 | 10.8 | 46.3 | 39.1 | 3765 |
| TOT | 104 | 128 | 233 | 1093 | 5751 | 5197 | 12506 |
| PCT | .8 | 1.0 | 1.9 | 8.7 | 46.0 | 41.6 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .5 | 5.4 | 20.7 | 34.2 | 45.1 | 2077 |
| 06&09 | 1.8 | 7.9 | 24.9 | 34.8 | 40.2 | 1924 |
| 12&15 | 2.6 | 10.5 | 34.6 | 42.9 | 22.6 | 1994 |
| 18&21 | 1.5 | 7.0 | 28.6 | 41.0 | 30.4 | 2433 |
| TOT | 133 | 644 | 2296 | 3232 | 2900 | 8428 |
| PCT | 1.6 | 7.6 | 27.2 | 38.3 | 34.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 85/89 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | 2 | * |
| 80/84 | .0 | .0 | * | .1 | * | * | .0 | .0 | 19 | .2 |
| 75/79 | .0 | .0 | * | .2 | .4 | .4 | .1 | * | 123 | 1.2 |
| 70/74 | .0 | .0 | * | .1 | 1.9 | 3.0 | 2.5 | .8 | 845 | 8.3 |
| 65/69 | .0 | .0 | * | .3 | 1.0 | 7.4 | 17.7 | 7.6 | 3445 | 34.0 |
| 60/64 | .0 | .0 | .0 | * | .6 | 6.3 | 28.2 | 12.8 | 4862 | 48.0 |
| 55/59 | .0 | .0 | .0 | .0 | * | .3 | 3.7 | 4.2 | 834 | 8.2 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 5 | * |
| TOTAL | 0 | 0 | 6 | 78 | 405 | 1782 | 5291 | 2573 | 10135 | 100.0 |
| PCT | .0 | .0 | .1 | .8 | 4.0 | 17.6 | 52.2 | 25.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 |
| * | * | * | .0 | * | * | * | .1 | .0 | .0 |
| .1 | * | .0 | * | .1 | .1 | .4 | .5 | .0 | .1 |
| .4 | .1 | .1 | .2 | .6 | 1.1 | 2.6 | 3.0 | .0 | .2 |
| 2.2 | .5 | .5 | 1.0 | 2.7 | 4.1 | 10.6 | 11.3 | .0 | 1.2 |
| 3.4 | .6 | .7 | 1.1 | 2.4 | 3.8 | 14.5 | 20.3 | .0 | 1.2 |
| .6 | .1 | .1 | .1 | .1 | .4 | 2.0 | 4.8 | .0 | .1 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 6.7 | 1.3 | 1.4 | 2.4 | 6.0 | 9.4 | 30.0 | 40.1 | .0 | 2.8 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 84 | 76 | 72 | 65 | 60 | 58 | 55 | 65.2 | 3309 |
| 06&09 | 77 | 71 | 68 | 62 | 58 | 56 | 54 | 62.5 | 2352 |
| 12&15 | 86 | 78 | 69 | 63 | 58 | 56 | 52 | 63.1 | 3186 |
| 18&21 | 85 | 76 | 72 | 65 | 60 | 58 | 55 | 65.6 | 3788 |
| TOT | 86 | 75 | 71 | 64 | 59 | 56 | 52 | 64.3 | 12635 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .9 | 5.9 | 21.1 | 52.8 | 19.3 | 83 | 2771 |
| 06&09 | .0 | .1 | .7 | 9.1 | 55.7 | 34.4 | 87 | 1785 |
| 12&15 | .0 | .5 | 1.6 | 10.7 | 52.4 | 34.7 | 87 | 2553 |
| 18&21 | .0 | 1.4 | 6.2 | 25.1 | 49.2 | 18.2 | 82 | 3082 |
| TOT | 0 | 84 | 407 | 1794 | 5099 | 2597 | 84 | 10191 |

JULY

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * | .0 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | * | * | 20 | * | .1 |
| 11/13 | .0 | .0 | .1 | .3 | .2 | .1 | .2 | .1 | .1 | .0 | 115 | .1 | 1.0 |
| 9/10 | .0 | .0 | * | .1 | .2 | .3 | .2 | .1 | * | .0 | 91 | .1 | .8 |
| 7/8 | .0 | .0 | .0 | .2 | .7 | .5 | .3 | .1 | * | .0 | 188 | .1 | 1.6 |
| 6 | .0 | .0 | * | .1 | .5 | .5 | .2 | * | * | .0 | 151 | .1 | 1.3 |
| 5 | .0 | .0 | .1 | .3 | .9 | .7 | .2 | * | * | .0 | 252 | .1 | 2.2 |
| 4 | .0 | * | .1 | .7 | 1.2 | 1.0 | .2 | * | .0 | .0 | 360 | .2 | 3.0 |
| 3 | .0 | * | .1 | 1.0 | 1.6 | 1.1 | .2 | * | .0 | .0 | 441 | .3 | 3.8 |
| 2 | .0 | .0 | .4 | 2.0 | 2.5 | 1.2 | .1 | * | .0 | .0 | 680 | .6 | 5.6 |
| 1 | .0 | * | .5 | 2.6 | 3.2 | 1.3 | .1 | .0 | .0 | .0 | 844 | .4 | 7.3 |
| 0 | .0 | * | 1.5 | 4.0 | 3.8 | 1.2 | .1 | .0 | .0 | .0 | 1175 | 1.0 | 9.7 |
| -1 | .0 | .1 | 1.2 | 4.9 | 3.9 | .9 | * | .0 | .0 | .0 | 1202 | .7 | 10.3 |
| -2 | .0 | .1 | 2.5 | 5.7 | 3.5 | .4 | .1 | .0 | .0 | .0 | 1339 | 1.0 | 11.2 |
| -3 | .0 | .1 | 2.0 | 5.3 | 3.0 | .5 | .1 | .0 | .0 | .0 | 1210 | .8 | 10.2 |
| -4 | .0 | .1 | 2.5 | 4.5 | 1.7 | .3 | * | .0 | .0 | .0 | 1010 | .8 | 8.4 |
| -5 | .0 | .1 | 1.7 | 3.6 | 1.4 | .1 | * | .0 | .0 | .0 | 758 | .6 | 6.3 |
| -6 | * | .1 | 1.6 | 2.3 | .5 | * | .0 | .0 | .0 | .0 | 496 | .4 | 4.1 |
| -7/-8 | .0 | .1 | 1.8 | 2.1 | .4 | * | * | .0 | .0 | .0 | 478 | .4 | 4.0 |
| -9/-10 | .0 | .1 | .5 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | 118 | .1 | 1.0 |
| -11/-13 | .0 | * | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 37 | * | .3 |
| -14/-16 | .0 | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | 7 | * | * |
| -17/-19 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | * | .0 |
| TOTAL | 1 | 1831 | | 3238 | | 230 | | 14 | | | 843 | | 10132 |
| | | 97 | 4406 | | 1115 | | 40 | | 3 | 10975 | | | |
| PCT | * | .9 | 16.7 | 40.1 | 29.5 | 10.2 | 2.1 | .4 | .1 | * | 100.0 | 7.7 | 92.3 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .7 | 1.4 | .0 | .0 | .0 | .0 | 2.1 |
| 1-2 | .2 | 1.9 | .9 | .0 | .0 | .0 | 3.0 |
| 3-4 | * | .6 | .8 | * | .0 | .0 | 1.5 |
| 5-6 | .0 | .1 | .2 | .1 | .0 | .0 | .4 |
| 7 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 4.0 | 2.0 | .3 | .0 | .0 | 7.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .3 | * | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .1 | .1 | * | .0 | .0 | .2 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .7 | .1 | * | .0 | .0 | 1.2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .3 | * | .0 | .0 | .0 | .7 |
| 1-2 | .1 | .6 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | * | * | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | .9 | .2 | .0 | .0 | .0 | 1.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .6 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .2 | .6 | .1 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | 0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.3 | .2 | .0 | .0 | .0 | 1.9 |

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 1.5 | .0 | .0 | .0 | .0 | 1.9 | .7 | 2.4 | .2 | .0 | .0 | .0 | 3.2 |
| 1-2 | .2 | 1.2 | .1 | .0 | .0 | .0 | 1.5 | .3 | 2.0 | .5 | .0 | .0 | .0 | 2.8 |
| 3-4 | .0 | .1 | .2 | .0 | .0 | .0 | .3 | .1 | .6 | .3 | .0 | .0 | .0 | 1.0 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.9 | .2 | .0 | .0 | .0 | 3.8 | 1.0 | 5.1 | 1.0 | .0 | .0 | .0 | 7.2 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .6 | 3.7 | .4 | .0 | .0 | .0 | 4.8 | .8 | 3.4 | .2 | .0 | .0 | .0 | 4.2 | |
| 1-2 | .9 | 8.3 | 5.2 | .0 | .0 | .0 | 14.4 | .4 | 9.9 | 8.7 | .0 | .0 | .0 | 18.9 | |
| 3-4 | .1 | 3.0 | 3.9 | .1 | .0 | .0 | 7.1 | .2 | 4.8 | 9.6 | .7 | .0 | .0 | 15.3 | |
| 5-6 | * | .4 | .6 | .1 | .0 | .0 | 1.2 | * | 1.0 | 3.1 | .5 | .0 | .0 | 4.5 | |
| 7 | .0 | .1 | .1 | * | .0 | .0 | .2 | .0 | .2 | 1.6 | .8 | .0 | .0 | 2.5 | |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | * | .1 | .1 | .0 | .0 | .3 | |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 | .0 | .0 | .1 | * | .0 | .0 | .2 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.6 | 15.5 | 10.3 | .3 | .0 | .0 | 27.7 | 1.4 | 19.3 | 23.4 | 2.1 | .0 | .0 | 46.1 | 96.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.2 | 13.7 | .8 | .0 | .0 | .0 | 21.6 | |
| 1-2 | 2.6 | 24.7 | 15.6 | .0 | .0 | .0 | 42.8 | |
| 3-4 | .4 | 9.4 | 14.8 | .9 | .0 | .0 | 25.6 | |
| 5-6 | .1 | 1.5 | 4.0 | .7 | .0 | .0 | 6.2 | |
| 7 | .0 | .4 | 1.8 | .9 | .0 | .0 | 3.0 | |
| 8-9 | .0 | * | .2 | .1 | .0 | .0 | .4 | |
| 10-11 | .0 | .0 | .2 | .1 | .0 | .0 | .2 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 10.3 | 49.7 | 37.4 | 2.7 | .0 | .0 | 100.0 | 3345 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.6 | 29.5 | 24.1 | 5.1 | 1.7 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4231 | 3 |
| 6-7 | .1 | 4.4 | 7.4 | 3.2 | 1.4 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1130 | 4 |
| 8-9 | .1 | 1.9 | 2.8 | 1.1 | .7 | .4 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 464 | 4 |
| 10-11 | .0 | .4 | .5 | .3 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 101 | 4 |
| 12-13 | .0 | .0 | .3 | .1 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 33 | 5 |
| >13 | .0 | * | .0 | * | * | .0 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7 | 7 |
| INDET | 7.6 | 1.1 | .3 | .1 | .1 | * | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 607 | 1 |
| TOTAL | 746 | 2451 | 2324 | 654 | 281 | 84 | 22 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6573 | 3 |
| PCT | 11.3 | 37.3 | 35.4 | 9.9 | 4.3 | 1.3 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 | .1 | .1 | 7.3 | * | 14.4 | .1 | | 77.6 |
| NE | .7 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.0 | .0 | .5 | 9.6 | .2 | 14.0 | .0 | | 74.7 |
| E | .3 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 14.5 | .4 | 13.7 | .0 | | 70.7 |
| SE | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .3 | .4 | 5.2 | .4 | 21.2 | .0 | | 72.4 |
| S | .1 | .1 | .5 | .0 | .0 | .0 | .0 | .8 | .2 | .1 | 6.4 | .3 | 13.8 | .0 | | 78.3 |
| SW | .1 | .0 | .4 | .0 | .0 | .0 | .0 | .5 | * | .2 | 6.2 | .1 | 15.7 | .0 | | 77.3 |
| W | .1 | * | .2 | .0 | .0 | .0 | * | .3 | .1 | .1 | 5.2 | * | 11.2 | .0 | | 83.2 |
| NW | .1 | * | .4 | .0 | .0 | .0 | .0 | .4 | * | * | 4.7 | .1 | 11.0 | * | | 83.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .2 | .0 | .4 | .0 | .0 | .0 | .0 | .6 | .0 | .0 | 15.0 | .2 | 19.4 | .0 | | 64.8 |
| TOT PCT | .1 | * | .3 | .0 | .0 | .0 | * | .4 | .1 | .1 | 5.9 | .1 | 12.5 | * | | 81.0 |
| TOT OBS: 14457 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .1 | .1 | .0 | .0 | .0 | * | .2 | * | .1 | 2.7 | * | 12.2 | .0 | | 84.9 |
| 06&09 | .1 | * | .2 | .0 | .0 | .0 | .0 | .3 | .1 | .1 | 5.6 | .1 | 8.3 | .0 | | 85.4 |
| 12&15 | .2 | * | .7 | .0 | .0 | .0 | .0 | .8 | .1 | .2 | 8.7 | .1 | 12.4 | * | | 77.8 |
| 18&21 | .1 | * | .3 | .0 | .0 | .0 | .0 | .3 | .1 | .0 | 6.4 | .2 | 16.2 | .0 | | 76.8 |
| TOT PCT | .1 | * | .3 | .0 | .0 | .0 | * | .4 | .1 | .1 | 5.8 | .1 | 12.7 | * | | 80.8 |
| TOT OBS: 14584 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.1 | 3.9 | 2.0 | .1 | * | .0 | | 7.1 | 8.5 | 3.7 | 5.7 | 8.3 | 7.3 | 9.2 | 11.9 | 7.4 | 4.2 |
| NE | .4 | .9 | .1 | * | .0 | .0 | | 1.4 | 5.4 | .5 | 1.2 | 1.6 | 1.8 | 1.5 | 3.4 | 1.4 | .5 |
| E | .4 | .9 | .1 | .0 | .0 | .0 | | 1.4 | 5.4 | .4 | .8 | 1.5 | 1.5 | 1.5 | 3.1 | 1.6 | .9 |
| SE | .7 | 1.5 | .2 | * | .0 | .0 | | 2.4 | 5.6 | .8 | 1.8 | 2.1 | 2.3 | 2.4 | 4.5 | 4.0 | 1.7 |
| S | 1.3 | 3.7 | .7 | .0 | * | .0 | | 5.7 | 6.3 | 4.0 | 4.1 | 4.1 | 4.5 | 4.7 | 8.7 | 6.9 | 7.5 |
| SW | 1.6 | 6.7 | 1.1 | * | .0 | .0 | | 9.4 | 6.7 | 9.6 | 9.0 | 6.8 | 7.5 | 6.5 | 9.5 | 10.8 | 13.7 |
| W | 2.6 | 16.8 | 9.7 | .3 | .0 | .0 | | 29.5 | 9.2 | 38.4 | 33.1 | 27.2 | 30.6 | 24.8 | 18.6 | 25.5 | 35.9 |
| NW | 2.4 | 18.3 | 17.5 | 1.1 | .0 | .0 | | 39.3 | 10.7 | 41.5 | 41.8 | 44.4 | 38.8 | 42.5 | 34.4 | 37.5 | 34.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.9 | | | | | | | 3.9 | .0 | 1.1 | 2.4 | 4.1 | 5.6 | 7.0 | 5.9 | 5.0 | 1.3 |
| TOT OBS | 2154 | 7876 | 4675 | 235 | 2 | 0 | 14942 | | 8.8 | 2590 | 1391 | 1800 | 968 | 1941 | 1834 | 2328 | 2090 |
| TOT PCT | 14.4 | 52.7 | 31.3 | 1.6 | * | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.9 | 3.6 | .5 | * | .0 | | 7.1 | 8.5 | 4.4 | 8.0 | 10.5 | 5.9 |
| NE | 1.0 | .3 | * | * | .0 | | 1.4 | 5.4 | .7 | 1.7 | 2.4 | 1.0 |
| E | 1.0 | .4 | * | .0 | .0 | | 1.4 | 5.4 | .8 | 1.5 | 2.3 | 1.3 |
| SE | 1.7 | .7 | * | .0 | .0 | | 2.4 | 5.6 | 1.2 | 2.2 | 3.4 | 2.9 |
| S | 3.3 | 2.3 | .1 | * | .0 | | 5.7 | 6.3 | 4.1 | 4.2 | 6.6 | 7.1 |
| SW | 5.1 | 4.1 | .2 | * | .0 | | 9.4 | 6.7 | 9.4 | 7.0 | 7.9 | 12.1 |
| W | 9.4 | 18.1 | 1.9 | * | .0 | | 29.5 | 9.2 | 36.6 | 28.4 | 21.8 | 30.4 |
| NW | 8.8 | 25.3 | 5.1 | .1 | .0 | | 39.3 | 10.7 | 41.6 | 42.4 | 38.5 | 36.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.9 | | | | | | 3.9 | .0 | 1.6 | 4.6 | 6.5 | 3.2 |
| TOT OBS | 5533 | 8210 | 1167 | 32 | 0 | 14942 | | 8.8 | 3981 | 2768 | 3775 | 4418 |
| TOT PCT | 37.0 | 54.9 | 7.8 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

AUGUST

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.6 | 6.3 | 48.8 | 40.5 | 2.8 | * | .0 | 10.3 | 100.0 | 3981 |
| 06&09 | 4.6 | 9.4 | 52.6 | 31.8 | 1.7 | .0 | .0 | 8.9 | 100.0 | 2768 |
| 12&15 | 6.5 | 16.5 | 53.7 | 22.3 | 1.0 | .0 | .0 | 7.3 | 100.0 | 3775 |
| 18&21 | 3.2 | 10.1 | 55.5 | 30.3 | .9 | * | .0 | 8.6 | 100.0 | 4418 |
| TOT | 577 | 1577 | 7876 | 4675 | 235 | 2 | 0 | 8.8 | | 14942 |
| PCT | 3.9 | 10.6 | 52.7 | 31.3 | 1.6 | * | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 2.0 | .7 | 1.7 | 3.0 | | 5.2 |
| NE | .3 | .1 | .3 | .6 | | 5.6 |
| E | .4 | .1 | .3 | .6 | | 5.2 |
| SE | .4 | .2 | .6 | 1.2 | | 5.9 |
| S | .9 | .5 | 1.5 | 2.1 | | 5.7 |
| SW | 2.1 | .8 | 2.5 | 3.4 | | 5.3 |
| W | 8.9 | 3.1 | 7.6 | 10.6 | | 5.0 |
| NW | 11.4 | 3.5 | 9.4 | 15.2 | | 5.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.0 | .2 | .8 | 1.8 | | 5.4 |
| TOT OBS | 2565 | 859 | 2302 | 3586 | 9312 | 5.1 |
| TOT PCT | 27.5 | 9.2 | 24.7 | 38.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | * | .2 | 1.3 | 2.1 | .6 | .1 | * | * | .1 | 2.9 | |
| NE | * | * | * | .2 | .5 | .1 | * | * | .0 | * | .4 | |
| E | * | .0 | * | .2 | .4 | .1 | * | * | * | * | .5 | |
| SE | * | * | .1 | .4 | 1.0 | .1 | * | * | * | * | .7 | |
| S | * | * | .1 | .7 | 1.8 | .4 | .1 | * | * | .1 | 1.7 | |
| SW | .1 | * | .2 | 1.1 | 2.9 | .7 | .1 | * | * | .1 | 3.4 | |
| W | .3 | * | 1.1 | 4.2 | 8.4 | 2.1 | .4 | .1 | .1 | .4 | 13.1 | |
| NW | .5 | .2 | 1.7 | 6.5 | 10.4 | 2.7 | .5 | .1 | .1 | .4 | 16.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | * | .1 | .6 | 1.2 | .4 | * | * | .0 | * | 1.3 | |
| TOT OBS | 129 | 35 | 347 | 1411 | 2671 | 674 | 120 | 28 | 28 | 93 | 3776 | 9312 |
| TOT PCT | 1.4 | .4 | 3.7 | 15.2 | 28.7 | 7.2 | 1.3 | .3 | .3 | 1.0 | 40.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| * OR >5000 | .8 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| * OR >3500 | 1.6 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| * OR >2000 | 5.6 | 9.8 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| * OR >1000 | 18.0 | 37.4 | 38.7 | 38.7 | 38.8 | 38.8 | 38.8 | 38.8 |
| * OR >600 | 22.5 | 50.5 | 53.6 | 53.8 | 53.9 | 53.9 | 53.9 | 53.9 |
| * OR >300 | 23.1 | 53.1 | 57.1 | 57.5 | 57.7 | 57.7 | 57.7 | 57.7 |
| * OR >150 | 23.3 | 53.3 | 57.4 | 57.9 | 58.0 | 58.0 | 58.0 | 58.0 |
| * OR > 0 | 23.3 | 53.6 | 57.8 | 58.4 | 58.8 | 59.0 | 59.3 | 59.4 |
| TOTAL | 2185 | 5019 | 5413 | 5473 | 5506 | 5523 | 5554 | 5565 |

TOTAL NUMBER OF OBS: 9365

PCT FREQ NH <5/8: 40.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 14.8 | 7.4 | 9.9 | 4.9 | 3.7 | 4.2 | 10.0 | 8.6 | 35.5 | 1.1 | 9669 |

AUGUST

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | .0 | * | * | * | * | .0 | .0 | * | |
| <1/2 | NO PCP | * | * | * | * | .1 | .1 | .2 | .2 | .0 | .1 | .7 | |
| | TOT % | * | * | * | * | .1 | .1 | .2 | .2 | .0 | .1 | .8 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | NO PCP | * | * | * | * | .1 | .1 | .2 | .2 | .0 | .1 | .7 | |
| | TOT % | * | * | * | * | .1 | .1 | .2 | .2 | .0 | .1 | .7 | |
| | PCP | .0 | * | * | .0 | * | * | * | * | .0 | .0 | * | |
| 1<2 | NO PCP | .1 | * | * | * | .1 | .2 | .3 | .4 | .0 | .1 | 1.4 | |
| | TOT % | .1 | * | * | * | .1 | .2 | .3 | .5 | .0 | .1 | 1.5 | |
| | PCP | * | * | .0 | .0 | * | * | * | .1 | .0 | * | .1 | |
| 2<5 | NO PCP | .6 | .1 | .2 | .2 | .4 | .8 | 1.8 | 2.5 | .0 | .4 | 7.0 | |
| | TOT % | .6 | .1 | .2 | .2 | .5 | .8 | 1.8 | 2.5 | .0 | .4 | 7.1 | |
| | PCP | * | .0 | * | * | * | * | * | .1 | .0 | * | .2 | |
| 5<10 | NO PCP | 3.2 | .7 | .6 | 1.3 | 3.2 | 4.6 | 13.7 | 16.7 | .0 | 1.7 | 45.7 | |
| | TOT % | 3.2 | .7 | .6 | 1.3 | 3.2 | 4.7 | 13.8 | 16.8 | .0 | 1.7 | 45.9 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | * | * | |
| 10+ | NO PCP | 3.1 | .5 | .6 | .8 | 1.8 | 3.6 | 13.4 | 19.0 | .0 | 1.3 | 44.0 | |
| | TOT % | 3.1 | .5 | .6 | .8 | 1.8 | 3.6 | 13.4 | 19.0 | .0 | 1.3 | 44.1 | |
| | TOT OBS | | | | | | | | | | | | 14444 |
| | TOT PCT | 7.1 | 1.4 | 1.4 | 2.4 | 5.7 | 9.4 | 29.6 | 39.3 | .0 | 3.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | * | * | * | * | * | * | * | .0 | .1 | .3 | |
| <1/2 | 4-10 | * | * | * | * | * | * | .1 | .1 | .0 | | .4 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | * | * | * | * | .1 | .1 | .2 | .2 | .0 | .1 | .8 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | * | * | * | * | * | * | .1 | .2 | .0 | | .4 | |
| | 11-21 | * | .0 | .0 | .0 | * | * | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | * | * | * | .1 | .1 | .2 | .3 | .0 | .1 | .8 | |
| | 0-3 | * | * | * | * | * | .1 | .1 | .1 | .0 | .2 | .5 | |
| 1<2 | 4-10 | .1 | * | * | * | .1 | .2 | .2 | .4 | .0 | | 1.0 | |
| | 11-21 | * | .0 | .0 | .0 | * | * | .1 | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | | * | |
| | TOT % | .2 | * | * | .1 | .1 | .2 | .4 | .6 | .0 | .2 | 1.8 | |
| | 0-3 | .2 | * | .1 | .1 | .1 | .2 | .3 | .4 | .0 | .4 | 1.7 | |
| 2<5 | 4-10 | .4 | .1 | .1 | .2 | .3 | .6 | 1.1 | 1.5 | .0 | | 4.3 | |
| | 11-21 | .1 | * | * | * | * | * | .4 | .7 | .0 | | 1.3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .6 | .1 | .2 | .2 | .5 | .8 | 1.9 | 2.6 | .0 | .4 | 7.3 | |
| | 0-3 | .5 | .2 | .2 | .4 | .7 | .9 | 1.3 | 1.1 | .0 | 1.7 | 6.9 | |
| 5<10 | 4-10 | 1.8 | .4 | .3 | .8 | 2.1 | 3.3 | 8.0 | 8.2 | .0 | | 24.9 | |
| | 11-21 | .8 | * | * | .1 | .4 | .5 | 4.1 | 7.0 | .0 | | 13.1 | |
| | 22+ | * | .0 | .0 | * | .0 | * | .1 | .3 | .0 | | .5 | |
| | TOT % | 3.2 | .7 | .6 | 1.3 | 3.2 | 4.6 | 13.6 | 16.6 | .0 | 1.7 | 45.3 | |
| | 0-3 | .4 | .1 | .1 | .2 | .4 | .5 | .9 | .8 | .0 | 1.3 | 4.7 | |
| 10+ | 4-10 | 1.6 | .3 | .4 | .5 | 1.2 | 2.6 | 7.1 | 7.9 | .0 | | 21.6 | |
| | 11-21 | 1.0 | * | * | * | .2 | .5 | 5.1 | 9.6 | .0 | | 16.6 | |
| | 22+ | .1 | * | .0 | .0 | * | * | .2 | .7 | .0 | | 1.0 | |
| | TOT % | 3.1 | .5 | .6 | .8 | 1.8 | 3.6 | 13.4 | 18.9 | .0 | 1.3 | 44.0 | |
| | TOT OBS | | | | | | | | | | | | 14743 |
| | TOT PCT | 7.1 | 1.4 | 1.4 | 2.4 | 5.7 | 9.4 | 29.6 | 39.3 | .0 | 3.8 | 100.0 | |

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .7 | .3 | 2.9 | 12.4 | 23.7 | 6.0 | .9 | .2 | .4 | 1.4 | 48.8 | 51.2 | 2336 |
| 06&09 | 1.2 | .4 | 4.3 | 13.6 | 26.2 | 6.2 | 1.1 | .3 | .6 | .9 | 54.7 | 45.3 | 2178 |
| 12&15 | 2.2 | .6 | 4.1 | 18.5 | 34.4 | 8.6 | 1.7 | .3 | .1 | .8 | 71.4 | 28.6 | 2290 |
| 18&21 | 1.3 | .3 | 3.4 | 15.2 | 29.1 | 7.7 | 1.4 | .4 | .1 | .9 | 59.7 | 40.3 | 2698 |
| TOT | 130 | 35 | 349 | 1419 | 2695 | 679 | 120 | 28 | 28 | 94 | 5577 | 3925 | 9502 |
| PCT | 1.4 | .4 | 3.7 | 14.9 | 28.4 | 7.1 | 1.3 | .3 | .3 | 1.0 | 58.7 | 41.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .2 | .5 | 1.4 | 6.7 | 44.2 | 46.9 | 3964 |
| 06&09 | .5 | .4 | .9 | 4.4 | 44.7 | 49.1 | 2762 |
| 12&15 | 1.8 | 1.3 | 2.9 | 8.3 | 47.3 | 38.5 | 3745 |
| 18&21 | .7 | .8 | 2.0 | 9.2 | 45.0 | 42.4 | 4407 |
| TOT | 119 | 118 | 274 | 1104 | 6738 | 6525 | 14878 |
| PCT | .8 | .8 | 1.8 | 7.4 | 45.3 | 43.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .7 | 4.1 | 18.9 | 32.1 | 49.0 | 2297 |
| 06&09 | 1.2 | 6.1 | 21.1 | 34.6 | 44.3 | 2158 |
| 12&15 | 2.2 | 7.3 | 28.9 | 44.5 | 26.6 | 2260 |
| 18&21 | 1.4 | 5.5 | 24.5 | 38.2 | 37.3 | 2650 |
| TOT | 129 | 536 | 2190 | 3503 | 3672 | 9365 |
| PCT | 1.4 | 5.7 | 23.4 | 37.4 | 39.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 90/94 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 85/89 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | 3 | * |
| 80/84 | .0 | * | * | .1 | .1 | .1 | * | * | 40 | .3 |
| 75/79 | .0 | .0 | * | .2 | .7 | 1.6 | .4 | .2 | 381 | 3.1 |
| 70/74 | .0 | * | * | .1 | 1.7 | 6.1 | 5.9 | 2.2 | 1974 | 16.1 |
| 65/69 | .0 | .0 | * | .1 | 1.4 | 10.0 | 25.0 | 11.3 | 5881 | 47.8 |
| 60/64 | .0 | .0 | .0 | * | .5 | 3.0 | 16.4 | 11.0 | 3793 | 30.9 |
| 55/59 | .0 | .0 | .0 | .0 | .0 | * | .5 | 1.3 | 217 | 1.8 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | * |
| TOTAL | 1 | 4 | 12 | 67 | 546 | 2551 | 5923 | 3187 | 12291 | 100.0 |
| PCT | * | * | .1 | .5 | 4.4 | 20.8 | 48.2 | 25.9 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 |
| .0 | * | * | .0 | .1 | * | .1 | .1 | .0 | * |
| .2 | * | .1 | .1 | .3 | .3 | .8 | 1.2 | .0 | * |
| 1.0 | .2 | .2 | .5 | 1.2 | 2.0 | 4.7 | 5.6 | .0 | .6 |
| 3.5 | .8 | .7 | 1.3 | 3.4 | 5.3 | 14.0 | 17.0 | .0 | 1.9 |
| 2.3 | .4 | .4 | .5 | 1.0 | 1.8 | 8.9 | 14.6 | .0 | 1.0 |
| .2 | * | .0 | * | * | * | .4 | 1.0 | .0 | * |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 7.2 | 1.5 | 1.4 | 2.5 | 5.9 | 9.5 | 29.0 | 39.6 | .0 | 3.6 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 88 | 78 | 74 | 67 | 61 | 59 | 57 | 67.2 | 3997 |
| 06&09 | 82 | 72 | 70 | 65 | 60 | 58 | 56 | 64.8 | 2793 |
| 12&15 | 86 | 73 | 71 | 65 | 60 | 58 | 54 | 65.1 | 3807 |
| 18&21 | 91 | 78 | 75 | 67 | 61 | 59 | 56 | 67.5 | 4438 |
| TOT | 91 | 77 | 73 | 66 | 60 | 59 | 54 | 66.3 | 15035 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.2 | 5.4 | 23.8 | 47.4 | 22.2 | 83 | 3403 |
| 06&09 | .0 | .2 | 1.7 | 12.0 | 52.4 | 33.8 | 86 | 2194 |
| 12&15 | .0 | .2 | 2.2 | 13.4 | 49.1 | 35.1 | 86 | 3110 |
| 18&21 | * | .9 | 7.1 | 29.5 | 45.6 | 17.0 | 81 | 3701 |
| TOT | 1 | 83 | 551 | 2581 | 5976 | 3216 | 84 | 12408 |

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | * | .0 | * | * | * | 5 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .1 | * | * | * | * | 18 | .0 | .1 |
| 11/13 | .0 | .0 | * | * | .1 | .2 | .1 | .1 | .0 | 68 | * | .5 |
| 9/10 | .0 | .0 | .0 | .2 | .4 | .2 | .1 | * | .0 | 118 | .1 | .8 |
| 7/8 | .0 | * | .1 | .4 | .7 | .6 | .2 | * | .0 | 257 | .1 | 1.9 |
| 6 | .0 | .0 | * | .5 | .5 | .4 | .1 | * | .0 | 194 | .1 | 1.4 |
| 5 | .0 | * | .1 | .6 | 1.0 | .7 | .1 | * | .0 | 304 | .1 | 2.2 |
| 4 | .0 | * | .2 | 1.0 | 1.3 | .5 | .1 | .0 | .0 | 392 | .2 | 2.8 |
| 3 | .0 | * | .2 | 1.5 | 1.5 | .5 | .1 | * | .0 | 500 | .2 | 3.7 |
| 2 | * | * | .7 | 2.2 | 2.1 | .4 | * | .0 | .0 | 688 | .4 | 5.0 |
| 1 | .0 | .1 | .9 | 3.4 | 2.4 | .4 | * | .0 | .0 | 927 | .3 | 6.9 |
| 0 | * | .2 | 2.4 | 4.8 | 2.5 | .2 | * | .0 | .0 | 1323 | .5 | 9.8 |
| -1 | .0 | .3 | 2.6 | 5.1 | 2.1 | .2 | * | .0 | .0 | 1319 | .5 | 9.7 |
| -2 | .0 | .6 | 4.3 | 5.4 | 1.4 | .1 | * | .0 | .0 | 1520 | .7 | 11.1 |
| -3 | * | .6 | 3.9 | 5.3 | 1.3 | .1 | * | .0 | .0 | 1445 | .6 | 10.6 |
| -4 | * | 1.1 | 4.6 | 3.8 | .7 | * | .0 | .0 | .0 | 1298 | .6 | 9.5 |
| -5 | * | .7 | 3.3 | 3.4 | .5 | * | * | .0 | .0 | 1030 | .5 | 7.5 |
| -6 | * | .7 | 2.7 | 1.6 | .2 | .0 | .0 | .0 | .0 | 664 | .2 | 4.9 |
| -7/-8 | * | .6 | 2.5 | 1.3 | .1 | .0 | .0 | .0 | .0 | 576 | .3 | 4.2 |
| -9/-10 | .0 | .3 | .7 | .3 | * | .0 | .0 | .0 | .0 | 172 | .1 | 1.3 |
| -11/-13 | .0 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | 46 | * | .3 |
| -14/-16 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 3 | .0 | * |
| -17/-19 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 5 | .0 | * |
| TOTAL | 14 | 684 | 3782 | 5222 | 2445 | 580 | 119 | 23 | 3 | 12872 | 722 | 12150 |
| PCT | .1 | 5.3 | 29.4 | 40.6 | 19.0 | 4.5 | .9 | .2 | * | 100.0 | 5.6 | 94.4 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.3 | .1 | .0 | .0 | .0 | 1.8 |
| 1-2 | .3 | 2.1 | 1.0 | .0 | .0 | .0 | 3.4 |
| 3-4 | * | .6 | .7 | .1 | .0 | .0 | 1.4 |
| 5-6 | .0 | .1 | .4 | * | .0 | .0 | .5 |
| 7 | .0 | * | * | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 4.1 | 2.3 | .1 | .0 | .0 | 7.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .4 | * | .0 | .0 | .0 | .5 |
| 3-4 | .0 | * | * | .0 | .0 | .0 | * |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | .1 | .0 | .0 | .0 | 1.3 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .4 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | .1 | .0 | .0 | .0 | 1.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .7 | * | .0 | .0 | .0 | 1.1 |
| 1-2 | .3 | .9 | .2 | .0 | .0 | .0 | 1.4 |
| 3-4 | .1 | .1 | * | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | * | * | .0 | .0 | * |
| 7 | .0 | * | .0 | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 1.8 | .3 | * | .0 | .0 | 2.8 |

PERIOD: (OVER-ALL) 1963-1973

AUGUST

TABLE 18 (CONT)

AREA 0032 SAN DIEGO
32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.5 | .1 | .0 | .0 | .0 | 1.9 |
| 1-2 | .3 | 2.0 | .4 | .0 | .0 | .0 | 2.7 |
| 3-4 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | * | * | .0 | * | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 3.6 | .7 | .0 | * | .0 | 5.0 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .8 | 2.4 | .1 | .0 | .0 | .0 | 3.3 |
| 1-2 | .5 | 3.8 | .4 | .0 | .0 | .0 | 4.8 |
| 3-4 | .0 | .5 | .2 | * | .0 | .0 | .7 |
| 5-6 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 7 | .0 | * | * | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.3 | 6.8 | .8 | * | .0 | .0 | 9.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | 1.2 | 4.3 | .3 | .0 | .0 | .0 | 5.7 |
| 1-2 | .7 | 9.2 | 5.1 | .0 | .0 | .0 | 15.0 |
| 3-4 | .2 | 3.1 | 3.1 | .2 | .0 | .0 | 6.5 |
| 5-6 | * | .5 | .6 | * | .0 | .0 | 1.1 |
| 7 | .0 | * | .1 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 2.1 | 17.1 | 9.1 | .3 | .0 | .0 | 28.7 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .9 | 3.8 | .1 | .0 | .0 | .0 | 4.7 | |
| 1-2 | .6 | 10.8 | 8.0 | .0 | .0 | .0 | 19.4 | |
| 3-4 | .1 | 3.5 | 7.5 | .9 | .0 | .0 | 12.1 | |
| 5-6 | * | .7 | 2.9 | .3 | .0 | .0 | 3.9 | |
| 7 | .0 | .1 | .8 | .4 | .0 | .0 | 1.4 | |
| 8-9 | .0 | * | .2 | .1 | .0 | .0 | .3 | |
| 10-11 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.6 | 19.0 | 19.6 | 1.7 | .0 | .0 | 41.9 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.4 | 14.5 | .6 | .0 | .0 | .0 | 22.5 | |
| 1-2 | 9.1 | 29.5 | 15.3 | .0 | .0 | .0 | 47.9 | |
| 3-4 | .6 | 8.0 | 11.7 | 1.2 | .0 | .0 | 21.5 | |
| 5-6 | .1 | 1.4 | 3.9 | .4 | * | .0 | 5.9 | |
| 7 | .0 | .3 | 1.0 | .5 | .0 | .0 | 1.8 | |
| 8-9 | .0 | * | .3 | .1 | .0 | .0 | .4 | |
| 10-11 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 3733 |
| TOT PCT | 11.2 | 53.7 | 32.9 | 2.2 | * | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.8 | 28.4 | 24.1 | 4.0 | 1.4 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4233 | 3 |
| 6-7 | .1 | 5.6 | 7.9 | 3.3 | 1.6 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1291 | 3 |
| 8-9 | .1 | 1.4 | 2.6 | 1.2 | .6 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 421 | 4 |
| 10-11 | .0 | 1.2 | .8 | .2 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 179 | 3 |
| 12-13 | .0 | .0 | .3 | .1 | .1 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 39 | 5 |
| >13 | .0 | .0 | .0 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10 | 5 |
| INDET | 7.7 | 1.2 | .4 | .2 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 650 | 1 |
| TOTAL | 799 | 2583 | 2459 | 628 | 269 | 55 | 22 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6823 | 3 |
| PCT | 11.7 | 37.9 | 36.0 | 9.2 | 3.9 | .8 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | 1.0 | .2 | .5 | .0 | .0 | .0 | .0 | 1.6 | .1 | .4 | 7.6 | .3 | 13.4 | | .0 | 76.6 |
| NE | 1.6 | .4 | .0 | .0 | .0 | .0 | .0 | 2.0 | .1 | 1.2 | 9.0 | .0 | 21.2 | | .0 | 66.6 |
| E | 1.3 | .3 | .4 | .0 | .0 | .0 | .0 | 1.6 | .0 | .4 | 11.3 | .0 | 14.3 | | .0 | 72.4 |
| SE | .8 | .1 | .2 | .0 | .0 | .0 | .0 | 1.1 | .0 | .5 | 11.9 | .2 | 14.8 | | .0 | 71.4 |
| S | .5 | .4 | .9 | .0 | .0 | .0 | .0 | 1.8 | .3 | .3 | 8.7 | .0 | 14.3 | | .0 | 74.7 |
| SW | .4 | * | 1.0 | .0 | .0 | .0 | .0 | 1.4 | .1 | .2 | 6.7 | .2 | 13.3 | | .0 | 78.1 |
| W | .2 | * | .4 | .0 | .0 | .0 | * | .7 | .2 | .2 | 4.9 | .1 | 11.5 | | .0 | 82.4 |
| NW | .1 | * | .2 | .0 | .0 | .0 | .0 | .3 | .1 | .1 | 5.0 | .1 | 10.6 | | .0 | 83.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .2 | .8 | .0 | .0 | .0 | .0 | 1.0 | .2 | .8 | 20.2 | .4 | 15.4 | | .0 | 62.2 |
| TOT PCT | .3 | .1 | .4 | .0 | .0 | .0 | * | .8 | .1 | .3 | 6.5 | .1 | 12.0 | | .0 | 80.2 |
| TOT OBS: 13835 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .5 | .1 | .2 | 3.5 | * | 11.3 | | .0 | 84.3 |
| 06&09 | .4 | .1 | .4 | .0 | .0 | .0 | * | .9 | .2 | .6 | 4.5 | .1 | 7.4 | | .0 | 86.3 |
| 12&15 | .5 | .1 | .9 | .0 | .0 | .0 | .0 | 1.5 | .1 | .2 | 9.4 | .1 | 12.6 | | .0 | 76.2 |
| 18&21 | .2 | * | .2 | .0 | .0 | .0 | .0 | .5 | .1 | .1 | 8.1 | .2 | 15.2 | | .0 | 75.8 |
| TOT PCT | .3 | .1 | .4 | .0 | .0 | .0 | * | .8 | .1 | .3 | 6.5 | .1 | 12.1 | | .0 | 80.1 |
| TOT OBS: 13940 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.3 | 4.9 | 2.8 | .2 | .0 | .0 | | 9.1 | 8.9 | 5.0 | 8.3 | 10.3 | 10.2 | 12.5 | 13.7 | 10.5 | 4.6 |
| NE | .6 | 1.0 | .4 | * | .0 | .0 | | 2.0 | 6.8 | .7 | 1.8 | 2.0 | 1.9 | 2.5 | 4.0 | 2.2 | 1.2 |
| E | .5 | 1.1 | .2 | * | * | .0 | | 1.9 | 6.0 | .7 | 1.5 | 1.4 | 2.3 | 2.7 | 3.6 | 2.2 | 1.3 |
| SE | .7 | 1.8 | .4 | * | * | .0 | | 3.0 | 6.5 | 1.4 | 3.5 | 2.0 | 2.4 | 2.7 | 5.3 | 4.3 | 2.3 |
| S | 1.0 | 3.3 | .4 | * | * | .0 | | 4.8 | 6.2 | 3.5 | 3.3 | 3.7 | 3.0 | 3.5 | 7.5 | 6.2 | 6.2 |
| SW | 1.3 | 4.8 | .9 | * | .0 | .0 | | 7.1 | 6.6 | 7.3 | 6.3 | 5.8 | 5.8 | 4.6 | 7.1 | 7.2 | 11.2 |
| W | 2.2 | 14.6 | 8.5 | .4 | * | .0 | | 25.7 | 9.3 | 34.6 | 27.9 | 22.7 | 24.7 | 21.0 | 17.0 | 21.8 | 32.1 |
| NW | 2.5 | 19.0 | 19.6 | 1.5 | * | .0 | | 42.6 | 11.0 | 45.2 | 44.5 | 47.1 | 42.9 | 44.9 | 36.0 | 41.2 | 39.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.9 | | | | | | | 3.9 | .0 | 1.6 | 2.8 | 4.8 | 6.7 | 5.6 | 5.8 | 4.2 | 2.1 |
| TOT OBS | 2027 | 7229 | 4752 | 308 | 9 | 0 | 14325 | | 9.1 | 2575 | 1313 | 1697 | 920 | 1796 | 1787 | 2284 | 1953 |
| TOT PCT | 14.2 | 50.5 | 33.2 | 2.2 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.6 | 4.6 | .9 | * | .0 | | 9.1 | 8.9 | 6.1 | 10.3 | 13.1 | 7.9 |
| NE | 1.2 | .7 | .1 | * | .0 | | 2.0 | 6.8 | 1.1 | 2.0 | 3.3 | 1.7 |
| E | 1.3 | .6 | * | * | .0 | | 1.9 | 6.0 | 1.0 | 1.7 | 3.1 | 1.8 |
| SE | 1.9 | 1.1 | * | * | .0 | | 3.0 | 6.5 | 2.2 | 2.2 | 4.0 | 3.4 |
| S | 2.9 | 1.8 | .1 | * | .0 | | 4.8 | 6.2 | 3.4 | 3.5 | 5.5 | 6.2 |
| SW | 3.9 | 3.1 | .1 | .0 | .0 | | 7.1 | 6.6 | 7.0 | 5.8 | 5.8 | 9.0 |
| W | 8.0 | 15.8 | 1.8 | .1 | .0 | | 25.7 | 9.3 | 32.3 | 23.4 | 19.0 | 26.6 |
| NW | 9.1 | 27.1 | 6.3 | .2 | .0 | | 42.6 | 11.0 | 44.9 | 45.7 | 40.5 | 40.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.9 | | | | | | 3.9 | .0 | 2.0 | 5.5 | 9.7 | 3.3 |
| TOT OBS | 5108 | 7837 | 1330 | 50 | 0 | 14325 | | 9.1 | 3888 | 2617 | 3583 | 4237 |
| TOT PCT | 35.7 | 54.7 | 9.3 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

SEPTEMBER

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 6.7 | 45.9 | 41.9 | 3.4 | .1 | .0 | 10.4 | 100.0 | 3888 |
| 06&09 | 5.5 | 8.9 | 48.4 | 33.7 | 3.4 | .1 | .0 | 9.4 | 100.0 | 2617 |
| 12&15 | 5.7 | 17.4 | 51.0 | 24.6 | 1.3 | .1 | .0 | 7.6 | 100.0 | 3583 |
| 18&21 | 3.3 | 8.1 | 55.5 | 32.1 | 1.0 | * | .0 | 8.9 | 100.0 | 4237 |
| TOT | 564 | 1463 | 7229 | 4752 | 308 | 9 | 0 | 9.1 | | 14325 |
| PCT | 3.9 | 10.2 | 50.5 | 33.2 | 2.2 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 3.7 | .9 | 2.1 | 3.1 | | 4.4 |
| NE | .9 | .1 | .5 | .7 | | 4.2 |
| E | .8 | .2 | .4 | .7 | | 4.4 |
| SE | .8 | .3 | .5 | 1.0 | | 5.0 |
| S | 1.1 | .3 | .8 | 1.8 | | 5.3 |
| SW | 2.0 | .5 | 1.5 | 2.3 | | 4.9 |
| W | 10.6 | 2.2 | 4.8 | 7.5 | | 4.1 |
| NW | 18.2 | 3.7 | 10.2 | 11.6 | | 4.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.6 | .2 | .6 | 1.7 | | 4.5 |
| TOT OBS | 3630 | 769 | 1972 | 2787 | 9158 | 4.3 |
| TOT PCT | 39.6 | 8.4 | 21.5 | 30.4 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | * | .5 | 1.2 | 2.1 | .7 | .1 | * | .0 | * | 5.1 | |
| NE | .1 | * | .1 | .2 | .4 | .2 | * | * | .0 | * | 1.2 | |
| E | .1 | .0 | .1 | .2 | .4 | .2 | * | * | .0 | * | 1.1 | |
| SE | .1 | * | .1 | .3 | .7 | .2 | * | .0 | * | * | 1.3 | |
| S | .1 | * | .2 | .4 | 1.2 | .4 | .1 | * | .0 | * | 1.5 | |
| SW | .1 | * | .3 | .5 | 1.8 | .6 | .1 | * | * | * | 2.8 | |
| W | .3 | .1 | .6 | 2.4 | 5.9 | 1.6 | .2 | .1 | * | .1 | 13.7 | |
| NW | .6 | .3 | 1.8 | 5.0 | 9.2 | 2.7 | .4 | .1 | .1 | .3 | 23.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | * | .1 | .3 | 1.1 | .2 | * | .0 | * | .0 | 2.0 | |
| TOT OBS | 178 | 40 | 335 | 965 | 2086 | 620 | 82 | 23 | 16 | 47 | 4766 | 9158 |
| TOT PCT | 1.9 | .4 | 3.7 | 10.5 | 22.8 | 6.8 | .9 | .3 | .2 | .3 | 52.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .7 | .7 | .7 | .7 | .7 | .7 | .7 |
| * OR >5000 | .6 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >3500 | 1.2 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >2000 | 5.2 | 8.4 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| * OR >1000 | 14.3 | 29.9 | 31.2 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 |
| * OR >600 | 17.2 | 39.1 | 41.5 | 41.7 | 41.8 | 41.8 | 41.8 | 41.8 |
| * OR >300 | 17.6 | 41.5 | 44.8 | 45.3 | 45.4 | 45.4 | 45.5 | 45.5 |
| * OR >150 | 17.7 | 41.7 | 45.1 | 45.7 | 45.8 | 45.8 | 45.9 | 45.9 |
| * OR > 0 | 17.7 | 42.0 | 45.6 | 46.3 | 46.7 | 46.9 | 47.5 | 47.8 |
| TOTAL | 1633 | 3870 | 4202 | 4269 | 4305 | 4326 | 4375 | 4409 |

TOTAL NUMBER OF OBS: 9220

PCT FREQ NH <5/8: 52.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 27.2 | 7.5 | 9.6 | 4.9 | 3.1 | 4.0 | 8.3 | 7.0 | 26.7 | 1.6 | 9524 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | .0 | * | |
| | NO PCP | .2 | .1 | * | .1 | .1 | .1 | .2 | .4 | .0 | .2 | 1.5 | |
| | TOT % | .2 | .1 | * | .1 | .1 | .1 | .2 | .4 | .0 | .2 | 1.5 | |
| 1/2<1 | PCP | * | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | * | * | |
| | NO PCP | .1 | * | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | .9 | |
| | TOT % | .1 | * | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.0 | |
| 1<2 | PCP | * | .0 | .0 | * | * | .0 | .0 | .0 | .0 | * | * | |
| | NO PCP | .1 | * | * | .1 | .2 | .2 | .3 | .6 | .0 | .2 | 1.7 | |
| | TOT % | .1 | * | * | .1 | .2 | .2 | .3 | .6 | .0 | .2 | 1.8 | |
| 2<5 | PCP | .1 | * | .0 | * | * | * | .1 | .1 | .0 | * | .3 | |
| | NO PCP | .6 | .2 | .2 | .4 | .5 | .7 | 1.5 | 2.3 | .0 | .5 | 6.9 | |
| | TOT % | .7 | .3 | .2 | .4 | .5 | .7 | 1.5 | 2.3 | .0 | .5 | 7.1 | |
| 5<10 | PCP | .1 | * | * | * | * | .1 | .1 | .1 | .0 | * | .4 | |
| | NO PCP | 4.4 | .9 | .9 | 1.3 | 2.2 | 3.1 | 11.6 | 18.4 | .0 | 1.5 | 44.4 | |
| | TOT % | 4.5 | .9 | .9 | 1.3 | 2.2 | 3.1 | 11.7 | 18.5 | .0 | 1.6 | 44.8 | |
| 10+ | PCP | * | * | * | .0 | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | 3.6 | .7 | .6 | 1.1 | 1.6 | 2.9 | 11.8 | 20.2 | .0 | 1.2 | 43.8 | |
| | TOT % | 3.6 | .7 | .6 | 1.1 | 1.7 | 3.0 | 11.8 | 20.2 | .0 | 1.2 | 43.9 | |
| | TOT OBS | | | | | | | | | | | | 13821 |
| | TOT PCT | 9.2 | 2.0 | 1.9 | 3.0 | 4.8 | 7.1 | 25.8 | 42.3 | .0 | 3.8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | * | * | * | * | .1 | .2 | .0 | .2 | .7 | |
| | 4-10 | .1 | * | * | * | .1 | .1 | .1 | .2 | .0 | | .7 | |
| | 11-21 | * | * | * | * | * | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | .1 | * | .1 | .1 | .1 | .2 | .4 | .0 | .2 | 1.5 | |
| 1/2<1 | 0-3 | * | .0 | * | * | * | * | * | .1 | .0 | .1 | .3 | |
| | 4-10 | .1 | * | * | * | * | * | .1 | .2 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | * | .0 | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .1 | * | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .1 | 1.0 | |
| 1<2 | 0-3 | * | * | * | * | .1 | .1 | .1 | .2 | .0 | .2 | .7 | |
| | 4-10 | .1 | * | * | .1 | .1 | .2 | .2 | .4 | .0 | | 1.1 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | * | .1 | .2 | .0 | | .3 | |
| | 22+ | .0 | * | .0 | * | * | * | .0 | * | .0 | | * | |
| | TOT % | .2 | .1 | * | .1 | .2 | .2 | .4 | .7 | .0 | .2 | 2.1 | |
| 2<5 | 0-3 | .2 | .1 | .1 | .1 | .1 | .2 | .2 | .3 | .0 | .6 | 1.9 | |
| | 4-10 | .3 | .1 | .1 | .2 | .4 | .4 | 1.0 | 1.2 | .0 | | 3.7 | |
| | 11-21 | .1 | * | * | * | * | .1 | .4 | .9 | .0 | | 1.6 | |
| | 22+ | * | .0 | .0 | * | .0 | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .7 | .3 | .2 | .4 | .5 | .7 | 1.6 | 2.4 | .0 | .6 | 7.2 | |
| 5<10 | 0-3 | .6 | .3 | .2 | .3 | .5 | .6 | 1.0 | 1.1 | .0 | 1.6 | 6.2 | |
| | 4-10 | 2.3 | .5 | .6 | 7 | 1.5 | 2.1 | 6.6 | 8.8 | .0 | | 22.7 | |
| | 11-21 | 1.3 | .1 | .1 | .2 | .2 | .4 | 3.8 | 8.2 | .0 | | 14.3 | |
| | 22+ | .1 | * | * | * | * | * | .2 | .6 | .0 | | 1.0 | |
| | TOT % | 4.4 | .9 | .9 | 1.3 | 2.2 | 3.1 | 11.5 | 18.3 | .0 | 1.6 | 44.2 | |
| 10+ | 0-3 | .3 | .1 | .1 | .2 | .4 | .5 | .8 | .7 | .0 | 1.3 | 4.8 | |
| | 4-10 | 2.0 | .4 | .4 | .7 | 1.1 | 2.1 | 6.5 | 8.5 | .0 | | 21.7 | |
| | 11-21 | 1.2 | .2 | .1 | .2 | .1 | .4 | 4.3 | 10.3 | .0 | | 16.8 | |
| | 22+ | .1 | * | * | * | * | * | .2 | .8 | .0 | | 1.1 | |
| | TOT % | 3.6 | .7 | .6 | 1.1 | 1.6 | 2.9 | 11.8 | 20.3 | .0 | 1.3 | 44.0 | |
| | TOT OBS | | | | | | | | | | | | 14171 |
| | TOT PCT | 9.1 | 2.0 | 1.9 | 3.0 | 4.8 | 7.1 | 25.7 | 42.5 | .0 | 3.9 | 100.0 | |

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .6 | .4 | 2.8 | 9.2 | 17.6 | 5.0 | .6 | .3 | .2 | .5 | 37.2 | 62.8 | 2328 |
| 06&09 | 1.5 | .1 | 3.1 | 9.0 | 21.1 | 6.0 | 1.2 | .3 | .1 | .6 | 43.2 | 56.8 | 2111 |
| 12&15 | 2.9 | .5 | 5.3 | 12.3 | 27.4 | 7.7 | .9 | .3 | .1 | .5 | 57.8 | 42.2 | 2232 |
| 18&21 | 2.5 | .7 | 4.2 | 10.6 | 23.2 | 7.6 | .8 | .1 | .2 | .4 | 49.3 | 50.7 | 2734 |
| TOT | 179 | 40 | 336 | 970 | 2099 | 622 | 84 | 23 | 16 | 47 | 4416 | 4987 | 9403 |
| PCT | 1.9 | .4 | 3.6 | 10.3 | 22.3 | 6.6 | .9 | .2 | .2 | .5 | 47.0 | 53.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .7 | .6 | 1.6 | 6.4 | 44.2 | 46.5 | 3869 |
| 06&09 | 1.0 | .2 | .4 | 3.9 | 45.2 | 49.3 | 2614 |
| 12&15 | 2.6 | 1.8 | 3.4 | 8.4 | 44.5 | 39.3 | 3567 |
| 18&21 | 1.6 | 1.2 | 2.6 | 9.0 | 43.0 | 42.5 | 4234 |
| TOT | 218 | 143 | 301 | 1033 | 6298 | 6291 | 14284 |
| PCT | 1.5 | 1.0 | 2.1 | 7.2 | 44.1 | 44.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .7 | 4.0 | 15.6 | 23.8 | 60.6 | 2279 |
| 06&09 | 1.4 | 4.9 | 16.3 | 29.2 | 54.5 | 2081 |
| 12&15 | 2.9 | 9.4 | 25.1 | 36.0 | 38.9 | 2191 |
| 18&21 | 2.6 | 7.0 | 23.2 | 30.8 | 46.0 | 2669 |
| TOT | 178 | 588 | 1864 | 2760 | 4596 | 9220 |
| PCT | 1.9 | 6.4 | 20.2 | 29.9 | 49.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 90/94 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | 11 | .1 |
| 85/89 | * | .1 | .1 | * | * | .0 | .0 | .0 | 25 | .2 |
| 80/84 | * | .1 | .1 | .1 | .1 | * | * | * | 62 | .5 |
| 75/79 | * | * | .1 | .3 | .6 | 1.0 | .2 | .2 | 288 | 2.5 |
| 70/74 | .0 | .0 | .1 | .5 | 2.3 | 4.7 | 5.5 | 2.1 | 1797 | 15.4 |
| 65/69 | .0 | .0 | * | .2 | 2.2 | 10.8 | 22.4 | 12.5 | 5638 | 48.2 |
| 60/64 | .0 | .0 | .0 | * | .9 | 5.0 | 16.6 | 9.0 | 3683 | 31.5 |
| 55/59 | .0 | .0 | .0 | .0 | * | .1 | .8 | .7 | 192 | 1.6 |
| TOTAL | 13 | 28 | 50 | 141 | 749 | 2528 | 5329 | 2858 | 11696 | 100.0 |
| PCT | .1 | .2 | .4 | 1.2 | 6.4 | 21.6 | 45.6 | 24.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | * | .0 | .0 | .0 | * | * | .0 | * |
| * | * | * | * | * | * | * | .1 | .0 | * |
| .1 | * | * | * | * | * | .1 | .2 | .0 | .1 |
| .3 | .1 | .1 | .1 | .1 | .2 | .6 | 1.0 | .0 | .1 |
| 1.2 | .4 | .3 | .6 | .8 | 1.3 | 4.1 | 6.1 | .0 | .6 |
| 4.2 | 1.0 | 1.0 | 1.7 | 2.6 | 3.7 | 12.4 | 19.6 | .0 | 1.9 |
| 3.2 | .6 | .5 | .7 | 1.6 | 2.0 | 7.9 | 14.2 | .0 | .9 |
| .2 | * | .0 | * | .1 | .1 | .4 | .8 | .0 | .1 |
| 9.2 | 2.1 | 1.9 | 3.2 | 5.2 | 7.3 | 25.4 | 42.0 | .0 | 3.7 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 93 | 80 | 74 | 67 | 62 | 60 | 58 | 67.2 | 3903 |
| 06&09 | 86 | 73 | 70 | 65 | 60 | 58 | 55 | 65.0 | 2640 |
| 12&15 | 93 | 76 | 70 | 65 | 60 | 58 | 54 | 64.9 | 3598 |
| 18&21 | 94 | 79 | 74 | 67 | 62 | 59 | 54 | 67.4 | 4248 |
| TOT | 94 | 78 | 73 | 66 | 61 | 59 | 54 | 66.3 | 14389 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .2 | 2.6 | 8.2 | 24.4 | 43.4 | 21.2 | 81 | 3293 |
| 06&09 | .0 | .7 | 2.0 | 15.3 | 53.9 | 28.1 | 85 | 2044 |
| 12&15 | .0 | 1.1 | 4.0 | 15.3 | 46.1 | 33.6 | 85 | 2918 |
| 18&21 | .2 | 2.7 | 9.4 | 27.8 | 42.0 | 17.9 | 80 | 3538 |
| TOT | 13 | 224 | 758 | 2547 | 5362 | 2889 | 83 | 11793 |

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | 89 92 | >92 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | 4 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | 11 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | * | .1 | * | .0 | 18 | .0 | .1 |
| 14/16 | .0 | .0 | * | * | * | .1 | * | .1 | * | * | * | 36 | .0 | .3 |
| 11/13 | .0 | .0 | * | * | .2 | .2 | .1 | .1 | * | .0 | .0 | 93 | * | .7 |
| 9/10 | .0 | .0 | * | .1 | .3 | .3 | .2 | * | * | .0 | .0 | 124 | .1 | .9 |
| 7/8 | .0 | * | .1 | .3 | .7 | .7 | .3 | * | .0 | .0 | .0 | 265 | .2 | 1.9 |
| 6 | .0 | * | * | .3 | .7 | .5 | .1 | * | .0 | .0 | .0 | 208 | .1 | 1.5 |
| 5 | * | * | .1 | .6 | 1.1 | .6 | .1 | .0 | .0 | .0 | .0 | 316 | .1 | 2.3 |
| 4 | .0 | * | .2 | 1.0 | 1.5 | .5 | .1 | .0 | .0 | .0 | .0 | 432 | .2 | 3.2 |
| 3 | .0 | * | .2 | 1.5 | 2.0 | .6 | * | .0 | .0 | .0 | .0 | 536 | .2 | 4.0 |
| 2 | .0 | * | .8 | 2.8 | 2.9 | .4 | * | .0 | .0 | .0 | .0 | 864 | .4 | 6.4 |
| 1 | .0 | * | 1.0 | 3.7 | 2.9 | .3 | * | .0 | .0 | .0 | .0 | 1013 | .4 | 7.6 |
| 0 | .0 | .1 | 2.3 | 6.0 | 2.1 | .1 | * | * | .0 | .0 | .0 | 1361 | .7 | 10.0 |
| -1 | .0 | .2 | 2.4 | 6.3 | 1.9 | .2 | .0 | .0 | .0 | .0 | .0 | 1386 | .6 | 10.3 |
| -2 | .0 | .3 | 4.1 | 6.1 | 1.1 | .1 | * | .0 | .0 | .0 | .0 | 1473 | .7 | 10.9 |
| -3 | .0 | .4 | 4.3 | 5.3 | .6 | .1 | .0 | .0 | .0 | .0 | .0 | 1352 | .9 | 9.8 |
| -4 | .0 | .6 | 4.9 | 3.2 | .3 | * | * | .0 | .0 | .0 | .0 | 1150 | .6 | 8.5 |
| -5 | * | .5 | 3.5 | 2.1 | .2 | * | .0 | .0 | .0 | .0 | .0 | 809 | .4 | 6.0 |
| -6 | * | .8 | 2.7 | .9 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 569 | .3 | 4.1 |
| -7/-8 | * | .8 | 2.3 | .7 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 498 | .4 | 3.6 |
| -9/-10 | * | .3 | .5 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | 134 | .2 | .9 |
| -11/-13 | * | * | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 23 | * | .1 |
| -14/-16 | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7 | * | * |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 14 | 547 | 3726 | 5231 | 2372 | 584 | 132 | 40 | 23 | 12 | 3 | 12684 | 823 | 11861 |
| PCT | .1 | 4.3 | 29.4 | 41.2 | 18.7 | 4.6 | 1.0 | .3 | .2 | .1 | * | 100.0 | 6.5 | 93.5 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.3 | .1 | .0 | .0 | .0 | 1.8 |
| 1-2 | .4 | 2.7 | 1.6 | .0 | .0 | .0 | 4.8 |
| 3-4 | .0 | 1.0 | 1.6 | .1 | .0 | .0 | 2.7 |
| 5-6 | .0 | .1 | .3 | .1 | .0 | .0 | .5 |
| 7 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 5.2 | 3.7 | .2 | .0 | .0 | 10.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .6 | * | .0 | .0 | .0 | .9 |
| 1-2 | .1 | .5 | .5 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .2 | .2 | * | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | * | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.4 | .8 | * | .0 | .0 | 3.8 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .7 | * | .0 | .0 | .0 | 1.0 |
| 1-2 | .1 | .7 | .1 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.5 | .2 | .1 | .0 | .0 | 2.0 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | .1 | .0 | .0 | .0 | 1.2 |
| 1-2 | .1 | 1.3 | .5 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .2 | .1 | * | .0 | .0 | .3 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.4 | .6 | * | .0 | .0 | 3.4 |

PERIOD: (OVER-ALL) 1963-1973 SEPTEMBER AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.0 | * | .0 | .0 | .0 | 1.6 |
| 1-2 | .1 | 1.9 | .3 | .0 | .0 | .0 | 2.3 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 3.1 | .4 | .0 | .0 | .0 | 4.2 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.5 | .1 | .0 | .0 | .0 | 1.9 |
| 1-2 | .3 | 2.7 | .4 | .0 | .0 | .0 | 3.4 |
| 3-4 | .1 | .7 | .1 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | * | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 4.6 | .6 | .0 | .0 | .0 | 6.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 2.7 | .1 | .0 | .0 | .0 | 3.3 |
| 1-2 | .7 | 7.5 | 4.2 | .0 | .0 | .0 | 12.4 |
| 3-4 | .1 | 2.7 | 3.4 | .1 | .0 | .0 | 6.3 |
| 5-6 | * | .3 | .4 | .1 | .0 | .0 | .8 |
| 7 | .0 | .1 | .2 | * | .0 | .0 | .3 |
| 8-9 | .0 | * | * | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.4 | 13.3 | 8.3 | .3 | .0 | .0 | 23.2 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .8 | 3.1 | .1 | .0 | .0 | .0 | 4.1 | |
| 1-2 | .8 | 10.2 | 8.9 | .0 | .0 | .0 | 20.0 | |
| 3-4 | .1 | 5.1 | 8.2 | .6 | .0 | .0 | 14.1 | |
| 5-6 | * | 1.0 | 3.0 | .3 | .0 | .0 | 4.3 | |
| 7 | .1 | .2 | 1.2 | .5 | .0 | .0 | 1.9 | |
| 8-9 | .0 | .1 | .2 | .2 | .0 | .0 | .4 | |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.8 | 19.8 | 21.7 | 1.6 | .0 | .0 | 44.9 | 96.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.8 | 11.8 | .6 | .0 | .0 | .0 | 19.2 | |
| 1-2 | 3.0 | 27.6 | 16.5 | .0 | .0 | .0 | 47.1 | |
| 3-4 | .5 | 9.7 | 13.7 | 1.0 | .0 | .0 | 24.9 | |
| 5-6 | * | 1.5 | 3.7 | .5 | .0 | .0 | 5.8 | |
| 7 | .1 | .3 | 1.5 | .5 | .0 | .0 | 2.4 | |
| 8-9 | .0 | .1 | .2 | .2 | .0 | .0 | .5 | |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 10.3 | 51.1 | 36.4 | 2.2 | .0 | .0 | 100.0 | 3369 |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.8 | 29.3 | 22.4 | 4.7 | 1.6 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4147 | 3 |
| 6-7 | .1 | 4.2 | 7.6 | 3.6 | 1.6 | .6 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1215 | 4 |
| 8-9 | .1 | 1.1 | 2.3 | 1.4 | .6 | .4 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 422 | 4 |
| 10-11 | .0 | .6 | .8 | .4 | .4 | .2 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 174 | 5 |
| 12-13 | .0 | .0 | .3 | .1 | .2 | .1 | * | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 56 | 6 |
| >13 | .0 | .0 | .0 | .1 | .1 | .0 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12 | 8 |
| INDET | 8.2 | 1.9 | .5 | .1 | * | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 735 | 1 |
| TOTAL | 765 | 2512 | 2291 | 708 | 300 | 112 | 37 | 17 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6761 | 3 |
| PCT | 11.3 | 37.2 | 33.9 | 10.5 | 4.4 | 1.7 | .5 | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | .1 | .3 | .0 | .0 | .0 | .0 | .7 | .1 | .2 | 10.5 | .1 | 12.1 | | * | 76.3 |
| NE | 1.5 | .7 | .5 | .0 | .0 | .0 | .0 | 2.5 | .2 | .0 | 12.7 | .0 | 15.9 | | .0 | 68.7 |
| E | 1.1 | .6 | 1.0 | .0 | .0 | .0 | .0 | 2.3 | .0 | .0 | 10.5 | .6 | 12.1 | | .0 | 74.5 |
| SE | 1.6 | .6 | 1.0 | .0 | .0 | .0 | .0 | 3.0 | .2 | .1 | 10.2 | .0 | 16.6 | | .0 | 70.0 |
| S | .9 | .5 | .9 | .0 | .0 | .0 | 0 | 2.3 | .4 | .1 | 9.2 | .2 | 15.9 | | .0 | 72.0 |
| SW | .4 | .2 | .3 | .0 | .0 | .0 | .0 | .9 | .3 | .0 | 7.3 | .1 | 13.2 | | .0 | 78.2 |
| W | .2 | .1 | .3 | .0 | .0 | .0 | .0 | .6 | .1 | .1 | 6.5 | .1 | 11.2 | | * | 81.3 |
| NW | .1 | .2 | .2 | .0 | .0 | .0 | .0 | .5 | .1 | .2 | 6.5 | .1 | 9.6 | | * | 83.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .2 | .0 | .3 | .0 | .0 | .0 | .0 | .5 | .2 | .8 | 15.4 | .2 | 21.1 | | .2 | 61.9 |
| TOT PCT | .4 | .2 | .4 | .0 | .0 | .0 | .0 | .9 | .2 | .2 | 8.0 | .1 | 11.9 | | * | 78.7 |
| TOT OBS: 15267 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .1 | .2 | .0 | .0 | .0 | .0 | .6 | * | .1 | 5.0 | .1 | 11.4 | | * | 82.6 |
| 06&09 | .2 | .2 | .3 | .0 | .0 | .0 | .0 | .8 | .1 | .3 | 7.8 | .1 | 9.2 | | .0 | 81.7 |
| 12&15 | .4 | .4 | .5 | .0 | .0 | .0 | .0 | 1.3 | .2 | .2 | 10.6 | .1 | 11.8 | | .1 | 75.8 |
| 18&21 | .4 | .2 | .4 | .0 | .0 | .0 | .0 | 1.0 | .2 | .0 | 8.9 | .1 | 13.9 | | * | 75.9 |
| TOT PCT | .4 | .2 | .4 | .0 | .0 | .0 | .0 | .9 | .1 | .1 | 8.0 | .1 | 11.8 | | * | 78.8 |
| TOT OBS: 15438 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.8 | 6.3 | 3.1 | .2 | * | .0 | | 11.5 | 8.3 | 7.0 | 11.0 | 13.2 | 13.4 | 14.2 | 14.5 | 14.0 | 7.4 |
| NE | 1.1 | 2.3 | .4 | * | * | .0 | | 3.9 | 6.2 | 1.2 | 3.6 | 2.4 | 3.6 | 5.3 | 8.1 | 5.2 | 2.6 |
| E | .9 | 1.9 | .4 | * | .0 | .0 | | 3.2 | 5.9 | 1.2 | 2.0 | 3.1 | 3.4 | 4.1 | 6.5 | 4.4 | 1.3 |
| SE | 1.0 | 2.3 | .3 | * | .0 | .0 | | 3.6 | 5.6 | 1.8 | 3.3 | 3.5 | 4.2 | 3.2 | 7.1 | 5.1 | 1.8 |
| S | 1.2 | 3.2 | .5 | * | .0 | .0 | | 4.9 | 6.1 | 4.0 | 4.8 | 3.2 | 3.4 | 4.6 | 5.7 | 6.9 | 5.9 |
| SW | 1.5 | 4.6 | 1.0 | * | .0 | .0 | | 7.1 | 6.7 | 7.0 | 6.7 | 5.9 | 8.0 | 5.1 | 6.3 | 6.8 | 11.0 |
| W | 2.4 | 13.4 | 6.8 | .6 | * | .0 | | 23.3 | 9.1 | 31.3 | 24.7 | 22.0 | 23.8 | 18.7 | 14.1 | 18.5 | 29.9 |
| NW | 2.7 | 18.2 | 15.4 | 1.7 | * | .0 | | 38.1 | 10.7 | 44.9 | 41.9 | 41.4 | 34.1 | 37.3 | 29.2 | 33.9 | 38.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.5 | | | | | | | 4.5 | .0 | 1.7 | 2.1 | 5.3 | 6.0 | 7.4 | 8.6 | 5.2 | 1.6 |
| TOT OBS | 2726 | 8263 | 4429 | 420 | 12 | 0 | 15850 | | 8.5 | 2957 | 1494 | 1951 | 989 | 2013 | 1926 | 2383 | 2137 |
| TOT PCT | 17.2 | 52.1 | 27.9 | 2.6 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.0 | 5.7 | .7 | * | .0 | | 11.5 | 8.3 | 8.3 | 13.3 | 14.6 | 10.9 |
| NE | 2.5 | 1.3 | .1 | * | .0 | | 3.9 | 6.2 | 2.0 | 2.8 | 6.7 | 4.0 |
| E | 2.1 | 1.0 | .1 | .0 | .0 | | 3.2 | 5.9 | 1.4 | 3.2 | 5.3 | 3.0 |
| SE | 2.5 | 1.0 | .1 | .0 | .0 | | 3.6 | 5.6 | 2.3 | 3.7 | 5.1 | 3.6 |
| S | 3.1 | 1.7 | .1 | .0 | .0 | | 4.9 | 6.1 | 4.3 | 3.3 | 5.2 | 6.4 |
| SW | 3.9 | 3.0 | .2 | * | .0 | | 7.1 | 6.7 | 6.9 | 6.6 | 5.7 | 8.8 |
| W | 8.2 | 13.0 | 1.9 | .2 | .0 | | 23.3 | 9.1 | 29.0 | 22.6 | 16.5 | 23.9 |
| NW | 9.6 | 23.0 | 5.0 | .4 | .0 | | 38.1 | 10.7 | 43.9 | 38.9 | 33.3 | 36.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.5 | | | | | | 4.5 | .0 | 1.8 | 5.5 | 7.9 | 3.5 |
| TOT OBS | 6575 | 7871 | 1301 | 103 | 0 | 15850 | | 8.5 | 4451 | 2940 | 3939 | 4520 |
| TOT PCT | 41.5 | 49.7 | 8.2 | .6 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

OCTOBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 8.5 | 50.8 | 35.7 | 3.1 | .1 | .0 | 9.7 | 100.0 | 4451 |
| 06&09 | 5.5 | 12.2 | 50.4 | 28.0 | 3.8 | .1 | .0 | 8.8 | 100.0 | 2940 |
| 12&15 | 7.9 | 18.9 | 50.4 | 20.6 | 2.1 | .1 | .0 | 7.2 | 100.0 | 3939 |
| 18&21 | 3.5 | 11.7 | 56.1 | 26.7 | 1.9 | * | .0 | 8.4 | 100.0 | 4520 |
| TOT | 718 | 2008 | 8263 | 4429 | 420 | 12 | 0 | 8.5 | | 15850 |
| PCT | 4.5 | 12.7 | 52.1 | 27.9 | 2.6 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 6.4 | 1.0 | 2.2 | 2.9 | | 3.4 |
| NE | 2.2 | .2 | .6 | .8 | | 3.2 |
| E | 1.5 | .3 | .5 | .9 | | 3.7 |
| SE | 1.1 | .3 | .8 | 1.3 | | 4.8 |
| S | 1.4 | .4 | 1.0 | 1.8 | | 4.9 |
| SW | 2.3 | .6 | 1.4 | 2.3 | | 4.6 |
| W | 9.4 | 2.2 | 5.4 | 5.9 | | 4.1 |
| NW | 17.0 | 3.9 | 8.0 | 9.3 | | 3.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.8 | .3 | .9 | 1.8 | | 4.6 |
| TOT OBS | 4325 | 920 | 2081 | 2704 | 10030 | 4.0 |
| TOT PCT | 43.1 | 9.2 | 20.7 | 27.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | * | .2 | .8 | 2.1 | .7 | .1 | .0 | * | * | 8.0 | |
| NE | .1 | .0 | .1 | .2 | .7 | .2 | * | * | * | * | 2.4 | |
| E | .1 | .0 | .1 | .3 | .6 | .1 | * | * | * | * | 2.0 | |
| SE | .1 | * | .1 | .3 | 1.0 | .3 | .1 | * | * | * | 1.6 | |
| S | .1 | * | .1 | .4 | 1.1 | .4 | .1 | * | * | * | 2.2 | |
| SW | .1 | * | .2 | .5 | 1.5 | .6 | .1 | * | * | * | 3.4 | |
| W | .4 | .1 | .4 | 1.6 | 4.6 | 2.0 | .3 | .1 | * | .2 | 13.2 | |
| NW | .8 | * | .8 | 2.8 | 7.4 | 2.6 | .5 | .1 | .1 | .2 | 23.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | * | .1 | .5 | 1.1 | .4 | * | * | * | * | 2.3 | |
| TOT OBS | 220 | 17 | 208 | 746 | 2019 | 733 | 130 | 29 | 31 | 56 | 5041 | 10030 |
| TOT PCT | 2.2 | .2 | 2.1 | 7.4 | 20.1 | 7.3 | 1.3 | .3 | .3 | .6 | 58.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .8 | .8 | .8 | .8 | .8 | .9 | .9 |
| * OR >5000 | .6 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >3500 | 1.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| * OR >2000 | 5.2 | 9.4 | 9.7 | 9.7 | 9.7 | 9.7 | 9.8 | 9.8 |
| * OR >1000 | 12.7 | 27.3 | 29.3 | 29.6 | 29.7 | 29.8 | 29.8 | 29.8 |
| * OR >600 | 14.5 | 33.1 | 36.3 | 36.9 | 37.1 | 37.1 | 37.1 | 37.1 |
| * OR >300 | 14.7 | 34.3 | 38.1 | 38.8 | 39.2 | 39.2 | 39.2 | 39.2 |
| * OR >150 | 14.8 | 34.4 | 38.2 | 39.0 | 39.3 | 39.4 | 39.4 | 39.4 |
| * OR > 0 | 14.8 | 34.6 | 38.7 | 39.6 | 40.4 | 40.7 | 41.3 | 41.6 |
| TOTAL | 1502 | 3505 | 3917 | 4014 | 4093 | 4120 | 4180 | 4211 |

TOTAL NUMBER OF OBS: 10133 PCT FREQ NH <5/8: 58.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 32.5 | 7.1 | 10.6 | 5.0 | 3.1 | 4.4 | 7.7 | 5.6 | 22.3 | 1.8 | 10473 |

OCTOBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | * | * | * | * | .0 | .0 | * | .0 | .0 | * | |
| <1/2 | NO PCP | .4 | .1 | .1 | .1 | .1 | .1 | .4 | .6 | .0 | .2 | 2.1 | |
| | TOT % | .4 | .1 | .1 | .1 | .1 | .1 | .4 | .7 | .0 | .2 | 2.2 | |
| | PCP | .0 | * | .0 | * | * | * | * | * | .0 | .0 | * | |
| 1/2<1 | NO PCP | .3 | .1 | .1 | .1 | .1 | .1 | .2 | .6 | .0 | .1 | 1.5 | |
| | TOT % | .3 | .1 | .1 | .1 | .1 | .1 | .2 | .6 | .0 | .1 | 1.6 | |
| | PCP | * | * | .0 | .0 | * | * | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .3 | .2 | .1 | .1 | .2 | .1 | .4 | .7 | .0 | .2 | 2.5 | |
| | TOT % | .3 | .2 | .1 | .1 | .2 | .1 | .4 | .7 | .0 | .2 | 2.5 | |
| | PCP | * | * | * | * | * | * | * | * | .0 | * | .2 | |
| 2<5 | NO PCP | .9 | .4 | .3 | .3 | .5 | .7 | 1.5 | 2.2 | .0 | .4 | 7.1 | |
| | TOT % | .9 | .4 | .3 | .4 | .5 | .7 | 1.5 | 2.2 | .0 | .4 | 7.3 | |
| | PCP | * | * | * | * | * | * | .1 | .1 | .0 | * | .4 | |
| 5<10 | NO PCP | 4.3 | 1.6 | 1.3 | 1.6 | 2.2 | 2.9 | 9.3 | 13.4 | .0 | 1.9 | 38.4 | |
| | TOT % | 4.3 | 1.6 | 1.3 | 1.6 | 2.3 | 3.0 | 9.4 | 13.5 | .0 | 1.9 | 38.8 | |
| | PCP | * | * | * | * | * | * | * | * | .0 | .0 | .2 | |
| 10+ | NO PCP | 5.4 | 1.5 | 1.4 | 1.3 | 1.7 | 3.0 | 11.4 | 20.2 | .0 | 1.5 | 47.5 | |
| | TOT % | 5.4 | 1.5 | 1.4 | 1.3 | 1.8 | 3.0 | 11.4 | 20.2 | .0 | 1.5 | 47.6 | |
| | TOT OBS | | | | | | | | | | | | 15260 |
| | TOT PCT | 11.6 | 4.0 | 3.3 | 3.7 | 4.9 | 7.1 | 23.3 | 38.0 | .0 | 4.2 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | .1 | * | .1 | * | * | .1 | .1 | .0 | .2 | .8 | |
| <1/2 | 4-10 | .2 | .1 | * | * | .1 | .1 | .2 | .4 | .0 | | 1.2 | |
| | 11-21 | * | * | .0 | .0 | * | * | .1 | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .3 | .1 | .1 | .1 | .1 | .1 | .4 | .7 | .0 | .2 | 2.3 | |
| | 0-3 | .1 | * | * | * | * | .1 | * | .1 | .0 | .1 | .6 | |
| 1/2<1 | 4-10 | .2 | * | * | * | * | .1 | .1 | .4 | .0 | | .9 | |
| | 11-21 | * | .0 | .0 | * | * | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .3 | .1 | .1 | .1 | .1 | .2 | .2 | .6 | .0 | .1 | 1.7 | |
| | 0-3 | .1 | .1 | * | * | .1 | .1 | .1 | .1 | .0 | .2 | .9 | |
| 1<2 | 4-10 | .2 | .1 | .1 | .1 | .1 | .1 | .3 | .6 | .0 | | 1.6 | |
| | 11-21 | * | * | .0 | * | * | .0 | .1 | .2 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | * | .0 | * | * | .0 | | * | |
| | TOT % | .4 | .2 | .1 | .2 | .2 | .2 | .5 | .9 | .0 | .2 | 2.6 | |
| | 0-3 | .2 | .2 | .1 | .1 | .2 | .2 | .3 | .3 | .0 | .4 | 1.9 | |
| 2<5 | 4-10 | .5 | .2 | .2 | .2 | .3 | .4 | .9 | 1.5 | .0 | | 4.2 | |
| | 11-21 | .2 | * | * | * | * | * | .4 | .6 | .0 | | 1.3 | |
| | 22+ | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | | * | |
| | TOT % | .9 | .4 | .3 | .4 | .5 | .7 | 1.6 | 2.3 | .0 | .4 | 7.5 | |
| | 0-3 | .7 | .5 | .4 | .4 | .5 | .6 | .9 | 1.0 | .0 | 1.9 | 6.9 | |
| 5<10 | 4-10 | 2.3 | .9 | .8 | 1.0 | 1.5 | 1.9 | 5.7 | 6.7 | .0 | | 20.8 | |
| | 11-21 | 1.1 | .1 | .1 | .1 | .2 | .4 | 2.5 | 5.2 | .0 | | 9.9 | |
| | 22+ | * | * | .0 | .0 | * | * | .1 | .4 | .0 | | .6 | |
| | TOT % | 4.2 | 1.6 | 1.3 | 1.6 | 2.2 | 2.9 | 9.2 | 13.3 | .0 | 1.9 | 38.1 | |
| | 0-3 | .6 | .3 | .3 | .3 | .4 | .5 | .9 | 1.0 | .0 | 1.6 | 6.0 | |
| 10+ | 4-10 | 2.8 | 1.0 | .8 | .9 | 1.1 | 2.0 | 6.2 | 8.6 | .0 | | 23.4 | |
| | 11-21 | 1.8 | .2 | .2 | .1 | .2 | .5 | 3.8 | 9.1 | .0 | | 16.0 | |
| | 22+ | .2 | * | * | * | * | * | .5 | 1.4 | .0 | | 2.1 | |
| | TOT % | 5.4 | 1.5 | 1.3 | 1.3 | 1.7 | 3.0 | 11.5 | 20.1 | .0 | 1.6 | 47.5 | |
| | TOT OBS | | | | | | | | | | | | 15660 |
| | TOT PCT | 11.5 | 3.9 | 3.2 | 3.6 | 4.9 | 7.1 | 23.3 | 38.0 | .0 | 4.5 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.2 | .1 | 1.8 | 5.9 | 16.2 | 5.6 | 1.2 | .2 | .3 | .9 | 33.5 | 66.5 | 2653 |
| 06&09 | 2.0 | .1 | 1.8 | 7.5 | 18.6 | 6.2 | 1.0 | .2 | .3 | .3 | 38.0 | 62.0 | 2397 |
| 12&15 | 2.4 | .2 | 2.4 | 8.9 | 23.6 | 8.8 | 1.2 | .3 | .3 | .3 | 48.4 | 51.6 | 2388 |
| 18&21 | 2.9 | .2 | 2.3 | 7.0 | 20.7 | 8.1 | 1.5 | .5 | .3 | .6 | 44.0 | 56.0 | 2876 |
| TOT | 221 | 17 | 212 | 748 | 2032 | 743 | 130 | 31 | 31 | 56 | 4221 | 6098 | 10319 |
| PCT | 2.1 | .2 | 2.1 | 7.2 | 19.7 | 7.2 | 1.3 | .3 | .3 | .5 | 40.9 | 59.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.5 | 1.2 | 2.2 | 6.8 | 38.2 | 50.1 | 4449 |
| 06&09 | 1.6 | .7 | 1.0 | 5.4 | 39.4 | 51.9 | 2935 |
| 12&15 | 3.8 | 2.4 | 4.1 | 7.6 | 38.4 | 43.6 | 3929 |
| 18&21 | 2.3 | 2.1 | 3.5 | 9.3 | 36.6 | 46.1 | 4522 |
| TOT | 366 | 268 | 448 | 1183 | 6021 | 7549 | 15835 |
| PCT | 2.3 | 1.7 | 2.8 | 7.5 | 38.0 | 47.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 3.8 | 13.9 | 23.2 | 63.0 | 2598 |
| 06&09 | 2.0 | 4.4 | 15.5 | 25.7 | 58.8 | 2355 |
| 12&15 | 2.5 | 5.9 | 19.1 | 32.3 | 48.6 | 2358 |
| 18&21 | 2.9 | 6.7 | 21.1 | 28.3 | 50.6 | 2822 |
| TOT | 223 | 528 | 1771 | 2767 | 5595 | 10133 |
| PCT | 2.2 | 5.2 | 17.5 | 27.3 | 55.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 90/94 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 85/89 | * | * | * | .0 | * | .0 | * | .0 | 10 | .1 |
| 80/84 | .1 | .1 | .1 | .1 | * | * | .0 | * | 53 | .4 |
| 75/79 | .1 | .2 | .1 | .5 | .4 | .3 | .1 | .1 | 232 | 1.8 |
| 70/74 | .1 | .1 | .4 | 1.0 | 2.3 | 2.7 | 1.8 | .7 | 1173 | 9.2 |
| 65/69 | .1 | .1 | .3 | .9 | 3.5 | 11.8 | 15.7 | 6.7 | 4990 | 39.1 |
| 60/64 | * | .1 | .3 | .6 | 2.8 | 9.5 | 21.2 | 10.6 | 5760 | 45.2 |
| 55/59 | .0 | .1 | * | .1 | .3 | .6 | 1.4 | 1.6 | 526 | 4.1 |
| 50/54 | .0 | .0 | .0 | * | * | * | * | * | 11 | .1 |
| TOTAL | 59 | 90 | 158 | 412 | 1203 | 3187 | 5132 | 2515 | 12756 | 100.0 |
| PCT | .5 | .7 | 1.2 | 3.2 | 9.4 | 25.0 | 40.2 | 19.7 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * |
| * | * | * | .0 | * | .0 | * | * | .0 | .0 |
| .1 | * | * | * | * | * | .1 | .2 | .0 | * |
| .3 | .1 | .1 | * | * | .1 | .3 | .7 | .0 | * |
| 1.3 | .5 | .4 | .3 | .4 | .7 | 1.9 | 3.4 | .0 | .3 |
| 4.4 | 1.5 | 1.1 | 1.3 | 2.3 | 2.8 | 9.2 | 14.9 | .0 | 1.6 |
| 5.0 | 1.7 | 1.5 | 1.7 | 2.0 | 3.1 | 10.7 | 17.5 | .0 | 2.0 |
| .5 | .3 | .2 | .2 | .2 | .2 | .9 | 1.5 | .0 | .2 |
| * | * | .0 | * | * | * | * | * | .0 | .0 |
| 11.7 | 4.1 | 3.3 | 3.6 | 5.0 | 6.9 | 23.1 | 38.3 | .0 | 4.1 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 90 | 78 | 73 | 65 | 60 | 58 | 53 | 65.7 | 4480 |
| 06&09 | 84 | 72 | 69 | 64 | 59 | 57 | 54 | 63.9 | 2959 |
| 12&15 | 92 | 72 | 69 | 63 | 58 | 56 | 50 | 63.3 | 3978 |
| 18&21 | 89 | 78 | 73 | 66 | 60 | 58 | 54 | 66.0 | 4557 |
| TOT | 92 | 76 | 72 | 64 | 60 | 57 | 50 | 64.8 | 15974 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .5 | 6.1 | 10.5 | 25.6 | 40.7 | 16.6 | 79 | 3719 |
| 06&09 | .1 | 1.9 | 6.7 | 20.9 | 44.9 | 25.4 | 83 | 2269 |
| 12&15 | .2 | 4.3 | 6.5 | 22.2 | 41.0 | 25.9 | 82 | 3173 |
| 18&21 | .8 | 7.0 | 12.7 | 29.3 | 36.0 | 14.1 | 77 | 3736 |
| TOT | 59 | 670 | 1221 | 3226 | 5178 | 2543 | 80 | 12897 |

OCTOBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | 89 92 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 2 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | 5 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | * | 12 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | * | * | * | 37 | .0 | .3 |
| 11/13 | .0 | .0 | .0 | * | * | .2 | .3 | .2 | .1 | .0 | .0 | 109 | * | .8 |
| 9/10 | .0 | .0 | .0 | * | .1 | .3 | .4 | .2 | * | .0 | .0 | 124 | * | .9 |
| 7/8 | .0 | .0 | * | * | .3 | .7 | .6 | .1 | .0 | .0 | .0 | 232 | .1 | 1.8 |
| 6 | .0 | .0 | * | .1 | .4 | .7 | .4 | * | .0 | .0 | .0 | 226 | .1 | 1.6 |
| 5 | .0 | .0 | * | .2 | .6 | 1.1 | .2 | * | .0 | .0 | .0 | 289 | .1 | 2.0 |
| 4 | .0 | .0 | .0 | .6 | 1.3 | 1.1 | .2 | * | .0 | .0 | .0 | 453 | .2 | 3.1 |
| 3 | .0 | .0 | .1 | .6 | 2.2 | 1.2 | .2 | .0 | .0 | .0 | .0 | 582 | .2 | 4.0 |
| 2 | .0 | .0 | .1 | 1.4 | 3.2 | 1.2 | .1 | .0 | .0 | .0 | .0 | 821 | .5 | 5.5 |
| 1 | .0 | * | .1 | 1.9 | 4.3 | 1.2 | .1 | .0 | .0 | .0 | .0 | 1060 | .5 | 7.2 |
| 0 | .0 | * | .3 | 4.3 | 4.9 | 1.0 | .1 | .0 | .0 | .0 | .0 | 1440 | .9 | 9.6 |
| -1 | .0 | * | .4 | 4.6 | 4.8 | 1.0 | * | .0 | .0 | .0 | .0 | 1497 | .7 | 10.1 |
| -2 | .0 | * | 1.0 | 7.3 | 3.6 | .4 | * | .0 | .0 | .0 | .0 | 1690 | .9 | 11.4 |
| -3 | .0 | * | 1.0 | 6.2 | 3.6 | .3 | * | .0 | .0 | .0 | .0 | 1546 | .8 | 10.4 |
| -4 | .0 | .1 | 1.9 | 5.2 | 1.9 | .1 | .0 | .0 | .0 | .0 | .0 | 1256 | .9 | 8.2 |
| -5 | .0 | * | 1.5 | 4.0 | 1.8 | .1 | * | .0 | .0 | .0 | .0 | 1014 | .7 | 6.6 |
| -6 | .0 | .1 | 1.3 | 2.6 | .6 | * | .0 | .0 | .0 | .0 | .0 | 664 | .6 | 4.2 |
| -7/-8 | .0 | .1 | 1.1 | 1.8 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | 489 | .5 | 3.1 |
| -9/-10 | * | .1 | .3 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | 128 | .1 | .8 |
| -11/-13 | .0 | * | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 47 | .1 | .3 |
| -14/-16 | .0 | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | 16 | * | .1 |
| -17/-19 | .0 | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 5 | * | * |
| -20/-22 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 1 | 70 | 1321 | 5680 | 4715 | 1467 | 368 | 104 | 29 | 8 | 3 | 13766 | 1105 | 12661 |
| PCT | * | .5 | 9.6 | 41.3 | 34.3 | 10.7 | 2.7 | .8 | .2 | .1 | * | 100.0 | 8.0 | 92.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 2.9 | .2 | .0 | .0 | .0 | 3.6 |
| 1-2 | .5 | 3.2 | 2.0 | .0 | .0 | .0 | 5.7 |
| 3-4 | .1 | .9 | 1.2 | .2 | .0 | .0 | 2.4 |
| 5-6 | * | .2 | .2 | .1 | .0 | .0 | .4 |
| 7 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 7.2 | 3.8 | .5 | .0 | .0 | 12.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.6 | * | .0 | .0 | .0 | 2.2 |
| 1-2 | .2 | 1.2 | .5 | .0 | .0 | .0 | 1.9 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .4 |
| 5-6 | * | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 3.0 | .7 | .0 | .0 | .0 | 4.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.2 | .1 | .0 | .0 | .0 | 1.6 |
| 1-2 | .2 | .9 | .4 | .0 | .0 | .0 | 1.4 |
| 3-4 | .0 | .0 | .2 | * | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.0 | .6 | * | .0 | .0 | 3.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.1 | * | .0 | .0 | .0 | 1.7 |
| 1-2 | .1 | .9 | .2 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .2 | .1 | * | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.2 | .3 | * | .0 | .0 | 3.3 |

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 1.8 | * | .0 | .0 | .0 | 2.3 | .5 | 1.8 | * | .0 | .0 | .0 | 2.4 |
| 1-2 | .2 | 1.2 | .3 | .0 | .0 | .0 | 1.7 | .3 | 1.6 | .7 | .0 | .0 | .0 | 2.6 |
| 3-4 | * | .2 | * | * | .0 | .0 | .2 | .1 | .2 | .1 | * | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 3.2 | .3 | * | .0 | .0 | 4.2 | .8 | 3.7 | .9 | * | .0 | .0 | 5.5 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .9 | 4.4 | .3 | .0 | .0 | .0 | 5.6 | 1.1 | 4.9 | .5 | .0 | .0 | .0 | 6.5 | |
| 1-2 | .6 | 5.4 | 3.2 | .0 | .0 | .0 | 9.2 | .9 | 11.1 | 7.5 | .0 | .0 | .0 | 19.5 | |
| 3-4 | .2 | 1.6 | 1.9 | .1 | .0 | .0 | 3.7 | .2 | 3.5 | 7.4 | .8 | .0 | .0 | 11.9 | |
| 5-6 | .0 | .1 | .3 | .1 | .0 | .0 | .5 | .0 | .5 | 1.9 | .4 | .0 | .0 | 2.8 | |
| 7 | .0 | * | .2 | * | .0 | .0 | .3 | .0 | * | .8 | .5 | .0 | .0 | 1.4 | |
| 8-9 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .1 | .3 | .0 | .0 | .4 | |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .1 | .1 | .1 | .0 | .0 | .2 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.7 | 11.5 | 6.0 | .2 | .0 | .0 | 19.5 | 2.2 | 20.1 | 18.3 | 2.1 | .0 | .0 | 42.8 | 95.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 9.0 | 19.6 | 1.2 | .0 | .0 | .0 | 29.7 | |
| 1-2 | 3.6 | 25.5 | 14.7 | .0 | .0 | .0 | 43.9 | |
| 3-4 | .5 | 6.8 | 11.1 | 1.2 | .0 | .0 | 19.6 | |
| 5-6 | * | .8 | 2.3 | .7 | .0 | .0 | 3.8 | |
| 7 | .0 | .1 | 1.3 | .7 | .0 | .0 | 2.0 | |
| 8-9 | .0 | .1 | .1 | .3 | .0 | .0 | .5 | |
| 10-11 | .0 | .1 | .1 | .1 | .0 | .0 | .3 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 17-19 | .0 | * | * | .0 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 13.1 | 53.0 | 31.0 | 2.9 | .0 | .0 | 100.0 | 3383 |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 4.4 | 27.3 | 19.6 | 3.7 | 1.0 | .2 | .2 | * | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4130 | 3 |
| 6-7 | .2 | 3.9 | 7.6 | 3.3 | 1.7 | .5 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1271 | 4 |
| 8-9 | * | 1.1 | 2.8 | 1.4 | 1.0 | .5 | .3 | .1 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 539 | 5 |
| 10-11 | .0 | 1.3 | .9 | .6 | .3 | .3 | .1 | .1 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 261 | 4 |
| 12-13 | .0 | .0 | .4 | .2 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 70 | 6 |
| >13 | .0 | .0 | .0 | .1 | .1 | * | * | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 16 | 8 |
| INDET | 11.5 | 1.8 | .5 | .1 | .1 | * | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1026 | 0 |
| TOTAL | 1176 | 2589 | 2772 | 694 | 305 | 117 | 64 | 25 | 11 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7313 | 3 |
| PCT | 16.1 | 35.4 | 31.8 | 9.5 | 4.2 | 1.6 | .9 | .3 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

AREA 0032 SAN DIEGO
32.6N 116.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | OTHER WEATHER PHENOMENA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | * | .1 | .0 | .0 | .0 | .0 | .5 | .2 | .2 | 6.1 | .1 | 10.9 | * | | 82.0 |
| NE | .7 | .1 | .2 | .0 | .0 | .0 | .0 | 1.1 | .2 | .1 | 7.4 | .0 | 10.1 | .1 | | 81.0 |
| E | 1.6 | .3 | .3 | .0 | .0 | .0 | .0 | 2.0 | .7 | .7 | 6.9 | .1 | 11.9 | .3 | | 77.4 |
| SE | 6.6 | 2.2 | 2.1 | .0 | .0 | .0 | .0 | 10.1 | 2.3 | .4 | 6.0 | .3 | 11.5 | .1 | | 69.2 |
| S | 5.7 | 2.5 | 2.5 | .0 | .0 | .0 | .0 | 9.9 | 1.8 | .1 | 6.5 | .0 | 8.1 | .0 | | 73.6 |
| SW | 2.2 | 1.5 | 1.6 | .0 | .0 | .0 | .1 | 5.3 | 1.3 | .1 | 5.2 | .0 | 9.2 | .0 | | 78.9 |
| W | 1.1 | .5 | .7 | .0 | .0 | .0 | * | 2.2 | .7 | * | 5.9 | .2 | 8.1 | .1 | | 82.8 |
| NW | .3 | .2 | .4 | .0 | .0 | .0 | .0 | .9 | .3 | * | 4.1 | .2 | 8.1 | .1 | | 86.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .5 | .0 | .2 | .0 | .0 | .0 | .2 | .9 | .0 | .0 | 18.0 | .3 | 14.2 | .0 | | 66.6 |
| TOT PCT | 1.2 | .5 | .6 | .0 | .0 | .0 | * | 2.3 | .6 | .1 | 6.0 | .1 | 9.3 | .1 | | 81.4 |
| TOT OBS: | 12949 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | OTHER WEATHER PHENOMENA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.2 | .5 | .5 | .0 | .0 | .0 | .1 | 2.2 | .3 | .2 | 4.2 | .1 | 9.7 | .1 | | 83.3 |
| 06&09 | 1.2 | .6 | .6 | .0 | .0 | .0 | .0 | 2.4 | .9 | * | 6.4 | .1 | 5.9 | * | | 84.3 |
| 12&15 | 1.4 | .5 | .7 | .0 | .0 | .0 | * | 2.5 | .7 | .2 | 7.2 | .1 | 8.7 | .0 | | 80.5 |
| 18&21 | 1.2 | .5 | .7 | .0 | .0 | .0 | * | 2.3 | .6 | .0 | 6.4 | .3 | 11.8 | .2 | | 78.4 |
| TOT PCT | 1.3 | .5 | .6 | .0 | .0 | .0 | * | 2.3 | .6 | .1 | 6.0 | .1 | 9.3 | .1 | | 81.4 |
| TOT OBS: | 13076 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.1 | 7.8 | 4.2 | .3 | * | .0 | | 14.4 | 8.7 | 10.3 | 14.3 | 15.6 | 16.0 | 16.3 | 17.1 | 16.4 | 11.8 |
| NE | 1.4 | 3.8 | 1.2 | .1 | * | .0 | | 6.5 | 7.1 | 2.4 | 6.1 | 4.5 | 7.5 | 7.6 | 12.7 | 8.8 | 4.6 |
| E | 1.1 | 3.0 | .9 | .1 | .0 | .0 | | 5.1 | 7.3 | 1.1 | 3.2 | 5.2 | 5.1 | 6.6 | 11.0 | 6.9 | 2.7 |
| SE | .9 | 2.4 | 1.0 | .1 | .0 | .0 | | 4.5 | 8.1 | 2.2 | 3.1 | 4.5 | 3.5 | 4.5 | 8.4 | 6.2 | 3.2 |
| S | .8 | 3.0 | 1.3 | .2 | * | .0 | | 5.3 | 8.6 | 4.[illegible] | 4.4 | 5.2 | 4.0 | 5.5 | 4.8 | 6.4 | 6.4 |
| SW | 1.1 | 3.8 | 1.8 | .1 | .0 | .0 | | 6.2 | 7.5 | 7.4 | 6.1 | 5.6 | 4.3 | 4.4 | 4.7 | 6.4 | 9.4 |
| W | 1.9 | 10.3 | 5.4 | .5 | .1 | .0 | | 18.3 | 9.3 | 25.8 | 21.2 | 17.0 | 19.5 | 15.2 | 9.9 | 13.4 | 22.6 |
| NW | 2.5 | 17.1 | 13.1 | 1.8 | .1 | .0 | | 34.6 | 10.7 | 43.8 | 37.0 | 36.4 | 32.7 | 33.2 | 24.2 | 30.1 | 36.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.1 | | | | | | | 5.1 | .0 | 2.2 | 4.6 | 6.1 | 7.5 | 6.7 | 7.2 | 5.4 | 3.2 |
| TOT OBS | 2263 | 6922 | 3814 | 433 | 29 | 0 | 13461 | | 8.8 | 2415 | 1208 | 1637 | 859 | 1836 | 1670 | 1956 | 1880 |
| TOT PCT | 16.8 | 51.4 | 28.3 | 3.2 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.6 | 7.6 | 1.1 | .1 | .0 | | 14.4 | 8.7 | 11.6 | 15.7 | 16.7 | 14.1 |
| NE | 3.6 | 2.6 | .3 | * | .0 | | 6.5 | 7.1 | 3.6 | 5.5 | 10.0 | 6.7 |
| E | 2.7 | 2.0 | .3 | * | .0 | | 5.1 | 7.3 | 1.8 | 3.2 | 8.7 | 4.8 |
| SE | 2.2 | 1.8 | .4 | * | .0 | | 4.5 | 8.1 | 2.5 | 4.1 | 6.4 | 4.8 |
| S | 2.3 | 2.5 | .5 | * | .0 | | 5.3 | 8.6 | 4.7 | 4.8 | 5.1 | 6.4 |
| SW | 3.1 | 2.9 | .2 | * | .0 | | 6.2 | 7.5 | 7.0 | 5.1 | 4.5 | 7.9 |
| W | 6.2 | 10.4 | 1.5 | .2 | * | | 18.3 | 9.3 | 24.3 | 17.9 | 12.7 | 17.9 |
| NW | 8.8 | 20.5 | 4.7 | .6 | * | | 34.6 | 10.7 | 41.5 | 35.1 | 28.9 | 33.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.1 | | | | | | 5.1 | .0 | 3.0 | 6.6 | 7.0 | 4.4 |
| TOT OBS | 5343 | 6780 | 1209 | 127 | 2 | 13461 | | 8.8 | 3623 | 2496 | 3506 | 3836 |
| TOT PCT | 39.7 | 50.4 | 9.0 | .9 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

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32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.0 | 9.7 | 48.7 | 34.2 | 4.2 | .3 | .0 | 9.8 | 100.0 | 3623 |
| 06&09 | 6.6 | 9.1 | 50.5 | 29.9 | 3.8 | .1 | .0 | 9.1 | 100.0 | 2496 |
| 12&15 | 7.0 | 15.7 | 51.5 | 22.9 | 2.7 | .2 | .0 | 7.9 | 100.0 | 3506 |
| 18&21 | 4.4 | 11.8 | 54.6 | 26.7 | 2.3 | .2 | .0 | 8.5 | 100.0 | 3836 |
| TOT | 684 | 1579 | 6922 | 3814 | 433 | 29 | 0 | 8.8 | | 13461 |
| PCT | 5.1 | 11.7 | 51.4 | 28.3 | 3.2 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.8 | 1.3 | 2.7 | 1.8 | | 2.7 |
| NE | 3.7 | .5 | .9 | .7 | | 2.4 |
| E | 2.8 | .4 | .9 | .9 | | 3.1 |
| SE | 1.2 | .5 | 1.2 | 1.6 | | 5.0 |
| S | 1.6 | .6 | 1.5 | 2.0 | | 5.1 |
| SW | 2.1 | .7 | 1.7 | 1.5 | | 4.4 |
| W | 8.0 | 2.1 | 5.3 | 3.2 | | 3.8 |
| NW | 17.6 | 4.1 | 8.3 | 5.0 | | 3.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.6 | .3 | .9 | 1.0 | | 3.2 |
| TOT OBS | 4132 | 899 | 1989 | 1508 | 8528 | 3.5 |
| TOT PCT | 48.5 | 10.5 | 23.3 | 17.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | * | .2 | .4 | 1.2 | .6 | .1 | * | .1 | .2 | 11.4 | |
| NE | .1 | .0 | .1 | .1 | .3 | .2 | .1 | * | * | .1 | 4.8 | |
| E | .2 | .0 | * | .1 | .5 | .3 | * | * | * | .1 | 3.7 | |
| SE | .1 | .0 | .1 | .3 | .9 | .5 | .1 | * | * | .1 | 2.3 | |
| S | .1 | * | .1 | .4 | 1.1 | .7 | .1 | .1 | * | .1 | 2.8 | |
| SW | .1 | * | .1 | .4 | 1.0 | .6 | .1 | * | * | .1 | 3.7 | |
| W | .3 | * | .2 | .9 | 2.6 | 1.4 | .2 | * | .1 | .3 | 12.5 | |
| NW | .4 | * | .5 | 1.6 | 4.1 | 1.9 | .4 | .1 | .1 | .5 | 25.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | .0 | .1 | .2 | .4 | .2 | * | * | * | .1 | 3.4 | |
| TOT OBS | 168 | 10 | 122 | 368 | 1040 | 561 | 103 | 30 | 35 | 141 | 5950 | 8528 |
| TOT PCT | 2.0 | .1 | 1.4 | 4.3 | 12.2 | 6.6 | 1.2 | .4 | .4 | 1.7 | 69.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .9 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 |
| * OR >5000 | 1.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| * OR >3500 | 1.6 | 3.3 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| * OR >2000 | 5.3 | 9.7 | 10.1 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| * OR >1000 | 11.1 | 21.0 | 22.2 | 22.3 | 22.3 | 22.3 | 22.3 | 22.4 |
| * OR >600 | 12.6 | 24.6 | 26.4 | 26.6 | 26.7 | 26.7 | 26.7 | 26.7 |
| * OR >300 | 13.0 | 25.6 | 27.7 | 28.0 | 28.1 | 28.1 | 28.2 | 28.2 |
| * OR >150 | 13.0 | 25.7 | 27.8 | 28.2 | 28.2 | 28.2 | 28.3 | 28.3 |
| * OR > 0 | 13.1 | 25.8 | 28.2 | 28.7 | 28.9 | 29.1 | 29.6 | 30.3 |
| TOTAL | 1120 | 2216 | 2422 | 2460 | 2477 | 2501 | 2542 | 2597 |

TOTAL NUMBER OF OBS: 8582 PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 38.3 | 8.9 | 13.5 | 5.2 | 3.8 | 4.4 | 7.8 | 4.9 | 11.5 | 1.8 | 8849 |

NOVEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | * | * | * | * | * | * | .0 | * | .1 | |
| <1/2 | NO PCP | .3 | .1 | .1 | .1 | .2 | .1 | .3 | .4 | .0 | .3 | 2.0 | |
| | TOT % | .3 | .1 | .1 | .1 | .2 | .1 | .3 | .5 | .0 | .4 | 2.1 | |
| | PCP | .0 | .0 | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| 1/2<1 | NO PCP | .1 | .1 | .1 | * | * | .1 | .2 | .1 | .0 | * | .6 | |
| | TOT % | .1 | .1 | .1 | * | * | .1 | .2 | .1 | .0 | * | .7 | |
| | PCP | .0 | .0 | * | * | * | * | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .3 | .2 | .1 | .2 | .1 | .1 | .2 | .3 | .0 | .2 | 1.5 | |
| | TOT % | .3 | .2 | .1 | .2 | .1 | .1 | .2 | .3 | .0 | .2 | 1.7 | |
| | PCP | * | * | * | .1 | .1 | .1 | .1 | * | .0 | .0 | .5 | |
| 2<5 | NO PCP | .8 | .4 | .4 | .4 | .3 | .4 | 1.0 | 1.7 | .0 | .4 | 5.7 | |
| | TOT % | .8 | .4 | .4 | .5 | .5 | .5 | 1.1 | 1.8 | .0 | .4 | 6.2 | |
| | PCP | .1 | .1 | .1 | .2 | .2 | .2 | .2 | .1 | .0 | * | 1.1 | |
| 5<10 | NO PCP | 5.1 | 2.2 | 1.9 | 1.5 | 1.9 | 2.4 | 6.7 | 11.3 | .0 | 1.7 | 34.7 | |
| | TOT % | 5.2 | 2.2 | 2.0 | 1.7 | 2.2 | 2.6 | 6.9 | 11.4 | .0 | 1.7 | 35.8 | |
| | PCP | * | * | * | .1 | .1 | * | .1 | .1 | .0 | * | .4 | |
| 10+ | NO PCP | 7.8 | 3.6 | 2.5 | 2.0 | 2.3 | 2.9 | 9.7 | 20.5 | .0 | 1.8 | 53.2 | |
| | TOT % | 7.8 | 3.6 | 2.5 | 2.1 | 2.4 | 3.0 | 9.8 | 20.6 | .0 | 1.8 | 53.6 | |
| | TOT OBS | | | | | | | | | | | | 12942 |
| | TOT PCT | 14.4 | 6.6 | 5.2 | 4.5 | 5.3 | 6.3 | 18.4 | 34.6 | .0 | 4.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | * | * | * | * | .1 | .1 | .0 | .4 | .8 | |
| <1/2 | 4-10 | .2 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | | 1.1 | |
| | 11-21 | * | * | * | * | * | * | * | .1 | .0 | | .2 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | * | |
| | TOT % | .3 | .1 | .1 | .1 | .2 | .1 | .3 | .5 | .0 | .4 | 2.1 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .2 | |
| 1/2<1 | 4-10 | * | * | * | * | * | * | .1 | * | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | * | * | .1 | * | .0 | | .1 | |
| | 22+ | .0 | * | * | * | * | .0 | * | * | .0 | | .1 | |
| | TOT % | .1 | .1 | .1 | * | * | .1 | .2 | .1 | .0 | * | .7 | |
| | 0-3 | .1 | .1 | * | .1 | * | * | * | .1 | .0 | .2 | .7 | |
| 1<2 | 4-10 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .3 | .0 | | .9 | |
| | 11-21 | * | * | * | * | * | * | .1 | .1 | .0 | | .3 | |
| | 22+ | .0 | * | * | * | * | * | .0 | * | .0 | | * | |
| | TOT % | .3 | .2 | .1 | .2 | .1 | .1 | .3 | .4 | .0 | .2 | 1.9 | |
| | 0-3 | .2 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .4 | 1.7 | |
| 2<5 | 4-10 | .5 | .2 | .2 | .2 | .3 | .3 | .7 | 1.0 | .0 | | 3.3 | |
| | 11-21 | .2 | * | .1 | .1 | .1 | .1 | .2 | .5 | .0 | | 1.1 | |
| | 22+ | .0 | .0 | * | * | * | * | * | * | .0 | | .2 | |
| | TOT % | .8 | .4 | .4 | .5 | .5 | .5 | 1.1 | 1.8 | .0 | .4 | 6.3 | |
| | 0-3 | .8 | .5 | .4 | .4 | .3 | .4 | .7 | .8 | .0 | 1.7 | 6.1 | |
| 5<10 | 4-10 | 2.8 | 1.3 | 1.2 | .8 | 1.2 | 1.5 | 3.8 | 5.7 | .0 | | 18.3 | |
| | 11-21 | 1.4 | .3 | .4 | .4 | .5 | .5 | 1.9 | 4.0 | .0 | | 9.6 | |
| | 22+ | .1 | * | * | .1 | .1 | * | .2 | .6 | .0 | | 1.2 | |
| | TOT % | 5.1 | 2.2 | 2.0 | 1.6 | 7.1 | 2.6 | 6.7 | 11.2 | .0 | 1.7 | 35.2 | |
| | 0-3 | .8 | .6 | .5 | .4 | .3 | .5 | .8 | 1.1 | .0 | 2.1 | 7.2 | |
| 10+ | 4-10 | 4.2 | 2.1 | 1.5 | 1.2 | 1.4 | 1.9 | 5.4 | 9.7 | .0 | | 27.5 | |
| | 11-21 | 2.5 | .8 | .5 | .5 | .7 | .6 | 3.2 | 8.5 | .0 | | 17.2 | |
| | 22+ | .2 | .1 | .1 | * | * | * | .3 | 1.2 | .0 | | 2.0 | |
| | TOT % | 7.8 | 3.6 | 2.5 | 2.1 | 2.4 | 3.0 | 9.8 | 20.6 | .0 | 2.1 | 53.9 | |
| | TOT OBS | | | | | | | | | | | | 13274 |
| | TOT PCT | 14.4 | 6.6 | 5.1 | 4.5 | 5.3 | 6.3 | 18.3 | 34.6 | .0 | 4.9 | 100.0 | |

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

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32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.6 | .3 | 1.1 | 3.7 | 10.1 | 5.6 | .7 | .3 | .2 | 2.4 | 26.1 | 73.9 | 2171 |
| 06&09 | 2.2 | * | 1.7 | 3.9 | 10.7 | 6.4 | 1.0 | .5 | .6 | 1.4 | 28.4 | 71.6 | 2052 |
| 12&15 | 2.2 | * | 1.4 | 4.8 | 13.3 | 7.2 | 1.5 | .4 | .3 | .8 | 31.9 | 68.1 | 2122 |
| 18&21 | 1.8 | .1 | 1.6 | 4.8 | 13.4 | 6.7 | 1.4 | .2 | .5 | 1.8 | 32.3 | 67.7 | 2418 |
| TOT | 169 | 10 | 126 | 377 | 1046 | 566 | 103 | 30 | 35 | 142 | 2604 | 6159 | 8763 |
| PCT | 1.9 | .1 | 1.4 | 4.3 | 11.9 | 6.5 | 1.2 | .3 | .4 | 1.6 | 29.7 | 70.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.5 | .7 | 1.7 | 6.6 | 36.8 | 52.8 | 3601 |
| 06&09 | 2.3 | .5 | .6 | 4.4 | 35.6 | 56.7 | 2480 |
| 12&15 | 3.0 | .9 | 2.6 | 5.5 | 35.1 | 52.8 | 3475 |
| 18&21 | 1.7 | .6 | 2.3 | 8.2 | 33.2 | 53.9 | 3852 |
| TOT | 281 | 96 | 255 | 852 | 4707 | 7217 | 13408 |
| PCT | 2.1 | .7 | 1.9 | 6.4 | 35.1 | 53.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 3.6 | 12.0 | 18.5 | 69.4 | 2120 |
| 06&09 | 2.3 | 4.8 | 11.7 | 19.5 | 68.8 | 2027 |
| 12&15 | 2.3 | 4.5 | 12.2 | 23.0 | 64.8 | 2088 |
| 18&21 | 2.0 | 4.3 | 16.4 | 22.6 | 51.0 | 2347 |
| TOT | 178 | 369 | 1132 | 1800 | 5630 | 8582 |
| PCT | 2.1 | 4.3 | 13.2 | 21.0 | 65.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 85/89 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 80/84 | .1 | .1 | * | * | * | .0 | .0 | .0 | 27 | .3 |
| 75/79 | .2 | .2 | .1 | .2 | .1 | .1 | * | * | 109 | 1.0 |
| 70/74 | .3 | .3 | .6 | .9 | 1.0 | .6 | .4 | .2 | 463 | 4.3 |
| 65/69 | .2 | .4 | 1.0 | 1.7 | 3.1 | 6.1 | 6.1 | 2.8 | 2271 | 21.3 |
| 60/64 | .1 | .3 | 1.0 | 2.6 | 8.0 | 15.0 | 17.1 | 7.9 | 5543 | 51.9 |
| 55/59 | * | .1 | .6 | 1.1 | 2.3 | 4.6 | 6.2 | 4.0 | 2015 | 18.9 |
| 50/54 | * | .0 | .1 | .2 | .4 | .3 | .4 | .5 | 211 | 2.0 |
| 45/49 | .0 | .0 | * | .0 | * | .1 | .1 | .1 | 29 | .3 |
| 40/44 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * |
| TOTAL | 97 | 141 | 369 | 716 | 1586 | 2865 | 3228 | 1668 | 10670 | 100.0 |
| PCT | .9 | 1.3 | 3.5 | 6.7 | 14.9 | 26.9 | 30.3 | 15.6 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| * | * | * | * | * | * | * | .1 | .0 | * |
| .1 | .2 | .1 | * | .1 | * | .1 | .3 | .0 | * |
| .5 | .2 | .3 | .1 | .1 | .3 | .9 | 1.8 | .0 | .1 |
| 3.1 | 1.4 | 1.0 | .8 | 1.3 | 1.6 | 3.8 | 7.4 | .0 | .9 |
| 7.3 | 3.2 | 2.2 | 2.3 | 3.0 | 3.4 | 9.6 | 18.9 | .0 | 1.9 |
| 2.6 | 1.2 | 1.1 | 1.0 | .9 | 1.0 | 3.7 | 6.3 | .0 | 1.0 |
| .4 | .4 | .3 | .2 | .1 | * | .1 | .3 | .0 | .1 |
| .1 | * | * | * | * | * | * | .1 | .0 | * |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 14.1 | 6.6 | 5.1 | 4.6 | 5.5 | 6.4 | 18.2 | 35.2 | .0 | 4.2 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 85 | 76 | 71 | 63 | 57 | 54 | 49 | 63.2 | 3638 |
| 06&09 | 82 | 69 | 66 | 62 | 57 | 54 | 49 | 61.5 | 2511 |
| 12&15 | 82 | 69 | 66 | 61 | 54 | 50 | 44 | 60.5 | 3528 |
| 18&21 | 84 | 77 | 72 | 63 | 57 | 55 | 51 | 63.8 | 3875 |
| TOT | 85 | 75 | 70 | 62 | 56 | 52 | 44 | 62.4 | 13552 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | 11.5 | 16.3 | 26.7 | 30.7 | 13.8 | 76 | 2979 |
| 06&09 | .2 | 5.9 | 13.5 | 27.1 | 33.5 | 19.8 | 79 | 1893 |
| 12&15 | .5 | 10.2 | 12.2 | 25.1 | 32.8 | 19.3 | 78 | 2796 |
| 18&21 | 1.7 | 16.2 | 16.7 | 28.2 | 25.4 | 11.9 | 73 | 3099 |
| TOT | 98 | 1240 | 1600 | 2882 | 3253 | 1694 | 76 | 10767 |

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 2 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | 9 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .1 | * | .0 | 17 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | * | * | .2 | .2 | * | .0 | 60 | * | .5 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .2 | .4 | .1 | * | .0 | 89 | * | .7 |
| 9/10 | .0 | .0 | .0 | * | .1 | .2 | .7 | .3 | .1 | * | .0 | 161 | .0 | 1.4 |
| 7/8 | .0 | .0 | .0 | * | .2 | .8 | .9 | .4 | * | .0 | .0 | 282 | .1 | 2.3 |
| 6 | .0 | .0 | * | * | .3 | .9 | .5 | .1 | .0 | .0 | .0 | 222 | .1 | 1.8 |
| 5 | .0 | .0 | .0 | .1 | .5 | 1.4 | .4 | * | .0 | .0 | .0 | 291 | .2 | 2.3 |
| 4 | .0 | .0 | * | .2 | 1.4 | 1.6 | .5 | * | .0 | .0 | .0 | 446 | .2 | 3.6 |
| 3 | .0 | .0 | .0 | .3 | 1.6 | 2.0 | .6 | * | .0 | .0 | .0 | 505 | .2 | 4.1 |
| 2 | .0 | .0 | .1 | .6 | 3.2 | 2.4 | .2 | .0 | .0 | .0 | .0 | 779 | .4 | 6.1 |
| 1 | .0 | * | .1 | 1.0 | 4.2 | 2.2 | .2 | .0 | .0 | .0 | .0 | 907 | .4 | 7.3 |
| 0 | .0 | .0 | .1 | 2.8 | 6.2 | 2.1 | .1 | * | .0 | .0 | .0 | 1344 | .6 | 10.7 |
| -1 | .0 | .0 | .1 | 2.7 | 5.7 | 1.8 | .1 | .0 | .0 | .0 | .0 | 1243 | .5 | 10.0 |
| -2 | .0 | .0 | .4 | 4.2 | 5.8 | 1.1 | * | .0 | .0 | .0 | .0 | 1353 | .8 | 10.7 |
| -3 | .0 | * | .4 | 3.9 | 4.8 | 1.0 | .1 | .0 | .0 | .0 | .0 | 1221 | .6 | 9.7 |
| -4 | .0 | .0 | .6 | 3.9 | 3.1 | .3 | .0 | .0 | .0 | .0 | .0 | 943 | .6 | 7.4 |
| -5 | .0 | * | .6 | 2.9 | 2.5 | .4 | * | .0 | .0 | .0 | .0 | 758 | .5 | 5.9 |
| -6 | .0 | .1 | .8 | 2.1 | 1.6 | .1 | .0 | .0 | .0 | .0 | .0 | 537 | .5 | 4.2 |
| -7/-8 | .0 | .2 | 1.0 | 1.5 | .9 | * | .0 | .0 | .0 | .0 | .0 | 423 | .3 | 3.3 |
| -9/-10 | * | .2 | .4 | .6 | .2 | .0 | * | .0 | .0 | .0 | .0 | 165 | .2 | 1.2 |
| -11/-13 | * | .1 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | 50 | .1 | .4 |
| -14/-16 | * | * | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | 12 | * | .1 |
| -17/-19 | * | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3 | * | * |
| -20/-22 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 7 | 79 | 553 | 3219 | 3019 | 2179 | 528 | 178 | 59 | 15 | 1 | 11837 | 729 | 11108 |
| PCT | .1 | .7 | 4.7 | 27.2 | 42.4 | 18.4 | 4.5 | 1.5 | .5 | .1 | * | 100.0 | 6.2 | 93.8 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .9 | 1.8 | .2 | .0 | .0 | .0 | 2.8 |
| 1-2 | .5 | 3.8 | 1.9 | .0 | .0 | .0 | 6.2 |
| 3-4 | .1 | 1.3 | 1.3 | .1 | .0 | .0 | 2.7 |
| 5-6 | .0 | .1 | .3 | * | .0 | .0 | .4 |
| 7 | .0 | .1 | .2 | * | * | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.5 | 6.9 | 3.8 | .1 | * | .0 | 12.4 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.1 | .1 | .0 | .0 | .0 | 1.5 |
| 1-2 | .2 | 2.0 | .6 | .0 | .0 | .0 | 2.9 |
| 3-4 | .0 | .3 | .4 | * | .0 | .0 | .8 |
| 5-6 | .0 | * | * | * | .0 | .0 | .1 |
| 7 | .0 | * | .0 | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 3.5 | 1.1 | * | .0 | .0 | 5.3 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.2 | * | .0 | .0 | .0 | 1.6 |
| 1-2 | .1 | 1.3 | .6 | .0 | .0 | .0 | 2.0 |
| 3-4 | .0 | .3 | .3 | .1 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.8 | 1.0 | .1 | .0 | .0 | 4.4 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.0 | .1 | .0 | .0 | .0 | 1.3 |
| 1-2 | .1 | 1.3 | .8 | .0 | .0 | .0 | 2.1 |
| 3-4 | .0 | .3 | 1.0 | .1 | .0 | .0 | 1.4 |
| 5-6 | .0 | * | .1 | * | .0 | .0 | .1 |
| 7 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.6 | 1.9 | .2 | .0 | .0 | 5.1 |

PERIOD: (OVER-ALL) 1963-1973 NOVEMBER AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.1 | .3 | .0 | .0 | .0 | 1.5 |
| 1-2 | .2 | 1.5 | .8 | .0 | .0 | .0 | 2.5 |
| 3-4 | * | .6 | .7 | .1 | .0 | .0 | 1.4 |
| 5-6 | .0 | .1 | .2 | .1 | .0 | .0 | .4 |
| 7 | .0 | .0 | * | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 3.3 | 2.0 | .3 | .0 | .0 | 5.9 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.4 | * | .0 | .0 | .0 | 1.9 |
| 1-2 | .5 | 1.6 | .7 | .0 | .0 | .0 | 2.7 |
| 3-4 | * | .4 | .6 | .1 | .0 | .0 | 1.1 |
| 5-6 | .0 | * | .2 | * | .0 | .0 | .2 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 3.4 | 1.6 | .1 | .0 | .0 | 6.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 2.3 | .1 | .0 | .0 | .0 | 3.0 |
| 1-2 | .5 | 5.8 | 2.7 | .0 | .0 | .0 | 9.0 |
| 3-4 | .1 | 1.8 | 2.4 | .3 | .0 | .0 | 4.7 |
| 5-6 | * | * | .5 | .1 | .0 | .0 | .7 |
| 7 | .0 | .0 | .2 | .2 | * | .0 | .5 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | * | * | * | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | * | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.3 | 10.0 | 5.9 | .7 | .1 | .0 | 18.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .7 | 3.1 | .1 | .0 | .0 | .0 | 3.8 | |
| 1-2 | .8 | 10.2 | 7.0 | .0 | .0 | .0 | 17.9 | |
| 3-4 | .3 | 3.6 | 5.8 | .8 | .0 | .0 | 10.5 | |
| 5-6 | .1 | .8 | 2.1 | .5 | .0 | .0 | 3.5 | |
| 7 | .0 | .1 | 1.2 | .6 | .1 | .0 | 2.0 | |
| 8-9 | .0 | * | .1 | .3 | * | .0 | .4 | |
| 10-11 | .0 | * | * | .1 | * | .0 | .2 | |
| 12 | .0 | .0 | .1 | * | * | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.7 | 17.8 | 16.4 | 2.3 | .2 | .0 | 38.5 | 95.6 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 8.1 | 12.9 | .8 | .0 | .0 | .0 | 21.8 | |
| 1-2 | 3.0 | 27.4 | 14.9 | .0 | .0 | .0 | 45.3 | |
| 3-4 | .6 | 8.6 | 12.4 | 1.6 | .0 | .0 | 23.3 | |
| 5-6 | .1 | 1.1 | 3.4 | .8 | .0 | .0 | 5.4 | |
| 7 | .0 | .2 | 1.7 | .9 | .2 | .0 | 3.1 | |
| 8-9 | .0 | * | .2 | .3 | * | .0 | .8 | |
| 10-11 | .0 | * | .1 | .2 | .1 | .0 | .3 | |
| 12 | .0 | .0 | .1 | * | * | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 3158 |
| TOT PCT | 11.8 | 50.3 | 33.6 | 3.9 | .3 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.8 | 24.7 | 19.8 | 4.8 | 2.1 | .5 | .2 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3702 | 3 |
| 6-7 | .1 | 3.4 | 8.1 | 3.7 | 1.9 | .7 | .3 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1244 | 4 |
| 8-9 | * | 1.5 | 1.9 | 1.4 | 1.1 | .6 | .5 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 488 | 5 |
| 10-11 | .0 | .7 | .7 | .7 | .5 | .3 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 209 | 5 |
| 12-13 | .0 | .0 | .4 | .1 | .1 | .1 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 58 | 6 |
| >13 | .0 | .0 | .0 | .1 | .1 | * | * | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 20 | 8 |
| INDET | 12.0 | 1.8 | .6 | .2 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1002 | 1 |
| TOTAL | 1003 | 2169 | 2117 | 742 | 402 | 144 | 82 | 48 | 13 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6723 | 3 |
| PCT | 14.9 | 32.3 | 31.5 | 11.0 | 6.0 | 2.1 | 1.2 | .7 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | 1.0 | .0 | .3 | .0 | .0 | .0 | .0 | 1.3 | * | .1 | 6.3 | .2 | 7.7 | | .1 | 84.3 |
| NE | 3.5 | .5 | .6 | .0 | .0 | .0 | .0 | 4.6 | .4 | .1 | 7.1 | .0 | 7.5 | | .2 | 80.1 |
| E | 5.5 | .7 | .8 | .0 | .0 | .0 | .0 | 6.8 | .7 | .0 | 5.9 | .0 | 8.4 | | .0 | 78.1 |
| SE | 7.4 | 1.4 | 2.1 | .0 | .0 | .0 | .2 | 10.5 | .8 | .1 | 4.8 | .1 | 6.8 | | * | 76.9 |
| S | 9.7 | .6 | 3.9 | .0 | .0 | .0 | .0 | 13.1 | 1.2 | .1 | 7.2 | .3 | 6.1 | | .1 | 71.9 |
| SW | 5.6 | 1.4 | 3.3 | .0 | .0 | .0 | .0 | 9.7 | 2.3 | .0 | 6.9 | .6 | 6.8 | | .0 | 73.7 |
| W | 1.3 | 1.0 | 1.5 | .0 | .0 | .0 | .0 | 3.4 | 1.1 | .0 | 6.5 | .1 | 4.1 | | .1 | 84.6 |
| NW | .5 | .2 | .3 | .0 | .0 | .0 | .0 | 1.0 | .7 | .0 | 4.8 | .2 | 5.1 | | .0 | 88.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .4 | .0 | .7 | .0 | .0 | .0 | .0 | 1.1 | .0 | .2 | 15.7 | .9 | 14.6 | | .0 | 67.3 |
| TOT PCT | 2.6 | .5 | 1.1 | .0 | .0 | .0 | * | 4.0 | .8 | * | 6.4 | .2 | 6.6 | | .1 | 81.9 |
| TOT OBS: | 9733 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 2.7 | .5 | .8 | .0 | .0 | .0 | .0 | 3.9 | .6 | * | 4.6 | .2 | 6.2 | | * | 84.4 |
| 06&09 | 1.8 | .5 | 1.7 | .0 | .0 | .0 | .0 | 3.8 | 1.0 | .1 | 7.4 | .1 | 4.2 | | .1 | 83.4 |
| 12&15 | 2.9 | .6 | 1.1 | .0 | .0 | .0 | * | 4.5 | .8 | .1 | 7.6 | .3 | 6.9 | | * | 79.7 |
| 18&21 | 2.6 | .5 | 1.2 | .0 | .0 | .0 | .0 | 3.9 | .6 | .0 | 6.6 | .3 | 8.2 | | .1 | 80.4 |
| TOT PCT | 2.6 | .5 | 1.1 | .0 | .0 | .0 | * | 4.0 | .8 | * | 6.4 | .2 | 6.6 | | .1 | 81.9 |
| TOT OBS: | 9858 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.2 | 8.0 | 4.2 | .4 | .1 | .0 | | 14.9 | 8.9 | 12.1 | 13.6 | 18.9 | 16.4 | 18.3 | 14.6 | 16.5 | 11.5 |
| NE | 1.8 | 4.3 | 1.7 | .4 | .0 | .0 | | 8.1 | 8.1 | 4.0 | 7.4 | 6.3 | 9.2 | 9.7 | 12.6 | 11.6 | 6.3 |
| E | 1.5 | 3.7 | 1.3 | .2 | * | .0 | | 6.7 | 7.6 | 2.9 | 5.4 | 4.7 | 6.6 | 6.3 | 13.1 | 9.4 | 5.9 |
| SE | 1.4 | 3.7 | 1.2 | .2 | * | .0 | | 6.5 | 7.5 | 4.3 | 8.3 | 3.8 | 5.4 | 5.7 | 12.1 | 9.7 | 7.0 |
| S | 1.0 | 3.5 | 1.2 | .2 | .0 | .0 | | 5.9 | 8.1 | 6.2 | 4.9 | 5.1 | 4.6 | 4.2 | 5.8 | 5.3 | 9.1 |
| SW | 1.2 | 3.5 | 1.4 | .3 | * | .0 | | 6.4 | 8.4 | 7.7 | 7.7 | 5.9 | 4.4 | 4.6 | 5.1 | 5.4 | 8.8 |
| W | 1.8 | 8.3 | 4.6 | .7 | * | .0 | | 15.4 | 9.5 | 19.9 | 18.3 | 14.7 | 16.6 | 13.6 | 9.5 | 14.0 | 16.2 |
| NW | 2.7 | 14.9 | 10.6 | 1.8 | .2 | .0 | | 30.1 | 10.7 | 39.5 | 28.8 | 35.1 | 28.4 | 30.4 | 17.8 | 25.5 | 30.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.1 | | | | | | | 6.1 | .0 | 3.2 | 5.5 | 5.5 | 8.5 | 7.4 | 9.3 | 6.5 | 5.0 |
| TOT OBS | 2010 | 5087 | 2673 | 420 | 31 | 0 | 10221 | | 8.7 | 2007 | 902 | 1168 | 576 | 1325 | 1417 | 1365 | 1461 |
| TOT PCT | 19.7 | 49.8 | 26.2 | 4.1 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 6.0 | 7.6 | 1.2 | .1 | * | | 14.9 | 8.9 | 12.6 | 18.1 | 16.4 | 13.9 |
| NE | 4.1 | 3.3 | .7 | .1 | .0 | | 8.1 | 8.1 | 5.1 | 7.2 | 11.2 | 8.8 |
| E | 3.6 | 2.5 | .5 | .1 | .0 | | 6.7 | 7.6 | 3.7 | 5.3 | 9.8 | 7.6 |
| SE | 3.5 | 2.6 | .4 | .1 | .0 | | 6.5 | 7.5 | 5.5 | 4.3 | 9.0 | 6.4 |
| S | 2.9 | 2.4 | .5 | * | .0 | | 5.9 | 8.1 | 5.8 | 5.0 | 5.0 | 7.3 |
| SW | 3.1 | 2.6 | .6 | .1 | .0 | | 6.4 | 8.4 | 7.7 | 5.4 | 4.9 | 7.2 |
| W | 5.7 | 7.9 | 1.7 | .1 | .0 | | 15.4 | 9.5 | 19.4 | 15.3 | 11.5 | 18.1 |
| NW | 8.7 | 16.3 | 4.5 | .6 | * | | 30.1 | 10.7 | 36.2 | 32.9 | 23.9 | 27.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.1 | | | | | | 6.1 | .0 | 4.0 | 6.5 | 8.4 | 5.7 |
| TOT OBS | 4436 | 4623 | 1037 | 124 | 1 | 10221 | | 8.7 | 2909 | 1744 | 2742 | 2826 |
| TOT PCT | 43.4 | 45.2 | 10.1 | 1.2 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

DECEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.0 | 12.1 | 50.4 | 29.2 | 3.9 | .4 | .0 | 9.1 | 100.0 | 2909 |
| 06&09 | 6.5 | 10.3 | 47.5 | 29.8 | 5.4 | .5 | .0 | 9.5 | 100.0 | 1744 |
| 12&15 | 8.4 | 18.0 | 46.6 | 22.8 | 4.0 | .2 | .0 | 7.9 | 100.0 | 2742 |
| 18&21 | 5.7 | 12.9 | 53.6 | 24.1 | 3.6 | .1 | .0 | 8.3 | 100.0 | 2826 |
| TOT | 680 | 1390 | 5087 | 2673 | 420 | 31 | 0 | 8.7 | | 10221 |
| PCT | 6.1 | 13.6 | 49.8 | 26.2 | 4.1 | .3 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.1 | 1.8 | 2.7 | 2.1 | | 2.7 |
| NE | 4.5 | .9 | 1.5 | .9 | | 2.8 |
| E | 2.9 | .7 | 1.3 | 1.4 | | 3.7 |
| SE | 1.6 | .4 | 1.4 | 1.1 | | 4.5 |
| S | 1.7 | .4 | 1.3 | 1.4 | | 4.5 |
| SW | 1.6 | .6 | 1.5 | 2.2 | | 5.2 |
| W | 6.2 | 2.0 | 4.7 | 2.9 | | 4.1 |
| NW | 15.9 | 4.2 | 8.0 | 4.6 | | 3.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.8 | .6 | .9 | 1.2 | | 3.4 |
| TOT OBS | 2830 | 693 | 1403 | 1061 | 5987 | 3.6 |
| TOT PCT | 47.3 | 11.6 | 23.4 | 17.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 2499 | 2500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .1 | .5 | .9 | .6 | .2 | * | .1 | .2 | 13.7 | |
| NE | .2 | .0 | .1 | .1 | .4 | .5 | .1 | .1 | * | .2 | 6.3 | |
| E | .2 | * | .1 | .2 | .5 | .5 | .1 | * | .1 | .1 | 4.4 | |
| SE | .1 | * | .2 | .2 | .6 | .3 | .2 | .1 | .1 | .1 | 2.7 | |
| S | .2 | * | .2 | .3 | .5 | .5 | .1 | .1 | .1 | .1 | 2.6 | |
| SW | .3 | * | .3 | .4 | 1.2 | .6 | .1 | * | * | .1 | 2.9 | |
| W | .3 | * | .2 | .7 | 2.3 | 1.4 | .3 | .1 | .1 | .1 | 10.1 | |
| NW | .5 | .1 | .3 | 1.3 | 3.4 | 2.0 | .5 | .2 | .1 | .4 | 24.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .5 | .0 | .1 | .1 | .1 | .3 | .1 | .1 | .1 | .1 | 4.0 | |
| TOT OBS | 149 | 16 | 90 | 233 | 590 | 403 | 101 | 38 | 44 | 85 | 4238 | 5987 |
| TOT PCT | 2.5 | .3 | 1.5 | 3.9 | 9.9 | 6.7 | 1.7 | .6 | .7 | 1.4 | 70.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .9 | 1.8 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 |
| * OR >5000 | 1.3 | 2.4 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| * OR >3500 | 2.3 | 4.1 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| * OR >2000 | 6.0 | 10.4 | 11.1 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| * OR >1000 | 11.2 | 19.5 | 20.8 | 21.0 | 21.1 | 21.1 | 21.1 | 21.1 |
| * OR >600 | 13.0 | 22.9 | 24.5 | 24.8 | 24.9 | 24.9 | 25.0 | 25.0 |
| * OR >300 | 13.3 | 23.8 | 25.9 | 26.2 | 26.4 | 26.4 | 26.5 | 26.5 |
| * OR >150 | 13.4 | 24.0 | 26.1 | 26.4 | 26.6 | 26.6 | 26.7 | 26.7 |
| * OR > 0 | 13.5 | 24.2 | 26.4 | 27.0 | 27.4 | 27.7 | 28.5 | 29.2 |
| TOTAL | 813 | 1463 | 1598 | 1631 | 1655 | 1672 | 1719 | 1765 |

TOTAL NUMBER OF OBS: 6042

PCT FREQ NH <5/8: 70.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 38.5 | 9.2 | 12.6 | 5.7 | 4.4 | 5.1 | 7.5 | 4.5 | 10.5 | 2.2 | 6177 |

DECEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | * | * | * | .1 | * | * | .0 | .0 | .0 | .1 | |
| <1/2 | NO PCP | .3 | .2 | .1 | .1 | .2 | .1 | .3 | .4 | .0 | .4 | 2.1 | |
| | TOT % | .3 | .2 | .1 | .1 | .2 | .2 | .3 | .4 | .0 | .4 | 2.2 | |
| | PCP | * | * | * | * | .1 | .1 | * | * | .0 | .0 | .3 | |
| 1/2<1 | NO PCP | .1 | .1 | * | * | * | .1 | .1 | .2 | .0 | .1 | .6 | |
| | TOT % | .1 | .1 | .1 | .1 | .1 | .2 | .1 | .2 | .0 | .1 | .9 | |
| | PCP | .0 | .1 | * | .1 | .1 | .1 | * | * | .0 | * | .4 | |
| 1<2 | NO PCP | .3 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .3 | 1.5 | |
| | TOT % | .3 | .2 | .2 | .2 | .2 | .2 | .2 | .3 | .0 | .3 | 2.0 | |
| | PCP | * | .1 | .1 | .2 | .2 | .1 | .1 | .1 | .0 | .0 | .9 | |
| 2<5 | NO PCP | .7 | .5 | .3 | .4 | .3 | .4 | .7 | 1.2 | .0 | .5 | 5.0 | |
| | TOT % | .7 | .6 | .5 | .5 | .5 | .5 | .8 | 1.3 | .0 | .5 | 5.8 | |
| | PCP | .1 | .1 | .2 | .2 | .3 | .2 | .2 | .1 | .0 | * | 1.5 | |
| 5<10 | NO PCP | 4.7 | 2.6 | 2.6 | 2.3 | 2.0 | 2.5 | 5.3 | 9.1 | .0 | 2.3 | 33.4 | |
| | TOT % | 4.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.7 | 5.5 | 9.2 | .0 | 2.3 | 34.9 | |
| | PCP | .1 | * | .1 | .1 | .1 | .1 | .2 | .1 | .0 | * | .7 | |
| 10+ | NO PCP | 8.7 | 4.2 | 3.1 | 2.9 | 2.6 | 2.7 | 8.6 | 18.7 | .0 | 2.0 | 53.5 | |
| | TOT % | 8.8 | 4.3 | 3.2 | 3.1 | 2.7 | 2.8 | 8.8 | 16.8 | .0 | 2.0 | 54.2 | |
| | TOT OBS | | | | | | | | | | | | 9721 |
| | TOT PCT | 14.9 | 8.1 | 6.7 | 6.5 | 6.0 | 6.5 | 15.7 | 30.1 | .0 | 5.6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | .1 | .1 | * | .1 | * | .1 | .1 | .0 | .4 | 1.1 | |
| <1/2 | 4-10 | .2 | .1 | * | .1 | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | * | .0 | .0 | * | * | * | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | | .1 | |
| | TOT % | .3 | .2 | .1 | .1 | .2 | .2 | .3 | .4 | .0 | .4 | 2.3 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .1 | .1 | * | .1 | * | .1 | .1 | .1 | .0 | | .5 | |
| | 11-21 | * | * | * | * | * | .1 | * | * | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | | * | |
| | TOT % | .1 | .1 | .1 | .1 | .1 | .2 | .1 | .2 | .0 | .1 | 1.0 | |
| | 0-3 | .1 | * | .1 | * | .1 | .1 | .1 | .1 | .0 | .3 | .8 | |
| 1<2 | 4-10 | .2 | .1 | .1 | .1 | * | .1 | .2 | .2 | .0 | | 1.0 | |
| | 11-21 | * | .0 | * | .1 | .1 | .1 | * | .1 | .0 | | .4 | |
| | 22+ | .0 | * | * | * | * | * | .0 | .0 | .0 | | .1 | |
| | TOT % | .3 | .2 | .2 | .2 | .2 | .2 | .3 | .4 | .0 | .3 | 2.3 | |
| | 0-3 | .2 | .2 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .5 | 1.8 | |
| 2<5 | 4-10 | .4 | .4 | .3 | .3 | .2 | .2 | .5 | .7 | .0 | | 2.9 | |
| | 11-21 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 22+ | .0 | * | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .7 | .6 | .5 | .5 | .5 | .5 | .8 | 1.3 | .0 | .5 | 5.8 | |
| | 0-3 | .8 | .7 | .6 | .6 | .4 | .5 | .7 | .9 | .0 | 2.3 | 7.7 | |
| 5<10 | 4-10 | 2.6 | 1.4 | 1.5 | 1.3 | 1.2 | 1.4 | 3.1 | 4.3 | .0 | | 16.7 | |
| | 11-21 | 1.2 | .5 | .5 | .5 | .5 | .3 | 1.4 | 3.2 | .0 | | 8.4 | |
| | 22+ | .1 | .1 | * | .1 | .1 | .1 | .2 | .7 | .0 | | 1.4 | |
| | TOT % | 4.7 | 2.7 | 2.7 | 2.5 | 2.3 | 2.6 | 5.4 | 9.0 | .0 | 2.3 | 34.1 | |
| | 0-3 | .9 | .7 | .6 | .6 | .4 | .4 | .7 | 1.0 | .0 | 2.3 | 7.8 | |
| 10+ | 4-10 | 4.7 | 2.3 | 1.8 | 1.9 | 1.8 | 1.7 | 4.4 | 8.2 | .0 | | 27.8 | |
| | 11-21 | 2.9 | 1.1 | .7 | .5 | .4 | .6 | 3.0 | 7.0 | .0 | | 16.2 | |
| | 22+ | .3 | .3 | .1 | .1 | * | * | .6 | 1.3 | .0 | | 2.7 | |
| | TOT % | 8.8 | 4.4 | 3.2 | 3.1 | 2.7 | 2.8 | 8.7 | 18.5 | .0 | 2.3 | 54.4 | |
| | TOT OBS | | | | | | | | | | | | 10049 |
| | TOT PCT | 14.9 | 8.2 | 6.7 | 6.5 | 5.9 | 6.5 | 15.8 | 29.8 | .0 | 5.9 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | .1 | 1.4 | 4.3 | 9.3 | 5.8 | 2.1 | .8 | 1.0 | 2.1 | 29.0 | 71.0 | 1542 |
| 06&09 | 2.4 | .3 | 1.5 | 3.3 | 9.2 | 6.1 | 1.4 | .8 | .8 | 1.0 | 26.8 | 73.2 | 1461 |
| 12&15 | 3.3 | .3 | 1.3 | 4.2 | 11.4 | 7.3 | 1.6 | .2 | .3 | 1.1 | 31.4 | 68.6 | 1488 |
| 18&21 | 2.1 | .2 | 1.9 | 3.7 | 9.1 | 7.2 | 1.7 | .7 | .6 | 1.4 | 28.7 | 71.3 | 1629 |
| TOT | 190 | 16 | 93 | 237 | 597 | 405 | 103 | 39 | 45 | 85 | 1772 | 4348 | 6120 |
| PCT | 2.5 | .3 | 1.5 | 3.9 | 9.8 | 6.6 | 1.7 | .6 | .7 | 1.4 | 29.0 | 71.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | .9 | 1.9 | 6.2 | 33.2 | 56.0 | 2906 |
| 06&09 | 2.2 | .6 | 1.3 | 4.3 | 33.5 | 58.1 | 1734 |
| 12&15 | 3.3 | 1.3 | 3.9 | 6.2 | 36.4 | 49.6 | 2722 |
| 18&21 | 2.0 | 1.1 | 2.7 | 6.8 | 32.7 | 54.6 | 2816 |
| TOT | 235 | 106 | 241 | 614 | 3460 | 5522 | 10178 |
| PCT | 2.3 | 1.0 | 2.4 | 6.0 | 34.0 | 54.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.1 | 4.5 | 12.9 | 20.0 | 67.2 | 1517 |
| 06&09 | 2.5 | 4.8 | 11.5 | 18.2 | 70.3 | 1446 |
| 12&15 | 3.5 | 6.1 | 13.7 | 20.9 | 65.4 | 1476 |
| 18&21 | 2.3 | 5.0 | 14.8 | 19.0 | 66.2 | 1603 |
| TOT | 156 | 307 | 800 | 1180 | 4062 | 6042 |
| PCT | 2.6 | 5.1 | 13.2 | 19.5 | 67.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | * | * | * | .0 | .0 | .0 | .0 | 8 | .1 |
| 75/79 | .1 | .1 | .1 | .1 | * | * | .0 | .0 | 44 | .5 |
| 70/74 | .2 | .3 | .4 | .4 | .2 | .2 | .1 | * | 134 | 1.6 |
| 65/69 | .3 | .4 | .8 | 1.2 | 1.5 | 1.8 | 1.3 | .6 | 656 | 8.0 |
| 60/64 | .2 | .8 | 1.6 | 3.2 | 6.3 | 9.5 | 11.7 | 5.1 | 3153 | 38.3 |
| 55/59 | .1 | .3 | 1.2 | 3.2 | 6.0 | 9.0 | 13.3 | 6.8 | 3277 | 39.8 |
| 50/54 | * | .1 | .8 | 1.2 | 1.8 | 1.5 | 2.7 | 1.7 | 807 | 9.8 |
| 45/49 | * | .1 | .1 | .1 | .2 | .3 | .3 | .5 | 137 | 1.7 |
| 40/44 | .0 | .0 | .0 | * | .0 | .0 | * | .1 | 12 | .1 |
| TOTAL | 78 | 179 | 408 | 779 | 1326 | 1825 | 2416 | 1217 | 8228 | 100.0 |
| PCT | .9 | 2.2 | 5.0 | 9.5 | 16.1 | 22.2 | 29.4 | 14.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 |
| | .1 | * | * | * | .0 | * | .1 | .3 | .0 | * |
| | .2 | .1 | .1 | .1 | .1 | .1 | .3 | .7 | .0 | .1 |
| | 1.2 | .6 | .5 | .3 | .5 | .7 | 1.1 | 2.7 | .0 | .4 |
| | 5.7 | 2.6 | 2.1 | 2.2 | 2.9 | 3.1 | 6.0 | 12.1 | .0 | 1.7 |
| | 5.3 | 2.8 | 2.5 | 2.7 | 2.1 | 2.3 | 7.1 | 13.0 | .0 | 2.1 |
| | 1.7 | 1.4 | 1.2 | .9 | .4 | .4 | .8 | 2.1 | .0 | 1.0 |
| | .3 | .3 | .2 | .2 | .1 | .1 | .1 | .2 | .0 | .1 |
| | .0 | * | * | .0 | * | .0 | .1 | * | .0 | .0 |
| | 14.5 | 7.9 | 6.6 | 6.4 | 6.1 | 6.7 | 15.5 | 31.0 | .0 | 5.4 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 84 | 74 | 68 | 60 | 54 | 50 | 44 | 60.4 | 2918 |
| 06&09 | 73 | 66 | 64 | 59 | 53 | 50 | 45 | 58.8 | 1761 |
| 12&15 | 72 | 66 | 63 | 58 | 50 | 46 | 41 | 57.2 | 2765 |
| 18&21 | 81 | 74 | 69 | 61 | 55 | 50 | 41 | 61.0 | 2844 |
| TOT | 84 | 72 | 67 | 59 | 52 | 48 | 41 | 59.4 | 10288 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | 16.5 | 16.9 | 23.7 | 29.7 | 12.1 | 74 | 2455 |
| 06&09 | .2 | 13.1 | 15.3 | 21.0 | 30.8 | 19.7 | 77 | 1323 |
| 12&15 | .4 | 11.9 | 14.0 | 20.2 | 34.0 | 19.5 | 78 | 2233 |
| 18&21 | 1.9 | 23.2 | 17.6 | 23.0 | 23.3 | 10.9 | 71 | 2318 |
| TOT | 79 | 1382 | 1339 | 1845 | 2438 | 1246 | 75 | 8329 |

DECEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | 16 | .0 | .2 |
| 14/16 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .1 | .1 | * | 25 | .0 | .3 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .3 | .3 | * | .0 | 70 | * | .8 |
| 9/10 | .0 | .0 | .0 | * | * | .2 | .3 | .5 | .1 | .0 | .0 | 101 | * | 1.1 |
| 7/8 | .0 | .0 | .0 | .0 | .1 | .3 | 1.1 | .4 | .1 | .0 | .0 | 183 | * | 2.0 |
| 6 | .0 | .0 | .0 | * | .1 | .5 | .6 | .1 | * | .0 | .0 | 122 | * | 1.3 |
| 5 | .0 | .0 | .0 | * | .2 | 1.2 | 1.0 | .1 | * | .0 | .0 | 230 | .2 | 2.4 |
| 4 | .0 | .0 | .0 | .1 | .6 | 1.8 | .8 | .1 | .0 | .0 | .0 | 303 | .1 | 3.3 |
| 3 | .0 | .0 | .0 | .1 | .8 | 2.0 | .8 | .1 | .0 | .0 | .0 | 340 | .1 | 3.7 |
| 2 | .0 | .0 | .0 | .2 | 1.9 | 3.5 | .6 | .1 | .0 | .0 | .0 | 563 | .3 | 6.0 |
| 1 | .0 | .0 | * | .3 | 2.5 | 3.6 | .7 | * | .0 | .0 | .0 | 638 | .4 | 6.7 |
| 0 | .0 | .0 | .0 | .7 | 5.5 | 4.2 | .6 | .0 | .0 | .0 | .0 | 989 | .6 | 10.4 |
| -1 | .0 | .0 | * | .9 | 5.6 | 3.5 | .3 | .0 | .0 | .0 | .0 | 919 | .6 | 9.6 |
| -2 | .0 | * | * | 2.2 | 7.2 | 2.5 | .1 | .0 | .0 | .0 | .0 | 1087 | .8 | 11.3 |
| -3 | .0 | .0 | .1 | 2.2 | 5.7 | 1.7 | .1 | .0 | .0 | .0 | .0 | 874 | .7 | 9.0 |
| -4 | .0 | * | .2 | 2.8 | 4.3 | .8 | * | .0 | .0 | .0 | .0 | 720 | .5 | 7.5 |
| -5 | .0 | .0 | .4 | 2.2 | 3.0 | .6 | * | .0 | .0 | .0 | .0 | 556 | .5 | 5.7 |
| -6 | .0 | * | .6 | 1.7 | 1.6 | .3 | .0 | .0 | .0 | .0 | .0 | 378 | .5 | 3.7 |
| -7/-8 | .0 | .1 | .9 | 2.2 | 1.6 | .2 | .0 | .0 | .0 | .0 | .0 | 447 | .4 | 4.6 |
| -9/-10 | .0 | .2 | .8 | 1.0 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | 221 | .3 | 2.1 |
| -11/-13 | * | .2 | .8 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | 132 | .1 | 1.4 |
| -14/-16 | * | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 39 | * | .4 |
| -17/-19 | * | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | .0 | .1 |
| -20/-22 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 4 | 76 | 358 | 1520 | 3701 | 2414 | 637 | 165 | 65 | 20 | 5 | 8965 | 576 | 8389 |
| PCT | * | .8 | 4.0 | 17.0 | 41.3 | 26.9 | 7.1 | 1.8 | .7 | .2 | .1 | 100.0 | 6.4 | 93.6 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .7 | 3.1 | .3 | .0 | .0 | .0 | 4.0 |
| 1-2 | .5 | 4.5 | 2.7 | .0 | .0 | .0 | 7.6 |
| 3-4 | .1 | 1.1 | 1.9 | .2 | .0 | .0 | 3.3 |
| 5-6 | .0 | .2 | .3 | .1 | * | .0 | .6 |
| 7 | .0 | .1 | .3 | .1 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | * | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | * | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.3 | 9.0 | 5.5 | .6 | .2 | .0 | 16.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.4 | .1 | .0 | .0 | .0 | 2.1 |
| 1-2 | .2 | 1.8 | .9 | .0 | .0 | .0 | 3.0 |
| 3-4 | * | .6 | .8 | .2 | .0 | .0 | 1.6 |
| 5-6 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 3.8 | 2.0 | .3 | .0 | .0 | 7.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.3 | .1 | .0 | .0 | .0 | 1.9 |
| 1-2 | .2 | 1.4 | .5 | .0 | .0 | .0 | 2.1 |
| 3-4 | .1 | .1 | .4 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | * | .0 | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .0 | * | .0 | .1 |
| 8-9 | .0 | * | .0 | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 2.9 | 1.0 | .1 | * | .0 | 4.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .1 | 1.1 | * | .0 | .0 | .0 | 1.2 |
| 3-4 | .0 | .3 | .1 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | * | .1 | * | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.4 | .3 | * | .0 | .0 | 2.8 |

PERIOD: (OVER-ALL) 1963-1973 DECEMBER AREA 0032 SAN DIEGO 32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .5 | .9 | .0 | .0 | .0 | .0 | 1.4 | .5 | 1.4 | .0 | .0 | .0 | .0 | 2.0 |
| 1-2 | .1 | .9 | .3 | .0 | .0 | .0 | 1.4 | .2 | 1.3 | .6 | .0 | .0 | .0 | 2.1 |
| 3-4 | * | .3 | .1 | .0 | .0 | .0 | .5 | .1 | .3 | .7 | .3 | .0 | .0 | 1.5 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | .0 | .1 | .4 | .2 | .0 | .0 | .8 |
| 7 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .1 | .1 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | * | .0 | * | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.2 | .6 | * | .0 | .0 | 3.5 | .8 | 3.3 | 1.9 | .6 | * | .0 | 6.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .6 | 1.9 | .1 | .0 | .0 | .0 | 2.6 | .5 | 4.0 | .2 | .0 | .0 | .0 | 4.7 | |
| 1-2 | .4 | 4.3 | 2.4 | .0 | .0 | .0 | 7.1 | .6 | 8.6 | 5.9 | .0 | .0 | .0 | 15.1 | |
| 3-4 | * | 1.6 | 2.5 | .7 | .0 | .0 | 4.8 | .1 | 2.8 | 6.1 | 1.2 | .0 | .0 | 10.1 | |
| 5-6 | .0 | .3 | .9 | .2 | .0 | .0 | 1.3 | .0 | .6 | 2.1 | .8 | .1 | .0 | 3.6 | |
| 7 | .0 | * | .2 | .2 | .0 | .0 | .5 | .0 | .1 | 1.4 | .5 | * | .0 | 2.1 | |
| 8-9 | .0 | .0 | * | .0 | * | .0 | .1 | .0 | .0 | .5 | .4 | .1 | .0 | 1.0 | |
| 10-11 | .0 | * | .1 | * | .0 | .0 | .2 | .0 | .0 | .1 | .2 | .2 | .0 | .4 | |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | * | .1 | .1 | * | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | .1 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 8.1 | 6.3 | 1.2 | * | .0 | 16.6 | 1.1 | 16.1 | 16.5 | 3.3 | .4 | .0 | 37.4 | 95.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 8.5 | 15.0 | .8 | .0 | .0 | .0 | 24.3 | |
| 1-2 | 2.4 | 24.0 | 13.3 | .0 | .0 | .0 | 39.7 | |
| 3-4 | .4 | 7.1 | 12.6 | 2.6 | .0 | .0 | 22.7 | |
| 5-6 | .0 | 1.2 | 4.2 | 1.5 | .1 | .0 | 7.0 | |
| 7 | .0 | .4 | 2.2 | 1.0 | .1 | .0 | 3.6 | |
| 8-9 | * | * | .7 | .6 | .1 | .0 | 1.5 | |
| 10-11 | .0 | * | .2 | .2 | .2 | .0 | .6 | |
| 12 | .0 | * | .1 | .1 | * | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .1 | .2 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 11.4 | 47.8 | 34.0 | 6.1 | .7 | .0 | 100.0 | 2506 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.3 | 19.4 | 19.8 | 4.7 | 1.8 | .4 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2415 | 3 |
| 6-7 | * | 3.5 | 7.6 | 4.5 | 2.8 | 1.1 | .6 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1016 | 4 |
| 8-9 | .1 | 1.1 | 2.3 | 2.3 | 1.9 | 1.1 | .5 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 475 | 5 |
| 10-11 | .0 | 1.2 | .8 | .5 | .6 | .4 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 201 | 5 |
| 12-13 | .0 | .0 | .3 | .2 | .2 | .1 | .2 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 55 | 7 |
| >13 | .0 | .0 | .0 | * | .1 | .1 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 24 | 9 |
| INDET | 12.1 | 2.2 | .8 | .3 | .2 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 782 | 1 |
| TOTAL | 721 | 1363 | 1566 | 621 | 377 | 168 | 86 | 40 | 23 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4968 | 3 |
| PCT | 14.5 | 27.4 | 31.5 | 12.5 | 7.6 | 3.4 | 1.7 | .8 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .1 | .4 | .0 | .0 | .0 | .0 | .9 | .2 | .1 | 7.4 | .2 | 10.1 | .1 | | 81.2 |
| NE | 1.1 | .2 | .6 | .0 | .0 | .0 | .0 | 1.9 | .3 | .3 | 9.0 | .2 | 11.9 | * | | 76.6 |
| E | 1.5 | .4 | .9 | .0 | .0 | .0 | .0 | 2.6 | .4 | .1 | 9.6 | .3 | 11.1 | .1 | | 75.8 |
| SE | 3.0 | .7 | 1.5 | .0 | .0 | .0 | * | 4.9 | 1.1 | .1 | 7.6 | .2 | 12.6 | * | | 73.9 |
| S | 3.7 | 1.1 | 1.8 | .0 | .0 | .0 | * | 6.3 | 1.0 | .1 | 7.1 | .2 | 11.0 | * | | 74.2 |
| SW | 1.8 | .8 | 1.4 | .0 | .0 | .0 | * | 3.8 | .8 | .1 | 6.3 | .2 | 10.4 | * | | 78.4 |
| W | .6 | .4 | .8 | .0 | .0 | .0 | * | 1.7 | .6 | .1 | 5.3 | .1 | 8.1 | * | | 84.1 |
| NW | .3 | .2 | .5 | .0 | .0 | .0 | * | 1.0 | .3 | * | 4.7 | .1 | 7.6 | * | | 86.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .3 | .1 | .6 | .0 | .0 | .0 | .1 | 1.0 | .2 | .2 | 14.9 | .3 | 15.1 | * | | 68.3 |
| TOT PCT | .9 | .4 | .8 | .0 | .0 | .0 | * | 1.9 | .5 | .1 | 6.1 | .1 | 9.1 | * | | 82.1 |
| TOT OBS:160966 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .9 | .3 | .4 | .0 | .0 | .0 | * | 1.6 | .3 | .1 | 3.9 | .1 | 8.8 | * | | 85.2 |
| 06&09 | .8 | .3 | .9 | .0 | .0 | .0 | * | 1.9 | .6 | .2 | 5.8 | .1 | 5.9 | * | | 85.4 |
| 12&15 | 1.1 | .4 | 1.2 | .0 | .0 | .0 | * | 2.6 | .5 | .1 | 7.8 | .2 | 9.0 | * | | 79.8 |
| 18&21 | .8 | .4 | .6 | .0 | .0 | .0 | * | 1.7 | .5 | * | 6.8 | .2 | 11.6 | * | | 79.2 |
| TOT PCT | .9 | .4 | .8 | .0 | .0 | .0 | * | 1.9 | .5 | .1 | 6.1 | .1 | 9.1 | * | | 82.1 |
| TOT OBS:162296 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.5 | 5.5 | 3.0 | .3 | * | * | | 10.2 | 8.9 | 6.8 | 9.5 | 11.7 | 10.7 | 12.6 | 13.0 | 11.5 | 7.2 |
| NE | .9 | 2.1 | .6 | .1 | * | .0 | | 3.7 | 6.5 | 1.5 | 3.2 | 2.9 | 3.7 | 4.5 | 7.3 | 5.0 | 2.7 |
| E | .8 | 1.9 | .5 | * | * | .0 | | 3.3 | 6.3 | 1.1 | 2.0 | 2.6 | 3.4 | 4.0 | 6.9 | 4.8 | 2.2 |
| SE | .9 | 2.3 | .7 | .1 | * | * | | 4.0 | 6.9 | 2.1 | 3.5 | 3.2 | 3.7 | 3.9 | 7.1 | 5.2 | 3.6 |
| S | 1.1 | 3.6 | 1.0 | .1 | * | * | | 5.9 | 7.5 | 5.1 | 5.0 | 4.6 | 4.6 | 4.7 | 7.4 | 7.0 | 7.6 |
| SW | 1.4 | 5.2 | 1.4 | .1 | * | .0 | | 8.2 | 7.4 | 8.9 | 8.3 | 6.1 | 6.9 | 5.6 | 7.6 | 8.2 | 12.2 |
| W | 2.1 | 13.1 | 8.2 | .8 | * | .0 | | 24.3 | 9.8 | 31.6 | 27.7 | 22.8 | 25.1 | 19.7 | 15.8 | 20.7 | 29.3 |
| NW | 2.3 | 16.2 | 15.6 | 2.1 | .1 | * | | 36.4 | 11.3 | 41.2 | 37.8 | 41.8 | 36.2 | 39.0 | 28.3 | 33.0 | 32.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.1 | | | | | | | 4.1 | .0 | 1.7 | 3.1 | 4.3 | 5.6 | 6.0 | 6.5 | 4.7 | 2.5 |
| TOT OBS | | | | | | | 166886 | | 9.2 | 29893 | 15213 | 20483 | 10516 | 21936 | 20331 | 25610 | 22904 |
| TOT PCT | 15.1 | 50.1 | 31.0 | 3.6 | .2 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.0 | 5.3 | .8 | .1 | * | | 10.2 | 8.9 | 7.7 | 11.3 | 12.8 | 9.5 |
| NE | 2.1 | 1.4 | .2 | * | .0 | | 3.7 | 6.5 | 2.0 | 3.1 | 5.9 | 3.9 |
| E | 2.0 | 1.2 | .1 | * | * | | 3.3 | 6.3 | 1.4 | 2.9 | 5.4 | 3.6 |
| SE | 2.2 | 1.5 | .2 | * | * | | 4.0 | 6.9 | 2.5 | 3.4 | 5.4 | 4.4 |
| S | 3.0 | 2.5 | .3 | * | * | | 5.9 | 7.5 | 5.1 | 4.6 | 6.0 | 7.3 |
| SW | 4.1 | 3.7 | .3 | * | .0 | | 8.2 | 7.4 | 8.7 | 6.4 | 6.6 | 10.1 |
| W | 7.5 | 14.1 | 2.5 | .2 | * | | 24.3 | 9.8 | 30.3 | 23.6 | 17.9 | 24.7 |
| NW | 8.1 | 21.7 | 6.0 | .5 | * | | 36.4 | 11.3 | 40.1 | 39.9 | 33.8 | 32.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.1 | | | | | | 4.1 | .0 | 2.2 | 4.7 | 6.2 | 3.7 |
| TOT OBS | | | | | | 166886 | | 9.2 | 45106 | 30999 | 42267 | 48514 |
| TOT PCT | 37.0 | 51.6 | 10.4 | .9 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

ANNUAL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.2 | 7.9 | 47.1 | 37.9 | 4.6 | .2 | * | 10.3 | 100.0 | 45106 |
| 06&09 | 4.7 | 9.1 | 47.9 | 33.6 | 4.8 | .2 | .0 | 9.7 | 100.0 | 30999 |
| 12&15 | 6.2 | 15.9 | 50.4 | 24.3 | 3.0 | .1 | * | 8.1 | 100.0 | 42267 |
| 18&21 | 3.7 | 10.8 | 53.9 | 28.9 | 2.6 | .1 | .0 | 8.8 | 100.0 | 48514 |
| TOT | | | | | | | | 9.2 | | 166886 |
| PCT | 4.1 | 11.0 | 50.1 | 31.0 | 3.6 | .2 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 5.3 | 1.0 | 2.1 | 2.5 | | 3.9 |
| NE | 1.9 | .3 | .7 | .7 | | 3.9 |
| E | 1.5 | .3 | .6 | .9 | | 4.3 |
| SE | 1.0 | .3 | .9 | 1.5 | | 5.2 |
| S | 1.2 | .4 | 1.3 | 2.4 | | 5.5 |
| SW | 1.9 | .7 | 1.8 | 2.9 | | 5.2 |
| W | 8.5 | 2.5 | 5.9 | 7.5 | | 4.4 |
| NW | 14.9 | 3.9 | 8.4 | 10.4 | | 4.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.6 | .3 | .8 | 1.5 | | 4.6 |
| TOT OBS | | | | | 106472 | 4.4 |
| TOT PCT | 37.8 | 9.7 | 22.4 | 30.2 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | * | .2 | .6 | 1.5 | .7 | .1 | * | * | .1 | 7.2 | |
| NE | .1 | * | * | .1 | .4 | .2 | * | * | * | .1 | 2.6 | |
| E | .1 | * | * | .2 | .5 | .3 | * | * | * | * | 2.1 | |
| SE | .1 | * | .1 | .3 | .9 | .4 | .1 | * | * | .1 | 1.7 | |
| S | .1 | * | .1 | .5 | 1.4 | .7 | .1 | * | * | .1 | 2.1 | |
| SW | .2 | * | .2 | .6 | 1.9 | .9 | .1 | * | * | .1 | 3.2 | |
| W | .4 | * | .5 | 2.0 | 5.3 | 2.5 | .3 | .1 | .1 | .2 | 12.9 | |
| NW | .5 | .1 | 1.0 | 3.1 | 7.0 | 3.1 | .5 | .1 | .1 | .3 | 21.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .3 | * | .1 | .3 | .8 | .3 | * | * | * | .1 | 2.2 | |
| TOT OBS | | | | | | | | | | | | 106472 |
| TOT PCT | 2.0 | .3 | 2.4 | 7.8 | 19.7 | 9.0 | 1.4 | .4 | .4 | 1.0 | 55.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >5000 | .9 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >3500 | 1.8 | 3.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| * OR >2000 | 7.2 | 11.9 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| * OR >1000 | 16.2 | 30.4 | 31.7 | 31.8 | 31.9 | 31.9 | 31.9 | 31.9 |
| * OR >600 | 18.6 | 37.1 | 39.3 | 39.5 | 39.6 | 39.6 | 39.7 | 39.7 |
| * OR >300 | 19.0 | 38.6 | 41.4 | 41.8 | 41.9 | 42.0 | 42.0 | 42.0 |
| * OR >150 | 19.1 | 38.8 | 41.6 | 42.0 | 42.2 | 42.2 | 42.3 | 42.3 |
| * OR > 0 | 19.2 | 39.0 | 42.0 | 42.6 | 43.1 | 43.3 | 43.8 | 44.2 |

TOTAL NUMBER OF OBS: 107121 PCT FREQ NH <5/8: 55.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 28.1 | 7.6 | 11.1 | 5.2 | 3.7 | 4.5 | 7.9 | 6.0 | 24.3 | 1.6 110671 |

ANNUAL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | NO PCP | .2 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .0 | .2 | 1.4 | |
| | TOT % | .2 | .1 | .1 | .1 | .1 | .1 | .3 | .4 | .0 | .2 | 1.5 | |
| 1/2<1 | PCP | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | NO PCP | .1 | * | * | * | .1 | .1 | .1 | .2 | .0 | .1 | .8 | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .2 | .2 | .0 | .1 | .9 | |
| 1<2 | PCP | * | * | * | * | * | * | * | * | .0 | * | .2 | |
| | NO PCP | .2 | .1 | .1 | .1 | .1 | .2 | .3 | .4 | .0 | .1 | 1.5 | |
| | TOT % | .2 | .1 | .1 | .1 | .2 | .2 | .3 | .4 | .0 | .2 | 1.7 | |
| 2<5 | PCP | * | * | * | .1 | .1 | .1 | .1 | .1 | .0 | * | .4 | |
| | NO PCP | .6 | .2 | .2 | .3 | .4 | .6 | 1.2 | 1.6 | .0 | .3 | 5.5 | |
| | TOT % | .6 | .3 | .3 | .3 | .5 | .6 | 1.3 | 1.7 | .0 | .3 | 5.9 | |
| 5<10 | PCP | * | * | .1 | .1 | .2 | .1 | .2 | .2 | .0 | * | .8 | |
| | NO PCP | 3.6 | 1.3 | 1.3 | 1.5 | 2.4 | 3.3 | 9.3 | 12.4 | .0 | 1.5 | 36.6 | |
| | TOT % | 3.7 | 1.4 | 1.3 | 1.6 | 2.6 | 3.4 | 9.4 | 12.6 | .0 | 1.5 | 37.4 | |
| 10+ | PCP | * | * | * | .1 | * | * | .1 | .1 | .0 | * | .3 | |
| | NO PCP | 5.4 | 1.9 | 1.6 | 1.8 | 2.4 | 3.7 | 12.9 | 21.0 | .0 | 1.5 | 52.3 | |
| | TOT % | 5.5 | 1.9 | 1.6 | 1.8 | 2.5 | 3.8 | 13.0 | 21.1 | .0 | 1.5 | 52.6 | |
| | TOT OBS | | | | | | | | | | | | 160870 |
| | TOT PCT | 10.2 | 3.8 | 3.3 | 4.0 | 5.9 | 8.2 | 24.4 | 36.3 | .0 | 3.8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | * | * | * | * | .1 | .1 | .0 | .2 | .5 | |
| | 4-10 | .1 | * | * | * | .1 | .1 | .2 | .2 | .0 | | .8 | |
| | 11-21 | * | * | * | * | * | * | .1 | .1 | .0 | | .2 | |
| | 22+ | * | .0 | .0 | * | * | * | * | * | .0 | | * | |
| | TOT % | .2 | .1 | .1 | .1 | .1 | .1 | .3 | .4 | .0 | .2 | 1.5 | |
| 1/2<1 | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .3 | |
| | 4-10 | .1 | * | * | * | * | * | .1 | .1 | .0 | | .5 | |
| | 11-21 | * | * | * | * | * | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | * | * | * | * | * | * | * | .0 | | * | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .2 | .3 | .0 | .1 | .9 | |
| 1<2 | 0-3 | .1 | * | * | * | * | * | .1 | .1 | .0 | .2 | .6 | |
| | 4-10 | .1 | .1 | * | .1 | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | * | * | * | * | * | * | .1 | .1 | .0 | | .3 | |
| | 22+ | * | * | * | * | * | * | * | * | .0 | | * | |
| | TOT % | .2 | .1 | .1 | .1 | .2 | .2 | .4 | .5 | .0 | .2 | 1.9 | |
| 2<5 | 0-3 | .2 | .1 | .1 | .1 | .1 | .2 | .2 | .2 | .0 | .4 | 1.5 | |
| | 4-10 | .3 | .1 | .1 | .2 | .3 | .4 | .8 | 1.0 | .0 | | 3.3 | |
| | 11-21 | .1 | * | * | * | .1 | .1 | .3 | .5 | .0 | | 1.1 | |
| | 22+ | * | * | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .6 | .3 | .3 | .4 | .5 | .7 | 1.3 | 1.8 | .0 | .4 | 6.1 | |
| 5<10 | 0-3 | .6 | .4 | .3 | .4 | .5 | .6 | .8 | .8 | .0 | 1.6 | 5.9 | |
| | 4-10 | 2.0 | .8 | .8 | .9 | 1.6 | 2.2 | 5.2 | 5.9 | .0 | | 19.3 | |
| | 11-21 | 1.0 | .2 | .2 | .3 | .4 | .5 | 3.0 | 5.1 | .0 | | 10.6 | |
| | 22+ | .1 | * | * | * | .1 | * | .2 | .6 | .0 | | 1.1 | |
| | TOT % | 3.6 | 1.3 | 1.3 | 1.6 | 2.5 | 3.3 | 9.3 | 12.4 | .0 | 1.6 | 36.9 | |
| 10+ | 0-3 | .6 | .4 | .3 | .4 | .4 | .6 | .9 | 1.0 | .0 | 1.7 | 6.2 | |
| | 4-10 | 2.9 | 1.1 | .9 | 1.1 | 1.6 | 2.4 | 6.6 | 8.6 | .0 | | 25.2 | |
| | 11-21 | 1.8 | .4 | .3 | .3 | .5 | .7 | 4.9 | 9.8 | .0 | | 18.7 | |
| | 22+ | .2 | * | * | * | * | * | .6 | 1.6 | .0 | | 2.6 | |
| | TOT % | 5.5 | 1.9 | 1.6 | 1.8 | 2.5 | 3.8 | 12.9 | 21.0 | .0 | 1.7 | 52.6 | |
| | TOT OBS | | | | | | | | | | | | 164883 |
| | TOT PCT | 10.2 | 3.8 | 3.3 | 4.0 | 5.9 | 8.2 | 24.3 | 36.3 | .0 | 4.0 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1961-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | .2 | 1.9 | 6.6 | 16.6 | 7.4 | 1.3 | .4 | .5 | 1.3 | 37.5 | 62.5 | 27348 |
| 06&09 | 1.9 | .2 | 2.2 | 6.9 | 17.8 | 8.3 | 1.2 | .4 | .4 | .8 | 40.1 | 59.9 | 25165 |
| 12&15 | 2.6 | .3 | 2.8 | 9.1 | 22.5 | 10.6 | 1.4 | .4 | .3 | .8 | 50.8 | 49.2 | 25947 |
| 18&21 | 2.0 | .3 | 2.4 | 8.0 | 20.4 | 9.3 | 1.5 | .4 | .4 | 1.1 | 45.7 | 54.3 | 30584 |
| TOT | | | | | | | | | | | | | 109044 |
| PCT | 1.9 | .3 | 2.3 | 7.7 | 19.4 | 8.9 | 1.4 | .4 | .4 | 1.0 | 43.6 | 56.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | .7 | 1.6 | 5.6 | 36.5 | 54.5 | 44897 |
| 06&09 | 1.5 | .6 | .7 | 3.8 | 37.3 | 56.1 | 30879 |
| 12&15 | 2.3 | 1.5 | 2.8 | 6.7 | 37.4 | 49.3 | 42033 |
| 18&21 | 1.4 | 1.0 | 2.3 | 7.6 | 36.1 | 51.6 | 48460 |
| TOT | | | | | | | 166269 |
| PCT | 1.5 | .9 | 2.0 | 6.1 | 36.8 | 52.6 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 3.8 | 13.3 | 26.9 | 59.8 | 26757 |
| 06&09 | 1.9 | 4.7 | 13.8 | 28.2 | 58.0 | 24854 |
| 12&15 | 2.7 | 6.3 | 18.3 | 34.8 | 46.9 | 25587 |
| 18&21 | 2.1 | 5.3 | 18.0 | 31.6 | 50.4 | 29923 |
| TOT | | | | | | 107121 |
| PCT | 2.0 | 5.0 | 15.9 | 30.4 | 53.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 90/94 | * | * | * | .0 | .0 | .0 | .0 | .0 | | * |
| 85/89 | * | * | * | * | * | .0 | * | .0 | | * |
| 80/84 | * | * | * | * | * | * | * | * | | .2 |
| 75/79 | .1 | .1 | .1 | .2 | .2 | .3 | .1 | * | | 1.0 |
| 70/74 | .1 | .1 | .2 | .4 | 1.0 | 1.6 | 1.4 | .5 | | 5.2 |
| 65/69 | .1 | .1 | .3 | .7 | 1.8 | 5.2 | 8.2 | 3.8 | | 20.2 |
| 60/64 | * | .2 | .5 | 1.3 | 4.0 | 9.3 | 15.2 | 6.7 | | 37.3 |
| 55/59 | * | .1 | .4 | 1.1 | 3.2 | 7.9 | 11.5 | 5.5 | | 29.8 |
| 50/54 | * | * | .2 | .5 | 1.0 | 1.0 | 1.8 | 1.2 | | 5.7 |
| 45/49 | * | * | * | * | .1 | .1 | .1 | .1 | | .5 |
| 40/44 | .0 | .0 | * | * | * | * | * | * | | .1 |
| 35/39 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | | * |
| TOTAL | | | | | | | | | 133216 | 100.0 |
| PCT | .3 | .7 | 1.7 | 4.1 | 11.4 | 25.5 | 38.3 | 17.9 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | * | .0 | .0 | .0 | * | * | .0 | * |
| * | * | * | * | * | * | * | * | .0 | * |
| * | * | * | * | * | * | * | .1 | .0 | * |
| .1 | * | * | * | .1 | .1 | .2 | .4 | .0 | * |
| .4 | .2 | .1 | .2 | .3 | .5 | 1.4 | 1.9 | .0 | .2 |
| 1.8 | .6 | .5 | .7 | 1.3 | 2.0 | 5.3 | 7.2 | .0 | .8 |
| 3.7 | 1.3 | 1.0 | 1.4 | 2.4 | 3.3 | 9.1 | 13.6 | .0 | 1.3 |
| 3.2 | 1.2 | 1.1 | 1.3 | 1.7 | 2.1 | 7.0 | 11.2 | .0 | 1.0 |
| .8 | .4 | .4 | .3 | .2 | .3 | 1.0 | 2.0 | .0 | .3 |
| .1 | .1 | .1 | .1 | * | * | * | .1 | .0 | * |
| * | * | * | * | * | * | * | * | .0 | * |
| .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10.2 | 3.8 | 3.3 | 4.0 | 6.0 | 8.3 | 24.1 | 36.5 | .0 | 3.7 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 93 | 74 | 69 | 62 | 57 | 54 | 40 | 62.5 | 45227 |
| 06&09 | 86 | 68 | 66 | 60 | 56 | 53 | 43 | 60.4 | 31164 |
| 12&15 | 93 | 69 | 66 | 60 | 54 | 52 | 38 | 60.0 | 42529 |
| 18&21 | 94 | 74 | 70 | 62 | 57 | 54 | 39 | 62.8 | 48661 |
| TOT | 94 | 73 | 68 | 61 | 56 | 53 | 38 | 61.6 | 167581 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | 7.2 | 12.8 | 27.1 | 37.4 | 15.1 | 78 | 37408 |
| 06&09 | .1 | 3.7 | 8.5 | 22.2 | 42.9 | 22.6 | 82 | 23482 |
| 12&15 | .1 | 4.6 | 8.5 | 21.7 | 41.1 | 24.0 | 82 | 33926 |
| 18&21 | .6 | 9.2 | 14.3 | 29.1 | 33.8 | 12.9 | 77 | 39534 |
| TOT | 417 | 8364 | 15130 | 34376 | 51769 | 24294 | 79 | 134350 |

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

TABLE 17

AREA 0032 SAN DIEGO
32.6N 118.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | 85 88 | 89 92 | >92 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | * | 15 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | * | * | * | * | 51 | * | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | * | * | * | .0 | 133 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | * | .1 | .1 | * | * | * | * | * | 405 | * | .3 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | .2 | .2 | .1 | * | * | .0 | .0 | 1051 | * | .7 |
| 9/10 | .0 | .0 | .0 | .0 | * | * | .1 | .3 | .3 | .1 | .1 | * | * | .0 | .0 | 1422 | * | .9 |
| 7/8 | .0 | .0 | .0 | * | * | .1 | .4 | .8 | .4 | .2 | * | * | .0 | .0 | .0 | 2966 | .1 | 1.9 |
| 6 | .0 | .0 | .0 | .0 | * | .2 | .5 | .5 | .3 | .1 | * | * | .0 | .0 | .0 | 2369 | .1 | 1.5 |
| 5 | .0 | .0 | * | * | .1 | .3 | .7 | .8 | .4 | .2 | * | * | .0 | .0 | .0 | 3571 | .1 | 2.3 |
| 4 | .0 | .0 | .0 | * | .1 | .5 | 1.3 | .9 | .5 | .1 | * | .0 | .0 | .0 | .0 | 5015 | .2 | 3.2 |
| 3 | .0 | .0 | .0 | * | .1 | .8 | 1.5 | 1.1 | .6 | .1 | * | * | .0 | .0 | .0 | 6300 | .2 | 4.1 |
| 2 | .0 | .0 | .0 | * | .2 | 1.8 | 2.3 | 1.4 | .7 | .1 | * | .0 | .0 | .0 | .0 | 9632 | .4 | 6.1 |
| 1 | .0 | .0 | .0 | * | .4 | 2.2 | 2.6 | 1.7 | .7 | .1 | * | .0 | .0 | .0 | .0 | 11449 | .4 | 7.4 |
| 0 | .0 | .0 | * | * | .9 | 4.1 | 3.5 | 2.0 | .6 | * | * | * | .0 | .0 | .0 | 16558 | .6 | 10.6 |
| -1 | .0 | .0 | .0 | * | 1.1 | 4.1 | 3.2 | 2.0 | .5 | * | * | .0 | .0 | .0 | .0 | 16227 | .6 | 10.4 |
| -2 | .0 | .0 | * | .1 | 2.1 | 4.6 | 3.5 | 1.7 | .3 | * | * | .0 | .0 | .0 | .0 | 18131 | .7 | 11.6 |
| -3 | .0 | .0 | * | .1 | 2.0 | 3.8 | 2.9 | 1.6 | .2 | * | * | .0 | .0 | .0 | .0 | 15806 | .7 | 10.0 |
| -4 | .0 | .0 | * | .3 | 2.1 | 3.0 | 2.3 | 1.0 | .1 | * | * | .0 | .0 | .0 | .0 | 12970 | .6 | 8.2 |
| -5 | .0 | * | * | .2 | 1.5 | 2.0 | 1.7 | .8 | .1 | * | * | .0 | .0 | .0 | .0 | 9354 | .5 | 5.9 |
| -6 | .0 | .0 | * | .3 | 1.0 | 1.2 | 1.2 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | 5987 | .3 | 3.7 |
| -7/-8 | .0 | * | .1 | .4 | .9 | 1.0 | 1.0 | .3 | * | * | .0 | .0 | .0 | .0 | .0 | 5235 | .3 | 3.3 |
| -9/-10 | * | * | .1 | .2 | .3 | .3 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | 1679 | .1 | 1.0 |
| -11/-13 | * | * | .1 | .1 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 633 | * | .4 |
| -14/-16 | * | * | * | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 147 | * | .1 |
| -17/-19 | * | * | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 42 | * | * |
| -20/-22 | .0 | * | .0 | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | .0 | * |
| TOTAL | | | | | | | | | | | | | | | | 47154 | | |
| PCT | * | * | .3 | 1.9 | 13.0 | 30.2 | 29.0 | 17.5 | 6.1 | 1.5 | .4 | .1 | * | * | * | 100.0 | 6.1 | 93.9 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.7 | .1 | .0 | .0 | .0 | 2.4 |
| 1-2 | .4 | 3.1 | 1.6 | .0 | .0 | .0 | 5.1 |
| 3-4 | * | .8 | 1.1 | .1 | .0 | .0 | 2.1 |
| 5-6 | * | .1 | .3 | .1 | * | .0 | .5 |
| 7 | * | * | .2 | .1 | * | .0 | .3 |
| 8-9 | .0 | * | * | * | * | .0 | .1 |
| 10-11 | .0 | .0 | * | * | * | .0 | * |
| 12 | .0 | .0 | * | * | * | .0 | * |
| 13-16 | .0 | * | * | * | * | .0 | * |
| 17-19 | .0 | .0 | .0 | * | * | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 5.8 | 3.3 | .4 | * | .0 | 10.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | * | .0 | .0 | .0 | 1.2 |
| 1-2 | .2 | 1.2 | .4 | .0 | .0 | .0 | 1.8 |
| 3-4 | * | .2 | .2 | * | .0 | .0 | .5 |
| 5-6 | * | * | .1 | * | .0 | .0 | .1 |
| 7 | .0 | * | * | * | .0 | .0 | * |
| 8-9 | .0 | * | * | * | * | .0 | * |
| 10-11 | .0 | .0 | * | * | * | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.2 | .8 | .1 | * | .0 | 3.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | * | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | 1.0 | .3 | .0 | .0 | .0 | 1.4 |
| 3-4 | * | .1 | .2 | * | .0 | .0 | .3 |
| 5-6 | .0 | * | * | * | .0 | .0 | .1 |
| 7 | .0 | * | * | .0 | * | .0 | * |
| 8-9 | .0 | * | .0 | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 1.9 | .5 | * | * | .0 | 2.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .9 | * | .0 | .0 | .0 | 1.2 |
| 1-2 | .2 | 1.2 | .4 | .0 | .0 | .0 | 1.7 |
| 3-4 | * | .2 | .2 | * | .0 | .0 | .4 |
| 5-6 | .0 | * | * | * | .0 | .0 | .1 |
| 7 | .0 | * | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * |
| 10-11 | .0 | * | .0 | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.3 | .4 | * | .0 | .0 | 3.5 |

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 1.4 | .1 | .0 | .0 | .0 | 1.8 | .5 | 1.8 | .1 | .0 | .0 | .0 | 2.4 |
| 1-2 | .3 | 1.6 | .5 | .0 | .0 | .0 | 2.4 | .3 | 2.6 | .7 | .0 | .0 | .0 | 3.7 |
| 3-4 | * | .3 | .3 | .1 | .0 | .0 | .6 | .1 | .5 | .4 | .1 | .0 | .0 | 1.0 |
| 5-6 | * | * | .1 | * | * | .0 | .1 | * | .1 | .1 | * | .0 | .0 | .2 |
| 7 | .0 | * | * | * | * | .0 | * | .0 | * | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * | .0 | .0 | * | * | * | .0 | * |
| 10-11 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 3.3 | .9 | .1 | * | .0 | 5.0 | .9 | 4.9 | 1.4 | .1 | * | .0 | 7.4 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .7 | 3.0 | .2 | .0 | .0 | .0 | 3.9 | .7 | 3.4 | .2 | .0 | .0 | .0 | 4.2 | |
| 1-2 | .6 | 7.0 | 4.0 | .0 | .0 | .0 | 11.7 | .7 | 9.6 | 7.0 | .0 | .0 | .0 | 17.3 | |
| 3-4 | .1 | 2.2 | 3.3 | .4 | .0 | .0 | 6.0 | .1 | 3.4 | 7.1 | .9 | .0 | .0 | 11.5 | |
| 5-6 | * | .3 | .7 | .2 | * | .0 | 1.1 | * | .6 | 2.5 | .5 | * | .0 | 3.7 | |
| 7 | .0 | .1 | .3 | .2 | * | .0 | .5 | * | .2 | 1.2 | .6 | * | .0 | 2.0 | |
| 8-9 | .0 | * | .1 | * | * | .0 | .1 | .0 | * | .3 | .3 | * | .0 | .7 | |
| 10-11 | .0 | * | * | * | * | .0 | .1 | .0 | * | .1 | .2 | * | .0 | .3 | |
| 12 | .0 | .0 | * | * | * | .0 | * | .0 | * | * | .1 | * | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * | * | .0 | .1 | |
| 17-19 | .0 | * | .0 | * | .0 | .0 | * | .0 | .0 | * | * | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.5 | 12.5 | 8.6 | .8 | * | .0 | 23.4 | 1.5 | 17.2 | 18.5 | 2.6 | .1 | .0 | 40.0 | 96.2 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.4 | 13.8 | .7 | .0 | .0 | .0 | 21.8 | |
| 1-2 | 3.2 | 27.1 | 14.9 | .0 | .0 | .0 | 45.2 | |
| 3-4 | .5 | 7.6 | 12.7 | 1.6 | .0 | .0 | 22.4 | |
| 5-6 | * | 1.2 | 3.7 | .9 | * | .0 | 5.9 | |
| 7 | * | .3 | 1.8 | .9 | .1 | .0 | 3.0 | |
| 8-9 | * | .1 | .5 | .4 | * | .0 | 1.0 | |
| 10-11 | .0 | * | .2 | .2 | .1 | .0 | .5 | |
| 12 | .0 | * | .1 | .1 | * | .0 | .2 | |
| 13-16 | .0 | * | * | .1 | * | .0 | .1 | |
| 17-19 | .0 | * | * | * | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 38172 |
| TOT PCT | 11.1 | 50.1 | 34.5 | 4.2 | .2 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.1 | 25.4 | 20.9 | 4.8 | 1.8 | .4 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 46680 | 3 |
| 6-7 | .1 | 3.9 | 7.5 | 3.8 | 2.1 | .8 | .3 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 15252 | 4 |
| 8-9 | .1 | 1.4 | 2.5 | 1.5 | 1.2 | .6 | .3 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6495 | 5 |
| 10-11 | .0 | .8 | .7 | .5 | .4 | .3 | .1 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | 2518 | 5 |
| 12-13 | .0 | .0 | .3 | .1 | .1 | .1 | .1 | * | * | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 704 | 6 |
| >13 | .0 | * | .0 | .1 | .1 | * | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 203 | 9 |
| INDET | 9.5 | 2.0 | .7 | .2 | .1 | .1 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10331 | 1 |
| TOTAL PCT | 12.7 | 33.5 | 32.6 | 11.1 | 5.8 | 2.4 | 1.1 | .4 | .3 | .1 | * | * | .0 | .0 | .0 | .0 | * | .0 | .0 | 82183 100.0 | 3 |

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

| SEA TMP DEG F | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN | PCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 95/96 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 93/94 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 91/92 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 89/90 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 87/88 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 85/86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | 4 | * |
| 83/84 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | * | .0 | .0 | 13 | * |
| 81/82 | .0 | .0 | .0 | .0 | .0 | * | * | * | .1 | * | * | .0 | 24 | * |
| 79/80 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | * | * | * | .0 | 32 | * |
| 77/78 | .0 | .0 | .0 | .0 | * | * | .2 | .3 | .2 | * | * | .0 | 100 | .1 |
| 75/76 | .0 | * | * | * | * | * | .6 | 1.4 | 1.0 | .2 | * | .0 | 444 | .3 |
| 73/74 | * | .0 | * | * | .1 | .5 | 1.6 | 4.1 | 2.1 | .9 | .1 | * | 1229 | .8 |
| 71/72 | * | .1 | * | .1 | .2 | 1.1 | 3.4 | 10.3 | 7.2 | 4.8 | .5 | .1 | 3662 | 2.4 |
| 69/70 | .2 | .1 | .1 | .2 | .3 | 3.7 | 11.2 | 20.2 | 19.1 | 10.3 | 2.8 | .3 | 8936 | 5.8 |
| 67/68 | .9 | .3 | .2 | .5 | 2.1 | 7.2 | 18.1 | 24.0 | 29.6 | 20.5 | 9.0 | 2.3 | 14811 | 9.7 |
| 65/66 | .9 | 1.2 | 1.0 | 2.3 | 6.7 | 14.7 | 21.7 | 18.9 | 21.5 | 28.9 | 17.1 | 5.8 | 18105 | 11.8 |
| 63/64 | 4.6 | 3.0 | 4.1 | 8.5 | 17.9 | 26.4 | 20.1 | 12.7 | 12.3 | 22.3 | 27.7 | 16.7 | 22221 | 14.5 |
| 61/62 | 14.1 | 12.9 | 14.9 | 20.9 | 24.3 | 22.2 | 12.1 | 5.1 | 4.1 | 7.8 | 21.7 | 25.1 | 23154 | 15.1 |
| 59/60 | 29.0 | 31.7 | 30.6 | 31.4 | 24.5 | 14.6 | 6.9 | 1.9 | 1.7 | 3.0 | 14.7 | 27.8 | 27449 | 18.0 |
| 57/58 | 27.4 | 29.6 | 29.0 | 23.0 | 15.2 | 5.5 | 2.4 | .6 | .7 | 1.0 | 4.8 | 15.3 | 19706 | 12.9 |
| 55/56 | 16.4 | 15.6 | 13.5 | 7.7 | 5.8 | 2.5 | .8 | .2 | .1 | .1 | 1.0 | 4.7 | 8838 | 5.8 |
| 53/54 | 4.5 | 4.0 | 4.4 | 3.0 | 2.1 | 1.1 | .3 | .1 | .1 | .1 | .3 | 1.4 | 2749 | 1.8 |
| 51/52 | 1.6 | 1.1 | 1.4 | 1.9 | .5 | .3 | .3 | * | * | * | .1 | .3 | 975 | .6 |
| 49/50 | .7 | .5 | .5 | .4 | .1 | .1 | .1 | * | * | * | .1 | .1 | 342 | .2 |
| 47/48 | .1 | * | .1 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | * | 48 | * |
| 45/46 | * | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | * | 28 | * |
| 43/44 | * | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | * |
| 41/42 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 |
| 39/40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 37/38 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 35/36 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 33/34 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 31/32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 29/30 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 27/28 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| <27 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| TOTAL | 13931 | 11898 | 13818 | 13029 | 13495 | 12657 | 11462 | 13336 | 13163 | 14312 | 12347 | 9430 | 152878 | 100.0 |
| MEAN | 58.5 | 58.5 | 58.6 | 59.5 | 60.8 | 62.8 | 65.2 | 67.4 | 67.1 | 65.8 | 63.1 | 60.7 | 62.3 | |

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

| MO | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 1018 | 1019 | 1019 | 1019 | 1018 | 1019 | 1020 | 1019 | 1019 | 14676 |
| FEB | 1017 | 1018 | 1018 | 1018 | 1018 | 1018 | 1019 | 1018 | 1018 | 12315 |
| MAR | 1016 | 1017 | 1017 | 1017 | 1017 | 1017 | 1018 | 1017 | 1017 | 14472 |
| APR | 1015 | 1015 | 1016 | 1015 | 1015 | 1016 | 1017 | 1016 | 1016 | 14087 |
| MAY | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1016 | 1015 | 1015 | 14408 |
| JUN | 1013 | 1013 | 1014 | 1013 | 1013 | 1014 | 1014 | 1014 | 1013 | 13740 |
| JUL | 1013 | 1013 | 1014 | 1013 | 1013 | 1014 | 1014 | 1014 | 1014 | 12308 |
| AUG | 1013 | 1012 | 1013 | 1013 | 1013 | 1014 | 1014 | 1014 | 1013 | 14681 |
| SEP | 1011 | 1012 | 1012 | 1012 | 1012 | 1013 | 1013 | 1013 | 1012 | 14032 |
| OCT | 1014 | 1014 | 1015 | 1014 | 1014 | 1015 | 1015 | 1015 | 1014 | 15938 |
| NOV | 1016 | 1017 | 1017 | 1017 | 1017 | 1018 | 1018 | 1017 | 1017 | 13119 |
| DEC | 1017 | 1017 | 1018 | 1017 | 1017 | 1018 | 1019 | 1018 | 1018 | 9956 |
| ANN | 1015 | 1015 | 1016 | 1015 | 1015 | 1016 | 1016 | 1016 | 1015 | 163332 |
| OBS | 29444 | 14521 | 20512 | 9811 | 21293 | 19808 | 25607 | 22336 | | |

PERCENTILES

| MO | MIN | 1% | 5% | 25% | 50% | 75% | 95% | 99% | MAX |
|---|---|---|---|---|---|---|---|---|---|
| JAN | 997 | 1007 | 1012 | 1016 | 1019 | 1022 | 1025 | 1028 | 1032 |
| FEB | 997 | 1007 | 1011 | 1016 | 1018 | 1021 | 1024 | 1026 | 1032 |
| MAR | 1000 | 1007 | 1011 | 1015 | 1017 | 1019 | 1023 | 1025 | 1032 |
| APR | 999 | 1008 | 1010 | 1014 | 1016 | 1018 | 1021 | 1023 | 1030 |
| MAY | 1001 | 1008 | 1011 | 1013 | 1015 | 1017 | 1019 | 1021 | 1028 |
| JUN | 999 | 1006 | 1009 | 1012 | 1013 | 1015 | 1018 | 1020 | 1027 |
| JUL | 999 | 1006 | 1010 | 1012 | 1014 | 1015 | 1017 | 1019 | 1027 |
| AUG | 999 | 1006 | 1009 | 1012 | 1013 | 1015 | 1017 | 1019 | 1027 |
| SEP | 999 | 1005 | 1008 | 1010 | 1012 | 1014 | 1017 | 1018 | 1028 |
| OCT | 1000 | 1006 | 1009 | 1013 | 1015 | 1016 | 1019 | 1021 | 1028 |
| NOV | 999 | 1008 | 1011 | 1015 | 1017 | 1019 | 1022 | 1024 | 1031 |
| DEC | 999 | 1005 | 1010 | 1016 | 1018 | 1020 | 1024 | 1026 | 1031 |

JANUARY

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .5 | .9 | .0 | .0 | .0 | .0 | 1.9 | .5 | .0 | 2.5 | .0 | 1.0 | | .0 | 94.1 |
| NE | .6 | .8 | .8 | .0 | .0 | .0 | .0 | 2.3 | 1.7 | .0 | 2.2 | .0 | 2.5 | | .0 | 91.3 |
| E | 4.9 | 1.7 | .3 | .0 | .0 | .0 | .0 | 7.0 | 1.0 | .0 | 3.8 | .0 | 1.4 | | .0 | 86.8 |
| SE | 5.1 | 2.1 | 2.3 | .0 | .0 | .0 | .0 | 9.5 | 3.7 | .0 | 8.1 | .3 | 1.8 | | .0 | 76.6 |
| S | 6.8 | 2.2 | 7.1 | .0 | .0 | .0 | .0 | 15.8 | 3.8 | .2 | 7.5 | 1.3 | .5 | | .0 | 71.2 |
| SW | 3.4 | 1.6 | 4.9 | .0 | .0 | .0 | .0 | 9.4 | 3.3 | .2 | 9.1 | .4 | .9 | | .0 | 76.7 |
| W | 1.7 | 1.6 | 2.0 | .0 | .0 | .0 | .0 | 4.8 | 2.4 | .0 | 7.4 | .5 | 1.6 | | .2 | 83.2 |
| NW | .4 | .5 | .6 | .0 | .0 | .0 | .0 | 1.5 | .9 | .0 | 4.4 | .2 | 1.8 | | .0 | 91.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | 1.8 | .0 | .0 | .0 | .0 | 1.8 | 1.8 | .0 | 7.9 | .0 | 5.3 | | .0 | 83.3 |
| TOT PCT | 1.7 | .9 | 1.8 | .0 | .0 | .0 | .0 | 4.3 | 1.5 | * | 4.8 | .3 | 1.5 | | * | 87.5 |
| TOT OBS: | 5272 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.4 | 1.1 | .9 | .0 | .0 | .0 | .0 | 3.4 | 1.5 | .1 | 4.7 | .4 | 1.2 | | .1 | 88.8 |
| 06&09 | 1.5 | .6 | 1.5 | .0 | .0 | .0 | .0 | 3.6 | 1.8 | .0 | 4.2 | .1 | 1.6 | | .0 | 88.7 |
| 12&15 | 2.4 | 1.5 | 3.9 | .0 | .0 | .0 | .0 | 7.4 | 1.2 | .1 | 5.5 | .2 | 1.5 | | .0 | 84.2 |
| 18&21 | 1.3 | .5 | 1.0 | .0 | .0 | .0 | .0 | 2.8 | 1.7 | .0 | 4.8 | .3 | 1.6 | | .0 | 88.8 |
| TOT PCT | 1.7 | .9 | 1.8 | .0 | .0 | .0 | .0 | 4.3 | 1.5 | * | 4.9 | .3 | 1.5 | | * | 87.5 |
| TOT OBS: | 5314 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 8.7 | 15.0 | 4.9 | .2 | .0 | | 29.7 | 14.6 | 32.4 | 28.1 | 29.1 | 29.6 | 28.4 | 28.0 | 29.5 | 31.1 |
| NE | .5 | 2.9 | 2.6 | .6 | * | .0 | | 6.7 | 11.5 | 5.1 | 8.3 | 7.0 | 5.6 | 6.3 | 8.9 | 7.2 | 6.4 |
| E | .4 | 1.6 | .6 | * | * | .0 | | 2.7 | 8.5 | 2.6 | 1.6 | 3.3 | 2.6 | 2.6 | 3.1 | 2.7 | 2.7 |
| SE | .4 | 1.5 | 1.0 | .2 | * | .0 | | 3.1 | 10.3 | 2.9 | 3.4 | 3.2 | 3.9 | 2.2 | 3.6 | 4.1 | 2.4 |
| S | .3 | 3.0 | 4.0 | .9 | .1 | .0 | | 8.3 | 13.0 | 7.4 | 9.1 | 7.8 | 8.5 | 8.6 | 8.6 | 8.9 | 8.2 |
| SW | .4 | 3.7 | 4.1 | .5 | * | .0 | | 8.7 | 11.6 | 8.6 | 9.9 | 7.7 | 11.0 | 7.9 | 8.1 | 8.9 | 9.3 |
| W | .7 | 5.6 | 3.8 | .7 | * | .0 | | 10.8 | 10.9 | 10.3 | 10.0 | 13.1 | 10.2 | 13.0 | 9.5 | 10.3 | 8.7 |
| NW | 1.0 | 8.9 | 13.6 | 3.9 | .3 | .0 | | 27.6 | 14.0 | 28.2 | 27.6 | 26.5 | 26.2 | 28.0 | 29.5 | 25.6 | 29.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | | 2.3 | .0 | 2.4 | 1.9 | 2.4 | 2.4 | 3.0 | .9 | 2.8 | 1.6 |
| TOT OBS | 389 | 1969 | 2464 | 642 | 38 | 0 | 5502 | | 12.8 | 988 | 421 | 708 | 370 | 868 | 576 | 935 | 636 |
| TOT PCT | 7.1 | 35.8 | 44.8 | 11.7 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.9 | 14.8 | 9.7 | 1.4 | * | | 29.7 | 14.6 | 31.2 | 29.2 | 28.2 | 30.2 |
| NE | 1.5 | 3.9 | 1.2 | .2 | .0 | | 6.7 | 11.5 | 6.1 | 6.5 | 7.3 | 6.9 |
| E | 1.2 | 1.3 | .1 | * | .0 | | 2.7 | 8.5 | 2.3 | 3.0 | 2.8 | 2.7 |
| SE | 1.2 | 1.5 | .4 | .1 | .0 | | 3.1 | 10.3 | 3.0 | 3.5 | 2.7 | 3.4 |
| S | 1.5 | 4.5 | 2.1 | .2 | .0 | | 8.3 | 13.0 | 7.9 | 8.0 | 8.6 | 8.6 |
| SW | 2.0 | 5.2 | 1.4 | .1 | .0 | | 8.7 | 11.6 | 9.0 | 8.8 | 8.0 | 9.1 |
| W | 2.5 | 6.6 | 1.5 | .2 | .0 | | 10.8 | 10.9 | 10.3 | 12.1 | 11.6 | 9.6 |
| NW | 4.0 | 15.0 | 7.4 | 1.2 | * | | 27.6 | 14.0 | 28.0 | 26.4 | 28.6 | 27.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | 2.3 | .0 | 2.3 | 2.4 | 2.1 | 2.3 |
| TOT OBS | 1101 | 2901 | 1311 | 187 | 2 | 5502 | | 12.8 | 1409 | 1078 | 1444 | 1571 |
| TOT PCT | 20.0 | 52.7 | 23.8 | 3.4 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.3 | 3.5 | 32.4 | 48.2 | 12.6 | .9 | .0 | 13.4 | 100.0 | 1409 |
| 06&09 | 2.4 | 5.8 | 35.3 | 45.4 | 10.5 | .7 | .0 | 12.7 | 100.0 | 1078 |
| 12&15 | 2.1 | 5.5 | 38.7 | 41.6 | 11.6 | .6 | .0 | 12.5 | 100.0 | 1444 |
| 18&21 | 2.3 | 4.6 | 36.5 | 44.3 | 11.7 | .6 | .0 | 12.7 | 100.0 | 1571 |
| TOT | 125 | 264 | 1969 | 2464 | 642 | 38 | 0 | 12.8 | | 5502 |
| PCT | 2.3 | 4.8 | 35.8 | 44.8 | 11.7 | .7 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 11.6 | 4.5 | 10.0 | 4.7 | | 4.0 |
| NE | 3.2 | .6 | 1.7 | 1.5 | | 3.8 |
| E | 1.3 | .3 | 1.1 | .5 | | 4.0 |
| SE | .6 | .3 | .9 | 1.2 | | 5.6 |
| S | 1.0 | .8 | 3.1 | 5.2 | | 6.5 |
| SW | 1.4 | .9 | 2.4 | 4.2 | | 6.0 |
| W | 3.4 | 1.4 | 3.1 | 2.9 | | 4.6 |
| NW | 8.1 | 4.2 | 6.9 | 4.4 | | 4.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.2 | .2 | .8 | .5 | | 3.6 |
| TOT OBS | 1073 | 444 | 1006 | 847 | 3370 | 4.5 |
| TOT PCT | 31.8 | 13.2 | 29.9 | 25.1 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | .0 | .5 | 1.5 | 4.6 | 5.2 | .3 | .1 | * | .1 | 18.4 | |
| NE | * | .0 | * | .3 | .9 | 1.2 | * | * | * | .0 | 4.4 | |
| E | * | .0 | * | .1 | .4 | .5 | * | * | * | * | 2.0 | |
| SE | .1 | .0 | .1 | .3 | .6 | .4 | * | * | * | * | 1.4 | |
| S | .4 | .1 | .4 | 1.3 | 2.3 | 1.6 | .3 | * | .1 | .3 | 3.4 | |
| SW | .4 | .2 | .3 | .7 | 1.9 | 1.5 | .2 | .1 | * | .2 | 3.4 | |
| W | .3 | .0 | .2 | .7 | 2.0 | 1.1 | .1 | .1 | .1 | .1 | 6.2 | |
| NW | .3 | .1 | .2 | 1.5 | 3.2 | 3.2 | .3 | * | * | .2 | 14.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .1 | .3 | .3 | .0 | .0 | * | * | 1.9 | |
| TOT OBS | 56 | 14 | 61 | 215 | 544 | 503 | 48 | 14 | 12 | 34 | 1869 | 3370 |
| TOT PCT | 1.7 | .4 | 1.8 | 6.4 | 16.1 | 14.9 | 1.4 | .4 | .4 | 1.0 | 55.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >5000 | 1.4 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >3500 | 2.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| * OR >2000 | 14.0 | 17.9 | 18.0 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| * OR >1000 | 25.5 | 33.6 | 34.1 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 |
| * OR >600 | 29.2 | 39.4 | 40.3 | 40.5 | 40.6 | 40.6 | 40.6 | 40.6 |
| * OR >300 | 30.1 | 40.9 | 42.0 | 42.3 | 42.4 | 42.4 | 42.4 | 42.4 |
| * OR >150 | 30.2 | 41.1 | 42.3 | 42.6 | 42.7 | 42.8 | 42.8 | 42.8 |
| * OR > 0 | 30.3 | 41.4 | 42.9 | 43.3 | 43.5 | 44.0 | 44.3 | 44.4 |
| TOTAL | 1025 | 1399 | 1448 | 1461 | 1471 | 1485 | 1497 | 1501 |

TOTAL NUMBER OF OBS: 3378

PCT FREQ NH <5/8: 55.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 22.3 | 7.7 | 12.4 | 6.7 | 6.4 | 7.2 | 8.9 | 10.0 | 17.2 | 1.3 | 3595 |

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PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | .0 | * | .1 | .0 | * | .0 | .0 | .2 | |
| <1/2 | NO PCP | * | * | * | .1 | .1 | .2 | .2 | * | .0 | * | .9 | |
| | TOT % | .1 | * | * | .1 | .2 | .3 | .2 | .1 | .0 | * | 1.0 | |
| | PCP | * | * | * | * | .1 | .1 | * | * | .0 | .0 | .3 | |
| 1/2<1 | NO PCP | .3 | .1 | .1 | * | .1 | .3 | .1 | .3 | .0 | * | 1.3 | |
| | TOT % | .3 | .1 | .1 | * | .2 | .4 | .2 | .3 | .0 | * | 1.6 | |
| | PCP | * | * | .0 | * | .1 | .1 | * | * | .0 | * | .2 | |
| 1<2 | NO PCP | .1 | * | .0 | * | * | .1 | .1 | .2 | .0 | .0 | .5 | |
| | TOT % | .1 | * | .0 | * | .1 | .2 | .1 | .2 | .0 | * | .7 | |
| | PCP | .1 | * | * | * | .3 | .2 | .1 | .1 | .0 | * | .8 | |
| 2<5 | NO PCP | .2 | .1 | * | * | .2 | .2 | .3 | .5 | .0 | .1 | 1.7 | |
| | TOT % | .4 | .1 | .1 | .1 | .5 | .4 | .4 | .6 | .0 | .1 | 2.5 | |
| | PCP | .3 | .1 | .1 | .2 | .7 | .4 | .3 | .3 | .0 | .0 | 2.4 | |
| 5<10 | NO PCP | 5.1 | 1.2 | .8 | .6 | 1.9 | 1.9 | 1.8 | 5.2 | .0 | .3 | 18.8 | |
| | TOT % | 5.4 | 1.4 | .9 | .9 | 2.6 | 2.3 | 2.0 | 5.5 | .0 | .3 | 21.2 | |
| | PCP | * | .0 | * | * | .1 | * | .1 | .1 | .0 | .0 | .5 | |
| 10+ | NO PCP | 23.7 | 5.2 | 1.7 | 2.0 | 4.6 | 5.2 | 7.7 | 20.9 | .0 | 1.7 | 72.6 | |
| | TOT % | 23.7 | 5.2 | 1.7 | 2.0 | 4.8 | 5.2 | 7.8 | 21.0 | .0 | 1.7 | 73.0 | |
| | TOT OBS | | | | | | | | | | | | 5208 |
| | TOT PCT | 30.0 | 6.8 | 2.7 | 3.1 | 8.3 | 8.7 | 10.7 | 27.5 | .0 | 2.2 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | * | .0 | * | * | .0 | .0 | * | .1 | |
| <1/2 | 4-10 | * | * | * | .1 | .1 | .2 | .2 | * | .0 | | .7 | |
| | 11-21 | * | * | .0 | * | * | * | * | * | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | | * | |
| | TOT % | .1 | * | * | .1 | .2 | .3 | .3 | .1 | .0 | * | 1.1 | |
| | 0-3 | * | .1 | .0 | .0 | .0 | * | * | * | .0 | .1 | .2 | |
| 1/2<1 | 4-10 | .1 | * | .1 | * | .1 | .1 | .1 | .2 | .0 | | .8 | |
| | 11-21 | .1 | .0 | * | * | .1 | .2 | * | .1 | .0 | | .6 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | | * | |
| | TOT % | .3 | .1 | .1 | * | .2 | .4 | .2 | .3 | .0 | .1 | 1.6 | |
| | 0-3 | .0 | * | .0 | .0 | * | .0 | .0 | * | .0 | * | .1 | |
| 1<2 | 4-10 | * | * | .0 | * | * | .1 | .1 | .1 | .0 | | .4 | |
| | 11-21 | * | * | .0 | .0 | .1 | .1 | * | .1 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .1 | * | .0 | * | .1 | .2 | .2 | .2 | .0 | * | .9 | |
| | 0-3 | .1 | * | .0 | * | * | * | * | .0 | .0 | .1 | .2 | |
| 2<5 | 4-10 | .2 | * | .1 | * | .2 | .2 | .2 | .3 | .0 | | 1.2 | |
| | 11-21 | .1 | * | .0 | * | .2 | .2 | .2 | .3 | .0 | | 1.0 | |
| | 22+ | .1 | .0 | .0 | * | .1 | .1 | .0 | * | .0 | | .3 | |
| | TOT % | .4 | .1 | .1 | .1 | .6 | .5 | .4 | .7 | .0 | .1 | 2.8 | |
| | 0-3 | .3 | .2 | .2 | .1 | .1 | .1 | .1 | .2 | .0 | .3 | 1.5 | |
| 5<10 | 4-10 | 1.5 | .5 | .4 | .3 | .7 | .8 | 1.1 | 1.7 | .0 | | 7.0 | |
| | 11-21 | 2.6 | .6 | .2 | .4 | 1.5 | 1.2 | .7 | 2.4 | .0 | | 9.5 | |
| | 22+ | 1.0 | .1 | * | .1 | .3 | .1 | .1 | 1.1 | .0 | | 2.9 | |
| | TOT % | 5.4 | 1.4 | .9 | .9 | 2.6 | 2.2 | 2.0 | 5.4 | .0 | .3 | 20.9 | |
| | 0-3 | .6 | .3 | .2 | .3 | .2 | .2 | .5 | .7 | .0 | 1.7 | 4.7 | |
| 10+ | 4-10 | 6.7 | 2.3 | 1.1 | 1.0 | 1.9 | 2.2 | 3.9 | 6.5 | .0 | | 25.6 | |
| | 11-21 | 12.2 | 2.0 | .4 | .6 | 2.1 | 2.5 | 2.8 | 10.7 | .0 | | 33.3 | |
| | 22+ | 4.0 | .5 | * | .1 | .5 | .2 | .6 | 3.1 | .0 | | 9.1 | |
| | TOT % | 23.5 | 5.1 | 1.7 | 2.0 | 4.7 | 5.2 | 7.8 | 21.1 | .0 | 1.7 | 72.8 | |
| | TOT OBS | | | | | | | | | | | | 5377 |
| | TOT PCT | 29.8 | 6.7 | 2.7 | 3.1 | 8.3 | 8.7 | 10.7 | 27.6 | .0 | 2.3 | 100.0 | |

JANUARY

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.2 | .5 | 1.5 | 6.4 | 17.3 | 13.6 | 1.4 | .2 | .2 | 1.1 | 43.5 | 56.5 | 913 |
| 06&09 | 1.0 | .1 | .9 | 4.8 | 12.6 | 13.1 | 1.0 | .5 | .4 | 1.0 | 35.4 | 64.6 | 808 |
| 12&15 | 2.2 | .2 | 2.3 | 6.0 | 16.0 | 14.9 | 1.2 | .5 | .1 | .4 | 43.7 | 56.9 | 835 |
| 18&21 | 2.0 | .6 | 2.2 | 7.2 | 16.2 | 15.9 | 1.8 | .4 | .6 | 1.4 | 48.4 | 51.6 | 940 |
| TOT | 56 | 14 | 61 | 215 | 546 | 503 | 48 | 14 | 12 | 34 | 1503 | 1993 | 3496 |
| PCT | 1.6 | .4 | 1.7 | 6.1 | 15.6 | 14.4 | 1.4 | .4 | .3 | 1.0 | 43.0 | 57.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 1.1 | .9 | 2.6 | 20.5 | 73.8 | 1392 |
| 06&09 | .6 | 1.3 | .8 | 2.6 | 22.4 | 72.3 | 1076 |
| 12&15 | 1.1 | 2.7 | .9 | 3.6 | 24.9 | 66.8 | 1439 |
| 18&21 | 1.4 | 1.4 | .7 | 2.3 | 16.2 | 78.0 | 1512 |
| TOT | 58 | 89 | 46 | 151 | 1130 | 3945 | 5419 |
| PCT | 1.1 | 1.6 | .8 | 2.8 | 20.9 | 72.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 3.5 | 11.4 | 34.9 | 53.7 | 879 |
| 06&09 | .9 | 2.0 | 8.3 | 28.7 | 63.0 | 787 |
| 12&15 | 2.2 | 5.6 | 13.5 | 33.0 | 53.5 | 806 |
| 18&21 | 2.2 | 5.3 | 13.6 | 37.1 | 49.3 | 906 |
| TOT | 56 | 140 | 397 | 1135 | 1846 | 3378 |
| PCT | 1.7 | 4.1 | 11.8 | 33.6 | 54.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | * | * | * | .0 | .0 | .0 | 3 | .1 |
| 70/74 | .0 | .0 | .0 | .1 | .1 | * | .0 | .0 | 7 | .2 |
| 65/69 | .0 | .0 | .1 | .2 | .5 | .6 | .5 | .4 | 88 | 2.2 |
| 60/64 | .0 | .0 | .1 | .6 | 2.4 | 5.5 | 7.3 | 4.7 | 810 | 20.6 |
| 55/59 | .0 | * | .6 | 1.6 | 5.9 | 15.6 | 23.2 | 10.7 | 2263 | 57.7 |
| 50/54 | .0 | * | .4 | 1.0 | 3.6 | 4.3 | 6.8 | 2.5 | 728 | 18.5 |
| 45/49 | .0 | .0 | * | .1 | .1 | .2 | .1 | .1 | 23 | .6 |
| 40/44 | .0 | .0 | .0 | .0 | * | * | * | .0 | 3 | .1 |
| TOTAL | 0 | 2 | 47 | 140 | 495 | 1027 | 1488 | 726 | 3925 | 100.0 |
| PCT | .0 | .1 | 1.2 | 3.6 | 12.6 | 26.2 | 37.9 | 18.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * |
| .1 | .0 | * | .0 | .0 | .0 | * | * | .0 | .0 |
| .6 | .2 | .1 | * | .2 | .3 | .3 | .4 | .0 | .2 |
| 4.1 | 1.3 | .6 | 1.1 | 3.6 | 2.8 | 2.5 | 4.1 | .0 | .6 |
| 18.7 | 4.0 | 1.5 | 1.4 | 3.5 | 3.6 | 5.9 | 18.1 | .0 | 1.1 |
| 6.1 | 1.1 | .3 | .3 | .4 | 1.0 | 1.8 | 7.1 | .0 | .4 |
| .3 | .1 | * | * | .0 | .0 | * | .2 | .0 | .0 |
| .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | .0 | .0 |
| 29.9 | 6.6 | 2.5 | 2.9 | 7.7 | 7.6 | 10.6 | 30.0 | .0 | 2.2 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 70 | 67 | 64 | 58 | 53 | 50 | 42 | 58.1 | 1411 |
| 06&09 | 68 | 64 | 62 | 57 | 52 | 50 | 45 | 56.6 | 1081 |
| 12&15 | 69 | 63 | 61 | 56 | 51 | 49 | 43 | 56.3 | 1452 |
| 18&21 | 76 | 67 | 64 | 58 | 53 | 49 | 41 | 58.0 | 1577 |
| TOT | 76 | 66 | 63 | 57 | 52 | 49 | 41 | 57.3 | 5521 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 5.4 | 13.8 | 29.0 | 36.2 | 15.5 | 79 | 1030 |
| 06&09 | .0 | 4.0 | 12.4 | 24.6 | 38.7 | 20.3 | 81 | 749 |
| 12&15 | .0 | 3.9 | 9.3 | 21.3 | 41.4 | 24.1 | 82 | 1022 |
| 18&21 | .0 | 5.5 | 14.4 | 28.9 | 36.1 | 15.2 | 79 | 1148 |
| TOT | 0 | 189 | 495 | 1033 | 1500 | 732 | 80 | 3949 |

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1963-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 3 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | * | 14 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .0 | * | .2 | .3 | .1 | .0 | 29 | .1 | .5 |
| 7/8 | .0 | .0 | .0 | * | .2 | .4 | .6 | .1 | .0 | 65 | .0 | 1.3 |
| 6 | .0 | .0 | .0 | * | .2 | .4 | .2 | .0 | .0 | 40 | * | .8 |
| 5 | .0 | .0 | .0 | .1 | .4 | .7 | .3 | * | .0 | 73 | .1 | 1.3 |
| 4 | .0 | .0 | .1 | .1 | .9 | 1.7 | .2 | .0 | .0 | 149 | .2 | 2.7 |
| 3 | .0 | .0 | .0 | .1 | 1.9 | 1.8 | .2 | .0 | .0 | 201 | .1 | 3.9 |
| 2 | .0 | .0 | .1 | .9 | 4.0 | 2.3 | .2 | .0 | .0 | 376 | .5 | 6.9 |
| 1 | .0 | .0 | * | 1.5 | 5.6 | 2.4 | .1 | .0 | .0 | 482 | .6 | 9.0 |
| 0 | .0 | * | .3 | 4.6 | 7.6 | 1.7 | * | .0 | .0 | 718 | .8 | 13.4 |
| -1 | .0 | .0 | .2 | 4.3 | 7.0 | 1.2 | .0 | .0 | .0 | 637 | .7 | 11.9 |
| -2 | .0 | * | .5 | 5.8 | 6.1 | .5 | .0 | .0 | .0 | 653 | .7 | 12.2 |
| -3 | .0 | .0 | .7 | 5.3 | 4.4 | .3 | .0 | .0 | .0 | 539 | .4 | 10.3 |
| -4 | .0 | .0 | .9 | 4.7 | 2.3 | .1 | .0 | .0 | .0 | 402 | .4 | 7.6 |
| -5 | * | .0 | .7 | 3.3 | 1.3 | .0 | .0 | .0 | .0 | 272 | .1 | 5.3 |
| -6 | .0 | * | .7 | 1.7 | .5 | .0 | .0 | .0 | .0 | 150 | .1 | 2.9 |
| -7/-8 | .0 | .1 | .9 | 1.7 | .4 | .0 | .0 | .0 | .0 | 156 | * | 3.1 |
| -9/-10 | .0 | .1 | .4 | .5 | .1 | .0 | .0 | .0 | .0 | 56 | .1 | 1.1 |
| -11/-13 | * | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | 21 | .0 | .4 |
| -14/-16 | * | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| TOTAL | 4 | 22 | 283 | 1758 | 2156 | 689 | 112 | 12 | 3 | 5039 | 252 | 4787 |
| PCT | .1 | .4 | 5.6 | 34.9 | 42.8 | 13.7 | 2.2 | .2 | .1 | 100.0 | 5.0 | 95.0 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.4 | .2 | .0 | .0 | .0 | 2.0 |
| 1-2 | .2 | 3.6 | 3.4 | .0 | .0 | .0 | 7.2 |
| 3-4 | .0 | 2.3 | 5.2 | .9 | .0 | .0 | 8.5 |
| 5-6 | .0 | .9 | 3.4 | 1.1 | .0 | .0 | 5.4 |
| 7 | .0 | .4 | 2.1 | .7 | .0 | .0 | 3.1 |
| 8-9 | .0 | .1 | .8 | .9 | .1 | .0 | 1.8 |
| 10-11 | .0 | .0 | .2 | .9 | .1 | .0 | 1.2 |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .1 | .0 | .2 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 8.7 | 15.3 | 5.1 | .2 | .0 | 29.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 1.2 | 1.2 | .0 | .0 | .0 | 2.5 |
| 3-4 | .0 | .8 | 1.3 | .1 | .0 | .0 | 2.2 |
| 5-6 | .0 | .1 | .7 | .0 | .0 | .0 | .8 |
| 7 | .0 | .2 | .3 | * | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .1 | .6 | .0 | .0 | .6 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.9 | 3.6 | .7 | .0 | .0 | 7.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .1 | .0 | .0 | .0 | .2 |
| 1-2 | .2 | .7 | .0 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.0 | .5 | .0 | .0 | .0 | 1.7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .7 | .3 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .1 | .8 | * | .0 | .0 | .9 |
| 5-6 | .0 | * | .1 | .2 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .2 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.0 | 1.3 | .2 | .2 | .0 | 2.9 |

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 | .1 | .6 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 1.5 | 1.0 | .0 | .0 | .0 | 2.5 | .1 | 2.2 | 1.4 | .0 | .0 | .0 | 3.7 |
| 3-4 | .0 | .7 | 1.6 | .8 | .0 | .0 | 3.1 | .0 | .6 | 1.6 | .2 | .0 | .0 | 2.3 |
| 5-6 | .0 | .2 | .8 | .8 | .0 | .0 | 1.7 | .0 | .0 | .7 | .1 | .0 | .0 | .8 |
| 7 | .0 | .1 | .1 | .3 | .0 | .0 | .5 | .0 | .0 | .3 | .2 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .2 | .2 | .0 | .0 | .4 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | * | .2 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 2.8 | 3.8 | 2.2 | .0 | .0 | 8.8 | .2 | 3.4 | 4.2 | .9 | .0 | .0 | 8.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .4 | 1.2 | .0 | .0 | .0 | .0 | 1.6 | .1 | 1.0 | .1 | .0 | .0 | .0 | 1.2 | |
| 1-2 | .2 | 2.4 | 1.1 | .0 | .0 | .0 | 3.7 | .3 | 3.2 | 3.4 | .0 | .0 | .0 | 6.9 | |
| 3-4 | .0 | 1.5 | .9 | .3 | .0 | .0 | 2.7 | .2 | 2.8 | 4.9 | 1.0 | .0 | .0 | 8.9 | |
| 5-6 | .0 | .1 | 1.0 | .2 | .0 | .0 | 1.3 | .0 | .8 | 3.0 | 1.1 | .0 | .0 | 4.9 | |
| 7 | .0 | .2 | .6 | .2 | .0 | .0 | .9 | .0 | .1 | 1.4 | .6 | .1 | .0 | 2.2 | |
| 8-9 | .0 | .1 | .4 | .3 | .0 | .0 | .8 | .0 | .1 | .9 | .7 | .0 | .0 | 1.7 | |
| 10-11 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .0 | .0 | .3 | .3 | .1 | .0 | .8 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | * | .0 | .1 | .1 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 5.4 | 4.3 | 1.3 | .0 | .0 | 11.6 | .6 | 8.0 | 14.1 | 4.0 | .3 | .0 | 27.0 | 97.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.6 | 5.2 | .5 | .0 | .0 | .0 | 9.4 | |
| 1-2 | 1.0 | 15.4 | 11.9 | .0 | .0 | .0 | 28.3 | |
| 3-4 | .2 | 9.0 | 16.4 | 3.4 | .0 | .0 | 29.0 | |
| 5-6 | .0 | 2.0 | 9.7 | 3.5 | .0 | .0 | 15.3 | |
| 7 | .0 | 1.1 | 4.9 | 2.0 | .1 | .0 | 8.0 | |
| 8-9 | .0 | .3 | 2.7 | 2.7 | .1 | .0 | 5.7 | |
| 10-11 | .0 | .0 | .8 | 1.6 | .4 | .0 | 2.7 | |
| 12 | .0 | .0 | .1 | .4 | .0 | .0 | .5 | |
| 13-16 | .0 | .1 | .0 | .5 | .1 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1131 |
| TOT PCT | 4.8 | 33.1 | 47.0 | 14.5 | .6 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.5 | 9.7 | 11.2 | 5.4 | 2.0 | 1.2 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 899 | 3 |
| 6-7 | * | 2.0 | 9.3 | 7.5 | 5.7 | 2.3 | 1.4 | .6 | .4 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 838 | 5 |
| 8-9 | * | .6 | 3.8 | 4.1 | 4.8 | 2.3 | 1.7 | 1.1 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 535 | 6 |
| 10-11 | .0 | .5 | 1.2 | 1.3 | 2.8 | 1.5 | 1.2 | .7 | .4 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 276 | 7 |
| 12-13 | .0 | .0 | 1.1 | .7 | .5 | .4 | .4 | .2 | .5 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 106 | 7 |
| >13 | .0 | .0 | .0 | .2 | .6 | .2 | .3 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 44 | 9 |
| INDET | 1.8 | .9 | 1.4 | .5 | .5 | .2 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 155 | 3 |
| TOTAL | 95 | 390 | 799 | 561 | 480 | 230 | 157 | 77 | 50 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2853 | 5 |
| PCT | 3.3 | 13.7 | 28.0 | 19.7 | 16.8 | 8.1 | 5.5 | 2.7 | 1.8 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .5 | .8 | .0 | .0 | .0 | .0 | 1.9 | .4 | .0 | 3.3 | .2 | 1.0 | | .0 | 93.2 |
| NE | 5.2 | .0 | 1.5 | .0 | .0 | .0 | .0 | 6.3 | .5 | .0 | 3.2 | .0 | .9 | | .0 | 89.2 |
| E | 1.3 | .8 | 4.7 | .0 | .0 | .0 | .0 | 6.9 | .8 | .0 | 5.5 | .0 | 2.6 | | .0 | 84.2 |
| SE | 3.9 | .2 | 3.4 | .0 | .0 | .0 | .0 | 7.4 | 3.0 | .2 | 5.7 | .2 | 1.4 | | .7 | 81.4 |
| S | 5.1 | 1.3 | 4.9 | .0 | .0 | .0 | .0 | 11.3 | 2.8 | .2 | 7.8 | .6 | 2.3 | | .0 | 74.9 |
| SW | 4.8 | 1.9 | 1.6 | .0 | .0 | .0 | .0 | 8.1 | 2.5 | .6 | 9.7 | .3 | 1.6 | | .0 | 77.1 |
| W | 1.4 | 2.4 | 3.5 | .0 | .0 | .0 | .0 | 7.0 | 2.3 | .0 | 9.7 | .7 | .9 | | .0 | 79.3 |
| NW | .6 | .5 | 2.1 | .0 | .0 | .0 | .0 | 3.1 | 1.3 | .1 | 5.8 | .3 | 1.4 | | .1 | 88.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | 1.4 | 1.4 | .0 | .0 | .0 | .0 | 2.9 | .0 | .0 | 18.6 | 1.4 | 4.3 | | .0 | 72.9 |
| TOT PCT | 1.7 | .9 | 2.1 | .0 | .0 | .0 | .0 | 4.6 | 1.3 | .1 | 6.1 | .3 | 1.4 | | * | 86.2 |
| TOT OBS: | 4228 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.9 | .9 | 1.4 | .0 | .0 | .0 | .0 | 4.1 | 1.5 | .1 | 6.0 | .3 | 1.8 | | .0 | 86.2 |
| 06&09 | 1.8 | 1.0 | 2.3 | .0 | .0 | .0 | .0 | 4.8 | 1.3 | .2 | 7.0 | .5 | 1.2 | | .0 | 85.0 |
| 12&15 | 2.0 | 1.0 | 2.5 | .0 | .0 | .0 | .0 | 5.5 | 1.7 | .2 | 6.2 | .5 | .7 | | .0 | 85.2 |
| 18&21 | 1.0 | .7 | 2.3 | .0 | .0 | .0 | .0 | 4.0 | 1.1 | .0 | 5.3 | .1 | 1.8 | | .2 | 87.5 |
| TOT PCT | 1.7 | .9 | 2.1 | .0 | .0 | .0 | .0 | 4.6 | 1.4 | .1 | 6.1 | .3 | 1.4 | | * | 86.0 |
| TOT OBS: | 4256 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 6.1 | 19.9 | 5.8 | .6 | .0 | | 29.1 | 16.3 | 29.3 | 23.6 | 29.7 | 31.7 | 29.0 | 29.1 | 30.4 | 28.5 |
| NE | .2 | 2.2 | 1.9 | .3 | .0 | .0 | | 4.6 | 11.5 | 4.1 | 3.4 | 4.0 | 4.4 | 5.0 | 5.9 | 5.8 | 3.8 |
| E | .3 | 1.5 | .5 | * | .0 | .0 | | 2.3 | 7.8 | 1.8 | 1.1 | 2.5 | 1.5 | 2.1 | 2.5 | 3.3 | 2.5 |
| SE | .3 | 1.8 | 1.0 | .1 | * | .0 | | 3.3 | 10.0 | 2.8 | 2.7 | 2.4 | 3.6 | 3.5 | 3.3 | 4.8 | 2.8 |
| S | .4 | 2.6 | 3.6 | .6 | * | .0 | | 7.2 | 12.3 | 7.6 | 7.3 | 7.0 | 6.4 | 6.2 | 8.4 | 7.3 | 8.1 |
| SW | .4 | 3.5 | 3.5 | .5 | * | .0 | | 7.8 | 11.9 | 7.8 | 7.8 | 6.7 | 8.0 | 7.3 | 9.4 | 6.9 | 10.8 |
| W | .8 | 5.3 | 4.6 | 1.0 | .1 | .0 | | 11.9 | 11.8 | 13.0 | 14.3 | 11.2 | 13.9 | 11.5 | 12.6 | 10.5 | 10.0 |
| NW | .8 | 8.9 | 15.8 | 5.7 | .7 | .0 | | 31.9 | 15.4 | 31.5 | 38.9 | 34.1 | 28.6 | 32.8 | 28.2 | 28.7 | 32.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.9 | | | | | | | 1.9 | .0 | 2.1 | 1.0 | 2.5 | 1.9 | 2.6 | .6 | 2.3 | .9 |
| TOT OBS | 263 | 1414 | 2073 | 617 | 63 | 0 | 4430 | | 13.9 | 870 | 312 | 689 | 257 | 759 | 356 | 747 | 440 |
| TOT PCT | 5.9 | 31.9 | 46.8 | 13.9 | 1.4 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.4 | 13.2 | 11.4 | 2.1 | .1 | | 29.1 | 16.3 | 27.8 | 30.3 | 29.0 | 29.7 |
| NE | 1.0 | 2.7 | .9 | .1 | .0 | | 4.6 | 11.5 | 3.9 | 4.1 | 5.3 | 5.1 |
| E | 1.0 | 1.3 | .1 | .0 | .0 | | 2.3 | 7.8 | 1.6 | 2.2 | 2.2 | 3.0 |
| SE | 1.1 | 1.8 | .4 | .1 | .0 | | 3.3 | 10.0 | 2.7 | 2.7 | 3.4 | 4.0 |
| S | 1.7 | 3.7 | 1.7 | .1 | .0 | | 7.2 | 12.3 | 7.5 | 6.8 | 6.9 | 7.6 |
| SW | 1.8 | 4.3 | 1.6 | .1 | * | | 7.8 | 11.9 | 7.8 | 7.0 | 8.0 | 8.3 |
| W | 2.8 | 6.5 | 2.0 | .4 | * | | 11.9 | 11.8 | 13.4 | 11.9 | 11.8 | 10.3 |
| NW | 3.3 | 15.7 | 10.4 | 2.3 | .1 | | 31.9 | 15.4 | 33.4 | 32.6 | 31.3 | 30.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.9 | | | | | | 1.9 | .0 | 1.8 | 2.3 | 2.0 | 1.8 |
| TOT OBS | 757 | 2176 | 1260 | 230 | 7 | 4430 | | 13.9 | 1182 | 946 | 1115 | 1187 |
| TOT PCT | 17.1 | 49.1 | 28.4 | 5.2 | .2 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

FEBRUARY

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 3.7 | 31.6 | 46.5 | 14.6 | 1.9 | .0 | 14.2 | 100.0 | 1182 |
| 06&09 | 2.3 | 3.9 | 32.5 | 46.1 | 13.4 | 1.8 | .0 | 13.8 | 100.0 | 946 |
| 12&15 | 2.0 | 4.6 | 31.5 | 47.5 | 13.4 | 1.1 | .0 | 13.8 | 100.0 | 1115 |
| 18&21 | 1.8 | 3.8 | 32.3 | 46.9 | 14.2 | 1.0 | .0 | 13.9 | 100.0 | 1187 |
| TOT | 86 | 177 | 1414 | 2073 | 617 | 63 | 0 | 13.9 | | 4430 |
| PCT | 1.9 | 4.0 | 31.9 | 46.8 | 13.9 | 1.4 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.9 | 5.1 | 10.0 | 5.8 | | 4.2 |
| NE | 1.8 | .7 | 1.2 | 1.2 | | 4.2 |
| E | .7 | .3 | .6 | .7 | | 4.8 |
| SE | .5 | .3 | 1.1 | 1.5 | | 6.1 |
| S | 1.1 | .7 | 1.8 | 3.2 | | 6.0 |
| SW | 1.1 | .5 | 2.1 | 3.1 | | 6.0 |
| W | 2.4 | 1.9 | 3.6 | 4.1 | | 5.2 |
| NW | 9.9 | 4.8 | 8.9 | 6.8 | | 4.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .5 | .3 | .6 | .5 | | 4.8 |
| TOT OBS | 909 | 454 | 937 | 847 | 3147 | 4.7 |
| TOT PCT | 28.9 | 14.4 | 29.8 | 26.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| | 000 149 | 150 [illegible] | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .4 | .1 | .4 | 1.4 | 5.8 | 3.9 | 1.2 | * | .1 | * | 18.4 | |
| NE | .1 | .0 | * | .2 | .6 | .6 | .1 | .0 | .1 | * | 3.1 | |
| E | * | .0 | .1 | .2 | .2 | .2 | * | .0 | * | .2 | 1.3 | |
| SE | .2 | * | .1 | .2 | .6 | .5 | .1 | * | .1 | * | 1.6 | |
| S | .4 | .1 | .3 | .6 | 1.1 | 1.3 | .1 | .1 | .1 | * | 2.6 | |
| SW | .6 | .1 | .1 | .4 | 1.1 | 1.5 | * | .1 | * | * | 2.7 | |
| W | .8 | .2 | .3 | .9 | 2.0 | 1.7 | .1 | .1 | .1 | .2 | 5.4 | |
| NW | .9 | .4 | .5 | 1.8 | 4.8 | 3.3 | .7 | .2 | .1 | .1 | 17.5 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .0 | .0 | .3 | .1 | .1 | .0 | * | * | 1.1 | |
| TOT OBS | 111 | 26 | 58 | 180 | 522 | 417 | 80 | 18 | 21 | 22 | 1692 | 3147 |
| TOT PCT | 3.5 | .8 | 1.8 | 5.7 | 16.6 | 13.3 | 2.5 | .6 | .7 | .7 | 53.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >5000 | 1.5 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 3.8 | 4.4 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| * OR >2000 | 14.8 | 17.3 | 17.6 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| * OR >1000 | 26.6 | 33.0 | 34.0 | 34.2 | 34.3 | 34.3 | 34.3 | 34.3 |
| * OR >600 | 30.3 | 38.2 | 39.6 | 39.8 | 40.0 | 40.0 | 40.0 | 40.0 |
| * OR >300 | 31.0 | 39.7 | 41.3 | 41.6 | 41.8 | 41.8 | 41.8 | 41.8 |
| * OR >150 | 31.2 | 40.3 | 41.9 | 42.4 | 42.6 | 42.6 | 42.6 | 42.7 |
| * OR > 0 | 31.4 | 40.6 | 42.7 | 43.5 | 44.4 | 44.9 | 45.9 | 46.2 |
| TOTAL | 987 | 1279 | 1343 | 1369 | 1396 | 1414 | 1445 | 1455 |

TOTAL NUMBER OF OBS: 3147

PCT FREQ NH <5/8: 53.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 18.8 | 7.5 | 12.3 | 8.6 | 6.4 | 6.9 | 9.4 | 7.6 | 19.4 | 3.0 | 3245 |

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS, SW
32.0N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .1 | * | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| <1/2 | NO PCP | .1 | .1 | * | .1 | .2 | .4 | .4 | .4 | .0 | .1 | 1.8 | |
| | TOT % | .2 | .1 | * | .1 | .2 | .4 | .4 | .5 | .0 | .1 | 2.0 | |
| | PCP | .1 | * | .0 | * | * | .0 | * | .1 | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .3 | * | * | * | * | .1 | .2 | .3 | .0 | * | 1.0 | |
| | TOT % | .4 | * | * | .1 | .1 | .1 | .2 | .4 | .0 | * | 1.2 | |
| | PCP | .0 | .0 | .0 | * | .2 | .1 | * | .0 | .0 | .0 | .4 | |
| 1<2 | NO PCP | * | .0 | * | * | .1 | .1 | .2 | .3 | .0 | .1 | .9 | |
| | TOT % | * | .0 | * | .1 | .3 | .2 | .2 | .3 | .0 | .1 | 1.3 | |
| | PCP | * | .1 | .1 | * | .2 | .2 | .1 | .2 | .0 | .0 | .8 | |
| 2<5 | NO PCP | .6 | * | * | * | .4 | .2 | .3 | .8 | .0 | * | 2.5 | |
| | TOT % | .6 | .1 | .1 | .1 | .6 | .4 | .3 | 1.0 | .0 | * | 3.3 | |
| | PCP | .3 | .1 | .1 | .1 | .3 | .2 | .3 | .4 | .0 | * | 1.9 | |
| 5<10 | NO PCP | 4.3 | .5 | .5 | .8 | 1.3 | 1.5 | 2.3 | 5.3 | .0 | .2 | 16.7 | |
| | TOT % | 4.6 | .6 | .5 | .9 | 1.6 | 1.8 | 2.6 | 5.7 | .0 | .3 | 18.6 | |
| | PCP | .1 | * | * | * | .1 | .1 | .4 | .3 | .0 | * | 1.1 | |
| 10+ | NO PCP | 23.4 | 3.7 | 1.5 | 2.1 | 4.4 | 4.9 | 7.7 | 23.7 | .0 | 1.1 | 72.5 | |
| | TOT % | 23.5 | 3.7 | 1.5 | 2.1 | 4.6 | 5.1 | 8.1 | 24.0 | .0 | 1.1 | 73.6 | |
| | TOT OBS | | | | | | | | | | | | 4220 |
| | TOT PCT | 29.3 | 4.6 | 2.2 | 3.3 | 7.3 | 7.9 | 11.9 | 31.8 | .0 | 1.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | * | .0 | .1 | * | .1 | * | .0 | .1 | .3 | |
| <1/2 | 4-10 | .1 | .1 | .0 | .1 | * | .2 | .3 | .2 | .0 | | 1.0 | |
| | 11-21 | .1 | * | .0 | .0 | .1 | .2 | .1 | .2 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | * | * | .0 | * | .0 | | .1 | |
| | TOT % | .2 | .1 | * | .1 | .2 | .4 | .4 | .5 | .0 | .1 | 2.1 | |
| | 0-3 | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .1 | |
| 1/2<1 | 4-10 | .1 | * | * | * | * | * | .1 | .2 | .0 | | .4 | |
| | 11-21 | .2 | .0 | .0 | * | * | * | .1 | .2 | .0 | | .6 | |
| | 22+ | .1 | * | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | TOT % | .4 | * | * | .1 | .1 | .1 | .2 | .4 | .0 | * | 1.2 | |
| | 0-3 | .0 | .0 | .0 | .0 | * | .0 | * | * | .0 | .1 | .2 | |
| 1<2 | 4-10 | * | .0 | * | * | .1 | .1 | .1 | .1 | .0 | | .4 | |
| | 11-21 | * | .0 | .0 | * | .2 | .2 | .1 | .2 | .0 | | .7 | |
| | 22+ | * | .0 | .0 | .0 | * | * | .0 | * | .0 | | .1 | |
| | TOT % | * | .0 | * | .1 | .3 | .2 | .2 | .4 | .0 | .1 | 1.5 | |
| | 0-3 | * | .0 | .0 | .0 | * | * | * | * | .0 | .1 | .2 | |
| 2<5 | 4-10 | .2 | .1 | .1 | * | .3 | .1 | .1 | .3 | .0 | | 1.2 | |
| | 11-21 | .2 | .1 | * | * | .2 | .2 | .1 | .6 | .0 | | 1.5 | |
| | 22+ | .2 | * | .0 | .0 | .1 | .1 | .1 | .2 | .0 | | .7 | |
| | TOT % | .7 | .2 | .1 | .1 | .6 | .4 | .4 | 1.2 | .0 | .1 | 3.7 | |
| | 0-3 | .1 | .0 | * | .1 | * | .1 | .2 | .2 | .0 | .3 | .9 | |
| 5<10 | 4-10 | .8 | .3 | .4 | .5 | .5 | .8 | 1.0 | 1.1 | .0 | | 5.4 | |
| | 11-21 | 2.2 | .2 | * | .3 | .9 | .7 | 1.1 | 3.3 | .0 | | 8.8 | |
| | 22+ | 1.5 | .1 | * | * | .2 | .2 | .2 | 1.1 | .0 | | 3.3 | |
| | TOT % | 4.5 | .6 | .5 | .9 | 1.6 | 1.7 | 2.6 | 5.7 | .0 | .3 | 18.4 | |
| | 0-3 | .6 | .2 | .3 | .3 | .2 | .3 | .4 | .6 | .0 | 1.2 | 4.1 | |
| 10+ | 4-10 | 4.7 | 1.7 | .9 | 1.1 | 1.8 | 2.3 | 3.6 | 7.0 | .0 | | 23.2 | |
| | 11-21 | 13.3 | 1.6 | .3 | .6 | 2.2 | 2.2 | 3.1 | 11.3 | .0 | | 34.7 | |
| | 22+ | 4.7 | .2 | * | .1 | .3 | .2 | .8 | 4.7 | .0 | | 11.1 | |
| | TOT % | 23.4 | 3.7 | 1.6 | 2.1 | 4.5 | 5.0 | 8.0 | 23.6 | .0 | 1.2 | 73.1 | |
| | TOT OBS | | | | | | | | | | | | 4330 |
| | TOT PCT | 29.3 | 4.6 | 2.3 | 3.2 | 7.3 | 7.8 | 11.8 | 31.8 | .0 | 1.8 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA RUSA IS. SW
32.6N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.3 | .8 | 2.5 | 6.4 | 18.8 | 12.1 | 1.7 | .8 | .6 | 1.0 | 48.1 | 51.9 | 876 |
| 06&09 | 3.7 | .9 | 2.1 | 4.5 | 12.0 | 10.4 | 2.3 | .1 | .8 | .5 | 37.6 | 62.4 | 748 |
| 12&15 | 4.5 | .9 | 1.1 | 3.9 | 15.5 | 14.2 | 3.2 | .5 | .5 | .7 | 44.9 | 55.1 | 761 |
| 18&21 | 2.7 | .6 | 1.7 | 7.3 | 18.5 | 15.4 | 2.9 | .7 | .7 | .5 | 51.1 | 48.9 | 818 |
| TOT | 113 | 26 | 60 | 180 | 524 | 418 | 80 | 18 | 21 | 22 | 1462 | 1741 | 3203 |
| PCT | 3.5 | .8 | 1.9 | 5.6 | 16.4 | 13.1 | 2.5 | .6 | .7 | .7 | 45.6 | 54.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.6 | 1.5 | 1.7 | 3.8 | 17.1 | 73.3 | 1170 |
| 06&09 | 1.9 | 2.0 | 1.4 | 3.5 | 17.9 | 73.3 | 940 |
| 12&15 | 2.3 | .7 | 1.5 | 4.3 | 21.6 | 69.5 | 1109 |
| 18&21 | 1.5 | .8 | 1.2 | 3.3 | 17.2 | 75.9 | 1139 |
| TOT | 91 | 53 | 64 | 163 | 804 | 3183 | 4358 |
| PCT | 2.1 | 1.2 | 1.5 | 3.7 | 18.4 | 73.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <500YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.5 | 7.2 | 15.6 | 33.8 | 50.6 | 861 |
| 06&09 | 3.8 | 7.2 | 13.9 | 26.2 | 59.9 | 733 |
| 12&15 | 4.4 | 6.8 | 13.0 | 33.6 | 53.5 | 748 |
| 18&21 | 2.7 | 5.6 | 15.2 | 37.8 | 47.1 | 805 |
| TOT | 113 | 211 | 455 | 1038 | 1654 | 3147 |
| PCT | 3.6 | 6.7 | 14.5 | 33.0 | 52.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | * | .0 | .1 | .0 | .1 | .0 | * | 7 | .2 |
| 65/69 | .0 | .0 | .1 | .1 | .6 | .5 | .4 | .1 | 57 | 1.8 |
| 60/64 | .0 | .0 | .2 | .8 | 2.8 | 4.9 | 5.9 | 4.6 | 623 | 19.2 |
| 55/59 | .0 | .0 | .2 | 1.2 | 6.6 | 15.3 | 21.3 | 11.9 | 1829 | 56.5 |
| 50/54 | .0 | .0 | .1 | .5 | 4.1 | 5.0 | 8.8 | 3.6 | 713 | 22.0 |
| 45/49 | .0 | .0 | .0 | * | .1 | .1 | .1 | .1 | 10 | .3 |
| TOTAL | 0 | 1 | 17 | 87 | 460 | 835 | 1180 | 659 | 3239 | 100.0 |
| PCT | .0 | * | .5 | 2.7 | 14.2 | 25.8 | 36.4 | 20.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .1 | * | .0 | .0 | * | .0 | .0 | * | .0 | * |
| .3 | .1 | .1 | .1 | .2 | .1 | .3 | .5 | .0 | .1 |
| 3.8 | .8 | .4 | .8 | 2.8 | 8.0 | 2.9 | 4.1 | .0 | .5 |
| 15.9 | 2.9 | 1.4 | 2.0 | 3.6 | 3.7 | 6.9 | 19.3 | .0 | .8 |
| 8.1 | .7 | .5 | .4 | .4 | .4 | 1.9 | 9.6 | .0 | .1 |
| .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | * |
| 28.3 | 4.6 | 2.4 | 3.3 | 6.9 | 7.1 | 12.0 | 33.7 | .0 | 1.5 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 70 | 67 | 64 | 58 | 52 | 50 | 45 | 58.0 | 1175 |
| 06&09 | 67 | 63 | 61 | 56 | 51 | 50 | 45 | 56.2 | 948 |
| 12&15 | 67 | 63 | 61 | 56 | 51 | 50 | 43 | 56.1 | 1119 |
| 18&21 | 74 | 68 | 63 | 58 | 52 | 50 | 48 | 57.9 | 1195 |
| TOT | 74 | 66 | 63 | 57 | 52 | 50 | 43 | 57.1 | 4437 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 4.4 | 17.3 | 27.4 | 34.4 | 16.3 | 79 | 900 |
| 06&09 | .0 | 1.1 | 11.4 | 25.4 | 38.9 | 23.2 | 82 | 710 |
| 12&15 | .0 | 2.6 | 10.0 | 23.8 | 38.7 | 24.9 | 83 | 814 |
| 18&21 | .0 | 4.4 | 17.2 | 26.3 | 34.4 | 17.8 | 79 | 838 |
| TOT | 0 | 106 | 402 | 841 | 1189 | 664 | 81 | 3262 |

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS, SW
32.0N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | 4 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | * | .0 | * | .1 | .1 | * | 14 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .0 | * | .1 | .2 | * | .0 | 15 | .0 | .4 |
| 7/8 | .0 | .0 | .0 | * | .1 | .7 | .4 | * | .0 | 51 | .1 | 1.1 |
| 6 | .0 | .0 | .0 | * | .1 | .5 | .2 | .0 | .0 | 35 | * | .8 |
| 5 | .0 | * | .0 | .1 | .8 | 1.0 | .3 | * | .0 | 89 | .1 | 2.1 |
| 4 | .0 | .0 | .0 | .2 | 1.5 | 2.0 | .2 | .0 | .0 | 153 | .2 | 3.5 |
| 3 | .0 | .0 | * | .4 | 1.7 | 1.6 | * | * | .0 | 155 | .3 | 3.5 |
| 2 | .0 | .0 | * | 1.0 | 3.9 | 2.4 | * | .0 | .0 | 299 | .5 | 6.9 |
| 1 | .0 | .0 | * | 1.7 | 5.4 | 2.2 | * | .0 | .0 | 375 | .7 | 8.6 |
| 0 | * | .1 | .1 | 3.9 | 8.8 | 1.4 | .0 | .0 | .0 | 580 | 1.0 | 13.3 |
| -1 | .0 | .0 | .4 | 5.2 | 6.2 | .5 | .0 | .0 | .0 | 496 | 1.0 | 11.2 |
| -2 | .0 | * | .7 | 6.9 | 4.6 | .3 | .0 | .0 | .0 | 510 | .6 | 12.0 |
| -3 | .0 | .0 | .8 | 5.3 | 3.0 | .1 | * | .0 | .0 | 373 | .4 | 8.8 |
| -4 | .0 | * | 1.7 | 4.9 | 2.2 | .1 | .0 | .0 | .0 | 366 | .5 | 8.5 |
| -5 | .0 | * | 1.1 | 3.2 | .8 | .1 | * | .0 | .0 | 216 | .2 | 5.1 |
| -6 | .0 | .1 | 1.3 | 1.8 | .3 | .0 | .0 | .0 | .0 | 142 | .1 | 3.4 |
| -7/-8 | .0 | * | 1.0 | 1.6 | .2 | * | .0 | .0 | .0 | 120 | .1 | 2.9 |
| -9/-10 | .0 | * | .3 | .3 | * | * | .0 | .0 | .0 | 28 | * | .6 |
| -11/-13 | .0 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | 12 | * | .2 |
| -14/-16 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | 7 | .0 | .2 |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | 14 | 311 | 1492 | 1615 | 530 | 65 | 10 | 4 | 4042 | 252 | 3790 |
| PCT | * | .3 | 7.7 | 36.9 | 40.0 | 13.1 | 1.6 | .2 | .1 | 100.0 | 6.2 | 93.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.1 | .1 | .0 | .0 | .0 | 1.3 |
| 1-2 | .1 | 2.6 | 2.5 | .0 | .0 | .0 | 5.2 |
| 3-4 | .3 | 1.5 | 4.5 | 1.2 | .0 | .0 | 7.4 |
| 5-6 | .0 | .4 | 3.6 | .8 | .2 | .0 | 5.0 |
| 7 | .0 | .3 | 2.1 | 1.0 | .0 | .0 | 3.3 |
| 8-9 | .0 | .1 | .9 | .3 | .1 | .0 | 1.4 |
| 10-11 | .0 | .0 | .3 | 1.0 | .1 | .0 | 1.4 |
| 12 | .0 | .0 | .3 | .7 | .3 | .0 | 1.3 |
| 13-16 | .0 | .0 | .1 | .5 | .3 | .0 | .8 |
| 17-19 | .0 | .0 | .0 | .2 | .2 | .0 | .4 |
| 20-22 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 5.9 | 14.4 | 5.7 | 1.2 | .0 | 27.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .7 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 1.1 | .4 | .0 | .0 | .0 | 1.7 |
| 3-4 | .0 | .6 | .9 | .1 | .0 | .0 | 1.5 |
| 5-6 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.4 | 2.3 | .4 | .0 | .0 | 5.2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | 1.4 | .4 | .0 | .0 | .0 | 1.8 |
| 3-4 | .1 | .3 | .3 | .0 | .0 | .0 | .6 |
| 5-6 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .1 | .1 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.2 | .7 | .1 | .0 | .0 | 3.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | 1.7 | .7 | .0 | .0 | .0 | 2.5 |
| 3-4 | .0 | .8 | .7 | .0 | .0 | .0 | 1.5 |
| 5-6 | * | .2 | .3 | .1 | .0 | .0 | .5 |
| 7 | .0 | .2 | .1 | * | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 3.1 | 1.8 | .1 | .0 | .0 | 5.2 |

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .3 | .7 | .0 | .0 | .0 | .0 | 1.0 | .1 | 1.2 | .1 | .0 | .0 | .0 | 1.4 |
| 1-2 | .0 | 1.6 | 1.0 | .0 | .0 | .0 | 2.6 | .2 | .9 | .4 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .4 | 1.1 | .0 | .0 | .0 | 1.5 | .0 | .3 | 1.3 | .2 | .0 | .0 | 1.8 |
| 5-6 | .1 | .1 | .7 | .1 | .0 | .0 | .9 | .1 | .4 | .6 | .2 | .0 | .0 | 1.2 |
| 7 | .0 | .1 | .1 | .2 | .0 | .0 | .4 | .0 | * | .0 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.8 | 3.0 | .4 | .0 | .0 | 6.6 | .4 | 2.8 | 2.4 | .6 | .0 | .0 | 6.1 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .9 | .4 | .9 | .0 | .0 | .0 | .0 | 1.3 | |
| 1-2 | .1 | 2.0 | 1.5 | .0 | .0 | .0 | 3.6 | .2 | 5.2 | 3.0 | .0 | .0 | .0 | 8.3 | |
| 3-4 | .2 | 1.6 | 1.8 | .1 | .0 | .0 | 3.7 | .1 | 2.6 | 5.3 | 1.4 | .0 | .0 | 9.4 | |
| 5-6 | .0 | .3 | 1.1 | .1 | .1 | .0 | 1.5 | .0 | .5 | 3.5 | 1.3 | .1 | .0 | 5.5 | |
| 7 | .1 | .1 | .7 | .1 | .0 | .0 | 1.0 | .0 | .1 | 2.0 | 1.7 | .2 | .0 | 4.0 | |
| 8-9 | .0 | .1 | .2 | .3 | .0 | .0 | .5 | .0 | .2 | .3 | .5 | .1 | .0 | 1.0 | |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .1 | .7 | .1 | .0 | .9 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .8 | .1 | .0 | 1.1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .2 | .3 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 4.6 | 5.2 | .8 | .1 | .0 | 11.4 | .7 | 9.4 | 14.4 | 6.7 | 1.0 | .0 | 32.2 | 97.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.5 | 5.8 | .2 | .0 | .0 | .0 | 9.5 | |
| 1-2 | .8 | 16.5 | 9.9 | .0 | .0 | .0 | 27.2 | |
| 3-4 | .8 | 8.0 | 15.8 | 2.9 | .0 | .0 | 27.6 | |
| 5-6 | .3 | 1.8 | 10.3 | 2.5 | .4 | .0 | 15.2 | |
| 7 | .1 | .8 | 5.3 | 3.3 | .2 | .0 | 9.7 | |
| 8-9 | .0 | .3 | 1.5 | 1.3 | .3 | .0 | 3.4 | |
| 10-11 | .0 | .0 | .5 | 2.0 | .2 | .0 | 2.7 | |
| 12 | .0 | .0 | .5 | 1.5 | .4 | .0 | 2.4 | |
| 13-16 | .0 | .0 | .3 | .7 | .6 | .0 | 1.5 | |
| 17-19 | .0 | .0 | .0 | .3 | .3 | .0 | .5 | |
| 20-22 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1197 |
| TOT PCT | 5.5 | 33.3 | 44.2 | 14.7 | 2.3 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.5 | 8.2 | 12.0 | 4.9 | 3.0 | 2.0 | .4 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 890 | 4 |
| 6-7 | * | 1.2 | 6.9 | 6.8 | 5.5 | 3.7 | 2.3 | .6 | .6 | .4 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 774 | 6 |
| 8-9 | .0 | .8 | 2.4 | 3.5 | 3.9 | 3.7 | 1.5 | 1.0 | .9 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 496 | 7 |
| 10-11 | .0 | .6 | 2.1 | 1.9 | 1.9 | 1.5 | .8 | .9 | .4 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 291 | 7 |
| 12-13 | .0 | .0 | 1.1 | .9 | | .6 | .5 | .1 | .3 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 120 | 7 |
| >13 | .0 | .0 | .0 | .2 | .1 | .2 | .1 | .0 | .7 | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 36 | 12 |
| INDET | 2.3 | .6 | .8 | .8 | .5 | .2 | * | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 146 | 3 |
| TOTAL | 105 | 316 | 696 | 523 | 428 | 325 | 156 | 78 | 80 | 23 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2751 | 6 |
| PCT | 3.8 | 11.5 | 25.3 | 19.0 | 15.6 | 11.8 | 5.7 | 2.8 | 2.9 | .8 | .7 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .3 | .3 | .5 | .0 | .0 | .0 | .0 | 1.1 | .7 | .1 | 1.6 | .1 | 1.0 | .1 | | 95.4 |
| NE | .3 | .2 | 1.7 | .0 | .0 | .0 | .0 | 2.3 | .0 | .0 | 4.0 | .0 | .9 | .0 | | 92.9 |
| E | 2.1 | .0 | 3.3 | .0 | .0 | .0 | .0 | 5.4 | 4.8 | .0 | 4.8 | .0 | 3.6 | .0 | | 81.4 |
| SE | 8.3 | 1.2 | 1.8 | .0 | .0 | .0 | .0 | 11.2 | 1.2 | .0 | 11.8 | .0 | .0 | .0 | | 75.7 |
| S | 4.8 | .2 | 3.6 | .0 | .0 | .0 | .0 | 8.2 | 2.8 | .0 | 4.4 | .0 | .4 | .0 | | 84.1 |
| SW | 5.7 | .6 | 5.5 | .0 | .0 | .0 | .4 | 9.9 | 1.7 | .0 | 5.8 | .0 | 1.1 | .0 | | 81.5 |
| W | 1.3 | 1.1 | 1.8 | .0 | .0 | .0 | .0 | 3.5 | 2.4 | .0 | 2.6 | .0 | 1.2 | .0 | | 90.3 |
| NW | .5 | .5 | .6 | .0 | .0 | .0 | .0 | 1.5 | .8 | .1 | 2.4 | .1 | 2.6 | .0 | | 92.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8.9 | .0 | 2.0 | .0 | | 89.1 |
| TOT PCT | 1.1 | .5 | 1.2 | .0 | .0 | .0 | * | 2.6 | 1.2 | .1 | 2.8 | .1 | 1.7 | * | | 91.6 |
| TOT OBS: | 5116 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .8 | .6 | 1.4 | .0 | .0 | .0 | .1 | 2.5 | .9 | .1 | 2.6 | .0 | 2.3 | .0 | | 91.6 |
| 06&09 | 1.1 | .3 | 1.1 | .0 | .0 | .0 | .0 | 2.3 | 1.0 | .0 | 1.9 | .2 | .9 | .1 | | 93.5 |
| 12&15 | 1.5 | .7 | 1.6 | .0 | .0 | .0 | .0 | 3.5 | 1.5 | .1 | 3.5 | .0 | 1.5 | .0 | | 89.9 |
| 18&21 | 1.1 | .5 | .8 | .0 | .0 | .0 | .0 | 2.1 | 1.2 | .1 | 3.1 | .1 | 2.0 | .0 | | 91.5 |
| TOT PCT | 1.1 | .5 | 1.2 | .0 | .0 | .0 | * | 2.6 | 1.1 | .1 | 2.8 | .1 | 1.7 | * | | 91.6 |
| TOT OBS: | 5137 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 6.2 | 13.1 | 6.5 | .3 | .0 | | 26.9 | 16.6 | 28.9 | 19.9 | 28.9 | 25.2 | 25.3 | 26.0 | 31.0 | 22.9 |
| NE | .2 | 1.3 | .9 | .3 | * | .0 | | 2.8 | 11.9 | 2.6 | 3.0 | 2.2 | 1.8 | 2.6 | 2.8 | 3.7 | 3.6 |
| E | .3 | .9 | .3 | .1 | .0 | .0 | | 1.6 | 8.5 | 1.1 | 1.5 | 1.0 | .6 | 1.2 | 2.0 | 2.7 | 2.4 |
| SE | .2 | 1.2 | .4 | .1 | * | .0 | | 1.9 | 9.4 | 1.6 | 2.0 | 1.1 | 2.7 | 2.1 | 3.2 | 1.1 | 3.1 |
| S | .4 | 1.9 | 2.0 | .3 | * | .0 | | 4.6 | 11.6 | 5.2 | 4.6 | 4.2 | 5.2 | 4.1 | 4.6 | 3.8 | 5.5 |
| SW | .4 | 2.9 | 1.7 | .2 | * | .0 | | 5.3 | 10.0 | 5.1 | 6.3 | 4.7 | 5.1 | 4.7 | 5.4 | 4.3 | 8.6 |
| W | .8 | 4.8 | 5.1 | 1.5 | .1 | .0 | | 12.3 | 12.9 | 9.8 | 13.0 | 12.7 | 14.5 | 14.2 | 12.7 | 11.2 | 12.8 |
| NW | .7 | 9.4 | 22.0 | 9.8 | .7 | * | | 42.6 | 16.7 | 43.5 | 47.7 | 44.1 | 42.6 | 44.5 | 41.4 | 39.9 | 38.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.0 | | | | | | | 2.0 | .0 | 2.2 | 2.0 | 1.3 | 2.4 | 1.3 | 1.9 | 2.2 | 2.7 |
| TOT OBS | 305 | 1532 | 2437 | 1008 | 67 | 1 | 5350 | | 14.9 | 993 | 395 | 770 | 339 | 848 | 478 | 937 | 590 |
| TOT PCT | 5.7 | 28.6 | 45.6 | 18.8 | 1.3 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.5 | 10.5 | 11.9 | 2.0 | .0 | | 26.9 | 16.6 | 26.3 | 27.8 | 25.6 | 27.9 |
| NE | .9 | 1.2 | .7 | .1 | .0 | | 2.8 | 11.9 | 2.7 | 2.1 | 2.7 | 3.7 |
| E | .8 | .7 | .1 | * | .0 | | 1.6 | 8.5 | 1.2 | .9 | 1.5 | 2.6 |
| SE | .7 | 1.0 | .2 | .1 | .0 | | 1.9 | 9.4 | 1.7 | 1.6 | 2.5 | 1.9 |
| S | 1.2 | 2.4 | .8 | .1 | .0 | | 4.6 | 11.6 | 5.0 | 4.5 | 4.3 | 4.5 |
| SW | 1.8 | 2.9 | .7 | * | .0 | | 5.3 | 10.0 | 5.4 | 4.8 | 5.0 | 3.9 |
| W | 2.4 | 6.7 | 2.6 | .6 | .0 | | 12.3 | 12.9 | 10.7 | 13.2 | 13.6 | 11.8 |
| NW | 3.9 | 17.7 | 17.6 | 3.4 | * | | 42.6 | 16.7 | 44.7 | 43.6 | 43.4 | 39.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.0 | | | | | | 2.0 | .0 | 2.2 | 1.6 | 1.5 | 2.4 |
| TOT OBS | 864 | 2297 | 1847 | 341 | 1 | 5350 | | 14.9 | 1388 | 1109 | 1326 | 1527 |
| TOT PCT | 16.1 | 42.9 | 34.5 | 6.4 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MARCH

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.2 | 3.7 | 26.9 | 45.9 | 20.2 | 1.0 | .0 | 15.0 | 100.0 | 1388 |
| 06&09 | 1.6 | 3.6 | 27.9 | 43.6 | 21.2 | 2.1 | .0 | 15.5 | 100.0 | 1109 |
| 12&15 | 1.5 | 3.5 | 30.0 | 46.0 | 17.3 | 1.5 | .1 | 14.8 | 100.0 | 1326 |
| 18&21 | 2.4 | 4.0 | 29.5 | 46.2 | 17.2 | .7 | .0 | 14.3 | 100.0 | 1527 |
| TOT | 105 | 200 | 1532 | 2437 | 1008 | 67 | 1 | 14.9 | | 5350 |
| PCT | 2.0 | 3.7 | 28.6 | 45.6 | 18.8 | 1.3 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.5 | 4.6 | 10.9 | 5.9 | | 4.3 |
| NE | 1.1 | .4 | 1.0 | .5 | | 4.1 |
| E | .4 | .2 | .3 | .7 | | 5.3 |
| SE | .2 | .2 | .3 | .6 | | 5.8 |
| S | .9 | .4 | 1.2 | 1.5 | | 5.5 |
| SW | .9 | .6 | 1.5 | 1.4 | | 5.3 |
| W | 3.3 | 1.5 | 3.4 | 2.8 | | 4.7 |
| NW | 14.0 | 5.6 | 12.7 | 8.1 | | 4.2 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .9 | .1 | .5 | .8 | | 4.6 |
| TOT OBS | 1130 | 475 | 1120 | 784 | 3509 | 4.5 |
| TOT PCT | 32.2 | 13.5 | 31.9 | 22.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | * | .2 | 1.6 | 6.2 | 4.9 | .8 | .1 | .1 | .1 | 17.7 | |
| NE | * | .0 | * | .1 | .4 | .4 | .1 | * | * | * | 1.8 | |
| E | .1 | .0 | * | .2 | .2 | .2 | * | .0 | * | * | .8 | |
| SE | .1 | .0 | * | .1 | .3 | .1 | .1 | .0 | * | * | .7 | |
| S | .1 | .0 | .2 | .3 | .8 | .3 | .2 | * | * | .1 | 1.9 | |
| SW | .2 | .0 | .2 | .2 | .8 | .6 | .1 | * | * | * | 2.2 | |
| W | .1 | * | .2 | .7 | 1.7 | 1.3 | .3 | .1 | .1 | .2 | 6.2 | |
| NW | .2 | .1 | .2 | 2.4 | 6.7 | 5.6 | 1.1 | .3 | .3 | .1 | 23.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .0 | * | .3 | .5 | .2 | .0 | * | * | 1.3 | |
| TOT OBS | 31 | 6 | 33 | 199 | 609 | 491 | 104 | 22 | 24 | 24 | 1966 | 3509 |
| TOT PCT | .9 | .2 | .9 | 5.7 | 17.4 | 14.0 | 3.0 | .6 | .7 | .7 | 56.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >8500 | 1.2 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >5000 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| * OR >3500 | 4.2 | 4.9 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| * OR >2000 | 15.4 | 18.7 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 |
| * OR >1000 | 29.3 | 35.8 | 36.1 | 36.2 | 36.2 | 36.2 | 36.3 | 36.3 |
| * OR >600 | 33.1 | 41.2 | 41.7 | 41.8 | 41.9 | 41.9 | 41.9 | 41.9 |
| * OR >300 | 33.7 | 42.0 | 42.6 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 |
| * OR >150 | 33.8 | 42.2 | 42.8 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 |
| * OR > 0 | 33.9 | 42.4 | 43.1 | 43.4 | 43.5 | 43.6 | 43.9 | 43.9 |
| TOTAL | 1190 | 1492 | 1516 | 1525 | 1530 | 1533 | 1543 | 1544 |

TOTAL NUMBER OF OBS: 3515

PCT FREQ NH <5/8: 56.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 19.3 | 8.4 | 12.5 | 9.2 | 6.2 | 6.3 | 10.4 | 9.5 | 17.6 .7 | 3735 |

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | .0 | .1 | |
| | NO PCP | * | * | * | .1 | .1 | .1 | .1 | .1 | .0 | .1 | .6 | |
| | TOT % | * | * | * | .1 | .1 | .1 | .1 | .1 | .0 | .1 | .6 | |
| 1/2<1 | PCP | * | .0 | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | * | .1 | .1 | * | .1 | .2 | .0 | .0 | .6 | |
| | TOT % | .2 | * | * | .1 | .1 | * | .1 | .2 | .0 | .0 | .7 | |
| 1<2 | PCP | .0 | .0 | .0 | * | * | .0 | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | .0 | * | .0 | .1 | * | .2 | .0 | * | .4 | |
| | TOT % | .1 | * | .0 | * | * | .1 | * | .2 | .0 | * | .5 | |
| 2<5 | PCP | * | .0 | * | * | .1 | .1 | .1 | .1 | .0 | .0 | .4 | |
| | NO PCP | .2 | * | .1 | * | .1 | .1 | .2 | .7 | .0 | .1 | 1.5 | |
| | TOT % | .2 | * | .1 | .1 | .2 | .2 | .3 | .8 | .0 | .1 | 1.9 | |
| 5<10 | PCP | .2 | * | * | .1 | .1 | .2 | .2 | .3 | .0 | .0 | 1.2 | |
| | NO PCP | 4.9 | .5 | .3 | .2 | .6 | .9 | 2.2 | 7.5 | .0 | .2 | 17.1 | |
| | TOT % | 5.0 | .5 | .3 | .3 | .8 | 1.1 | 2.4 | 7.8 | .0 | .2 | 18.4 | |
| 10+ | PCP | .1 | * | * | * | .1 | .2 | .1 | .2 | .0 | .0 | .7 | |
| | NO PCP | 21.4 | 2.2 | 1.1 | 1.1 | 3.3 | 3.6 | 9.3 | 33.6 | .0 | 1.6 | 77.2 | |
| | TOT % | 21.5 | 2.2 | 1.2 | 1.1 | 3.3 | 3.8 | 9.4 | 33.7 | .0 | 1.6 | 77.9 | |
| | TOT OBS | | | | | | | | | | | | 5111 |
| | TOT PCT | 27.1 | 2.8 | 1.6 | 1.7 | 4.5 | 5.2 | 12.3 | 42.9 | .0 | 2.0 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | * | .0 | * | * | * | * | .0 | .0 | .1 | .2 | |
| | 4-10 | * | * | * | * | * | * | .1 | * | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | * | .1 | .1 | .1 | .2 | .2 | .0 | .1 | .7 | |
| 1/2<1 | 0-3 | * | .0 | * | .0 | .0 | * | * | * | .0 | .0 | .1 | |
| | 4-10 | * | * | * | .1 | * | .0 | * | * | .0 | | .3 | |
| | 11-21 | .1 | .0 | .0 | .0 | * | .0 | * | .1 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | * | * | * | * | .0 | | .1 | |
| | TOT % | .1 | * | * | .1 | .1 | * | .1 | .2 | .0 | .0 | .7 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | * | |
| | 4-10 | * | * | .0 | * | * | .1 | * | .1 | .0 | | .3 | |
| | 11-21 | * | * | .0 | .0 | * | * | .1 | .2 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | * | * | .0 | .0 | .2 | .0 | | .2 | |
| | TOT % | .1 | .1 | .0 | .1 | .1 | .1 | .1 | .4 | .0 | * | 1.0 | |
| 2<5 | 0-3 | .0 | * | .0 | * | * | .0 | * | * | .0 | .1 | .2 | |
| | 4-10 | .1 | * | .1 | .1 | * | .1 | .1 | .3 | .0 | | .8 | |
| | 11-21 | .1 | .0 | * | * | .1 | .1 | .1 | .4 | .0 | | .8 | |
| | 22+ | * | .0 | .0 | .0 | .1 | .0 | .1 | .2 | .0 | | .3 | |
| | TOT % | .3 | * | .1 | .1 | .2 | .2 | .3 | .9 | .0 | .1 | 2.2 | |
| 5<10 | 0-3 | .1 | * | .1 | * | * | * | .2 | .1 | .0 | .2 | .7 | |
| | 4-10 | 1.0 | .2 | .1 | .2 | .3 | .6 | .7 | 1.4 | .0 | | 4.5 | |
| | 11-21 | 2.6 | .2 | .1 | .1 | .4 | .2 | 1.2 | 4.3 | .0 | | 9.0 | |
| | 22+ | 1.2 | .1 | * | .1 | .1 | .2 | .3 | 2.0 | .0 | | 3.9 | |
| | TOT % | 4.9 | .5 | .3 | .3 | .7 | 1.0 | 2.4 | 7.7 | .0 | .2 | 18.1 | |
| 10+ | 0-3 | .6 | .2 | .2 | .1 | .2 | .3 | .5 | .6 | .0 | 1.6 | 4.4 | |
| | 4-10 | 4.8 | 1.0 | .7 | .8 | 1.5 | 2.0 | 3.9 | 7.5 | .0 | | 22.1 | |
| | 11-21 | 10.4 | .7 | .2 | .3 | 1.5 | 1.3 | 3.7 | 17.0 | .0 | | 35.1 | |
| | 22+ | 5.6 | .3 | .1 | * | .2 | .1 | 1.2 | 8.2 | .0 | | 15.6 | |
| | TOT % | 21.4 | 2.2 | 1.1 | 1.3 | 3.4 | 3.7 | 9.3 | 33.3 | .0 | 1.6 | 77.2 | |
| | TOT OBS | | | | | | | | | | | | 5258 |
| | TOT PCT | 26.9 | 2.8 | 1.6 | 1.8 | 4.6 | 5.3 | 12.3 | 42.7 | .0 | 2.0 | 100.0 | |

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | .1 | 1.1 | 5.6 | 19.4 | 14.4 | 2.8 | .8 | .4 | .8 | 46.8 | 53.2 | 949 |
| 06&09 | .5 | .0 | .2 | 4.0 | 15.0 | 11.8 | 2.7 | .6 | .6 | .4 | 35.8 | 64.2 | 841 |
| 12&15 | 1.3 | .2 | 1.1 | 5.0 | 14.6 | 12.9 | 2.8 | .1 | .8 | .6 | 39.4 | 60.6 | 852 |
| 18&21 | .5 | .3 | 1.2 | 7.0 | 18.2 | 14.9 | 3.2 | .8 | .8 | .8 | 47.7 | 52.3 | 983 |
| TOT | 32 | 6 | 33 | 199 | 613 | 492 | 105 | 22 | 24 | 24 | 1550 | 2075 | 3625 |
| PCT | .9 | .2 | .9 | 5.5 | 16.9 | 13.6 | 2.9 | .6 | .7 | .7 | 42.8 | 57.2 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .9 | .9 | 1.2 | 2.9 | 16.6 | 77.4 | 1379 |
| 06&09 | .3 | .8 | .4 | 2.1 | 18.5 | 77.9 | 1106 |
| 12&15 | .8 | .9 | 1.1 | 1.9 | 20.9 | 74.5 | 1319 |
| 18&21 | .9 | .3 | 1.0 | 2.0 | 16.7 | 79.0 | 1475 |
| TOT | 39 | 39 | 50 | 118 | 956 | 4077 | 5279 |
| PCT | .7 | .7 | .9 | 2.2 | 18.1 | 77.2 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 2.7 | 9.0 | 39.6 | 51.4 | 916 |
| 06&09 | .5 | .7 | 5.7 | 30.9 | 63.4 | 826 |
| 12&15 | 1.3 | 2.8 | 8.6 | 32.2 | 59.2 | 828 |
| 18&21 | .5 | 2.3 | 9.8 | 39.7 | 50 5 | 945 |
| TOT | 32 | 76 | 293 | 1260 | 1962 | 3515 |
| PCT | .9 | 2.2 | 8.3 | 35.8 | 55.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | * | .0 | * | .0 | .0 | .0 | 2 | .1 |
| 70/74 | .0 | * | .0 | .1 | .1 | .1 | .0 | .0 | 11 | .3 |
| 65/69 | .0 | .0 | .1 | .2 | .7 | .5 | .3 | * | 75 | 1.9 |
| 60/64 | .0 | .0 | .1 | 1.0 | 2.8 | 4.9 | 4.2 | 1.7 | 579 | 14.7 |
| 55/59 | .0 | * | .1 | 1.5 | 7.1 | 18.3 | 21.8 | 7.6 | 2223 | 56.4 |
| 50/54 | .0 | .0 | .1 | .5 | 5.0 | 6.6 | 10.2 | 3.6 | 1029 | 26.1 |
| 45/49 | .0 | .0 | .0 | * | .1 | .1 | .2 | .1 | 23 | .6 |
| TOTAL | 0 | 2 | 13 | 128 | 625 | 1212 | 1448 | 514 | 3942 | 100.0 |
| PCT | .0 | .1 | .3 | 3.2 | 15.9 | 30.7 | 36.7 | 13.0 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 |
| .1 | .0 | .0 | .0 | .0 | * | .0 | .1 | .0 | * |
| .5 | .1 | * | * | .1 | .1 | .2 | .7 | .0 | .1 |
| 3.6 | .7 | .3 | .2 | 1.1 | 1.3 | 1.8 | 5.0 | .0 | .6 |
| 15.6 | 1.5 | .9 | .9 | 2.5 | 2.8 | 6.6 | 25.0 | .0 | .7 |
| 6.7 | .5 | .3 | .2 | .3 | .5 | 3.2 | 14.3 | .0 | .2 |
| .2 | .0 | .0 | .0 | * | .0 | .1 | .3 | .0 | .0 |
| 26.7 | 2.8 | 1.5 | 1.3 | 4.0 | 4.7 | 11.9 | 45.4 | .0 | 1.6 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 76 | 68 | 64 | 57 | 53 | 51 | 47 | 57.7 | 1391 |
| 06&09 | 68 | 63 | 60 | 56 | 52 | 49 | 48 | 55.8 | 1111 |
| 12&15 | 78 | 63 | 60 | 55 | 51 | 49 | 45 | 55.5 | 1327 |
| 18&21 | 76 | 68 | 64 | 57 | 53 | 50 | 46 | 57.7 | 1529 |
| TOT | 78 | 66 | 63 | 56 | 52 | 50 | 45 | 56.8 | 5358 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.8 | 18.7 | 31.9 | 32.7 | 12.9 | 78 | 1045 |
| 06&09 | .0 | 2.7 | 13.7 | 28.2 | 41.9 | 13.6 | 80 | 824 |
| 12&15 | .0 | 1.9 | 11.2 | 29.6 | 40.4 | 16.8 | 81 | 962 |
| 18&21 | .0 | 5.7 | 18.7 | 32.2 | 33.7 | 9.7 | 77 | 1126 |
| TOT | 0 | 144 | 627 | 1213 | 1455 | 518 | 79 | 3957 |

PERIOD: (PRIMARY: 1945-1974
(OVER-ALL) 1871-1974

TABLE 17

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | 3 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | * | .0 | .1 | .2 | * | .0 | 16 | * | .3 |
| 9/10 | .0 | .0 | .0 | * | .2 | .2 | .1 | .0 | .0 | 30 | .0 | .6 |
| 7/8 | .0 | .0 | * | .2 | .7 | .6 | * | .0 | .0 | 72 | * | 1.5 |
| 6 | .0 | .0 | .1 | .2 | .7 | .3 | .0 | .0 | .0 | 63 | * | 1.3 |
| 5 | .0 | * | .1 | .6 | 1.0 | .2 | .0 | .0 | .0 | 89 | * | 1.8 |
| 4 | .0 | * | .3 | 1.6 | 1.6 | .1 | .0 | .0 | .0 | 179 | * | 3.7 |
| 3 | .0 | * | .6 | 2.0 | 1.0 | .1 | .0 | .0 | .0 | 183 | .1 | 3.7 |
| 2 | .0 | .1 | 1.4 | 3.6 | 1.9 | * | .0 | .0 | .0 | 336 | .4 | 6.5 |
| 1 | .0 | .0 | 2.5 | 4.8 | 1.1 | * | .0 | .0 | .0 | 405 | .2 | 8.2 |
| 0 | .0 | .3 | 4.9 | 7.3 | 1.0 | .0 | .0 | .0 | .0 | 651 | .6 | 12.9 |
| -1 | .0 | .4 | 6.4 | 5.7 | .7 | .0 | .0 | .0 | .0 | 638 | .3 | 12.9 |
| -2 | * | .8 | 8.2 | 4.4 | .2 | .0 | .0 | .0 | .0 | 659 | .4 | 13.3 |
| -3 | .0 | .8 | 6.3 | 2.9 | .1 | * | .0 | .0 | .0 | 489 | .2 | 9.9 |
| -4 | * | 1.4 | 5.9 | 2.0 | * | .0 | .0 | .0 | .0 | 457 | .2 | 9.3 |
| -5 | .1 | 1.2 | 3.2 | 1.0 | .0 | .0 | .0 | .0 | .0 | 267 | .2 | 5.4 |
| -6 | * | 1.1 | 1.9 | .1 | * | .0 | .0 | .0 | .0 | 156 | * | 3.2 |
| -7/-8 | .1 | .7 | 1.1 | .1 | .0 | .0 | .0 | .0 | .0 | 95 | * | 1.9 |
| -9/-10 | .1 | .1 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | 33 | * | .7 |
| -11/-13 | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | 10 | * | .2 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 15 | 350 | 2098 | 1775 | 494 | 83 | 15 | 5 | 1 | 4836 | 138 | 4698 |
| PCT | .3 | 7.2 | 43.4 | 36.7 | 10.2 | 1.7 | .3 | .1 | * | 100.0 | 2.9 | 97.1 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .6 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .3 | 3.1 | 2.2 | .0 | .0 | .0 | 5.6 |
| 3-4 | .0 | 2.8 | 5.5 | .3 | .0 | .0 | 8.6 |
| 5-6 | .0 | 1.1 | 3.4 | 1.3 | .0 | .0 | 5.8 |
| 7 | .0 | .1 | 2.5 | 2.4 | .1 | .0 | 5.1 |
| 8-9 | .0 | .1 | .9 | 1.2 | .0 | .0 | 2.2 |
| 10-11 | .0 | .0 | .1 | .8 | .1 | .0 | .9 |
| 12 | .0 | .0 | .1 | .5 | .1 | .0 | .7 |
| 13-16 | .0 | .0 | .1 | .4 | .0 | .0 | .6 |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 7.8 | 14.8 | 7.1 | .2 | .0 | 30.6 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .1 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | .6 | .3 | .0 | .0 | .0 | 1.0 |
| 3-4 | * | .2 | .3 | .2 | .0 | .0 | .7 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | * | * | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.1 | .9 | .3 | .0 | .0 | 2.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .6 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.0 | .1 | .0 | .0 | .0 | 1.4 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .6 | .2 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .3 | .1 | * | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 1.4 | .4 | * | .1 | .0 | 1.9 |

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | 1.2 | .3 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .4 | .5 | .1 | .0 | .0 | .9 |
| 5-6 | .0 | .2 | .4 | .0 | .0 | .0 | .6 |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.3 | 1.5 | .1 | .0 | .0 | 4.0 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | * | .7 | .4 | .0 | .0 | .0 | 1.1 |
| 3-4 | .1 | .6 | .8 | .1 | .0 | .0 | 1.5 |
| 5-6 | .0 | * | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .1 | .0 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.0 | 1.7 | .2 | .0 | .0 | 4.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .7 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .3 | 2.3 | 1.0 | .0 | .0 | .0 | 3.6 |
| 3-4 | .0 | 1.5 | 1.6 | .4 | .0 | .0 | 3.5 |
| 5-6 | .1 | .1 | 1.1 | .3 | .0 | .0 | 1.6 |
| 7 | .0 | .1 | .6 | .2 | .0 | .0 | .9 |
| 8-9 | .0 | .0 | .5 | .1 | .0 | .0 | .6 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 4.7 | 4.9 | 1.2 | .0 | .0 | 11.5 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.6 | .2 | .0 | .0 | .0 | 1.9 | |
| 1-2 | .4 | 6.0 | 3.1 | .0 | .0 | .0 | 9.5 | |
| 3-4 | .0 | 2.5 | 8.0 | 1.9 | .0 | .0 | 12.4 | |
| 5-6 | .0 | .5 | 6.0 | 1.7 | .0 | .0 | 8.2 | |
| 7 | .0 | .2 | 2.7 | 1.8 | .2 | .0 | 4.9 | |
| 8-9 | .0 | .1 | 1.7 | .2 | .1 | .0 | 3.0 | |
| 10-11 | .0 | .0 | .1 | .7 | .1 | .0 | .9 | |
| 12 | .0 | .0 | .3 | .6 | .1 | .0 | 1.0 | |
| 13-16 | .0 | .0 | .1 | .5 | .3 | .1 | 1.0 | |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 10.8 | 22.1 | 8.7 | .8 | .1 | 43.1 | 99.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.9 | 4.9 | .2 | .0 | .0 | .0 | 7.0 | |
| 1-2 | 1.4 | 15.1 | 7.6 | .0 | .0 | .0 | 24.1 | |
| 3-4 | .2 | 8.3 | 16.7 | 3.0 | .0 | .0 | 28.3 | |
| 5-6 | .1 | 2.2 | 11.8 | 3.3 | .0 | .0 | 17.3 | |
| 7 | .0 | .5 | 6.1 | 4.7 | .2 | .0 | 11.5 | |
| 8-9 | .0 | .2 | 3.1 | 2.6 | .1 | .0 | 6.0 | |
| 10-11 | .0 | .0 | .2 | 1.6 | .2 | .0 | 2.0 | |
| 12 | .0 | .0 | .5 | 1.2 | .2 | .0 | 1.9 | |
| 13-16 | .0 | .1 | .2 | 1.0 | .3 | .1 | 1.7 | |
| 17-19 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 3.7 | 31.2 | 46.4 | 17.6 | 1.0 | .1 | 100.0 | 1242 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .9 | 7.0 | 11.1 | 7.0 | 3.3 | 1.6 | .4 | .2 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 960 | 4 |
| 6-7 | * | 2.7 | 7.7 | 7.8 | 5.9 | 3.4 | 2.0 | 1.6 | .6 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 959 | 6 |
| 8-9 | * | .6 | 2.0 | 3.5 | 3.9 | 3.0 | 2.4 | 1.7 | 1.0 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 554 | 7 |
| 10-11 | .0 | .3 | .6 | .8 | 1.4 | 2.1 | 1.3 | .6 | .7 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 239 | 8 |
| 12-13 | .0 | .0 | .6 | .5 | .6 | .5 | .8 | .2 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 113 | 8 |
| >13 | .0 | .0 | .0 | .3 | .2 | .3 | .2 | .1 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 38 | 9 |
| INDET | 2.2 | .8 | .7 | .6 | .3 | .1 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 151 | 3 |
| TOTAL | 95 | 345 | 687 | 615 | 470 | 329 | 217 | 139 | 89 | 21 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3014 | 6 |
| PCT | 3.2 | 11.4 | 22.8 | 20.4 | 15.6 | 10.9 | 7.2 | 4.6 | 3.0 | .7 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .5 | .6 | .0 | .0 | .0 | .1 | 1.3 | .5 | .0 | 2.6 | .1 | 3.2 | | .0 | 92.3 |
| NE | .0 | 1.7 | 2.3 | .0 | .0 | .0 | .0 | 4.0 | .0 | .0 | 5.7 | .0 | 3.8 | | .0 | 86.4 |
| E | 3.4 | 1.1 | 1.7 | .0 | .0 | .0 | .0 | 6.3 | .0 | .0 | 6.9 | .0 | 1.7 | | .0 | 85.1 |
| SE | 10.4 | 4.0 | 4.4 | .0 | .0 | .0 | .0 | 16.3 | .4 | .8 | 5.2 | .0 | 7.6 | | .0 | 69.7 |
| S | 1.9 | 2.7 | 3.5 | .0 | .0 | .0 | .0 | 7.7 | 4.3 | .4 | 3.3 | .0 | 4.3 | | .0 | 80.1 |
| SW | 2.1 | 2.1 | 2.3 | .0 | .0 | .0 | .0 | 6.3 | 4.6 | .0 | 3.5 | .0 | 1.7 | | .0 | 83.9 |
| W | 1.1 | 1.4 | 2.2 | .0 | .0 | .0 | .0 | 4.2 | 2.4 | .3 | 4.2 | .1 | 1.5 | | .2 | 87.1 |
| NW | .4 | .6 | .9 | .0 | .0 | .0 | .0 | 1.7 | .6 | * | 2.8 | * | 3.0 | | * | 91.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | 1.5 | .0 | .0 | 22.7 | 1.5 | 3.0 | | .0 | 71.2 |
| TOT PCT | .8 | .8 | 1.2 | .0 | .0 | .0 | * | 2.6 | 1.0 | .1 | 3.4 | .1 | 2.9 | | * | 89.9 |
| TOT OBS: | 4731 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .5 | .8 | 1.2 | .0 | .0 | .0 | .0 | 2.2 | 1.4 | .0 | 2.9 | .0 | 3.6 | | .0 | 90.0 |
| 06&09 | .4 | 1.0 | .9 | .0 | .0 | .0 | .0 | 2.2 | 1.0 | .1 | 2.8 | .0 | 1.5 | | .0 | 92.3 |
| 12&15 | .8 | 1.1 | 1.5 | .0 | .0 | .0 | .0 | 3.3 | .9 | .3 | 4.1 | .0 | 2.7 | | .1 | 88.6 |
| 18&21 | 1.2 | .5 | 1.2 | .0 | .0 | .0 | .1 | 2.6 | .7 | .0 | 3.9 | .2 | 3.6 | | .1 | 89.0 |
| TOT PCT | .8 | .8 | 1.2 | .0 | .0 | .0 | * | 2.6 | 1.0 | .1 | 3.4 | .1 | 2.9 | | * | 89.9 |
| TOT OBS: | 4733 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 4.8 | 14.9 | 7.4 | .5 | .0 | | 28.1 | 17.5 | 29.2 | 20.8 | 29.1 | 24.5 | 26.5 | 31.5 | 29.6 | 29.1 |
| NE | .1 | 1.3 | 1.4 | .2 | * | .0 | | 3.0 | 12.0 | 2.3 | 2.7 | 2.4 | 1.4 | 2.3 | 3.5 | 4.9 | 4.1 |
| E | .2 | .6 | .2 | * | .0 | .0 | | 1.0 | 7.1 | .7 | .4 | .6 | .4 | 1.0 | 2.0 | 1.6 | .8 |
| SE | .1 | .6 | .5 | .1 | .0 | .0 | | 1.3 | 11.2 | 1.1 | 1.7 | 1.1 | 1.3 | 1.0 | .9 | 1.8 | 1.5 |
| S | .2 | 1.2 | 1.2 | .2 | .0 | .0 | | 2.7 | 11.7 | 3.0 | 2.9 | 2.8 | 2.5 | 2.8 | 2.6 | 2.2 | 2.8 |
| SW | .3 | 1.9 | 1.4 | .3 | * | .0 | | 4.0 | 10.9 | 3.9 | 3.6 | 3.6 | 4.6 | 3.7 | 3.5 | 3.7 | 5.8 |
| W | .6 | 4.9 | 5.7 | 1.4 | .1 | .0 | | 12.8 | 12.9 | 11.7 | 13.6 | 13.6 | 12.4 | 14.9 | 9.6 | 13.3 | 11.4 |
| NW | .5 | 8.9 | 23.9 | 11.3 | 1.0 | .0 | | 45.6 | 17.2 | 46.8 | 53.5 | 45.0 | 50.6 | 46.4 | 45.4 | 40.8 | 43.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.5 | | | | | | | 1.5 | .0 | 1.4 | .8 | 1.8 | 2.0 | 1.3 | 1.0 | 2.0 | 1.2 |
| TOT OBS | 196 | 1188 | 2411 | 1029 | 79 | 0 | 4903 | | 15.8 | 961 | 367 | 765 | 249 | 796 | 405 | 879 | 481 |
| TOT PCT | 4.0 | 24.2 | 49.2 | 21.0 | 1.6 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 | |
| N | 1.9 | 10.6 | 13.2 | 2.4 | * | | 28.1 | 17.5 | 26.9 | 27.9 | 28.2 | 29.4 | |
| NE | .7 | 1.6 | .7 | * | .0 | | 3.0 | 12.0 | 2.4 | 2.1 | 2.7 | 4.6 | |
| E | .6 | .3 | .1 | * | .0 | | 1.0 | 7.1 | .6 | .6 | 1.4 | 1.3 | |
| SE | .3 | .7 | .3 | * | .0 | | 1.3 | 11.2 | 1.3 | 1.2 | 1.0 | 1.7 | |
| S | .6 | 1.5 | .6 | * | .0 | | 2.7 | 11.7 | 3.0 | 2.7 | 2.7 | 2.4 | |
| SW | 1.2 | 2.1 | .6 | .1 | .0 | | 4.0 | 10.9 | 3.8 | 3.9 | 3.6 | 4.4 | |
| W | 2.3 | 7.0 | 3.0 | .5 | .0 | | 12.8 | 12.9 | 12.2 | 13.3 | 13.1 | 12.6 | |
| NW | 2.6 | 20.4 | 18.4 | 4.3 | * | | 45.6 | 17.2 | 48.6 | 46.4 | 46.1 | 41.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | 1.5 | | | | | | 1.5 | .0 | 1.2 | 1.9 | 1.2 | 1.8 | |
| TOT OBS | 570 | 2170 | 1803 | 358 | 2 | 4903 | | 15.8 | 1328 | 1014 | 1201 | 1340 | |
| TOT PCT | 11.6 | 44.3 | 36.8 | 7.3 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.2 | 2.0 | 21.3 | 51.1 | 22.9 | 1.6 | .0 | 16.4 | 100.0 | 1328 |
| 06&09 | 1.9 | 1.9 | 23.2 | 49.6 | 21.4 | 2.1 | .0 | 16.1 | 100.0 | 1014 |
| 12&15 | 1.2 | 2.2 | 26.8 | 49.5 | 18.4 | 1.9 | .0 | 15.4 | 100.0 | 1201 |
| 18&21 | 1.8 | 3.8 | 25.6 | 46.8 | 21.1 | 1.0 | .0 | 15.2 | 100.0 | 1360 |
| TOT | 73 | 123 | 1188 | 2411 | 1029 | 79 | 0 | 15.8 | | 4903 |
| PCT | 1.5 | 2.5 | 24.2 | 49.2 | 21.0 | 1.6 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.1 | 4.5 | 9.9 | 7.7 | | 4.8 |
| NE | .5 | .5 | .9 | 1.2 | | 5.7 |
| E | .1 | .1 | .1 | .4 | | 6.2 |
| SE | .3 | .1 | .3 | .4 | | 5.1 |
| S | .4 | .2 | .7 | 1.4 | | 6.1 |
| SW | .8 | .5 | 1.1 | 1.7 | | 5.6 |
| W | 2.9 | 2.1 | 4.2 | 3.9 | | 5.1 |
| NW | 12.7 | 6.7 | 11.8 | 12.1 | | 4.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .3 | .2 | .3 | .8 | | 5.7 |
| TOT OBS | 888 | 502 | 992 | 1001 | 3383 | 4.9 |
| TOT PCT | 26.2 | 14.8 | 29.3 | 29.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .2 | .5 | 2.4 | 4.9 | 7.0 | .5 | .2 | .1 | .1 | 14.3 | |
| NE | .1 | * | .1 | .1 | .4 | 1.1 | .1 | .0 | .0 | .0 | 1.1 | |
| E | * | .0 | .0 | .1 | .2 | .2 | .0 | .0 | * | .0 | .3 | |
| SE | * | .0 | .1 | .1 | .3 | .2 | .0 | .0 | .0 | .0 | .5 | |
| S | .1 | * | .1 | .3 | .5 | .7 | .1 | * | .0 | .0 | .9 | |
| SW | .1 | .0 | .1 | .4 | .7 | .7 | .1 | * | * | .1 | 1.9 | |
| W | .2 | .1 | .2 | .5 | 3.1 | 2.4 | .2 | .1 | * | .1 | 6.3 | |
| NW | .4 | .2 | .5 | 3.1 | 8.1 | 8.0 | .5 | .2 | * | .2 | 22.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .1 | .1 | .4 | .3 | * | .0 | .1 | .0 | .6 | |
| TOT OBS | 45 | 20 | 56 | 241 | 629 | 691 | 50 | 16 | 10 | 12 | 1613 | 3383 |
| TOT PCT | 1.3 | .6 | 1.7 | 7.1 | 18.6 | 20.4 | 1.5 | .5 | .3 | .4 | 47.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| * OR >5000 | .9 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >3500 | 2.2 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| * OR >2000 | 16.6 | 22.6 | 22.8 | 22.9 | 22.9 | 22.9 | 23.0 | 23.0 |
| * OR >1000 | 30.5 | 40.8 | 41.2 | 41.3 | 41.4 | 41.4 | 41.5 | 41.5 |
| * OR >600 | 35.3 | 47.6 | 48.3 | 48.5 | 48.5 | 48.6 | 48.6 | 48.6 |
| * OR >300 | 36.2 | 49.1 | 49.9 | 50.1 | 50.2 | 50.3 | 50.3 | 50.3 |
| * OR >150 | 36.4 | 49.6 | 50.5 | 50.7 | 50.8 | 50.8 | 50.9 | 50.9 |
| * OR > 0 | 36.5 | 49.9 | 50.9 | 51.3 | 51.5 | 51.8 | 52.1 | 52.2 |
| TOTAL | 1239 | 1693 | 1729 | 1741 | 1748 | 1760 | 1769 | 1772 |

TOTAL NUMBER OF OBS: 3395 PCT FREQ NH <5/8: 47.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 10.1 | 5.8 | 10.6 | 8.4 | 6.9 | 6.6 | 9.9 | 9.9 | 24.9 | 1.0 | 3531 |

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA RUSA IS. SW
32.7N 122.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| <1/2 | NO PCP | .2 | * | * | * | * | * | .1 | .2 | .0 | .1 | .6 | |
| | TOT % | .2 | * | * | * | * | * | .1 | .2 | .0 | .1 | .7 | |
| | PCP | .0 | * | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| 1/2<1 | NO PCP | .1 | .0 | .0 | * | * | .0 | .1 | .2 | .0 | * | .4 | |
| | TOT % | .1 | * | .0 | * | * | .0 | .1 | .2 | .0 | * | .5 | |
| | PCP | .0 | .0 | * | * | .0 | * | .1 | * | .0 | .0 | .2 | |
| 1<2 | NO PCP | .2 | * | * | * | * | * | .1 | .3 | .0 | * | .7 | |
| | TOT % | .2 | * | * | .1 | * | .1 | .2 | .3 | .0 | * | .9 | |
| | PCP | .1 | * | .0 | * | * | * | .1 | .1 | .0 | .0 | .4 | |
| 2<5 | NO PCP | .3 | .1 | * | * | .1 | .1 | .3 | .9 | .0 | .1 | 2.1 | |
| | TOT % | .4 | .1 | * | .1 | .1 | .2 | .5 | 1.0 | .0 | .1 | 2.4 | |
| | PCP | .1 | .1 | * | .2 | .2 | .1 | .2 | .4 | .0 | * | 1.4 | |
| 5<10 | NO PCP | 6.2 | .8 | .3 | .3 | 1.0 | 1.0 | 2.3 | 9.4 | .0 | .4 | 21.7 | |
| | TOT % | 6.3 | .9 | .4 | .4 | 1.1 | 1.2 | 2.5 | 9.8 | .0 | .4 | 23.0 | |
| | PCP | .2 | * | .0 | .0 | * | * | .2 | .2 | .0 | .0 | .6 | |
| 10+ | NO PCP | 20.7 | 1.9 | .5 | .7 | 1.4 | 2.5 | 9.6 | 33.9 | .0 | .8 | 71.9 | |
| | TOT % | 20.9 | 2.0 | .5 | .7 | 1.4 | 2.5 | 9.7 | 34.1 | .0 | .8 | 72.5 | |
| | TOT OBS | | | | | | | | | | | | 4727 |
| | TOT PCT | 28.0 | 3.0 | .9 | 1.3 | 2.7 | 4.0 | 13.0 | 45.7 | .0 | 1.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .1 | .1 | |
| <1/2 | 4-10 | .2 | * | * | * | * | * | .1 | .1 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | * | * | * | * | * | .1 | .3 | .0 | .1 | .7 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | * | |
| 1/2<1 | 4-10 | * | * | .0 | * | * | .0 | * | .1 | .0 | | .2 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | .0 | * | * | .0 | .1 | .2 | .0 | * | .5 | |
| | 0-3 | * | .0 | .0 | * | .0 | * | * | .1 | .0 | * | .2 | |
| 1<2 | 4-10 | .1 | * | * | * | .0 | * | .1 | .1 | .0 | | .4 | |
| | 11-21 | * | .0 | .0 | * | * | .0 | .1 | .1 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | .0 | * | * | * | .0 | | .1 | |
| | TOT % | .2 | * | * | .1 | * | .1 | .2 | .3 | .0 | * | 1.0 | |
| | 0-3 | .0 | * | * | .0 | .0 | .0 | .1 | * | .0 | .1 | .3 | |
| 2<5 | 4-10 | .1 | .1 | .1 | * | * | .1 | .2 | .2 | .0 | | .8 | |
| | 11-21 | .2 | * | .0 | * | .1 | .1 | .1 | .6 | .0 | | 1.1 | |
| | 22+ | .1 | * | .0 | .0 | .0 | * | .1 | .3 | .0 | | .5 | |
| | TOT % | .4 | .1 | .1 | .1 | .1 | .2 | .4 | 1.1 | .0 | .1 | 2.7 | |
| | 0-3 | .1 | .1 | .1 | * | .1 | .1 | .1 | .1 | .0 | .4 | 1.1 | |
| 5<10 | 4-10 | 1.1 | .3 | .2 | .2 | .5 | .6 | 1.0 | 2.4 | .0 | | 6.2 | |
| | 11-21 | 3.2 | .4 | .1 | .2 | .5 | .4 | 1.1 | 4.5 | .0 | | 10.3 | |
| | 22+ | 1.8 | .1 | * | * | .1 | .1 | .3 | 2.7 | .0 | | 5.1 | |
| | TOT % | 6.3 | .9 | .4 | .4 | 1.1 | 1.1 | 2.4 | 9.7 | .0 | .4 | 22.8 | |
| | 0-3 | .3 | .1 | .1 | .1 | .1 | .1 | .4 | .3 | .0 | .8 | 2.3 | |
| 10+ | 4-10 | 3.1 | .8 | .3 | .3 | .6 | 1.2 | 3.6 | 5.9 | .0 | | 15.9 | |
| | 11-21 | 11.3 | 1.0 | .1 | .3 | .6 | 1.0 | 4.5 | 18.5 | .0 | | 37.2 | |
| | 22+ | 6.2 | .1 | .0 | .1 | .1 | .1 | 1.2 | 9.4 | .0 | | 17.1 | |
| | TOT % | 20.9 | 1.9 | .5 | .7 | 1.4 | 2.5 | 9.0 | 34.1 | .0 | .8 | 72.4 | |
| | TOT OBS | | | | | | | | | | | | 4811 |
| | TOT PCT | 28.1 | 3.0 | 1.0 | 1.3 | 2.8 | 3.9 | 12.9 | 45.7 | .0 | 1.4 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.2 | .6 | 1.4 | 6.4 | 18.1 | 19.3 | 2.0 | .5 | .2 | .4 | 50.3 | 49.7 | 933 |
| 06&09 | 1.6 | 1.0 | 1.0 | 6.5 | 17.7 | 18.8 | .7 | .2 | .2 | .5 | 48.3 | 51.7 | 817 |
| 12&15 | 1.5 | .5 | 1.9 | 6.9 | 18.1 | 20.6 | 1.0 | .6 | .4 | .2 | 51.7 | 48.3 | 807 |
| 18&21 | 1.0 | .2 | 2.3 | 8.1 | 18.8 | 21.2 | 2.1 | .4 | .3 | .2 | 54.7 | 45.3 | 905 |
| TOT | 45 | 20 | 57 | 242 | 630 | 692 | 52 | 16 | 10 | 12 | 1776 | 1686 | 3462 |
| PCT | 1.3 | .6 | 1.6 | 7.0 | 18.2 | 20.0 | 1.5 | .5 | .3 | .3 | 51.3 | 48.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .6 | .8 | 2.9 | 22.6 | 72.8 | 1317 |
| 06&09 | 1.0 | .6 | .9 | 1.7 | 21.8 | 74.0 | 1009 |
| 12&15 | 1.3 | .6 | .9 | 2.7 | 24.4 | 70.1 | 1191 |
| 18&21 | .5 | .2 | 1.2 | 3.1 | 22.3 | 72.7 | 1317 |
| TOT | 36 | 24 | 46 | 128 | 1102 | 3498 | 4834 |
| PCT | .7 | .5 | 1.0 | 2.6 | 22.8 | 72.4 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.2 | 3.4 | 10.8 | 40.9 | 48.3 | 911 |
| 06&09 | 1.6 | 4.0 | 11.4 | 37.8 | 50.8 | 807 |
| 12&15 | 1.5 | 4.2 | 12.3 | 40.7 | 47.0 | 791 |
| 18&21 | 1.0 | 3.6 | 12.5 | 43.5 | 44.0 | 886 |
| TOT | 45 | 128 | 398 | 1385 | 1612 | 3395 |
| PCT | 1.3 | 3.8 | 11.7 | 40.8 | 47.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | 2 | .1 |
| 70/74 | .0 | .0 | * | .1 | .2 | * | * | .0 | 11 | .3 |
| 65/69 | .0 | .0 | .1 | .3 | .6 | .9 | .5 | .3 | 102 | 2.7 |
| 60/64 | .0 | .0 | .3 | .8 | 2.9 | 6.8 | 5.0 | 1.7 | 658 | 17.4 |
| 55/59 | .0 | .1 | * | 1.6 | 6.4 | 18.0 | 23.1 | 8.6 | 2181 | 57.8 |
| 50/54 | .0 | .0 | .1 | .5 | 2.1 | 3.6 | 9.7 | 5.4 | 807 | 21.4 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | * | .1 | .2 | 12 | .3 |
| TOTAL | 0 | 2 | 20 | 120 | 460 | 1108 | 1450 | 613 | 3773 | 100.0 |
| PCT | .0 | .1 | .5 | 3.2 | 12.2 | 29.4 | 38.4 | 16.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| | * | * | .0 | * | * | .0 | .1 | .1 | .0 | * |
| | .8 | .1 | .1 | * | .1 | .1 | .5 | .9 | .0 | .1 |
| | 4.3 | .6 | .3 | .5 | .9 | 1.2 | 2.8 | 6.6 | .0 | .4 |
| | 18.0 | 2.0 | .5 | .6 | 1.1 | 1.5 | 6.7 | 26.9 | .0 | .6 |
| | 4.6 | .5 | .2 | .1 | .2 | .3 | 2.7 | 12.6 | .0 | .1 |
| | .1 | .0 | .0 | .0 | * | * | * | .2 | .0 | .0 |
| | 27.8 | 3.2 | 1.0 | 1.2 | 2.3 | 3.1 | 12.8 | 47.2 | .0 | 1.3 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 77 | 68 | 65 | 58 | 53 | 52 | 49 | 58.2 | 1325 |
| 06&09 | 67 | 64 | 61 | 56 | 52 | 50 | 48 | 56.3 | 1014 |
| 12&15 | 70 | 64 | 60 | 56 | 52 | 50 | 48 | 56.0 | 1199 |
| 18&21 | 77 | 68 | 65 | 58 | 53 | 51 | 46 | 58.3 | 1362 |
| TOT | 77 | 67 | 63 | 57 | 52 | 50 | 46 | 57.3 | 4900 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 4.1 | 15.4 | 32.7 | 36.1 | 11.7 | 78 | 1065 |
| 06&09 | .0 | 2.9 | 9.3 | 25.3 | 41.9 | 20.7 | 82 | 767 |
| 12&15 | .0 | 3.2 | 9.1 | 24.3 | 40.6 | 22.8 | 82 | 916 |
| 18&21 | .0 | 4.6 | 14.1 | 33.2 | 36.4 | 11.6 | 78 | 1041 |
| TOT | 0 | 143 | 465 | 1111 | 1456 | 614 | 80 | 3789 |

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1858-1974

AREA 0093 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 2 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | 2 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | 4 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .0 | .2 | .1 | .2 | * | .0 | 20 | .0 | .4 |
| 9/10 | .0 | .0 | .0 | * | .2 | .5 | .1 | .0 | .0 | 38 | .1 | .8 |
| 7/8 | .0 | .0 | .0 | .2 | .6 | .6 | * | * | .0 | 71 | * | 1.5 |
| 6 | .0 | .0 | .0 | .4 | .6 | .4 | * | .0 | .0 | 61 | * | 1.3 |
| 5 | .0 | .0 | .1 | .6 | 1.2 | .4 | .0 | .0 | .0 | 105 | * | 2.3 |
| 4 | .0 | * | .5 | 1.0 | 1.5 | .2 | * | .0 | .0 | 148 | .1 | 3.2 |
| 3 | .0 | .1 | .5 | 2.2 | 1.7 | .1 | .0 | .0 | .0 | 206 | .1 | 4.5 |
| 2 | .0 | .2 | 1.6 | 3.9 | 2.0 | .3 | .0 | .0 | .0 | 356 | .3 | 7.6 |
| 1 | .0 | .1 | 2.4 | 5.0 | 1.8 | * | .0 | .0 | .0 | 423 | .2 | 9.2 |
| 0 | .0 | .6 | 4.6 | 7.8 | 1.0 | * | * | .0 | .0 | 630 | .5 | 13.5 |
| -1 | .0 | .9 | 5.2 | 7.1 | .4 | * | .0 | .0 | .0 | 611 | .6 | 13.0 |
| -2 | * | .8 | 6.2 | 5.8 | .3 | * | .0 | .0 | .0 | 592 | .5 | 12.7 |
| -3 | .0 | .9 | 5.2 | 3.4 | .2 | .0 | .0 | .0 | .0 | 434 | .2 | 9.4 |
| -4 | .0 | .8 | 4.7 | 1.6 | * | .0 | .0 | .0 | .0 | 322 | .2 | 7.0 |
| -5 | * | .5 | 3.1 | 1.3 | .1 | .0 | .0 | .0 | .0 | 223 | .2 | 4.8 |
| -6 | * | .3 | 1.6 | .3 | .0 | .0 | .0 | .0 | .0 | 101 | * | 2.2 |
| -7/-8 | .1 | .3 | 1.6 | .4 | .0 | .0 | .0 | .0 | .0 | 109 | .3 | 2.1 |
| -9/-10 | .0 | .1 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | 26 | .0 | .6 |
| -11/-13 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 15 | .0 | .3 |
| -14/-16 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 3 | * | * |
| TOTAL | 7 | 255 | 1703 | 1557 | 527 | 127 | 19 | 5 | 2 | 4502 | 152 | 4350 |
| PCT | .2 | 5.7 | 37.8 | 41.2 | 11.7 | 2.8 | .4 | .1 | * | 100.0 | 3.4 | 96.6 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .2 | .1 | .0 | .0 | .0 | .5 |
| 1-2 | .2 | 1.8 | 3.2 | .0 | .0 | .0 | 5.2 |
| 3-4 | .0 | 1.4 | 4.9 | 1.4 | .0 | .0 | 7.6 |
| 5-6 | .0 | .3 | 3.6 | 1.3 | .0 | .0 | 5.2 |
| 7 | .0 | .4 | 3.5 | 2.3 | .2 | .0 | 6.4 |
| 8-9 | .0 | .0 | .9 | .8 | .0 | .0 | 1.7 |
| 10-11 | .0 | .0 | .7 | 1.3 | .0 | .0 | 2.0 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .1 | .2 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 4.1 | 16.8 | 7.3 | .4 | .0 | 29.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .1 | .6 | .9 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | 1.1 | .3 | * | .0 | .0 | 1.4 |
| 5-6 | .1 | .0 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .3 | * | * | .0 | .4 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .4 | .4 | .1 | * | .0 | 1.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | .3 | .1 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .1 | .0 | .0 | .0 | 1.2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | * | .4 | .1 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .6 | .3 | .0 | .0 | .0 | 1.0 |

PERIOD: (OVER-ALL) 1963-1974 APRIL AREA 0033 SANTA ROSA IS. SW

TABLE 18 (CONT) 32.7N 122.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .1 | .7 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .2 | .6 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .1 | .5 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.1 | 1.4 | .0 | .0 | .0 | 2.6 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .1 | .7 | .1 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .4 | .5 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | * | .4 | .0 | .0 | .0 | .4 |
| 7 | .0 | .1 | .0 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.3 | 1.3 | .2 | .0 | .0 | 2.8 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 2.2 | 1.3 | .0 | .0 | .0 | 3.5 |
| 3-4 | .0 | 1.5 | 2.3 | .2 | .0 | .0 | 4.0 |
| 5-6 | .0 | .7 | 1.6 | .4 | .0 | .0 | 2.7 |
| 7 | .0 | .2 | .5 | .2 | .0 | .0 | .9 |
| 8-9 | .0 | .1 | .6 | .2 | .0 | .0 | .9 |
| 10-11 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 5.2 | 6.7 | 1.3 | .0 | .0 | 13.3 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .1 | .7 | * | .0 | .0 | .0 | .9 | |
| 1-2 | .3 | 4.3 | 4.4 | .0 | .0 | .0 | 9.0 | |
| 3-4 | .1 | 2.9 | 8.1 | 1.2 | .0 | .0 | 12.2 | |
| 5-6 | .0 | .7 | 5.7 | 1.9 | .1 | .0 | 8.4 | |
| 7 | .0 | .5 | 3.9 | 2.8 | .2 | .0 | 7.4 | |
| 8-9 | .0 | .3 | 1.4 | 1.7 | .2 | .0 | 3.6 | |
| 10-11 | .0 | .0 | .4 | 1.0 | .1 | .0 | 1.4 | |
| 12 | .0 | .0 | .2 | .6 | .0 | .0 | .7 | |
| 13-16 | .0 | .0 | .2 | .7 | .2 | .0 | 1.1 | |
| 17-19 | .0 | .0 | .0 | .1 | .2 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .5 | 9.4 | 24.2 | 9.9 | 1.0 | .0 | 45.0 | 98.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.7 | 2.5 | .2 | .0 | .0 | .0 | 4.4 | |
| 1-2 | .9 | 10.9 | 10.3 | .0 | .0 | .0 | 22.1 | |
| 3-4 | .1 | 7.9 | 16.7 | 2.9 | .0 | .0 | 27.5 | |
| 5-6 | .1 | 1.9 | 11.9 | 3.5 | .1 | .0 | 17.4 | |
| 7 | .0 | 1.3 | 8.3 | 5.4 | .4 | .0 | 15.4 | |
| 8-9 | .0 | .3 | 3.2 | 2.8 | .2 | .0 | 6.6 | |
| 10-11 | .0 | .0 | 1.2 | 2.4 | .1 | .0 | 3.7 | |
| 12 | .0 | .0 | .3 | .8 | .0 | .0 | 1.1 | |
| 13-16 | .0 | .0 | .3 | .9 | .4 | .0 | 1.5 | |
| 17-19 | .0 | .0 | .0 | .1 | .2 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 2.8 | 24.7 | 52.4 | 18.7 | 1.4 | .0 | 100.0 | 1170 |

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .8 | 12.4 | 12.1 | 5.9 | 3.3 | 1.3 | 1.0 | .1 | .6 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1100 | 4 |
| 6-7 | .0 | 1.8 | 5.9 | 5.8 | 7.7 | 3.7 | 1.2 | .6 | .9 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 811 | 6 |
| 8-9 | * | .6 | 2.0 | 2.8 | 4.9 | 3.7 | 2.2 | 1.0 | .8 | .2 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 534 | 7 |
| 10-11 | .0 | .8 | .7 | .8 | 1.3 | 1.5 | .9 | .8 | .5 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 216 | 7 |
| 12-13 | .0 | .0 | .5 | .1 | .4 | .7 | .6 | .3 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 91 | 9 |
| >13 | .0 | .0 | .0 | .1 | .1 | * | .2 | .1 | .3 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 24 | 11 |
| INDET | 3.0 | .7 | .4 | .4 | .2 | .2 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 148 | 2 |
| TOTAL | 114 | 479 | 832 | 464 | 593 | 323 | 182 | 81 | 103 | 17 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2924 | 5 |
| PCT | 3.9 | 16.4 | 21.6 | 15.9 | 17.9 | 11.0 | 6.2 | 2.8 | 3.5 | .6 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .3 | .7 | .0 | .0 | .0 | .0 | 1.1 | .8 | .0 | 1.2 | .1 | 1.8 | | .1 | 94.9 |
| NE | .0 | .6 | 1.1 | .0 | .0 | .0 | .0 | 1.7 | .6 | .0 | 2.6 | .9 | 2.6 | | .0 | 91.8 |
| E | 5.3 | .0 | 2.7 | .0 | .0 | .0 | .0 | 8.0 | 5.3 | .0 | 5.3 | 5.3 | 6.7 | | .0 | 69.3 |
| SE | 2.7 | .5 | .9 | .0 | .0 | .0 | .0 | 4.1 | .9 | .0 | 10.9 | .0 | 1.8 | | .0 | 82.3 |
| S | 1.5 | .9 | .6 | .0 | .0 | .0 | .0 | 3.0 | 1.2 | .0 | .0 | .0 | 4.8 | | .0 | 90.9 |
| SW | 2.4 | 1.1 | 2.2 | .0 | .0 | .0 | .0 | 4.9 | 1.4 | .0 | 2.2 | .2 | 3.6 | | .0 | 87.7 |
| W | .4 | .8 | .7 | .0 | .0 | .0 | .0 | 1.6 | .6 | .0 | 3.6 | .1 | 2.2 | | .0 | 92.0 |
| NW | .1 | .7 | .9 | .0 | .0 | .0 | .0 | 1.8 | .8 | .0 | 1.9 | * | 1.9 | | .0 | 93.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | 2.5 | .0 | .0 | .0 | .0 | .0 | 2.5 | .0 | .0 | 2.5 | .0 | 2.5 | | .0 | 92.5 |
| TOT PCT | .3 | .7 | .9 | .0 | .0 | .0 | .0 | 1.7 | .8 | .0 | 2.0 | .1 | 2.0 | | * | 93.3 |
| TOT OBS: | 4903 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .1 | .8 | .6 | .0 | .0 | .0 | .0 | 1.4 | .2 | .0 | 1.7 | .2 | 2.9 | | .0 | 93.6 |
| 06&09 | .3 | .6 | 1.2 | .0 | .0 | .0 | .0 | 1.9 | 1.0 | .0 | 2.8 | .0 | 2.0 | | .0 | 92.4 |
| 12&15 | .3 | .8 | 1.4 | .0 | .0 | .0 | .0 | 2.5 | 1.0 | .0 | 2.4 | .1 | 1.6 | | .1 | 92.3 |
| 18&21 | .4 | .4 | .3 | .0 | .0 | .0 | .0 | 1.1 | .9 | .0 | 1.5 | .1 | 1.6 | | .0 | 94.7 |
| TOT PCT | .3 | .7 | .9 | .0 | .0 | .0 | .0 | 1.7 | .8 | .0 | 2.0 | .1 | 2.0 | | * | 93.3 |
| TOT OBS: | 4917 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .5 | 4.9 | 15.9 | 6.1 | .2 | .0 | | 27.6 | 16.7 | 28.6 | 24.2 | 27.0 | 25.9 | 25.2 | 26.3 | 32.5 | 26.2 |
| NE | .1 | .8 | .6 | .2 | .0 | .0 | | 1.7 | 12.3 | 1.4 | 1.4 | 2.0 | .9 | 2.0 | 1.9 | 1.8 | 2.1 |
| E | .1 | .3 | * | * | .0 | .0 | | .4 | 6.7 | .3 | .2 | .5 | .2 | .2 | .7 | .5 | .3 |
| SE | .1 | .8 | .3 | .0 | .0 | .0 | | 1.1 | 7.9 | 1.3 | .9 | 1.1 | 2.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| S | .3 | 1.1 | .3 | .0 | .0 | .0 | | 1.7 | 7.8 | 1.9 | 1.1 | 1.6 | 1.9 | 1.6 | 1.3 | 1.7 | 2.2 |
| SW | .3 | 1.6 | .8 | .1 | .0 | .0 | | 2.8 | 8.7 | 2.3 | 2.4 | 2.5 | 3.8 | 2.9 | 3.5 | 2.8 | 3.5 |
| W | .7 | 5.8 | 9.6 | 1.2 | .1 | .0 | | 13.4 | 12.4 | 12.0 | 18.5 | 14.8 | 14.2 | 12.9 | 16.3 | 9.4 | 14.4 |
| NW | .7 | 10.2 | 28.4 | 10.4 | .8 | .0 | | 50.5 | 16.6 | 51.3 | 51.1 | 49.8 | 50.8 | 52.5 | 48.5 | 49.3 | 50.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .8 | | | | | | | .8 | .0 | .9 | .2 | .6 | .3 | 1.4 | .4 | 1.1 | .2 |
| TOT OBS | 179 | 1291 | 2636 | 911 | 55 | 0 | 5072 | | 15.3 | 885 | 401 | 775 | 291 | 839 | 473 | 918 | 491 |
| TOT PCT | 3.5 | 25.5 | 52.0 | 18.0 | 1.1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.7 | 12.2 | 12.0 | 1.6 | * | | 27.6 | 16.7 | 27.3 | 26.7 | 25.6 | 30.3 |
| NE | .4 | .8 | .4 | .1 | .0 | | 1.7 | 12.3 | 1.4 | 1.7 | 2.0 | 1.9 |
| E | .2 | .1 | * | * | .0 | | .4 | 6.7 | .3 | .4 | .4 | .4 |
| SE | .6 | .5 | .1 | .0 | .0 | | 1.1 | 7.9 | 1.2 | 1.4 | 1.0 | 1.0 |
| S | .8 | .8 | .1 | .0 | .0 | | 1.7 | 7.8 | 1.7 | 1.7 | 1.5 | 1.8 |
| SW | 1.1 | 1.6 | .1 | * | .0 | | 2.8 | 8.7 | 2.3 | 2.8 | 3.1 | 3.0 |
| W | 2.8 | 7.4 | 2.8 | .4 | * | | 13.4 | 12.4 | 14.0 | 14.6 | 14.2 | 11.1 |
| NW | 3.2 | 22.9 | 21.0 | 3.3 | .1 | | 50.5 | 16.6 | 51.2 | 50.1 | 51.1 | 49.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .8 | | | | | | .8 | .0 | .7 | .6 | 1.1 | .8 |
| TOT OBS | 586 | 2357 | 1848 | 275 | 6 | 5072 | | 15.3 | 1286 | 1066 | 1311 | 1409 |
| TOT PCT | 11.5 | 46.5 | 36.4 | 5.4 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS, SM
32.6N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .7 | 1.4 | 23.9 | 55.8 | 17.2 | 1.0 | .0 | 15.6 | 100.0 | 1236 |
| 06&09 | .6 | 3.3 | 25.5 | 49.3 | 20.0 | 1.3 | .0 | 15.5 | 100.0 | 1066 |
| 12&15 | 1.1 | 2.8 | 25.8 | 50.6 | 18.5 | 1.2 | .0 | 15.4 | 100.0 | 1311 |
| 18&21 | .8 | 3.5 | 26.5 | 51.7 | 16.7 | .9 | .0 | 14.9 | 100.0 | 1409 |
| TOT | 40 | 139 | 1291 | 2636 | 911 | 55 | 0 | 15.3 | | 5072 |
| PCT | .8 | 2.7 | 25.5 | 52.0 | 18.0 | 1.1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 6.8 | 3.3 | 11.9 | 9.5 | | 5.3 |
| NE | .4 | .2 | .5 | .7 | | 5.3 |
| E | * | * | .1 | .2 | | 6.2 |
| SE | .2 | .1 | .4 | .5 | | 6.0 |
| S | .3 | .2 | .4 | .7 | | 5.6 |
| SW | .6 | .3 | .9 | .9 | | 5.5 |
| W | 3.3 | 1.5 | 2.5 | 3.9 | | 4.9 |
| NW | 12.5 | 5.4 | 13.6 | 17.2 | | 5.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .1 | .2 | .3 | | 4.6 |
| TOT OBS | 846 | 384 | 1056 | 1173 | 3459 | 5.2 |
| TOT PCT | 24.5 | 11.1 | 30.5 | 33.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .0 | .4 | 1.8 | 7.6 | 7.8 | 1.8 | * | * | .1 | 12.0 | |
| NE | * | .0 | .1 | .1 | .2 | .6 | .1 | .0 | .0 | * | .8 | |
| E | .0 | .0 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | |
| SE | .1 | .0 | .0 | .1 | .2 | .1 | .1 | .0 | .1 | .0 | .4 | |
| S | .0 | .0 | .0 | .1 | .3 | .3 | .2 | .0 | * | .0 | .7 | |
| SW | * | .0 | .1 | .1 | .6 | .5 | .3 | .0 | * | .0 | 1.1 | |
| W | .2 | .1 | .1 | .6 | 2.1 | 2.1 | .4 | * | .1 | .1 | 5.6 | |
| NW | .3 | .2 | .8 | 3.3 | 10.8 | 10.5 | 1.7 | .2 | .1 | .1 | 20.8 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .0 | .1 | .2 | .1 | .1 | .0 | * | .0 | .5 | |
| TOT OBS | 27 | 9 | 49 | 213 | 759 | 765 | 158 | 7 | 15 | 8 | 1449 | 3459 |
| TOT PCT | .8 | .3 | 1.4 | 6.2 | 21.9 | 22.1 | 4.6 | .2 | .4 | .2 | 41.9 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .6 | .7 | .7 | .7 | .7 | .7 | .7 |
| * OR >5000 | .6 | .8 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >3500 | 4.8 | 5.3 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| * OR >2000 | 24.2 | 27.5 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| * OR >1000 | 40.6 | 49.2 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 |
| * OR >600 | 44.9 | 55.4 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 |
| * OR >300 | 45.6 | 56.6 | 57.0 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 |
| * OR >150 | 45.7 | 56.8 | 57.2 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 |
| * OR > 0 | 45.8 | 57.0 | 57.5 | 57.6 | 57.7 | 57.8 | 58.1 | 58.1 |
| TOTAL | 1385 | 1972 | 1990 | 1995 | 1998 | 2002 | 2011 | 2011 |

TOTAL NUMBER OF OBS: 3462 PCT FREQ NM <5/8: 41.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 13.9 | 7.1 | 9.7 | 6.3 | 5.5 | 4.7 | 9.0 | 13.6 | 30.3 .6 | 3601 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | * | * | .1 | .0 | * | .1 | .1 | .0 | .0 | .4 | |
| | TOT % | .1 | * | * | .1 | .0 | * | .1 | .1 | .0 | .0 | .4 | |
| 1/2<1 | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| | NO PCP | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .1 | |
| | TOT % | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .2 | |
| 1<2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | * | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | .2 | |
| | TOT % | * | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | .2 | |
| 2<5 | PCP | * | .0 | .0 | .0 | * | * | .1 | .1 | .0 | .0 | .2 | |
| | NO PCP | .3 | .0 | .0 | * | .0 | * | .2 | .8 | .0 | .0 | 1.3 | |
| | TOT % | .3 | .0 | .0 | * | * | * | .3 | .8 | .0 | .0 | 1.5 | |
| 5<10 | PCP | .2 | * | * | * | * | .1 | .1 | .6 | .0 | .0 | 1.1 | |
| | NO PCP | 4.4 | .3 | .1 | .2 | .3 | .5 | 2.2 | 9.0 | .0 | .1 | 17.2 | |
| | TOT % | 4.6 | .4 | .1 | .3 | .3 | .6 | 2.3 | 9.6 | .0 | .1 | 18.3 | |
| 10+ | PCP | .1 | .0 | .0 | * | * | * | * | .2 | .0 | * | .3 | |
| | NO PCP | 22.6 | 1.4 | .2 | .8 | 1.3 | 2.1 | 10.4 | 39.4 | .0 | .7 | 79.0 | |
| | TOT % | 22.6 | 1.4 | .2 | .8 | 1.4 | 2.1 | 10.5 | 39.6 | .0 | .7 | 79.3 | |
| | TOT OBS | | | | | | | | | | | | 4896 |
| | TOT PCT | 27.7 | 1.8 | .4 | 1.1 | 1.7 | 2.8 | 13.3 | 50.3 | .0 | .8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | 4-10 | .1 | * | * | .1 | .0 | * | .1 | * | .0 | | .4 | |
| | 11-21 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | * | * | .1 | .0 | * | .1 | .1 | .0 | .0 | .4 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | .0 | | .1 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | .3 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | 4-10 | .0 | .0 | .0 | .0 | .0 | * | .2 | .2 | .0 | | .4 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | * | .0 | .0 | .0 | .0 | * | .2 | .4 | .0 | .0 | .6 | |
| 2<5 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| | 4-10 | .2 | .0 | .0 | * | * | * | .2 | .2 | .0 | | .6 | |
| | 11-21 | .2 | .0 | .0 | .0 | * | * | .1 | .4 | .0 | | .7 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | | .3 | |
| | TOT % | .4 | .0 | .0 | * | * | * | .3 | 1.0 | .0 | .0 | 1.8 | |
| 5<10 | 0-3 | .1 | * | * | * | .1 | .1 | .1 | .1 | .0 | .1 | .6 | |
| | 4-10 | .8 | .2 | .1 | .2 | .2 | .3 | 1.1 | 1.9 | .0 | | 4.6 | |
| | 11-21 | 2.6 | .1 | * | .1 | .1 | .2 | .9 | 5.4 | .0 | | 9.4 | |
| | 22+ | 1.1 | * | .0 | .0 | .0 | * | .2 | 2.2 | .0 | | 3.6 | |
| | TOT % | 4.6 | .4 | .1 | .3 | .3 | .6 | 2.3 | 9.5 | .0 | .1 | 18.2 | |
| 10+ | 0-3 | .4 | .1 | .1 | .1 | .2 | .2 | .5 | .5 | .0 | .7 | 2.8 | |
| | 4-10 | 3.8 | .7 | .1 | .5 | .9 | 1.2 | 4.2 | 7.8 | .0 | | 19.2 | |
| | 11-21 | 13.2 | .5 | * | .2 | .3 | .6 | 4.6 | 22.3 | .0 | | 41.6 | |
| | 22+ | 5.1 | .2 | * | .0 | .0 | * | 1.1 | 8.7 | .0 | | 15.1 | |
| | TOT % | 22.4 | 1.4 | .2 | .8 | 1.4 | 2.1 | 10.4 | 39.4 | .0 | .7 | 78.7 | |
| | TOT OBS | | | | | | | | | | | | 4998 |
| | TOT PCT | 27.6 | 1.8 | .4 | 1.1 | 1.7 | 2.8 | 13.4 | 50.5 | .0 | .8 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .2 | .4 | 1.7 | 6.0 | 20.2 | 21.0 | 5.7 | .3 | .7 | .1 | 56.2 | 43.8 | 902 |
| 06&09 | .9 | .2 | 1.8 | 4.7 | 19.0 | 21.3 | 2.2 | .0 | .4 | .6 | 51.2 | 48.8 | 811 |
| 12&15 | 1.2 | .1 | 1.4 | 6.1 | 23.2 | 23.8 | 3.7 | .4 | .2 | .0 | 60.2 | 39.8 | 856 |
| 18&21 | .8 | .2 | .7 | 7.3 | 23.7 | 21.2 | 6.0 | .1 | .4 | .2 | 60.8 | 39.2 | 953 |
| TOT | 27 | 9 | 49 | 214 | 761 | 768 | 198 | 7 | 15 | 8 | 2016 | 1506 | 3522 |
| PCT | .8 | .3 | 1.4 | 6.1 | 21.6 | 21.8 | 4.5 | .2 | .4 | .2 | 57.2 | 42.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .1 | .2 | .8 | 2.1 | 18.6 | 78.2 | 1282 |
| 06&09 | .8 | .3 | .2 | 1.8 | 20.1 | 76.9 | 1060 |
| 12&15 | .4 | .5 | .8 | 1.7 | 20.8 | 75.8 | 1295 |
| 18&21 | .6 | .1 | .7 | 1.5 | 14.0 | 83.2 | 1376 |
| TOT | 22 | 13 | 32 | 89 | 913 | 3944 | 5013 |
| PCT | .4 | .3 | .6 | 1.8 | 18.2 | 78.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .2 | 2.2 | 9.0 | 48.1 | 42.9 | 890 |
| 06&09 | .9 | 3.1 | 8.3 | 43.5 | 48.1 | 804 |
| 12&15 | 1.1 | 2.6 | 9.2 | 52.1 | 38.7 | 838 |
| 18&21 | .9 | 1.9 | 9.7 | 52.7 | 37.6 | 930 |
| TOT | 26 | 85 | 314 | 1705 | 1443 | 3462 |
| PCT | .8 | 2.5 | 9.1 | 49.2 | 41.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .1 | * | * | * | .0 | .0 | 5 | .1 |
| 70/74 | .0 | .0 | .0 | .1 | .2 | .1 | .1 | * | 19 | .5 |
| 65/69 | .0 | * | * | .3 | .9 | 1.5 | .5 | .2 | 131 | 3.4 |
| 60/64 | .0 | .0 | .1 | .5 | 3.9 | 10.2 | 8.7 | 2.6 | 997 | 26.0 |
| 55/59 | .0 | .0 | .1 | .2 | 4.0 | 17.7 | 29.8 | 10.0 | 2375 | 61.8 |
| 50/54 | .0 | .0 | .0 | .1 | .4 | 1.3 | 3.8 | 2.7 | 315 | 8.2 |
| TOTAL | 0 | 1 | 7 | 41 | 366 | 1182 | 1650 | 595 | 3842 | 100.0 |
| PCT | .0 | * | .2 | 1.1 | 9.5 | 30.8 | 42.9 | 15.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | * | .0 | * | * | * | .0 | .0 |
| * | * | * | * | * | .1 | .1 | .1 | .0 | * |
| .7 | .1 | .0 | .1 | .1 | .2 | .7 | 1.3 | .0 | .2 |
| 6.9 | .4 | .1 | .5 | .9 | 1.3 | 3.7 | 11.8 | .0 | .3 |
| 16.4 | 1.1 | .2 | .5 | .6 | 1.1 | 7.7 | 33.9 | .0 | .2 |
| 1.4 | .2 | .0 | .1 | .1 | .2 | 1.5 | 4.7 | .0 | .1 |
| 25.5 | 1.8 | .3 | 1.2 | 1.8 | 3.0 | 13.7 | 51.9 | .0 | .8 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 76 | 69 | 65 | 59 | 55 | 53 | 46 | 59.5 | 1283 |
| 06&09 | 70 | 64 | 61 | 57 | 53 | 52 | 50 | 57.3 | 1068 |
| 12&15 | 69 | 64 | 62 | 57 | 53 | 52 | 50 | 57.2 | 1308 |
| 18&21 | 78 | 70 | 65 | 59 | 55 | 53 | 50 | 59.4 | 1405 |
| TOT | 78 | 68 | 64 | 58 | 54 | 52 | 46 | 58.4 | 5064 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.8 | 11.9 | 34.8 | 39.4 | 12.1 | 80 | 1000 |
| 06&09 | .0 | .7 | 7.1 | 23.9 | 49.6 | 18.7 | 83 | 815 |
| 12&15 | .0 | .8 | 5.5 | 24.4 | 48.2 | 21.1 | 84 | 973 |
| 18&21 | .0 | 1.6 | 12.8 | 38.3 | 36.2 | 11.2 | 79 | 1066 |
| TOT | 0 | 49 | 367 | 1188 | 1653 | 597 | 81 | 3854 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | * | 4 | * | .1 |
| 11/13 | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | 15 | * | .3 |
| 9/10 | .0 | .0 | .0 | * | .2 | .2 | .2 | .0 | .0 | 34 | .0 | .7 |
| 7/8 | .0 | .0 | .0 | .2 | .7 | .8 | .1 | * | .0 | 89 | * | 1.9 |
| 6 | .0 | .0 | * | .5 | .7 | .4 | * | .0 | .0 | 79 | * | 1.7 |
| 5 | .0 | .0 | .1 | .8 | 1.0 | .8 | * | .0 | .0 | 130 | * | 2.7 |
| 4 | .0 | .0 | .2 | 1.4 | 1.6 | .2 | * | .0 | .0 | 163 | .1 | 3.4 |
| 3 | .0 | .0 | .1 | 2.4 | 1.7 | .5 | * | * | .0 | 226 | .1 | 4.7 |
| 2 | .0 | * | 1.4 | 4.5 | 2.6 | .2 | * | .0 | .0 | 411 | .2 | 8.6 |
| 1 | .0 | .0 | 1.8 | 5.3 | 2.7 | .1 | .0 | .0 | .0 | 461 | .2 | 9.6 |
| 0 | .0 | .1 | 4.2 | 7.9 | 2.6 | * | .0 | .0 | .0 | 699 | .4 | 14.5 |
| -1 | .0 | .1 | 3.5 | 7.6 | 1.9 | .1 | .0 | .0 | .0 | 621 | .2 | 13.0 |
| -2 | .0 | .2 | 4.7 | 8.0 | .9 | * | .0 | .0 | .0 | 651 | .3 | 13.6 |
| -3 | .0 | .2 | 3.4 | 4.6 | .6 | * | .0 | .0 | .0 | 413 | .1 | 8.7 |
| -4 | * | .1 | 3.1 | 3.6 | .1 | * | .0 | .0 | .0 | 330 | .1 | 6.9 |
| -5 | .0 | .2 | 2.0 | 1.7 | .1 | .0 | .0 | .0 | .0 | 183 | * | 3.9 |
| -6 | .0 | .1 | .9 | .8 | .0 | .0 | .0 | .0 | .0 | 86 | * | 1.8 |
| -7/-8 | .0 | .1 | .8 | .5 | .0 | .0 | .0 | .0 | .0 | 68 | .1 | 1.4 |
| -9/-10 | .0 | .1 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | 21 | .0 | .4 |
| -11/-13 | .0 | .0 | .1 | .1 | * | .0 | .0 | .0 | .0 | 12 | * | .2 |
| TOTAL | 1 | 61 | 1254 | 2349 | 829 | 167 | 32 | 5 | 2 | 4700 | 92 | 4608 |
| PCT | * | 1.3 | 26.7 | 50.0 | 17.6 | 3.6 | .7 | .1 | * | 100.0 | 2.0 | 98.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .7 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .2 | 2.8 | 3.2 | .0 | .0 | .0 | 6.2 |
| 3-4 | .0 | 1.4 | 5.3 | 1.0 | .0 | .0 | 7.6 |
| 5-6 | .0 | .6 | 4.0 | 1.2 | .0 | .0 | 5.8 |
| 7 | .0 | .0 | 2.4 | 1.2 | .1 | .0 | 3.6 |
| 8-9 | .0 | .0 | .9 | .6 | .1 | .0 | 1.5 |
| 10-11 | .0 | .0 | .7 | .3 | .0 | .0 | 1.0 |
| 12 | .0 | .0 | .0 | .2 | .3 | .0 | .5 |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .4 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 5.4 | 16.5 | 4.7 | .6 | .0 | 27.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .5 | .2 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .2 | .2 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 12 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 1.2 | .8 | .1 | .0 | .0 | 2.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .2 | .0 | .0 | .0 | .0 | .3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .8 | .1 | .0 | .0 | .0 | .9 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .2 | .1 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | .6 | .1 | .0 | .0 | .0 | 1.1 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | * | .8 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .3 | * | .0 | .0 | .0 | .3 |
| 5-6 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.3 | .3 | .1 | .0 | .0 | 1.7 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.0 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .2 | 2.0 | .9 | .0 | .0 | .0 | 3.1 |
| 3-4 | .0 | 1.4 | 1.4 | .2 | .0 | .0 | 2.9 |
| 5-6 | .1 | .4 | .8 | .1 | .0 | .0 | 1.4 |
| 7 | .0 | .1 | .4 | .4 | .0 | .0 | .9 |
| 8-9 | .0 | .1 | .1 | .2 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .1 | .1 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 4.9 | 3.7 | 1.0 | .1 | .0 | 10.1 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.3 | .1 | .0 | .0 | .0 | 1.7 | |
| 1-2 | .5 | 4.4 | 4.9 | .0 | .0 | .0 | 9.7 | |
| 3-4 | .2 | 3.8 | 12.3 | 2.4 | .0 | .0 | 18.6 | |
| 5-6 | .0 | 1.0 | 9.3 | 2.4 | .0 | .0 | 12.7 | |
| 7 | .0 | .4 | 3.2 | 2.3 | .2 | .0 | 6.1 | |
| 8-9 | .0 | .2 | 1.5 | 1.2 | .1 | .0 | 3.0 | |
| 10-11 | .0 | .0 | .7 | .7 | .1 | .0 | 1.4 | |
| 12 | .0 | .0 | .4 | .5 | .2 | .0 | 1.0 | |
| 13-16 | .0 | .0 | .1 | .1 | .4 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 10.9 | 32.4 | 9.8 | 1.1 | .0 | 55.2 | 98.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.2 | 3.9 | .1 | .0 | .0 | .0 | 6.2 | |
| 1-2 | 1.1 | 11.1 | 9.4 | .0 | .0 | .0 | 21.6 | |
| 3-4 | .2 | 7.3 | 19.2 | 3.6 | .0 | .0 | 30.2 | |
| 5-6 | .1 | 2.0 | 14.4 | 3.9 | .0 | .0 | 20.4 | |
| 7 | .0 | .4 | 6.1 | 4.0 | .3 | .0 | 10.8 | |
| 8-9 | .0 | .3 | 2.7 | 2.0 | .2 | .0 | 5.1 | |
| 10-11 | .0 | .1 | 1.4 | 1.1 | .1 | .0 | 2.7 | |
| 12 | .0 | .1 | .4 | .7 | .5 | .0 | 1.8 | |
| 13-16 | .0 | .0 | .1 | .4 | .5 | .0 | 1.0 | |
| 17-19 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 3.6 | 25.2 | 53.9 | 15.6 | 1.7 | .0 | 100.0 | 1125 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .7 | 8.1 | 15.1 | 6.2 | 3.5 | 1.4 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1047 | 4 |
| 6-7 | .1 | .9 | 6.2 | 7.0 | 6.4 | 3.9 | 2.4 | .9 | .5 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 832 | 6 |
| 8-9 | * | .5 | 4.3 | 4.5 | 4.3 | 2.2 | 2.0 | 1.0 | .5 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 582 | 7 |
| 10-11 | .0 | .5 | 1.4 | .9 | 2.0 | .7 | 1.0 | .8 | .7 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 243 | 8 |
| 12-13 | .0 | .0 | .4 | .3 | .4 | .3 | .4 | .3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 68 | 8 |
| >13 | .0 | .0 | .0 | .2 | .1 | .2 | .7 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 48 | 10 |
| INDET | 1.4 | .8 | .7 | .2 | .1 | .2 | .2 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 114 | 3 |
| TOTAL | 67 | 316 | 826 | 564 | 493 | 260 | 211 | 103 | 62 | 22 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2934 | 6 |
| PCT | 2.3 | 10.8 | 28.2 | 19.2 | 16.8 | 8.9 | 7.2 | 3.5 | 2.1 | .7 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .2 | .2 | 1.5 | .0 | .0 | .0 | .0 | 1.9 | .4 | .1 | 3.6 | .1 | 3.8 | .2 | | 89.9 |
| NE | .0 | .0 | 3.0 | .0 | .0 | .0 | .0 | 3.0 | .0 | .0 | 11.5 | .0 | 10.3 | .0 | | 75.2 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.8 | .0 | 20.2 | .0 | 7.1 | .0 | | 67.9 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 25.2 | .0 | 1.0 | .0 | | 73.8 |
| S | .0 | .0 | 2.7 | .0 | .0 | .0 | .0 | 2.7 | 5.4 | .0 | 6.1 | .0 | 7.4 | .0 | | 78.4 |
| SW | .0 | .0 | 2.2 | .0 | .0 | .0 | .0 | 2.2 | .3 | .0 | 10.2 | .0 | 4.8 | .0 | | 82.3 |
| W | .3 | .2 | 2.4 | .0 | .0 | .0 | .0 | 2.8 | .7 | .0 | 6.4 | .4 | 7.6 | .1 | | 82.0 |
| NW | .4 | .1 | 1.8 | .0 | .0 | .0 | .0 | 2.1 | .7 | .1 | 4.1 | .2 | 4.0 | .1 | | 88.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 21.3 | 2.1 | 4.3 | .0 | | 72.3 |
| TOT PCT | .3 | .2 | 1.8 | .0 | .0 | .0 | .0 | 2.1 | .7 | .1 | 4.9 | .2 | 4.6 | .1 | | 87.4 |
| TOT OBS: | 4345 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .1 | .2 | 1.4 | .0 | .0 | .0 | .0 | 1.6 | .3 | .0 | 4.1 | .1 | 5.1 | .1 | | 88.6 |
| 06&09 | .0 | .0 | 2.0 | .0 | .0 | .0 | .0 | 2.0 | .5 | .0 | 3.7 | .3 | 2.6 | .1 | | 90.8 |
| 12&15 | .9 | .3 | 3.4 | .0 | .0 | .0 | .0 | 4.1 | .8 | .1 | 4.7 | .0 | 4.5 | .3 | | 55.6 |
| 18&21 | .2 | .1 | .9 | .0 | .0 | .0 | .0 | 1.2 | 1.0 | .2 | 6.5 | .4 | 5.4 | .1 | | 85.3 |
| TOT PCT | .3 | .2 | 1.9 | .0 | .0 | .0 | .0 | 2.2 | .7 | .1 | 4.9 | .2 | .5 | .1 | | 87.3 |
| TOT OBS: | 4366 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .3 | 5.7 | 19.7 | 6.3 | .3 | .0 | | 28.3 | 16.7 | 29.4 | 27.0 | 28.7 | 28.0 | 26.6 | 29.0 | 31.7 | 22.8 |
| NE | .1 | .7 | .5 | .1 | .0 | .0 | | 1.4 | 10.9 | 1.4 | .7 | 2.0 | .2 | 1.3 | 1.7 | 1.1 | 1.7 |
| E | .1 | .1 | .2 | * | .0 | .0 | | .5 | 8.4 | .1 | .1 | .2 | .5 | .8 | .8 | .6 | .8 |
| SE | .1 | .3 | .1 | * | .0 | .0 | | .6 | 7.6 | .6 | .4 | .3 | .2 | .8 | .3 | 1.0 | .4 |
| S | .2 | .6 | .1 | .0 | .0 | .0 | | .8 | 5.8 | 1.0 | 1.1 | .3 | .9 | 1.2 | .7 | 1.0 | .4 |
| SW | .2 | 1.2 | .4 | * | .0 | .0 | | 1.8 | 7.8 | 2.2 | 1.5 | 2.1 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 |
| W | .9 | 6.2 | 5.3 | .7 | * | .0 | | 13.1 | 10.9 | 13.0 | 18.3 | 12.6 | 9.4 | 12.7 | 15.3 | 10.5 | 15.1 |
| NW | .5 | 11.6 | 29.2 | 10.5 | .6 | .0 | | 52.4 | 16.1 | 50.8 | 50.1 | 53.2 | 58.9 | 54.5 | 49.7 | 50.9 | 54.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.1 | | | | | | | 1.1 | .0 | 1.6 | .8 | .6 | .0 | .8 | 1.0 | 1.6 | 1.8 |
| TOT OBS | 168 | 1194 | 2932 | 801 | 40 | 0 | 4535 | | 15.0 | 825 | 367 | 678 | 218 | 728 | 415 | 851 | 493 |
| TOT PCT | 3.7 | 26.3 | 51.4 | 17.7 | .9 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 03 09 | 12 15 | 18 21 |
| N | 1.7 | 12.7 | 12.3 | 1.6 | .0 | | 28.3 | 16.7 | 28.6 | 28.5 | 27.4 | 28.6 |
| NE | .3 | .8 | .2 | * | .0 | | 1.4 | 10.9 | 1.2 | 1.6 | 1.3 | 1.3 |
| E | .2 | .2 | * | .0 | .0 | | .5 | 8.4 | .1 | .3 | .8 | .7 |
| SE | .3 | .2 | * | .0 | .0 | | .6 | 7.6 | .5 | .3 | .6 | .8 |
| S | .7 | .2 | * | .0 | .0 | | .8 | 5.8 | 1.0 | .5 | 1.0 | .8 |
| SW | .8 | .9 | .1 | .0 | .0 | | 1.8 | 7.8 | 2.0 | 2.0 | 1.4 | 1.7 |
| W | 3.3 | 7.7 | 1.9 | .1 | .0 | | 13.1 | 10.9 | 14.6 | 11.8 | 13.7 | 12.1 |
| NW | 3.6 | 25.5 | 20.8 | 2.5 | * | | 52.4 | 16.1 | 50.5 | 54.6 | 52.7 | 52.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.1 | | | | | | 1.1 | .0 | 1.3 | .4 | .9 | 1.7 |
| TOT OBS | 550 | 2187 | 1607 | 189 | 2 | 4535 | | 15.0 | 1192 | 896 | 1143 | 1304 |
| TOT PCT | 12.1 | 48.2 | 35.4 | 4.2 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JUNE

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 2.6 | 24.5 | 52.3 | 18.5 | .8 | .0 | 15.1 | 100.0 | 1192 |
| 06&09 | .4 | 1.2 | 24.3 | 53.8 | 19.0 | 1.2 | .0 | 15.8 | 100.0 | 896 |
| 12&15 | .9 | 2.2 | 28.0 | 50.7 | 17.3 | .9 | .0 | 14.9 | 100.0 | 1143 |
| 18&21 | 1.7 | 3.8 | 27.9 | 49.5 | 16.3 | .8 | .0 | 14.4 | 100.0 | 1304 |
| TOT | 92 | 116 | 1194 | 2332 | 801 | 40 | 0 | 15.0 | | 4535 |
| PCT | 1.1 | 2.6 | 26.3 | 51.4 | 17.7 | .9 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 6.7 | 2.5 | 8.0 | 14.5 | | 5.6 |
| NE | .1 | .1 | .3 | .9 | | 6.6 |
| E | * | .0 | .1 | .3 | | 7.2 |
| SE | .1 | * | .2 | .4 | | 6.3 |
| S | * | .1 | .3 | .4 | | 6.4 |
| SW | .4 | .2 | .3 | .8 | | 5.5 |
| W | 2.1 | .5 | 1.9 | 6.3 | | 6.1 |
| NW | 12.0 | 3.4 | 11.0 | 25.0 | | 5.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .1 | .0 | .2 | .8 | | 7.2 |
| TOT OBS | 657 | 207 | 680 | 1509 | 3053 | 5.7 |
| TOT PCT | 21.5 | 6.8 | 22.3 | 49.4 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .2 | .8 | 3.3 | 8.3 | 7.0 | 1.5 | .1 | .1 | .0 | 10.1 | |
| NE | * | .0 | .1 | .2 | .4 | .4 | * | * | .0 | .0 | .3 | |
| E | * | .0 | .0 | .1 | .3 | * | .0 | * | .0 | .0 | * | |
| SE | * | .0 | .0 | .1 | .2 | .1 | .0 | * | * | .0 | .2 | |
| S | .0 | .0 | .1 | .2 | .2 | .1 | * | .0 | * | * | .3 | |
| SW | .0 | .0 | * | .2 | .4 | .3 | * | .0 | * | .0 | .6 | |
| W | .3 | * | .4 | 1.1 | 2.8 | 2.1 | .9 | * | * | .0 | 3.1 | |
| NW | .7 | .3 | 1.8 | 6.4 | 15.5 | 7.5 | 2.0 | .5 | .1 | * | 16.6 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | * | .0 | .1 | .3 | .2 | .1 | .1 | .0 | * | .0 | .2 | |
| TOT OBS | 41 | 15 | 97 | 369 | 860 | 540 | 140 | 23 | 10 | 2 | 960 | 3053 |
| TOT PCT | 1.3 | .5 | 3.2 | 12.0 | 28.2 | 17.7 | 4.6 | .8 | .3 | .1 | 31.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .2 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| * OR >5000 | .8 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >3500 | 4.4 | 5.6 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| * OR >2000 | 18.6 | 23.0 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 |
| * OR >1000 | 38.1 | 50.3 | 51.5 | 51.5 | 51.6 | 51.6 | 51.6 | 51.6 |
| * OR >600 | 45.8 | 61.9 | 63.4 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 |
| * OR >300 | 47.1 | 64.4 | 66.4 | 66.5 | 66.7 | 66.7 | 66.7 | 66.7 |
| * OR >150 | 47.3 | 64.8 | 66.9 | 67.0 | 67.2 | 67.2 | 67.2 | 67.2 |
| * OR > 0 | 47.5 | 65.3 | 67.6 | 67.9 | 68.2 | 68.3 | 68.4 | 68.5 |
| TOTAL | 1454 | 1998 | 2070 | 2078 | 2087 | 2091 | 2094 | 2097 |

TOTAL NUMBER OF OBS: 3062 PCT FREQ NH <5/8: 31.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 19.3 | 5.1 | 5.4 | 4.1 | 3.5 | 3.9 | 7.7 | 10.4 | 45.5 | 1.1 | 3168 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | |
| | NO PCP | * | .0 | * | * | * | .1 | .1 | .2 | .0 | * | .4 | |
| | TOT % | * | * | * | * | * | .1 | .1 | .2 | .0 | * | .4 | |
| 1/2<1 | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .3 | * | .0 | .0 | .0 | * | * | .4 | .0 | .0 | .8 | |
| | TOT % | .3 | * | .0 | .0 | .0 | * | * | .4 | .0 | .0 | .8 | |
| 1<2 | PCP | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| | NO PCP | * | .1 | .0 | * | * | * | .1 | .3 | .0 | .0 | .6 | |
| | TOT % | .1 | .1 | .0 | * | * | * | .2 | .4 | .0 | .0 | .7 | |
| 2<5 | PCP | .1 | * | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | .4 | |
| | NO PCP | .7 | .1 | .1 | .1 | * | .1 | 1.0 | 2.2 | .0 | .3 | 4.6 | |
| | TOT % | .9 | .1 | .1 | .1 | * | .1 | 1.1 | 2.3 | .0 | .3 | 5.0 | |
| 5<10 | PCP | .3 | .0 | .0 | .0 | * | * | .2 | .8 | .0 | .0 | 1.3 | |
| | NO PCP | 6.9 | .4 | .2 | .1 | .2 | .6 | 3.8 | 14.3 | .0 | .3 | 26.8 | |
| | TOT % | 7.2 | .4 | .2 | .1 | .3 | .6 | 4.0 | 15.0 | .0 | .3 | 28.0 | |
| 10+ | PCP | * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| | NO PCP | 19.8 | .7 | .2 | .4 | .5 | 1.0 | 7.7 | 34.0 | .0 | .6 | 64.8 | |
| | TOT % | 19.9 | .7 | .2 | .4 | .5 | 1.0 | 7.7 | 34.1 | .0 | .6 | 65.0 | |
| | TOT OBS | | | | | | | | | | | | 4339 |
| | TOT PCT | 28.4 | 1.3 | .5 | .6 | .9 | 1.8 | 13.1 | 52.4 | .0 | 1.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | * | .1 | |
| | 4-10 | * | * | * | * | * | * | .1 | .1 | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | * | * | * | * | * | .1 | .1 | .2 | .0 | * | .6 | |
| 1/2<1 | 0-3 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | |
| | 4-10 | .1 | * | .0 | .0 | .0 | .0 | .1 | .2 | .0 | | .3 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | * | * | .3 | .0 | | .5 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .3 | * | .0 | .0 | .0 | * | .1 | .5 | .0 | .0 | .9 | |
| 1<2 | 0-3 | * | * | .0 | .0 | * | * | * | * | .0 | .0 | .1 | |
| | 4-10 | * | * | .0 | .0 | .0 | * | .2 | .3 | .0 | | .6 | |
| | 11-21 | .1 | .0 | .0 | * | * | .0 | .1 | .3 | .0 | | .5 | |
| | 22+ | * | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .2 | .1 | .0 | * | * | * | .3 | .7 | .0 | .0 | 1.3 | |
| 2<5 | 0-3 | .1 | * | .1 | * | * | * | .2 | .1 | .0 | .3 | .7 | |
| | 4-10 | .3 | .1 | * | * | * | .1 | .7 | .9 | .0 | | 2.2 | |
| | 11-21 | .4 | * | .0 | .0 | .0 | * | .3 | 1.2 | .0 | | 1.9 | |
| | 22+ | .2 | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | | .4 | |
| | TOT % | .9 | .2 | .1 | .1 | * | .1 | 1.1 | 2.4 | .0 | .3 | 5.3 | |
| 5<10 | 0-3 | .1 | * | .1 | * | * | .1 | .3 | .1 | .0 | .2 | 1.1 | |
| | 4-10 | 1.7 | .1 | .1 | .1 | .2 | .4 | 1.6 | 3.2 | .0 | | 7.3 | |
| | 11-21 | 3.6 | .2 | .1 | .0 | .0 | .1 | 1.8 | 8.2 | .0 | | 13.9 | |
| | 22+ | 1.8 | * | * | .0 | .0 | .0 | .2 | 3.2 | .0 | | 5.3 | |
| | TOT % | 7.2 | .4 | .2 | .1 | .2 | .6 | 3.9 | 14.7 | .0 | .2 | 27.5 | |
| 10+ | 0-3 | .1 | * | * | .1 | .1 | .1 | .4 | .3 | .0 | .6 | 1.7 | |
| | 4-10 | 3.6 | .4 | .1 | .2 | .3 | .7 | 3.6 | 6.9 | .0 | | 15.7 | |
| | 11-21 | 11.3 | .3 | .1 | .1 | .1 | .2 | 3.0 | 18.9 | .0 | | 34.1 | |
| | 22+ | 4.8 | .0 | .0 | * | .0 | * | .5 | 7.6 | .0 | | 12.9 | |
| | TOT % | 19.8 | .7 | .2 | .4 | .5 | 1.0 | 7.6 | 33.7 | .0 | .6 | 64.4 | |
| | TOT OBS | | | | | | | | | | | | 4453 |
| | TOT PCT | 28.4 | 1.4 | .5 | .6 | .9 | 1.8 | 13.1 | 52.2 | .0 | 1.1 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | .9 | 3.1 | 11.5 | 25.6 | 17.5 | 5.5 | .7 | .2 | .1 | 66.0 | 34.0 | 806 |
| 06&09 | 1.3 | .3 | 3.6 | 9.6 | 26.0 | 17.1 | 2.4 | .1 | .4 | .0 | 61.0 | 39.0 | 695 |
| 12&15 | 1.9 | .5 | 2.4 | 11.3 | 30.6 | 17.1 | 3.9 | .8 | .4 | .1 | 69.2 | 30.8 | 736 |
| 18&21 | 1.4 | .2 | 3.6 | 14.2 | 29.5 | 18.0 | 5.8 | 1.2 | .2 | .0 | 74.0 | 26.0 | 862 |
| TOT | 42 | 15 | 99 | 365 | 866 | 541 | 140 | 23 | 10 | 2 | 2103 | 996 | 3099 |
| PCT | 1.4 | .5 | 3.2 | 11.8 | 27.9 | 17.5 | 4.5 | .7 | .3 | .1 | 67.9 | 32.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .3 | 1.1 | 1.3 | 5.8 | 26.7 | 64.7 | 1186 |
| 06&09 | .4 | .8 | .4 | 3.3 | 25.7 | 69.3 | 890 |
| 12&15 | .8 | 1.1 | 2.3 | 5.9 | 28.9 | 61.0 | 1128 |
| 18&21 | .7 | .7 | .9 | 5.9 | 28.2 | 63.5 | 1271 |
| TOT | 26 | 41 | 58 | 240 | 1231 | 2879 | 4475 |
| PCT | .6 | .9 | 1.3 | 5.4 | 27.5 | 64.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .6 | 4.8 | 18.5 | 48.5 | 33.0 | 794 |
| 06&09 | 1.3 | 5.4 | 18.7 | 45.9 | 37.4 | 688 |
| 12&15 | 1.9 | 5.2 | 19.0 | 51.6 | 29.4 | 732 |
| 18&21 | 1.3 | 5.2 | 20.8 | 54.5 | 24.8 | 848 |
| TOT | 39 | 157 | 577 | 1541 | 944 | 3062 |
| PCT | 1.3 | 5.1 | 18.8 | 50.3 | 30.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | * |
| 70/74 | .0 | .0 | .0 | .1 | .2 | .2 | .3 | .0 | 27 | .8 |
| 65/69 | .0 | .0 | .0 | .2 | 1.1 | 2.9 | 2.7 | .6 | 267 | 7.5 |
| 60/64 | .0 | .0 | .1 | .3 | 2.9 | 15.0 | 21.3 | 8.3 | 1708 | 47.8 |
| 55/59 | .0 | .0 | .0 | .1 | .6 | 7.6 | 22.2 | 12.2 | 1524 | 42.7 |
| 50/54 | .0 | .0 | .0 | .0 | * | .1 | .3 | .8 | 43 | 1.2 |
| TOTAL | 0 | 0 | 2 | 25 | 171 | 918 | 1674 | 780 | 3570 | 100.0 |
| PCT | .0 | .0 | .1 | .7 | 4.8 | 25.7 | 46.9 | 21.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 |
| .2 | .1 | .0 | * | * | * | .1 | .2 | .0 | * |
| 2.2 | .2 | * | .1 | .1 | .4 | 1.1 | 3.2 | .0 | .2 |
| 14.1 | .5 | .3 | .4 | .6 | .8 | 6.9 | 23.5 | .0 | .7 |
| 9.8 | .6 | .1 | .1 | .3 | .6 | 5.5 | 25.4 | .0 | .3 |
| .1 | * | * | .0 | * | .0 | .2 | .8 | .0 | * |
| 26.4 | 1.3 | .5 | .7 | .9 | 1.8 | 13.9 | 53.2 | .0 | 1.2 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 75 | 71 | 67 | 61 | 57 | 55 | 48 | 61.4 | 1195 |
| 06&09 | 68 | 65 | 63 | 59 | 55 | 54 | 46 | 59.2 | 898 |
| 12&15 | 70 | 66 | 63 | 59 | 55 | 53 | 50 | 58.7 | 1146 |
| 18&21 | 74 | 70 | 67 | 61 | 56 | 54 | 52 | 61.0 | 1302 |
| TOT | 75 | 69 | 66 | 60 | 56 | 54 | 46 | 60.2 | 4541 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .7 | 7.4 | 31.9 | 44.4 | 15.6 | 82 | 947 |
| 06&09 | .0 | .1 | 1.7 | 20.0 | 51.1 | 27.1 | 86 | 701 |
| 12&15 | .0 | .8 | 2.0 | 17.8 | 48.2 | 31.2 | 86 | 906 |
| 18&21 | .0 | 1.2 | 7.0 | 30.9 | 49.1 | 11.9 | 82 | 1033 |
| TOT | 0 | 27 | 172 | 922 | 1681 | 785 | 84 | 3587 |

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 43 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/13 | .0 | .0 | .0 | .0 | * | .1 | .1 | .1 | 10 | * | .3 |
| 9/10 | .0 | .0 | .0 | .2 | .2 | .3 | .1 | .0 | 30 | .0 | .9 |
| 7/8 | .0 | .0 | .0 | .4 | .4 | .9 | .2 | .0 | 77 | .1 | 1.9 |
| 6 | .0 | .0 | .0 | .5 | .7 | .5 | .2 | .0 | 73 | .1 | 1.7 |
| 5 | .0 | .0 | .1 | .6 | .8 | 1.0 | .2 | * | 107 | .2 | 2.5 |
| 4 | .0 | .0 | .1 | 1.0 | 2.5 | .6 | .1 | * | 167 | .2 | 4.0 |
| 3 | .0 | .0 | .1 | 1.3 | 2.6 | .7 | .2 | * | 199 | .2 | 4.8 |
| 2 | .0 | .0 | .5 | 2.6 | 4.3 | .9 | .2 | .0 | 338 | .4 | 8.1 |
| 1 | .0 | .0 | .5 | 3.6 | 4.5 | .8 | .2 | .0 | 376 | .4 | 9.1 |
| 0 | .0 | * | 1.1 | 8.8 | 4.2 | .5 | * | .0 | 579 | .6 | 14.0 |
| -1 | .0 | .0 | 1.4 | 6.7 | 3.8 | .4 | .0 | .0 | 488 | .6 | 11.5 |
| -2 | .0 | .0 | 1.4 | 7.4 | 3.0 | .3 | .1 | .0 | 484 | .7 | 11.5 |
| -3 | .0 | * | .9 | 5.5 | 2.2 | .4 | .0 | .0 | 395 | .5 | 9.5 |
| -4 | .0 | * | 1.1 | 4.9 | 1.3 | .1 | * | .0 | 295 | .6 | 6.8 |
| -5 | .0 | .1 | .7 | 2.3 | .7 | .1 | .0 | .0 | 154 | .1 | 3.8 |
| -6 | .0 | .1 | .6 | 1.3 | .6 | .1 | .0 | .0 | 102 | .1 | 2.5 |
| -7/-8 | * | .1 | .5 | 1.0 | .8 | .0 | .0 | .0 | 98 | * | 2.4 |
| -9/-10 | * | * | .1 | .4 | .2 | .0 | .0 | .0 | 30 | * | .7 |
| -11/-13 | .0 | .0 | * | .2 | * | .0 | .0 | .0 | 10 | .0 | .3 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 2 | | 365 | | 1296 | | 60 | | | 190 | 3778 |
| | | 13 | | 1927 | | 300 | | 5 | 3968 | | |
| PCT | .1 | .3 | 9.2 | 48.6 | 32.7 | 7.6 | 1.5 | .1 | 100.0 | 4.8 | 95.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .2 | 2.8 | 1.0 | .0 | .0 | .0 | 3.9 |
| 3-4 | .1 | 1.8 | 6.0 | .6 | .0 | .0 | 8.6 |
| 5-6 | .0 | .6 | 4.6 | 1.4 | .1 | .0 | 6.7 |
| 7 | .0 | .2 | 1.7 | 1.5 | .3 | .0 | 3.7 |
| 8-9 | .0 | .0 | 1.0 | 1.1 | .0 | .0 | 2.2 |
| 10-11 | .0 | .0 | .2 | .3 | .0 | .0 | .5 |
| 12 | .0 | .0 | .0 | .7 | .0 | .0 | .7 |
| 13-16 | .0 | .0 | .1 | .1 | .1 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 5.8 | 14.5 | 5.8 | .4 | .0 | 26.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .4 | .1 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | .2 | * | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.0 | .3 | .1 | .0 | .0 | 1.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .4 | .1 | .0 | .0 | .7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .0 | * | .0 | .0 | .0 | * |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .4 | * | .0 | .0 | .0 | .6 |

PERIOD: (OVER-ALL) 1963-1979

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TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .2 | .1 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .5 | .0 | .0 | .0 | .0 | .6 | .1 | .5 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | * | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .7 | .1 | .0 | .0 | .0 | .9 | .2 | 1.0 | .4 | .0 | .0 | .0 | 1.7 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .8 | 1.3 | .1 | .0 | .0 | .0 | 2.2 | .2 | 1.1 | .1 | .0 | .0 | .0 | 1.4 | |
| 1-2 | .5 | 2.3 | 1.1 | .0 | .0 | .0 | 3.9 | .3 | 5.8 | 4.9 | .0 | .0 | .0 | 11.1 | |
| 3-4 | .0 | .9 | 1.1 | .1 | .0 | .0 | 2.2 | .2 | 3.9 | 11.0 | 1.3 | .0 | .0 | 16.3 | |
| 5-6 | .1 | .0 | .6 | .2 | .0 | .0 | .9 | .0 | 1.3 | 8.2 | 3.3 | * | .0 | 12.9 | |
| 7 | .0 | .0 | .2 | .2 | .0 | .0 | .3 | .0 | .5 | 4.5 | 2.4 | .4 | .0 | 7.8 | |
| 8-9 | .0 | .0 | .1 | .2 | .0 | .0 | .4 | .0 | .0 | 1.5 | 2.4 | .2 | .0 | 4.1 | |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .7 | .6 | .3 | .0 | 1.5 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .6 | .0 | .0 | .9 | |
| 13-15 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .3 | .1 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.4 | 4.5 | 3.2 | .8 | .0 | .0 | 9.9 | .7 | 12.6 | 31.4 | 10.9 | 1.0 | .0 | 56.6 | 98.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.6 | 3.7 | .2 | .0 | .0 | .0 | 6.4 | |
| 1-2 | 1.4 | 12.6 | 7.3 | .0 | .0 | .0 | 21.3 | |
| 3-4 | .3 | 7.1 | 18.7 | 2.0 | .0 | .0 | 28.0 | |
| 5-6 | .1 | 2.1 | 13.6 | 4.9 | .1 | .0 | 20.9 | |
| 7 | .0 | .7 | 6.5 | 4.1 | .6 | .0 | 12.0 | |
| 8-9 | .0 | .0 | 2.7 | 3.8 | .2 | .0 | 6.8 | |
| 10-11 | .0 | .0 | .8 | 1.0 | .3 | .0 | 2.1 | |
| 12 | .0 | .0 | .3 | 1.4 | .0 | .0 | 1.6 | |
| 13-16 | .0 | .0 | .3 | .4 | .2 | .0 | .8 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1092 |
| TOT PCT | 4.3 | 26.2 | 50.5 | 17.7 | 1.4 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.0 | 9.2 | 14.0 | 6.2 | 4.0 | 1.7 | .9 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1000 | 4 |
| 6-7 | .1 | .7 | 7.4 | 7.7 | 5.5 | 3.6 | 1.4 | .8 | .6 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 749 | 6 |
| 8-9 | .1 | .4 | 7.4 | 4.2 | 4.6 | 2.9 | 1.8 | 1.2 | .8 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 629 | 6 |
| 10-11 | .0 | .3 | .9 | 1.0 | 1.3 | 1.1 | .7 | .5 | .9 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 184 | 8 |
| 12-13 | .0 | .0 | .1 | .1 | .2 | .8 | .3 | .1 | .3 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 39 | 9 |
| >13 | .0 | .0 | .0 | * | .1 | .1 | * | .1 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14 | 10 |
| INDET | .5 | .3 | .4 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 47 | 3 |
| TOTAL | 45 | 295 | 809 | 525 | 423 | 276 | 137 | 78 | 77 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2680 | 5 |
| PCT | 1.7 | 11.0 | 30.2 | 19.6 | 15.8 | 10.3 | 5.1 | 2.9 | 2.9 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SW
32.4N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | .3 | 1.9 | .0 | .0 | .0 | .0 | 2.5 | .6 | .0 | 3.4 | .1 | 2.1 | * | | 91.3 |
| NE | .0 | .0 | .8 | .0 | .0 | .0 | .0 | .8 | .0 | .0 | 4.4 | .0 | 5.7 | .0 | | 89.1 |
| E | .0 | .0 | 3.6 | .0 | .0 | .0 | .0 | 3.6 | .0 | .0 | 7.1 | .0 | 4.1 | .0 | | 85.2 |
| SE | 6.3 | .0 | 6.3 | .0 | .0 | .0 | .0 | 6.3 | .0 | .0 | 9.5 | .0 | .0 | .0 | | 84.1 |
| S | .0 | .0 | 2.8 | .0 | .0 | .0 | .0 | 2.8 | .0 | .0 | 4.2 | .0 | 13.2 | .0 | | 79.9 |
| SW | .0 | .0 | 1.6 | .0 | .0 | .0 | .0 | 1.6 | 1.6 | .8 | 5.1 | .4 | 17.6 | .0 | | 72.9 |
| W | .7 | .0 | 1.9 | .0 | .0 | .0 | .0 | 2.1 | .0 | .1 | 7.4 | .5 | 7.6 | .0 | | 82.2 |
| NW | .3 | .1 | 1.5 | .0 | .0 | .0 | .0 | 1.9 | .6 | * | 4.1 | .1 | 4.9 | .1 | | 88.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.9 | .0 | 7.5 | .0 | 9.7 | .0 | | 84.9 |
| TOT PCT | .4 | .2 | 1.7 | .0 | .0 | .0 | .0 | 2.1 | .5 | * | 4.3 | .2 | 4.3 | .1 | | 88.5 |
| TOT OBS: 4583 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .2 | .8 | .0 | .0 | .0 | .0 | 1.2 | .3 | .1 | 4.0 | .0 | 5.5 | .2 | | 88.9 |
| 06&09 | .3 | .4 | 1.9 | .0 | .0 | .0 | .0 | 2.5 | .8 | .1 | 4.1 | .0 | 3.6 | .0 | | 89.0 |
| 12&15 | .7 | .1 | 2.7 | .0 | .0 | .0 | .0 | 3.3 | .9 | .0 | 3.2 | .4 | 4.4 | .1 | | 85.8 |
| 18&21 | .2 | .1 | 1.4 | .0 | .0 | .0 | .0 | 1.6 | .3 | .0 | 4.0 | .2 | 3.7 | .0 | | 90.3 |
| TOT PCT | .4 | .2 | 1.7 | .0 | .0 | .0 | .0 | 2.1 | .5 | * | 4.3 | .2 | 4.3 | .1 | | 88.5 |
| TOT OBS: 4603 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 8.5 | 18.2 | 5.3 | .1 | .0 | | 32.5 | 15.2 | 37.6 | 23.6 | 34.5 | 30.4 | 30.0 | 26.1 | 35.8 | 31.1 |
| NE | .2 | 1.0 | .9 | .1 | .0 | .0 | | 2.1 | 10.7 | 2.1 | 2.1 | 2.0 | 1.8 | 2.1 | 1.3 | 2.7 | 2.0 |
| E | .2 | .6 | .1 | * | .0 | .0 | | .9 | 6.8 | .5 | .1 | 1.2 | .5 | 1.2 | 1.3 | 1.0 | 1.1 |
| SE | .2 | .4 | .1 | .0 | .0 | .0 | | .7 | 5.7 | .5 | .5 | .5 | .0 | .9 | .5 | .8 | 1.4 |
| S | .2 | .5 | .1 | .0 | .0 | .0 | | .8 | 5.7 | .6 | .4 | .4 | .0 | 1.0 | 1.3 | 1.3 | 1.2 |
| SW | .1 | 1.1 | .2 | * | .0 | .0 | | 1.4 | 6.9 | 2.0 | 1.5 | .7 | .9 | 1.5 | 1.3 | 1.5 | 1.2 |
| W | .6 | 5.2 | 3.8 | .4 | .0 | .0 | | 10.1 | 10.5 | 7.6 | 13.8 | 10.5 | 10.6 | 11.4 | 13.1 | 7.9 | 9.4 |
| NW | .9 | 14.1 | 28.1 | 7.4 | .1 | .0 | | 50.5 | 14.7 | 48.2 | 57.0 | 49.0 | 55.2 | 49.8 | 54.8 | 47.8 | 51.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.2 | | | | | | | 1.2 | .0 | .9 | .8 | 1.2 | .7 | 2.1 | .3 | 1.3 | 1.0 |
| TOT OBS | 189 | 1498 | 2454 | 632 | 8 | 0 | 4781 | | 13.9 | 863 | 366 | 776 | 285 | 824 | 394 | 856 | 417 |
| TOT PCT | 4.0 | 31.3 | 51.3 | 13.2 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 | |
| N | 3.0 | 16.0 | 12.6 | .9 | .0 | | 32.5 | 15.2 | 33.4 | 33.4 | 28.8 | 34.2 | |
| NE | .6 | 1.2 | .3 | * | .0 | | 2.1 | 10.7 | 2.1 | 1.9 | 1.8 | 2.5 | |
| E | .5 | .4 | * | .0 | .0 | | .9 | 6.8 | .4 | 1.0 | 1.2 | 1.0 | |
| SE | .4 | .3 | .0 | .0 | .0 | | .7 | 5.7 | .5 | .3 | .8 | 1.0 | |
| S | .5 | .3 | * | .0 | .0 | | .8 | 5.7 | .5 | .3 | 1.1 | 1.2 | |
| SW | .7 | .6 | * | * | .0 | | 1.4 | 6.9 | 1.9 | .8 | 1.7 | 1.4 | |
| W | 2.9 | 5.8 | 1.3 | .1 | .0 | | 10.1 | 10.5 | 9.4 | 10.5 | 12.0 | 8.4 | |
| NW | 4.8 | 26.7 | 17.8 | 1.2 | .0 | | 50.5 | 14.7 | 50.8 | 50.7 | 51.4 | 49.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | 1.2 | | | | | | 1.2 | .0 | .9 | 1.0 | 1.5 | 1.2 | |
| TOT OBS | 694 | 2451 | 1532 | 104 | 0 | 4781 | | 13.9 | 1229 | 1061 | 1218 | 1273 | |
| TOT PCT | 14.5 | 51.3 | 32.0 | 2.2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SH
32.0N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | 2.1 | 28.4 | 54.8 | 13.6 | .2 | .0 | 14.4 | 100.0 | 1229 |
| 06&09 | 1.0 | 1.4 | 28.8 | 53.8 | 14.7 | .2 | .0 | 14.4 | 100.0 | 1061 |
| 12&15 | 1.5 | 3.5 | 34.3 | 47.0 | 13.5 | .1 | .0 | 13.5 | 100.0 | 1218 |
| 18&21 | 1.2 | 3.0 | 33.4 | 50.0 | 11.3 | .2 | .0 | 13.3 | 100.0 | 1273 |
| TOT | 95 | 194 | 1498 | 2454 | 632 | 8 | 0 | 13.9 | | 4781 |
| PCT | 1.2 | 2.8 | 31.3 | 51.3 | 13.2 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 5.3 | 1.7 | 6.9 | 21.4 | | 6.3 |
| NE | .2 | .1 | .4 | 1.4 | | 6.9 |
| E | .1 | • | .3 | .6 | | 6.5 |
| SE | .2 | .0 | .1 | .3 | | 5.4 |
| S | .1 | • | .1 | .4 | | 6.5 |
| SW | .1 | • | .1 | .8 | | 6.7 |
| W | 1.0 | .4 | 1.2 | 5.6 | | 6.6 |
| NW | 8.4 | 2.1 | 8.3 | 31.0 | | 6.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .2 | .1 | .1 | .8 | | 6.0 |
| TOT OBS | 352 | 158 | 616 | 2179 | 3305 | 6.3 |
| TOT PCT | 15.7 | 4.5 | 17.6 | 62.2 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .6 | .2 | .9 | 4.3 | 13.6 | 6.9 | .9 | .2 | • | • | 7.7 | |
| NE | .0 | .0 | .2 | .2 | .8 | .6 | • | .0 | .0 | .0 | .9 | |
| E | .0 | .0 | • | .1 | .5 | .3 | .0 | .0 | .0 | .0 | .2 | |
| SE | .0 | .0 | .1 | • | .2 | .1 | .0 | .0 | .0 | .0 | .2 | |
| S | .0 | .0 | • | • | .5 | .1 | .0 | .0 | .0 | .0 | .1 | |
| SW | .0 | .0 | • | .2 | .5 | .2 | .0 | .0 | .0 | .0 | .2 | |
| W | .2 | .1 | .4 | 1.9 | 2.3 | 1.3 | .3 | • | • | .1 | 1.7 | |
| NW | 1.0 | .3 | 2.1 | 6.6 | 17.3 | 9.5 | 1.2 | .1 | .2 | .1 | 11.5 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | • | .2 | .2 | .3 | .0 | .0 | .0 | .0 | .4 | |
| TOT OBS | 64 | 20 | 129 | 476 | 1246 | 673 | 84 | 11 | 11 | 5 | 786 | 3305 |
| TOT PCT | 1.8 | .6 | 3.7 | 13.6 | 35.5 | 19.2 | 2.4 | .3 | .3 | .1 | 22.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) • OR >10 | • OR >5 | • OR >2 | • OR >1 | • OR >1/2 | • OR >1/4 | • OR >50YD | • OR >0 |
|---|---|---|---|---|---|---|---|---|
| • OR >8500 | .3 | .5 | .5 | .5 | .5 | .5 | .5 | .5 |
| • OR >9000 | .5 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| • OR >3500 | 2.4 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| • OR >2000 | 18.2 | 22.0 | 22.3 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 |
| • OR >1000 | 43.6 | 57.0 | 57.8 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 |
| • OR >600 | 50.5 | 69.8 | 71.2 | 71.4 | 71.5 | 71.5 | 71.5 | 71.5 |
| • OR >300 | 51.6 | 72.7 | 74.7 | 75.0 | 75.0 | 75.1 | 75.2 | 75.2 |
| • OR >150 | 51.7 | 73.1 | 75.1 | 75.4 | 75.5 | 75.6 | 75.7 | 75.8 |
| • OR > 0 | 92.0 | 73.7 | 75.9 | 76.4 | 76.7 | 77.0 | 77.4 | 77.5 |
| TOTAL | 1828 | 2592 | 2808 | 2804 | 2896 | 2705 | 2720 | 2725 |

TOTAL NUMBER OF OBS: 3515 PCT FREQ NM <5/8: 22.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 9.9 | 2.8 | 4.6 | 3.0 | 1.9 | 2.6 | 6.6 | 9.7 | 58.1 | 1.2 | 3681 |

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .0 | .0 | .7 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .5 | .0 | .0 | .8 | |
| 1/2<1 | PCP | .0 | .0 | * | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| | NO PCP | * | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | * | .3 | |
| | TOT % | * | .0 | * | .0 | .0 | .0 | .1 | .2 | .0 | * | .4 | |
| 1<2 | PCP | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| | NO PCP | .1 | * | .0 | .0 | .0 | .0 | .1 | .3 | .0 | * | .5 | |
| | TOT % | .1 | * | .0 | .0 | .0 | .0 | .1 | .3 | .0 | * | .6 | |
| 2<5 | PCP | .1 | .0 | .0 | * | * | .0 | * | .2 | .0 | .0 | .4 | |
| | NO PCP | .6 | .2 | * | * | .1 | * | .5 | 1.6 | .0 | .1 | 3.2 | |
| | TOT % | .7 | .2 | * | .1 | .1 | * | .6 | 1.8 | .0 | .1 | 3.6 | |
| 5<10 | PCP | .5 | * | * | .0 | .0 | .0 | .1 | .4 | .0 | .0 | 1.1 | |
| | NO PCP | 7.3 | .6 | .2 | .2 | .4 | .7 | 4.1 | 14.3 | .0 | .2 | 28.0 | |
| | TOT % | 7.8 | .6 | .2 | .2 | .4 | .7 | 4.2 | 14.7 | .0 | .2 | 29.1 | |
| 10+ | PCP | .2 | * | .0 | .0 | .0 | * | .0 | .1 | .0 | .0 | .4 | |
| | NO PCP | 23.8 | 1.3 | .6 | .4 | .3 | .6 | 4.9 | 32.4 | .0 | .9 | 65.2 | |
| | TOT % | 24.1 | 1.3 | .6 | .4 | .3 | .6 | 4.9 | 32.6 | .0 | .9 | 65.6 | |
| | TOT OBS | | | | | | | | | | | | 4582 |
| | TOT PCT | 32.8 | 2.1 | .9 | .7 | .8 | 1.4 | 10.0 | 50.1 | .0 | 1.2 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| | 4-10 | * | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | | .4 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .5 | .0 | .0 | .8 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| | 4-10 | * | .0 | * | .0 | * | * | * | .2 | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | * | .0 | * | * | .1 | .3 | .0 | * | .6 | |
| 1<2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .1 | |
| | 4-10 | .1 | .1 | .0 | .0 | * | .0 | .1 | .2 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .1 | .1 | .0 | .0 | * | .0 | .1 | .6 | .0 | * | .9 | |
| 2<5 | 0-3 | * | .0 | * | * | .1 | * | * | .1 | .0 | .1 | .4 | |
| | 4-10 | .2 | .1 | .0 | * | * | * | .4 | .6 | .0 | | 1.4 | |
| | 11-21 | .5 | * | .0 | .0 | * | .0 | .1 | 1.2 | .0 | | 1.9 | |
| | 22+ | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | | .2 | |
| | TOT % | .7 | .2 | * | .1 | .1 | * | .6 | 2.0 | .0 | .1 | 3.8 | |
| 5<10 | 0-3 | .1 | * | * | .1 | * | * | .3 | .3 | .0 | .1 | 1.0 | |
| | 4-10 | 2.2 | .2 | .1 | .1 | .3 | .6 | 2.4 | 3.7 | .0 | | 9.7 | |
| | 11-21 | 4.1 | .3 | * | .1 | * | .1 | 1.4 | 8.3 | .0 | | 14.3 | |
| | 22+ | 1.4 | * | * | .0 | .0 | .0 | .1 | 2.2 | .0 | | 3.7 | |
| | TOT % | 7.7 | .6 | .2 | .2 | .4 | .7 | 4.2 | 14.5 | .0 | .1 | 28.7 | |
| 10+ | 0-3 | .3 | .1 | .2 | .1 | .1 | .1 | .2 | .4 | .0 | .9 | 2.3 | |
| | 4-10 | 6.0 | .6 | .4 | .2 | .2 | .4 | 2.1 | 9.0 | .0 | | 18.9 | |
| | 11-21 | 13.6 | .5 | .1 | * | .0 | .1 | 2.1 | 17.9 | .0 | | 34.4 | |
| | 22+ | 4.0 | .1 | .0 | .0 | .0 | * | .3 | 5.1 | .0 | | 9.5 | |
| | TOT % | 23.8 | 1.3 | .6 | .4 | .3 | .6 | 4.8 | 32.4 | .0 | .9 | 65.1 | |
| | TOT OBS | | | | | | | | | | | | 4696 |
| | TOT PCT | 32.6 | 2.1 | .9 | .7 | .8 | 1.4 | 10.1 | 50.4 | .0 | 1.1 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.4 | .2 | 4.0 | 13.5 | 36.0 | 20.4 | 2.6 | .2 | .3 | .2 | 78.9 | 21.1 | 909 |
| 06&09 | 2.7 | .4 | 3.2 | 12.6 | 33.2 | 18.0 | 2.2 | .1 | .4 | .1 | 72.8 | 27.2 | 850 |
| 12&15 | 2.4 | .8 | 3.6 | 14.7 | 36.0 | 17.6 | 1.7 | .3 | .2 | .1 | 77.5 | 22.5 | 864 |
| 18&21 | .8 | .9 | 3.8 | 13.2 | 36.4 | 20.4 | 3.0 | .5 | .3 | .1 | 79.5 | 20.5 | 910 |
| TOT | 64 | 20 | 129 | 477 | 1251 | 676 | 85 | 11 | 11 | 5 | 2729 | 804 | 3533 |
| PCT | 1.8 | .6 | 3.7 | 13.5 | 35.4 | 19.1 | 2.4 | .3 | .3 | .1 | 77.2 | 22.8 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .3 | .7 | .8 | 3.6 | 29.2 | 65.4 | 1213 |
| 06&09 | .9 | .5 | .6 | 4.3 | 28.7 | 65.0 | 1060 |
| 12&15 | 1.7 | .8 | 1.2 | 4.9 | 29.7 | 61.7 | 1204 |
| 18&21 | .5 | .5 | 1.0 | 2.4 | 27.7 | 67.9 | 1239 |
| TOT | 40 | 29 | 44 | 179 | 1358 | 3066 | 4716 |
| PCT | .8 | .6 | .9 | 3.8 | 28.8 | 65.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.4 | 5.6 | 20.3 | 59.2 | 20.4 | 905 |
| 06&09 | 2.7 | 6.5 | 21.3 | 52.8 | 25.9 | 845 |
| 12&15 | 2.4 | 6.9 | 22.7 | 55.0 | 22.3 | 858 |
| 18&21 | .8 | 5.5 | 19.2 | 60.4 | 20.4 | 907 |
| TOT | 64 | 215 | 733 | 2002 | 780 | 3515 |
| PCT | 1.8 | 6.1 | 20.9 | 57.0 | 22.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | * | .1 | .0 | .0 | * | 5 | .1 |
| 70/74 | .0 | .0 | .0 | * | .4 | .7 | .1 | .1 | 49 | 1.3 |
| 65/69 | .0 | .0 | .0 | .1 | .8 | 5.3 | 5.7 | 1.5 | 499 | 13.4 |
| 60/64 | .0 | .0 | .0 | .1 | 1.0 | 11.2 | 37.1 | 13.3 | 2328 | 62.7 |
| 55/59 | .0 | .0 | .0 | * | .2 | 1.2 | 9.1 | 11.6 | 821 | 22.1 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | * | .1 | .1 | 9 | .2 |
| TOTAL | 0 | 0 | 0 | 11 | 91 | 682 | 1935 | 992 | 3711 | 100.0 |
| PCT | .0 | .0 | .0 | .3 | 2.5 | 18.4 | 52.1 | 26.7 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | * | .0 | * | .0 | .0 | .0 | .0 | * | .0 | * |
| | .6 | * | * | .0 | .0 | * | .1 | .5 | .0 | * |
| | 4.5 | .6 | .2 | .2 | .2 | .2 | 1.1 | 6.2 | .0 | .2 |
| | 21.1 | 1.2 | .4 | .4 | .4 | 1.0 | 8.3 | 31.1 | .0 | .9 |
| | 5.2 | .1 | .1 | .1 | .4 | .4 | 2.5 | 13.2 | .0 | .1 |
| | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 |
| | 31.5 | 2.0 | .8 | .7 | .9 | 1.5 | 10.1 | 51.2 | .0 | 1.2 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 77 | 72 | 69 | 63 | 58 | 57 | 54 | 62.9 | 1222 |
| 06&09 | 72 | 66 | 64 | 61 | 57 | 55 | 50 | 60.7 | 1065 |
| 12&15 | 75 | 66 | 64 | 60 | 56 | 54 | 48 | 60.3 | 1220 |
| 18&21 | 77 | 71 | 68 | 63 | 58 | 56 | 48 | 62.8 | 1268 |
| TOT | 77 | 70 | 67 | 62 | 57 | 55 | 48 | 61.7 | 4775 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .3 | 3.8 | 23.9 | 52.6 | 19.6 | 84 | 990 |
| 06&09 | .0 | .4 | 1.1 | 11.8 | 54.5 | 32.2 | 87 | 829 |
| 12&15 | .0 | .2 | 1.4 | 11.0 | 52.3 | 35.1 | 88 | 943 |
| 18&21 | .0 | .3 | 3.5 | 25.5 | 49.4 | 21.3 | 84 | 966 |
| TOT | 0 | 11 | 91 | 685 | 1943 | 998 | 85 | 3728 |

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS, SW
32.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | 2 | * | * |
| 11/13 | .0 | .0 | .0 | .0 | .0 | * | .1 | .2 | .0 | 11 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | * | * | .1 | .2 | .1 | * | 22 | .0 | .5 |
| 7/8 | .0 | .0 | .0 | * | .4 | .4 | .8 | .0 | .0 | 72 | .1 | 1.6 |
| 6 | .0 | .0 | .0 | .1 | .3 | .8 | .3 | .0 | .0 | 61 | * | 1.3 |
| 5 | .0 | .0 | .0 | .2 | .7 | 1.2 | .3 | .0 | .0 | 104 | .1 | 2.3 |
| 4 | .0 | .0 | * | .4 | 1.7 | 1.6 | .2 | .0 | .0 | 170 | .1 | 3.7 |
| 3 | .0 | .0 | * | .5 | 2.8 | 2.1 | .2 | .0 | .0 | 244 | .1 | 5.5 |
| 2 | .0 | .0 | * | 1.4 | 4.6 | 1.3 | .1 | .0 | .0 | 326 | .2 | 7.2 |
| 1 | .0 | .0 | .1 | 1.9 | 6.2 | 1.5 | .2 | .0 | .0 | 432 | .5 | 9.4 |
| 0 | .0 | .0 | .2 | 5.1 | 8.1 | 1.1 | .1 | .0 | .0 | 638 | .7 | 13.9 |
| -1 | .0 | .0 | .2 | 4.9 | 7.2 | 1.2 | .0 | * | .0 | 596 | .5 | 13.1 |
| -2 | .0 | * | .4 | 6.0 | 6.3 | .4 | .0 | .0 | .0 | 571 | .6 | 12.5 |
| -3 | .0 | .0 | .3 | 4.6 | 4.0 | .4 | .0 | .0 | .0 | 409 | .6 | 8.7 |
| -4 | * | * | .5 | 3.1 | 3.1 | .1 | .0 | .0 | .0 | 307 | .4 | 6.6 |
| -5 | .0 | .0 | .2 | 1.9 | 1.8 | * | * | .0 | .0 | 175 | .2 | 3.8 |
| -6 | .0 | .0 | .1 | .9 | 1.4 | .0 | .0 | .0 | .0 | 107 | .1 | 2.4 |
| -7/-8 | .0 | .0 | .2 | .9 | .8 | * | .0 | .0 | .0 | 80 | * | 1.8 |
| -9/-10 | .0 | * | .1 | .5 | .2 | * | .0 | .0 | .0 | 36 | .1 | .7 |
| -11/-13 | .0 | .0 | * | .2 | * | .0 | .0 | .0 | .0 | 9 | .0 | .2 |
| -14/-16 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 2 | 3 | 111 | 1424 | 2170 | 547 | 103 | 12 | 2 | 4374 | 193 | 4181 |
| PCT | * | .1 | 2.5 | 32.6 | 49.6 | 12.5 | 2.4 | .3 | * | 100.0 | 4.4 | 95.6 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | 3.0 | 2.9 | .0 | .0 | .0 | 5.9 |
| 3-4 | .1 | 1.6 | 7.9 | .9 | .0 | .0 | 10.5 |
| 5-6 | .0 | 1.2 | 5.0 | 1.4 | .0 | .0 | 7.7 |
| 7 | .0 | .1 | 3.8 | 2.0 | .0 | .0 | 5.8 |
| 8-9 | .0 | .2 | 1.1 | .7 | .0 | .0 | 1.9 |
| 10-11 | .0 | .0 | .6 | .4 | .0 | .0 | 1.0 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 6.6 | 21.2 | 5.6 | .0 | .0 | 33.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .3 | .3 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .2 | .5 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .5 | 1.1 | * | .0 | .0 | 1.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .0 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .3 | .1 | .1 | .0 | .0 | .6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .0 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .0 | .1 | .0 | .0 | .0 | .2 |

PERIOD: (OVER-ALL) 1963-1973

JULY

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .0 | .0 | .0 | .0 | .2 |

SW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|
| .0 | .2 | * | .0 | .0 | .0 | .2 |
| .0 | .5 | .1 | .0 | .0 | .0 | .6 |
| .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| .0 | * | .0 | .0 | .0 | .0 | * |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | .0 | .0 | * | .0 | .0 | * |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .7 | .4 | * | .0 | .0 | 1.1 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 2.0 | 1.7 | .0 | .0 | .0 | 3.7 |
| 3-4 | .0 | .8 | .7 | .2 | .0 | .0 | 1.7 |
| 5-6 | .0 | .3 | .4 | .1 | .0 | .0 | .8 |
| 7 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 3.4 | 2.9 | .6 | .0 | .0 | 7.[illegible] |

NW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|
| .4 | 1.1 | .1 | .0 | .0 | .0 | 1.5 | |
| .2 | 6.0 | 7.5 | .0 | .0 | .0 | 13.7 | |
| .2 | 4.1 | 12.1 | 1.3 | .0 | .0 | 17.7 | |
| .1 | 1.3 | 7.8 | 1.4 | .0 | .0 | 10.6 | |
| .0 | .1 | 4.6 | 2.0 | .0 | .0 | 6.7 | |
| .0 | .0 | 1.8 | 1.3 | .1 | .0 | 3.1 | |
| .0 | .0 | .1 | .6 | .1 | .0 | .8 | |
| .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .8 | 12.6 | 34.0 | 6.9 | .2 | .0 | 54.5 | 99.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.0 | 2.4 | .2 | .0 | .0 | .0 | 4.5 | |
| 1-2 | .2 | 12.0 | 12.6 | .0 | .0 | .0 | 24.8 | |
| 3-4 | .2 | 6.8 | 21.4 | 2.5 | .0 | .0 | 30.9 | |
| 5-6 | .1 | 2.9 | 13.3 | 2.9 | .0 | .0 | 19.2 | |
| 7 | .0 | .2 | 8.7 | 4.1 | .0 | .0 | 12.9 | |
| 8-9 | .0 | .2 | 2.9 | 2.1 | .1 | .0 | 5.3 | |
| 10-11 | .0 | .0 | .7 | 1.0 | .1 | .0 | 1.8 | |
| 12 | .0 | .0 | .0 | .4 | .0 | .0 | .4 | |
| 13-16 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 2.5 | 24.3 | 59.7 | 13.2 | .2 | .0 | 100.0 | 1257 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .7 | 9.9 | 15.0 | 7.5 | 4.8 | 1.6 | .7 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1231 | 4 |
| 6-7 | * | 1.7 | 9.2 | 8.0 | 6.8 | 4.2 | 1.6 | .8 | .6 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1005 | 6 |
| 8-9 | .0 | .6 | 2.6 | 3.0 | 3.6 | 2.3 | 1.4 | .7 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 447 | 7 |
| 10-11 | .0 | .2 | .6 | .5 | 1.6 | 1.7 | .6 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 176 | 7 |
| 12-13 | .0 | .0 | .8 | .1 | .3 | 1.2 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 95 | 7 |
| >13 | .0 | .0 | .0 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 16 | 10 |
| INDET | 1.0 | .7 | .5 | .2 | .1 | .1 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 77 | 2 |
| TOTAL | 50 | 396 | 872 | 593 | 525 | 342 | 148 | 64 | 51 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3045 | 5 |
| PCT | 1.6 | 13.0 | 28.6 | 19.5 | 17.2 | 11.2 | 4.9 | 2.1 | 1.7 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .1 | .8 | .0 | .0 | .0 | .0 | 1.1 | .8 | .1 | 2.9 | .1 | 2.3 | | .0 | 92.7 |
| NE | .2 | .0 | .9 | .0 | .0 | .0 | .0 | 1.1 | .2 | .0 | 1.6 | 1.1 | 3.2 | | .0 | 92.8 |
| E | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9.5 | 0 | 7.1 | | .0 | 83.3 |
| SE | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7.0 | .0 | | .0 | 93.0 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.8 | .0 | 5.5 | | .0 | 92.7 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2.0 | 1.0 | 1.0 | 2.0 | | .0 | 93.9 |
| W | .1 | .0 | 1.7 | .0 | .0 | .0 | .0 | 1.8 | .2 | .0 | 8.3 | .3 | 4.5 | | .0 | 84.9 |
| NW | .2 | .1 | .9 | .0 | .0 | .0 | .0 | 1.2 | .5 | * | 4.4 | .1 | 2.9 | | * | 90.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8.1 | .0 | 8.1 | | .0 | 83.8 |
| TOT PCT | .2 | .1 | .9 | .0 | .0 | .0 | .0 | 1.2 | .5 | .1 | 4.2 | .2 | 2.9 | | * | 90.8 |
| TOT OBS: | 4554 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .2 | .3 | .0 | .0 | .0 | .0 | .5 | .3 | .0 | 3.2 | .1 | 3.9 | | .0 | 92.0 |
| 06&09 | .2 | .3 | .7 | .0 | .0 | .0 | .0 | 1.2 | .7 | .1 | 5.8 | .2 | 2.0 | | .0 | 90.0 |
| 12&15 | .2 | .0 | 1.9 | .0 | .0 | .0 | .0 | 2.2 | .3 | .1 | 5.1 | .3 | 2.1 | | .0 | 89.9 |
| 18&21 | .2 | .0 | .7 | .0 | .0 | .0 | .0 | .9 | .7 | .1 | 3.5 | .2 | 3.5 | | .1 | 91.0 |
| TOT PCT | .2 | .1 | .9 | .0 | .0 | .0 | .0 | 1.2 | .5 | .1 | 4.3 | .2 | 2.9 | | * | 90.8 |
| TOT OBS: | 4576 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 8.6 | 20.4 | 4.0 | .0 | .0 | | 33.3 | 14.7 | 37.2 | 27.9 | 33.1 | 30.1 | 33.9 | 28.6 | 35.1 | 33.3 |
| NE | .2 | .8 | 1.3 | .1 | .0 | .0 | | 2.5 | 12.3 | 1.5 | 2.0 | 3.1 | 2.2 | 2.7 | 2.7 | 2.6 | 2.8 |
| E | * | .2 | .1 | .0 | .0 | .0 | | .2 | 8.6 | .0 | .0 | .3 | .2 | .5 | .3 | .4 | .0 |
| SE | * | .2 | .1 | .0 | .0 | .0 | | .3 | 8.8 | .2 | .0 | .6 | .0 | .7 | .3 | .3 | .3 |
| S | .1 | .5 | .1 | .0 | .0 | .0 | | .6 | 7.2 | .2 | .2 | .4 | .2 | .6 | .5 | 1.0 | 1.8 |
| SW | .2 | .7 | .2 | * | .0 | .0 | | 1.1 | 8.1 | 1.3 | 1.1 | .5 | .5 | 1.6 | 1.5 | .5 | 2.4 |
| W | .7 | 5.0 | 5.0 | .5 | .0 | .0 | | 11.2 | 11.2 | 11.5 | 11.9 | 10.8 | 11.8 | 12.9 | 10.7 | 9.8 | 10.3 |
| NW | .7 | 11.4 | 31.3 | 6.6 | .0 | .0 | | 50.0 | 15.0 | 47.3 | 56.8 | 50.2 | 53.9 | 46.1 | 55.2 | 49.4 | 48.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .8 | | | | | | | .8 | .0 | .8 | .0 | 1.1 | 1.1 | 1.2 | .2 | 1.0 | .7 |
| TOT OBS | 145 | 1283 | 2738 | 526 | 0 | 0 | 4692 | | 14.1 | 835 | 376 | 697 | 282 | 769 | 462 | 816 | 455 |
| TOT PCT | 3.1 | 27.3 | 58.4 | 11.2 | .0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.2 | 18.7 | 11.9 | .5 | .0 | | 33.3 | 14.7 | 34.3 | 32.3 | 31.9 | 34.4 |
| NE | .4 | 1.6 | .5 | .0 | .0 | | 2.5 | 12.3 | 1.7 | 2.8 | 2.7 | 2.7 |
| E | .1 | .2 | .0 | .0 | .0 | | .2 | 8.6 | .0 | .2 | .4 | .3 |
| SE | .2 | .1 | * | .0 | .0 | | .3 | 8.8 | .2 | .4 | .5 | .3 |
| S | .3 | .3 | * | .0 | .0 | | .6 | 7.2 | .2 | .3 | .5 | 1.3 |
| SW | .5 | .5 | .1 | .0 | .0 | | 1.1 | 8.1 | 1.2 | .5 | 1.5 | 1.1 |
| W | 2.2 | 7.0 | 1.9 | .1 | .0 | | 11.2 | 11.2 | 11.6 | 11.1 | 12.0 | 10.0 |
| NW | 4.0 | 25.5 | 19.6 | .8 | .0 | | 50.0 | 15.0 | 50.3 | 51.3 | 49.5 | 49.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .8 | | | | | | .8 | .0 | .6 | 1.1 | .8 | .9 |
| TOT OBS | 507 | 2524 | 1599 | 62 | 0 | 4692 | | 14.1 | 1211 | 979 | 1231 | 1271 |
| TOT PCT | 10.8 | 53.8 | 34.1 | 1.3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

TABLE 4

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .6 | 2.1 | 25.0 | 59.7 | 12.6 | .0 | .0 | 14.5 | 100.0 | 1211 |
| 06&09 | 1.1 | 1.1 | 25.7 | 59.1 | 12.9 | .0 | .0 | 14.8 | 100.0 | 979 |
| 12&15 | .8 | 2.4 | 29.6 | 57.7 | 9.7 | .0 | .0 | 13.7 | 100.0 | 1231 |
| 18&21 | .9 | 3.1 | 28.8 | 57.1 | 10.1 | .0 | .0 | 13.7 | 100.0 | 1271 |
| TOT | 39 | 106 | 1283 | 2738 | 526 | 0 | 0 | 14.1 | | 4692 |
| PCT | .8 | 2.3 | 27.3 | 58.4 | 11.2 | .0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.1 | 2.4 | 8.5 | 20.9 | | 6.0 |
| NE | .2 | .1 | .4 | 1.7 | | 6.8 |
| E | * | * | .1 | .1 | | 6.1 |
| SE | .2 | * | * | .1 | | 3.6 |
| S | .1 | * | .1 | .2 | | 5.3 |
| SW | .2 | .1 | .2 | .4 | | 5.4 |
| W | 2.1 | .4 | 1.4 | 5.2 | | 5.8 |
| NW | 9.8 | 2.7 | 8.4 | 25.7 | | 5.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .1 | * | .1 | .7 | | 7.1 |
| TOT OBS | 650 | 185 | 613 | 1752 | 3180 | 5.9 |
| TOT PCT | 19.8 | 5.8 | 19.3 | 55.1 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .3 | 1.0 | 5.1 | 10.4 | 10.2 | .9 | .1 | * | .1 | 10.4 | |
| NE | .0 | .0 | .2 | .3 | .6 | .9 | * | .0 | * | * | .4 | |
| E | .0 | .0 | * | * | * | * | .0 | .0 | .0 | .0 | .2 | |
| SE | .0 | .0 | .0 | .1 | * | * | * | .0 | .0 | .0 | .2 | |
| S | .0 | .0 | * | .0 | .1 | .1 | .0 | .0 | .0 | * | .2 | |
| SW | .0 | .0 | * | * | .3 | .2 | * | .0 | .0 | * | .3 | |
| W | .3 | .0 | .5 | 1.5 | 2.4 | 1.7 | .1 | * | .0 | * | 2.6 | |
| NW | .4 | .1 | 2.3 | 6.6 | 11.9 | 10.3 | .7 | .2 | .2 | .1 | 13.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .3 | .3 | .1 | * | * | .0 | .0 | .1 | |
| TOT OBS | 31 | 13 | 130 | 446 | 827 | 750 | 59 | 10 | 8 | 11 | 895 | 3180 |
| TOT PCT | 1.0 | .4 | 4.1 | 14.0 | 26.0 | 23.6 | 1.9 | .3 | .3 | .3 | 28.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| * OR >5000 | .8 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >3500 | 2.4 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| * OR >2000 | 22.9 | 26.1 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 |
| * OR >1000 | 40.3 | 51.8 | 52.1 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 |
| * OR >600 | 47.6 | 64.7 | 66.1 | 66.3 | 66.3 | 66.3 | 66.3 | 66.3 |
| * OR >300 | 49.2 | 68.6 | 70.1 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 |
| * OR >150 | 49.3 | 68.9 | 70.5 | 70.8 | 70.8 | 70.8 | 70.8 | 70.8 |
| * OR > 0 | 49.6 | 69.4 | 71.0 | 71.3 | 71.4 | 71.6 | 71.7 | 71.8 |
| TOTAL | 1577 | 2215 | 2267 | 2278 | 2281 | 2286 | 2290 | 2294 |

TOTAL NUMBER OF OBS: 3193 PCT FREQ NH <5/8: 28.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 11.6 | 4.5 | 5.6 | 3.0 | 2.7 | 3.2 | 6.9 | 9.6 | 52.2 .6 | 3392 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| <1/2 | NO PCP | .1 | .0 | * | .0 | * | * | .1 | .2 | .0 | .0 | .5 | |
| | TOT % | .1 | .0 | * | .0 | * | * | .2 | .2 | .0 | .0 | .6 | |
| | PCP | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| 1/2<1 | NO PCP | .3 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .6 | |
| | TOT % | .3 | .0 | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 | .7 | |
| | PCP | .1 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .1 | * | .0 | .0 | .0 | .0 | .1 | .4 | .0 | * | .5 | |
| | TOT % | .1 | * | .0 | .0 | .0 | .0 | .1 | .4 | .0 | * | .6 | |
| | PCP | * | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 2<5 | NO PCP | .8 | .2 | .0 | * | * | .0 | .5 | 1.3 | .0 | * | 2.8 | |
| | TOT % | .8 | .2 | .0 | * | * | .0 | .5 | 1.4 | .0 | * | 3.0 | |
| | PCP | .2 | * | .0 | .0 | .0 | .0 | .1 | .4 | .0 | .0 | .7 | |
| 5<10 | NO PCP | 8.1 | .6 | * | .1 | .2 | .4 | 3.0 | 15.1 | .0 | .3 | 28.0 | |
| | TOT % | 8.3 | .7 | * | .1 | .2 | .4 | 3.1 | 15.5 | .0 | .3 | 28.7 | |
| | PCP | * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .1 | |
| 10> | NO PCP | 23.6 | 1.6 | .2 | .2 | .3 | .7 | 7.2 | 32.1 | .0 | .4 | 66.4 | |
| | TOT % | 23.6 | 1.6 | .2 | .2 | .3 | .7 | 7.2 | 32.2 | .0 | .4 | 66.5 | |
| | TOT OBS | | | | | | | | | | | | 4550 |
| | TOT PCT | 33.3 | 2.4 | .2 | .3 | .6 | 1.1 | 11.2 | 50.1 | .0 | .8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| <1/2 | 4-10 | .1 | .0 | .0 | .0 | * | * | .0 | .1 | .0 | | .2 | |
| | 11-21 | .1 | .0 | * | .0 | .0 | .0 | .1 | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .1 | .0 | * | .0 | * | * | .2 | .2 | .0 | .0 | .6 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 1/2<1 | 4-10 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | | .3 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .3 | .0 | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 | .7 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | * | |
| 1<2 | 4-10 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 11-21 | .1 | * | .0 | .0 | .0 | .0 | * | .4 | .0 | | .5 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .2 | * | .0 | .0 | .0 | .0 | .1 | .6 | .0 | * | .9 | |
| | 0-3 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | .1 | |
| 2<5 | 4-10 | .3 | * | .0 | .0 | .0 | .0 | .2 | .4 | .0 | | .9 | |
| | 11-21 | .5 | .1 | .0 | * | * | .0 | .3 | 1.0 | .0 | | 2.0 | |
| | 22+ | * | * | .0 | .0 | .0 | .0 | .0 | .3 | .0 | | .3 | |
| | TOT % | .9 | .2 | .0 | * | * | .0 | .6 | 1.7 | .0 | .1 | 3.3 | |
| | 0-3 | * | .1 | .0 | .0 | * | .1 | .2 | .1 | .0 | .3 | .8 | |
| 5<10 | 4-10 | 1.9 | .3 | .0 | * | .2 | .3 | 1.3 | 3.2 | .0 | | 7.2 | |
| | 11-21 | 4.9 | .2 | * | * | .0 | * | 1.4 | 10.0 | .0 | | 16.7 | |
| | 22+ | 1.4 | * | .0 | .0 | .0 | .0 | .2 | 2.1 | .0 | | 3.7 | |
| | TOT % | 8.2 | .6 | * | .1 | .2 | .4 | 3.1 | 15.4 | .0 | .3 | 28.4 | |
| | 0-3 | .3 | * | * | * | * | .1 | .4 | .6 | .0 | .4 | 1.9 | |
| 10+ | 4-10 | 6.2 | .5 | .1 | .1 | .2 | .4 | 3.4 | 7.5 | .0 | | 18.5 | |
| | 11-21 | 14.6 | 1.0 | * | .1 | .1 | .1 | 3.1 | 19.8 | .0 | | 38.7 | |
| | 22+ | 2.5 | .1 | .0 | .0 | .0 | * | .3 | 4.1 | .0 | | 7.1 | |
| | TOT % | 23.6 | 1.6 | .2 | .2 | .3 | .6 | 7.1 | 32.0 | .0 | .4 | 66.1 | |
| | TOT OBS | | | | | | | | | | | | 4617 |
| | TOT PCT | 33.3 | 2.4 | .2 | .3 | .6 | 1.1 | 11.1 | 50.2 | .0 | .8 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | .2 | 4.0 | 14.4 | 25.5 | 23.1 | 2.6 | .6 | .0 | .2 | 71.0 | 29.0 | 832 |
| 06&09 | 1.2 | .4 | 4.4 | 13.0 | 24.4 | 20.2 | .9 | .1 | .0 | .5 | 65.1 | 34.9 | 769 |
| 12&15 | 1.0 | .6 | 3.1 | 14.3 | 26.2 | 24.2 | .8 | .0 | .4 | .5 | 71.1 | 28.9 | 782 |
| 18&21 | 1.4 | .4 | 4.7 | 13.7 | 26.8 | 25.7 | 2.8 | .5 | .6 | .1 | 76.7 | 23.3 | 846 |
| TOT | 32 | 13 | 131 | 448 | 832 | 753 | 59 | 10 | 8 | 11 | 2297 | 932 | 3229 |
| PCT | 1.0 | .4 | 4.1 | 13.9 | 25.8 | 23.3 | 1.8 | .3 | .2 | .3 | 71.1 | 28.9 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .5 | .8 | .7 | 2.8 | 27.2 | 68.0 | 1208 |
| 06&09 | 1.0 | .6 | .9 | 2.3 | 30.6 | 64.5 | 979 |
| 12&15 | .4 | 1.1 | 1.5 | 4.4 | 30.4 | 62.2 | 1217 |
| 18&21 | .4 | .3 | .5 | 3.6 | 25.8 | 69.4 | 1235 |
| TOT | 26 | 33 | 42 | 155 | 1317 | 3066 | 4639 |
| PCT | .6 | .7 | .9 | 3.3 | 28.4 | 66.1 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .4 | 4.7 | 20.1 | 52.2 | 27.7 | 822 |
| 06&09 | 1.2 | 6.1 | 19.7 | 46.1 | 34.1 | 765 |
| 12&15 | 1.0 | 4.9 | 20.8 | 51.2 | 28.0 | 771 |
| 18&21 | 1.4 | 6.7 | 20.8 | 57.0 | 22.2 | 835 |
| TOT | 32 | 180 | 650 | 1653 | 890 | 3193 |
| PCT | 1.0 | 5.6 | 20.4 | 51.8 | 27.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 75/79 | .0 | .0 | .0 | .1 | .1 | .1 | * | * | 15 | .4 |
| 70/74 | .0 | .0 | * | .0 | 1.2 | .9 | .3 | .1 | 91 | 2.5 |
| 65/69 | .0 | .0 | .0 | * | 1.2 | 7.5 | 9.9 | 4.1 | 812 | 22.7 |
| 60/64 | .0 | .0 | .0 | .1 | .8 | 9.6 | 37.3 | 16.5 | 2295 | 64.2 |
| 55/59 | .0 | .0 | .0 | .0 | * | .2 | 3.9 | 5.9 | 359 | 10.0 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .1 |
| TOTAL | 0 | 0 | 2 | 6 | 119 | 654 | 1840 | 954 | 3575 | 100.0 |
| PCT | .0 | .0 | .1 | .2 | 3.3 | 18.3 | 51.5 | 26.7 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| | .2 | * | * | .0 | .0 | .0 | .1 | .1 | .0 | .0 |
| | 1.3 | .1 | .0 | * | * | .1 | .2 | .7 | .0 | * |
| | 8.7 | .8 | .1 | .1 | .4 | .5 | 2.4 | 9.5 | .0 | .2 |
| | 18.9 | 1.4 | .1 | .2 | .2 | .5 | 7.9 | 34.4 | .0 | .6 |
| | 1.9 | .2 | .0 | * | .1 | * | 1.4 | 6.4 | .0 | .1 |
| | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * |
| | 31.0 | 2.5 | .2 | .4 | .7 | 1.2 | 12.0 | 51.1 | .0 | .9 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 73 | 70 | 64 | 60 | 58 | 54 | 64.1 | 1213 |
| 06&09 | 79 | 68 | 66 | 62 | 58 | 56 | 54 | 62.1 | 985 |
| 12&15 | 82 | 68 | 66 | 62 | 58 | 56 | 50 | 61.8 | 1236 |
| 18&21 | 79 | 72 | 70 | 64 | 59 | 57 | 52 | 63.9 | 1273 |
| TOT | 82 | 72 | 68 | 63 | 58 | 57 | 50 | 63.0 | 4707 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .2 | 5.0 | 21.4 | 51.8 | 21.7 | 84 | 941 |
| 06&09 | .0 | .1 | .8 | 13.7 | 52.2 | 33.2 | 87 | 753 |
| 12&15 | .0 | .1 | 1.3 | 13.7 | 50.8 | 34.0 | 87 | 931 |
| 18&21 | .0 | .4 | 5.6 | 23.1 | 51.3 | 19.5 | 83 | 972 |
| TOT | 0 | 8 | 119 | 657 | 1852 | 961 | 85 | 3597 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | * | * | * | * | .0 | 4 | * | .1 |
| 11/13 | .0 | .0 | .0 | * | * | .1 | * | .1 | .0 | 14 | .0 | .3 |
| 9/10 | .0 | .0 | * | * | .2 | .6 | .1 | * | .0 | 44 | .0 | 1.0 |
| 7/8 | .0 | .0 | .0 | .3 | .8 | .5 | .2 | .0 | .0 | 77 | * | 1.8 |
| 6 | .0 | .0 | .0 | .6 | .9 | .4 | .1 | .0 | .0 | 81 | .0 | 1.9 |
| 5 | .0 | .0 | * | .8 | 1.5 | .7 | .1 | .0 | * | 129 | * | 3.1 |
| 4 | .0 | .0 | .1 | 1.3 | 1.4 | .4 | * | .0 | .0 | 133 | * | 3.1 |
| 3 | .0 | .0 | .2 | 1.5 | 2.4 | .5 | * | .0 | .0 | 195 | * | 4.6 |
| 2 | .0 | .0 | .4 | 3.6 | 3.7 | .2 | .0 | * | .0 | 335 | .1 | 7.9 |
| 1 | .0 | .0 | .4 | 6.4 | 3.6 | .2 | .0 | .0 | .0 | 448 | .2 | 10.4 |
| 0 | .0 | .1 | 1.6 | 10.0 | 3.4 | .1 | .0 | .0 | .0 | 639 | .6 | 14.7 |
| -1 | .0 | .1 | 1.8 | 9.1 | 2.2 | * | .0 | .0 | .0 | 553 | .5 | 12.7 |
| -2 | * | * | 4.0 | 7.3 | 1.2 | .1 | .0 | .0 | .0 | 533 | .3 | 12.4 |
| -3 | .0 | * | 2.7 | 4.4 | .9 | * | .0 | .0 | .0 | 342 | .4 | 7.8 |
| -4 | .0 | .1 | 2.4 | 3.8 | .5 | .0 | .0 | .0 | .0 | 291 | .3 | 6.7 |
| -5 | .0 | * | 1.2 | 1.9 | .4 | .0 | .0 | .0 | .0 | 145 | .1 | 3.3 |
| -6 | .0 | .1 | 1.1 | 1.3 | .1 | .0 | .0 | .0 | .0 | 106 | .1 | 2.5 |
| -7/-8 | .0 | * | 1.0 | .8 | * | .0 | .0 | .0 | .0 | 81 | .2 | 1.7 |
| -9/-10 | .0 | * | .3 | .3 | .0 | .0 | .0 | .0 | .0 | 27 | * | .6 |
| -11/-13 | .0 | .0 | .1 | .1 | * | .0 | .0 | .0 | .0 | 12 | * | .3 |
| -14/-16 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 1 | 24 | 735 | 2250 | 979 | 167 | 24 | 11 | 1 | 4192 | 127 | 4065 |
| PCT | * | .6 | 17.5 | 53.7 | 23.4 | 4.0 | .6 | .3 | * | 100.0 | 3.0 | 97.0 |

PERIOD: (OVER-ALL) 1962-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 3.9 | 2.9 | .0 | .0 | .0 | 6.9 |
| 3-4 | .1 | 3.7 | 9.0 | 1.3 | .0 | .0 | 14.0 |
| 5-6 | .0 | 1.1 | 5.7 | 1.8 | .0 | .0 | 8.7 |
| 7 | .0 | .3 | 3.8 | 1.3 | .0 | .0 | 5.4 |
| 8-9 | .0 | .0 | 1.3 | .8 | .0 | .0 | 2.1 |
| 10-11 | .1 | .0 | .4 | .6 | .0 | .0 | 1.1 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 9.5 | 23.3 | 6.0 | .0 | .0 | 39.1 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 1-2 | .1 | .2 | .4 | .0 | .0 | .0 | .7 |
| 3-4 | .1 | .8 | .6 | .0 | .0 | .0 | 1.5 |
| 5-6 | .0 | .1 | .1 | * | .0 | .0 | .2 |
| 7 | .0 | .0 | .3 | .2 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .2 | * | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.2 | 1.6 | .2 | .0 | .0 | 3.2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .4 | .1 | .0 | .0 | .0 | .5 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .1 | .3 | .0 | .0 | .0 | .4 |

PERIOD: (OVER-ALL) 1963-1979

AUGUST

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .2 | .0 | .0 | .0 | .5 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | * | .1 | * | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .2 | * | * | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | .3 | * | * | .0 | .0 | .4 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | 1.7 | .6 | .0 | .0 | .0 | 2.4 |
| 3-4 | .1 | 1.1 | 1.3 | .2 | .0 | .0 | 2.7 |
| 5-6 | .0 | .2 | .6 | .1 | .0 | .0 | .9 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 3.6 | 2.8 | .3 | .0 | .0 | 6.9 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.1 | .1 | .0 | .0 | .0 | 1.6 | |
| 1-2 | .3 | 3.6 | 5.5 | .0 | .0 | .0 | 9.4 | |
| 3-4 | .3 | 3.8 | 12.3 | 1.9 | .0 | .0 | 18.4 | |
| 5-6 | .0 | 1.0 | 8.0 | 1.4 | .0 | .0 | 10.3 | |
| 7 | .0 | .3 | 3.0 | 1.5 | .0 | .0 | 4.8 | |
| 8-9 | .0 | .1 | 1.3 | .7 | .0 | .0 | 2.1 | |
| 10-11 | .0 | .0 | .2 | 1.1 | .0 | .0 | 1.3 | |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .9 | 9.9 | 30.5 | 6.6 | .0 | .0 | 48.0 | 99.1 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 1.4 | 2.4 | .3 | .0 | .0 | .0 | 4.1 | |
| 1-2 | .5 | 9.9 | 9.6 | .0 | .0 | .0 | 20.0 | |
| 3-4 | .6 | 9.8 | 23.6 | 3.5 | .0 | .0 | 37.5 | |
| 5-6 | .0 | 2.5 | 14.4 | 3.3 | .0 | .0 | 20.3 | |
| 7 | .0 | .6 | 7.1 | 3.0 | .0 | .0 | 10.8 | |
| 8-9 | .0 | .1 | 3.0 | 1.5 | .0 | .0 | 4.6 | |
| 10-11 | .1 | .0 | .6 | 1.7 | .0 | .0 | 2.4 | |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .2 | .1 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 2.7 | 25.3 | 58.8 | 13.3 | .0 | .0 | 100.0 | 1116 |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | .6 | 7.3 | 17.4 | 7.0 | 3.6 | 1.4 | 1.0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1044 | 4 |
| 6-7 | .1 | 1.4 | 8.0 | 10.8 | 7.9 | 3.7 | 1.5 | .7 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 961 | 6 |
| 8-9 | .1 | 3.2 | 3.8 | 2.5 | 4.1 | 2.5 | 1.4 | .4 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 496 | 6 |
| 10-11 | .0 | 1.0 | .3 | .7 | .9 | .7 | .4 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 120 | 6 |
| 12-13 | .0 | .0 | .1 | .2 | .3 | .1 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29 | 8 |
| >13 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | 8 |
| INDET | 1.5 | .2 | .3 | .3 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 74 | 2 |
| TOTAL | 65 | 353 | 810 | 585 | 462 | 237 | 122 | 44 | 32 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2712 | 5 |
| PCT | 2.4 | 13.0 | 29.9 | 21.6 | 17.0 | 8.7 | 4.5 | 1.6 | 1.2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .2 | .8 | .0 | .0 | .0 | .0 | 1.3 | .5 | .0 | 1.6 | .0 | 3.5 | | .0 | 93.1 |
| NE | 2.7 | .4 | .4 | .0 | .0 | .0 | .0 | 3.0 | .4 | .8 | 3.0 | .0 | 6.8 | | .0 | 85.9 |
| E | 1.2 | .0 | 5.3 | .0 | .0 | .0 | .0 | 5.3 | 2.4 | .0 | 2.9 | .0 | 3.5 | | .0 | 85.9 |
| SE | .0 | .0 | .6 | .0 | .0 | .0 | .0 | .6 | 2.6 | 2.6 | 3.2 | .0 | 2.6 | | .0 | 88.3 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8.5 | .0 | .0 | | .0 | 91.5 |
| SW | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.5 | .0 | 1.9 | .0 | 6.1 | | .0 | 87.5 |
| W | 1.0 | .3 | 2.7 | .0 | .0 | .0 | .0 | 3.5 | .1 | .3 | 4.6 | .2 | 5.9 | | .0 | 85.5 |
| NW | .3 | .2 | .8 | .0 | .0 | .0 | .0 | 1.1 | .2 | .1 | 3.7 | * | 6.9 | | * | 87.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | 4.9 | .0 | .0 | .0 | .0 | 4.9 | .0 | .0 | 6.2 | .0 | 4.9 | | .0 | 84.0 |
| TOT PCT | .5 | .2 | 1.1 | .0 | .0 | .0 | .0 | 1.6 | .4 | .1 | 3.1 | * | 5.5 | | * | 89.2 |
| TOT OBS: | 4579 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .5 | .3 | .7 | .0 | .0 | .0 | .0 | 1.3 | .3 | .1 | 2.4 | .0 | 7.5 | | .0 | 88.6 |
| 06&09 | .7 | .0 | 1.4 | .0 | .0 | .0 | .0 | 1.8 | .6 | .4 | 3.7 | .1 | 6.1 | | .0 | 87.5 |
| 12&15 | .3 | .1 | 1.0 | 0 | .0 | .0 | .0 | 1.4 | .6 | .0 | 4.0 | .1 | 3.7 | | .1 | 90.1 |
| 18&21 | .3 | .4 | 1.2 | 0 | .0 | .0 | .0 | 1.8 | .3 | .1 | 2.7 | .0 | 4.6 | | .0 | 90.7 |
| TOT PCT | .5 | .2 | 1.1 | .0 | .0 | .0 | .0 | 1.5 | .4 | .1 | 3.1 | * | 5.5 | | * | 89.3 |
| TOT OBS: | 4605 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 8.0 | 19.7 | 4.3 | * | .0 | | 33.1 | 14.5 | 36.2 | 32.7 | 31.2 | 28.2 | 32.0 | 30.1 | 35.4 | 34.8 |
| NE | .4 | 1.5 | .8 | .1 | * | .0 | | 2.9 | 9.9 | 2.3 | 2.3 | 2.3 | 2.2 | 3.9 | 4.0 | 3.2 | 2.6 |
| E | .2 | .6 | .1 | * | .0 | .0 | | .9 | 6.6 | .3 | .0 | 1.1 | .7 | 1.0 | 1.2 | 1.5 | 1.1 |
| SE | .2 | .6 | .1 | * | .0 | .0 | | .9 | 6.2 | .7 | .3 | .9 | .2 | 1.2 | 1.4 | .9 | 1.0 |
| S | .3 | .8 | .1 | * | .0 | .0 | | 1.2 | 6.6 | 1.2 | .8 | 1.4 | .2 | .9 | 1.6 | 1.4 | 1.3 |
| SW | .3 | 1.1 | .3 | .1 | .0 | .0 | | 1.8 | 8.0 | 2.1 | 1.5 | 1.4 | 1.2 | 2.4 | 1.3 | 1.6 | 1.9 |
| W | .7 | 5.0 | 3.4 | .4 | .1 | .0 | | 9.6 | 10.5 | 8.8 | 9.9 | 10.7 | 10.6 | 11.2 | 9.2 | 7.3 | 10.0 |
| NW | .8 | 12.6 | 28.2 | 6.3 | * | .0 | | 47.9 | 14.8 | 46.4 | 51.2 | 48.8 | 54.9 | 46.0 | 49.8 | 46.4 | 46.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | | 1.8 | .0 | 1.9 | 1.3 | 2.2 | 2.0 | 1.4 | 1.4 | 2.3 | 1.3 |
| TOT OBS | 273 | 1441 | 2524 | 538 | 7 | 0 | 4783 | | 13.5 | 856 | 388 | 772 | 300 | 795 | 415 | 800 | 457 |
| TOT PCT | 5.7 | 30.1 | 52.8 | 11.2 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.2 | 17.9 | 11.3 | .7 | .0 | | 33.1 | 14.5 | 35.1 | 30.3 | 31.3 | 35.2 |
| NE | 1.0 | 1.3 | .5 | * | .0 | | 2.9 | 9.9 | 2.3 | 2.3 | 3.9 | 3.0 |
| E | .6 | .3 | * | .0 | .0 | | .9 | 6.6 | .2 | 1.0 | 1.1 | 1.4 |
| SE | .6 | .3 | * | .0 | .0 | | .9 | 6.2 | .6 | .7 | 1.3 | .9 |
| S | .7 | .4 | .1 | .0 | .0 | | 1.2 | 6.6 | 1.1 | 1.0 | 1.2 | 1.4 |
| SW | .8 | .8 | .1 | .0 | .0 | | 1.8 | 8.0 | 1.9 | 1.4 | 2.0 | 1.7 |
| W | 2.8 | 5.3 | 1.5 | .1 | .0 | | 9.6 | 10.5 | 9.2 | 10.7 | 10.5 | 8.3 |
| NW | 4.3 | 25.0 | 17.8 | .9 | .0 | | 47.9 | 14.8 | 47.9 | 50.5 | 47.3 | 46.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | 1.8 | .0 | 1.7 | 2.1 | 1.4 | 1.9 |
| TOT OBS | 755 | 2453 | 1496 | 79 | 0 | 4783 | | 13.5 | 1244 | 1072 | 1210 | 1257 |
| TOT PCT | 15.8 | 51.3 | 31.3 | 1.7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

SEPTEMBER

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 3.1 | 27.3 | 55.6 | 12.2 | .0 | .0 | 14.0 | 100.0 | 1244 |
| 06&09 | 2.1 | 3.5 | 28.2 | 51.6 | 14.0 | .6 | .0 | 14.1 | 100.0 | 1072 |
| 12&15 | 1.4 | 4.5 | 31.7 | 52.6 | 9.7 | .1 | .0 | 13.1 | 100.0 | 1210 |
| 18&21 | 1.9 | 4.5 | 33.1 | 51.1 | 9.5 | .0 | .0 | 12.9 | 100.0 | 1257 |
| TOT | 85 | 188 | 1441 | 2524 | 538 | 7 | 0 | 13.5 | | 4783 |
| PCT | 1.8 | 3.9 | 30.1 | 52.8 | 11.2 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.3 | 4.4 | 8.5 | 13.3 | | 5.0 |
| NE | .8 | .2 | .7 | 1.1 | | 5.1 |
| E | .3 | .1 | .3 | .3 | | 4.9 |
| SE | .3 | .1 | .3 | .3 | | 4.5 |
| S | .3 | .2 | .4 | .3 | | 4.6 |
| SW | .5 | .2 | .6 | .6 | | 5.2 |
| W | 2.5 | .7 | 2.1 | 3.6 | | 5.2 |
| NW | 14.3 | 3.6 | 9.9 | 17.2 | | 4.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .8 | .2 | .3 | .8 | | 4.6 |
| TOT OBS | 948 | 300 | 723 | 1175 | 3146 | 4.9 |
| TOT PCT | 30.1 | 9.5 | 23.0 | 37.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .3 | 2.7 | 9.1 | 6.2 | 1.6 | * | .1 | .2 | 19.8 | |
| NE | .1 | .0 | * | .4 | .7 | .4 | .1 | .0 | * | * | 1.0 | |
| E | * | .0 | .0 | .2 | .2 | .1 | * | .0 | .0 | .0 | .4 | |
| SE | .0 | .0 | .1 | .1 | .2 | * | * | .0 | .0 | .0 | .5 | |
| S | * | .0 | .0 | * | .3 | .1 | .0 | .0 | .0 | .0 | .7 | |
| SW | * | .0 | .0 | .2 | .4 | .3 | .0 | * | * | * | .8 | |
| W | .1 | .1 | .3 | 1.0 | 2.0 | 1.4 | .2 | * | * | * | 3.6 | |
| NW | .5 | .2 | 1.2 | 4.7 | 11.7 | 5.6 | 1.1 | .2 | .1 | .3 | 19.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .0 | .2 | .4 | .2 | .1 | .0 | .0 | .0 | 1.0 | |
| TOT OBS | 33 | 13 | 62 | 299 | 788 | 450 | 99 | 11 | 11 | 17 | 1383 | 3146 |
| TOT PCT | 1.0 | .4 | 2.0 | 9.5 | 25.0 | 14.3 | 3.1 | .3 | .3 | .5 | 43.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

| CEILING (FEET) | VSBY (NH) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | .9 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >3500 | 3.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| * OR >2000 | 14.6 | 18.5 | 18.7 | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 |
| * OR >1000 | 33.5 | 43.3 | 43.7 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 |
| * OR >600 | 39.6 | 52.3 | 53.1 | 53.1 | 53.2 | 53.2 | 53.2 | 53.2 |
| * OR >300 | 40.3 | 53.5 | 55.0 | 55.1 | 55.1 | 55.1 | 55.2 | 55.2 |
| * OR >150 | 40.4 | 54.2 | 55.4 | 55.5 | 55.5 | 55.5 | 55.6 | 55.6 |
| * OR > 0 | 40.5 | 54.5 | 55.9 | 56.0 | 56.1 | 56.2 | 56.5 | 56.5 |
| TOTAL | 1276 | 1716 | 1759 | 1763 | 1767 | 1769 | 1779 | 1780 |

TOTAL NUMBER OF OBS: 3148 PCT FREQ NH <5/8: 43.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 17.3 | 6.7 | 8.9 | 5.8 | 4.0 | 4.5 | 7.2 | 10.6 | 34.3 | .8 | 3337 |

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1859-1973

AREA 0033 SANTA ROSA IS, SW
33.6N 122.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .1 | * | * | .0 | .0 | * | .2 | .3 | .0 | .0 | .5 | |
| | TOT % | .1 | * | * | .0 | .0 | * | .2 | .3 | .0 | .0 | .5 | |
| 1/2<1 | PCP | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | |
| | NO PCP | .1 | .0 | .0 | .0 | .0 | * | * | .5 | .0 | .0 | .7 | |
| | TOT % | .1 | * | .0 | .0 | .0 | * | * | .5 | .0 | .0 | .7 | |
| 1<2 | PCP | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | |
| | NO PCP | .1 | * | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .3 | |
| | TOT % | .1 | .1 | .0 | .0 | .0 | * | * | .1 | .0 | * | .3 | |
| 2<5 | PCP | * | * | * | .0 | .0 | .0 | * | .1 | .0 | * | .2 | |
| | NO PCP | .5 | .2 | * | * | .1 | * | .2 | 1.1 | .0 | .1 | 2.2 | |
| | TOT % | .5 | .2 | .1 | * | .1 | * | .2 | 1.1 | .0 | .1 | 2.4 | |
| 5<10 | PCP | .3 | * | * | * | .0 | .0 | .2 | .4 | .0 | * | 1.0 | |
| | NO PCP | 7.5 | .8 | .2 | .2 | .1 | .5 | 3.0 | 13.7 | .0 | .2 | 26.1 | |
| | TOT % | 7.8 | .9 | .2 | .2 | .1 | .5 | 3.2 | 14.1 | .0 | .2 | 27.1 | |
| 10+ | PCP | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | * | .3 | |
| | NO PCP | 24.9 | 1.7 | .6 | .6 | 1.0 | 1.2 | 5.9 | 31.4 | .0 | 1.4 | 68.6 | |
| | TOT % | 24.9 | 1.7 | .6 | .6 | 1.0 | 1.2 | 5.9 | 31.5 | .0 | 1.4 | 69.9 | |
| | TOT OBS | | | | | | | | | | | | 4565 |
| | TOT PCT | 33.5 | 2.9 | .9 | .8 | 1.2 | 1.7 | 9.6 | 47.6 | .0 | 1.8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| | 4-10 | * | * | * | .0 | .0 | * | .1 | .2 | .0 | | .4 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | * | * | .0 | .0 | * | .2 | .4 | .0 | .0 | .7 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | 4-10 | .1 | * | .0 | .0 | .0 | * | * | .3 | .0 | | .4 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | | .4 | |
| | 22+ | .0 | * | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .2 | .1 | .0 | .0 | .0 | * | .1 | .7 | .0 | .0 | 1.0 | |
| 1<2 | 0-3 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | * | * | |
| | 4-10 | * | * | .0 | .0 | .0 | * | * | .1 | .0 | | .3 | |
| | 11-21 | .1 | .1 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | .1 | .0 | * | * | * | .1 | .3 | .0 | * | .6 | |
| 2<5 | 0-3 | * | .0 | .0 | .0 | .0 | * | * | * | .0 | .1 | .2 | |
| | 4-10 | .2 | .2 | .1 | * | .1 | * | .2 | .4 | .0 | | 1.0 | |
| | 11-21 | .2 | * | .0 | .0 | .0 | .0 | .1 | .7 | .0 | | 1.0 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .3 | |
| | TOT % | .5 | .2 | .1 | * | .1 | * | .3 | 1.3 | .0 | .1 | 2.6 | |
| 5<10 | 0-3 | .3 | .1 | * | .1 | * | .1 | .3 | .3 | .0 | .2 | 1.5 | |
| | 4-10 | 1.9 | .4 | .2 | .1 | .1 | .3 | 1.4 | 3.3 | .0 | | 7.7 | |
| | 11-21 | 4.2 | .2 | * | .0 | .0 | .1 | 1.2 | 8.1 | .0 | | 13.9 | |
| | 22+ | 1.3 | .1 | .0 | .0 | * | * | .2 | 2.2 | .0 | | 3.7 | |
| | TOT % | 7.7 | .9 | .2 | .2 | .1 | .5 | 3.1 | 14.0 | .0 | .2 | 26.8 | |
| 10+ | 0-3 | .6 | .2 | .2 | .1 | .2 | .2 | .4 | .4 | .0 | 1.4 | 3.7 | |
| | 4-10 | 5.7 | .9 | .3 | .4 | .6 | .7 | 3.2 | 8.2 | .0 | | 20.1 | |
| | 11-21 | 15.3 | .5 | .1 | .1 | .1 | .2 | 2.1 | 18.9 | .0 | | 37.2 | |
| | 22+ | 2.9 | .1 | * | * | .0 | * | .3 | 3.9 | .0 | | 7.2 | |
| | TOT % | 24.5 | 1.7 | .6 | .6 | 1.0 | 1.2 | 5.9 | 31.3 | .0 | 1.4 | 68.3 | |
| | TOT OBS | | | | | | | | | | | | 4680 |
| | TOT PCT | 33.1 | 2.9 | .9 | .9 | 1.2 | 1.8 | 9.6 | 47.9 | .0 | 1.7 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | .2 | 2.3 | 8.7 | 23.3 | 14.6 | 4.2 | .5 | .6 | .4 | 54.8 | 45.2 | 838 |
| 06&09 | 1.1 | .6 | 1.9 | 7.3 | 24.1 | 12.9 | 1.9 | .4 | .4 | .8 | 51.3 | 48.7 | 793 |
| 12&15 | 1.3 | .5 | 1.7 | 11.2 | 24.7 | 13.3 | 2.2 | .1 | .3 | .7 | 55.9 | 44.1 | 769 |
| 18&21 | 1.6 | .2 | 1.8 | 10.1 | 26.4 | 15.5 | 4.2 | .4 | .1 | .4 | 60.8 | 39.2 | 813 |
| TOT | 33 | 13 | 62 | 299 | 791 | 452 | 101 | 11 | 11 | 17 | 1790 | 1423 | 3213 |
| PCT | 1.0 | .4 | 1.9 | 9.3 | 24.6 | 14.1 | 3.1 | .3 | .3 | .5 | 55.7 | 44.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .5 | 1.4 | .7 | 2.7 | 23.8 | 71.0 | 1229 |
| 06&09 | .7 | .6 | .1 | 2.5 | 30.5 | 65.6 | 1069 |
| 12&15 | .9 | 1.1 | 1.1 | 2.8 | 29.8 | 64.3 | 1188 |
| 18&21 | 1.0 | .7 | .4 | 2.3 | 23.6 | 72.0 | 1222 |
| TOT | 37 | 45 | 27 | 121 | 1261 | 3217 | 4708 |
| PCT | .8 | 1.0 | .6 | 2.6 | 26.8 | 68.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .1 | 2.9 | 13.2 | 43.6 | 43.2 | 821 |
| 06&09 | 1.2 | 3.8 | 12.0 | 40.3 | 47.7 | 782 |
| 12&15 | 1.3 | 3.6 | 16.0 | 41.3 | 42.6 | 755 |
| 18&21 | 1.4 | 3.7 | 14.8 | 47.8 | 37.3 | 790 |
| TOT | 31 | 110 | 440 | 1363 | 1345 | 3148 |
| PCT | 1.0 | 3.5 | 14.0 | 43.3 | 42.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | .0 | * | * | * | .0 | .0 | 4 | .1 |
| 75/79 | .0 | .0 | * | .1 | .1 | .2 | .2 | .1 | 21 | .6 |
| 70/74 | .0 | .0 | * | .3 | 1.2 | 2.1 | 1.4 | .4 | 199 | 5.3 |
| 65/69 | .0 | .0 | .1 | .9 | 2.8 | 9.0 | 15.7 | 8.2 | 1374 | 36.8 |
| 60/64 | .0 | .0 | .0 | .1 | 2.2 | 10.3 | 27.7 | 12.6 | 1974 | 52.9 |
| 55/59 | .0 | .0 | .0 | .0 | .1 | .3 | 2.0 | 2.0 | 162 | 4.3 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * |
| TOTAL | 1 | 0 | 5 | 49 | 237 | 819 | 1755 | 869 | 3735 | 100.0 |
| PCT | * | .0 | .1 | 1.3 | 6.3 | 21.9 | 47.0 | 23.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | .0 | .0 | * | * | .0 | .0 |
| .2 | * | .0 | .0 | .0 | * | * | .2 | .0 | .1 |
| 1.9 | .3 | .1 | .1 | .1 | .1 | .5 | 2.0 | .0 | .2 |
| 12.5 | 1.4 | .5 | .2 | .5 | .7 | 3.9 | 16.3 | .0 | .8 |
| 16.2 | 1.2 | .5 | .6 | .4 | .9 | 4.7 | 27.7 | .0 | .6 |
| .9 | .1 | .0 | * | .1 | * | .5 | 2.6 | .0 | .1 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 31.8 | 3.1 | 1.0 | .9 | 1.1 | 1.8 | 9.7 | 48.8 | .0 | 1.8 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 75 | 71 | 65 | 60 | 58 | 50 | 65.2 | 1241 |
| 06&09 | 76 | 70 | 68 | 63 | 59 | 56 | 52 | 63.2 | 1078 |
| 12&15 | 79 | 69 | 67 | 63 | 59 | 57 | 54 | 62.8 | 1210 |
| 18&21 | 80 | 74 | 71 | 65 | 60 | 57 | 52 | 65.2 | 1258 |
| TOT | 80 | 73 | 70 | 64 | 59 | 57 | 50 | 64.1 | 4787 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.0 | 9.5 | 25.8 | 43.2 | 20.5 | 81 | 987 |
| 06&09 | .0 | .9 | 4.2 | 15.8 | 51.2 | 27.8 | 85 | 855 |
| 12&15 | .0 | 1.5 | 3.1 | 17.3 | 49.4 | 28.7 | 85 | 926 |
| 18&21 | .1 | 2.2 | 8.1 | 27.5 | 45.1 | 17.0 | 81 | 987 |
| TOT | 1 | 54 | 239 | 821 | 1766 | 874 | 83 | 3755 |

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

TABLE 17

AREA 0033 SANTA ROSA IS. SW
32.6N 122.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 2 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | 4 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | * | * | .1 | .1 | .1 | 15 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .0 | .1 | .2 | .2 | .0 | 20 | .0 | .5 |
| 7/8 | .0 | .0 | .0 | * | .5 | .5 | .3 | * | 61 | * | 1.4 |
| 6 | .0 | .0 | .0 | .1 | .4 | .6 | .2 | .0 | 57 | * | 1.3 |
| 5 | .0 | .0 | * | .2 | .7 | .7 | .1 | * | 81 | .1 | 1.8 |
| 4 | .0 | .0 | .0 | .8 | 1.4 | .8 | .2 | * | 146 | .1 | 3.2 |
| 3 | .0 | .0 | .1 | .6 | 2.6 | 1.3 | .1 | .0 | 206 | .1 | 4.6 |
| 2 | * | .0 | .4 | 2.1 | 3.9 | 1.2 | * | .0 | 336 | .2 | 7.4 |
| 1 | .0 | .0 | .3 | 3.0 | 4.5 | .9 | * | .0 | 388 | .2 | 8.5 |
| 0 | .0 | .1 | 1.1 | 7.6 | 6.0 | .5 | * | .0 | 675 | .6 | 14.6 |
| -1 | .0 | * | .9 | 6.6 | 4.6 | .1 | .0 | * | 541 | .4 | 11.8 |
| -2 | .0 | * | 1.6 | 7.8 | 3.4 | * | .0 | .0 | 573 | .3 | 12.6 |
| -3 | .0 | .0 | 1.0 | 6.7 | 3.1 | .2 | .0 | .0 | 483 | .3 | 10.6 |
| -4 | .0 | * | 1.7 | 5.3 | 1.0 | .1 | .0 | .0 | 357 | .3 | 7.8 |
| -5 | .0 | * | .9 | 3.2 | .8 | .0 | .0 | .0 | 221 | .1 | 4.8 |
| -6 | .0 | .1 | .7 | 1.6 | .1 | * | .0 | .0 | 111 | .1 | 2.4 |
| -7/-8 | .0 | * | .7 | 1.2 | .2 | * | .0 | .0 | 97 | .1 | 2.1 |
| -9/-10 | .0 | .1 | .2 | .3 | .2 | * | .0 | .0 | 36 | * | .8 |
| -11/-13 | * | * | .2 | .2 | .0 | .0 | .0 | .0 | 18 | .0 | .4 |
| -14/-16 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | 6 | .0 | .1 |
| TOTAL | 2 | 21 | 429 | 2098 | 1488 | 324 | 59 | 13 | 4434 | 126 | 4308 |
| PCT | * | .5 | 9.7 | 47.3 | 33.6 | 7.3 | 1.3 | .3 | 100.0 | 2.8 | 97.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.0 | .1 | .0 | .0 | .0 | 1.5 |
| 1-2 | .3 | 4.0 | 2.7 | .0 | .0 | .0 | 7.0 |
| 3-4 | .2 | 2.0 | 7.3 | .6 | .0 | .0 | 10.1 |
| 5-6 | .1 | .7 | 5.6 | 1.0 | .0 | .0 | 7.4 |
| 7 | .0 | .1 | 2.1 | .9 | .0 | .0 | 3.1 |
| 8-9 | .0 | .1 | .5 | 1.1 | .0 | .0 | 1.7 |
| 10-11 | .0 | .0 | .4 | .1 | .0 | .0 | .5 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 7.9 | 18.7 | 3.9 | .0 | .0 | 31.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .7 | .1 | .0 | .0 | .0 | .9 |
| 1-2 | .0 | 1.0 | .1 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .3 | .7 | .0 | .0 | .0 | 1.0 |
| 5-6 | .0 | .3 | .2 | .1 | .0 | .0 | .6 |
| 7 | .0 | .1 | .1 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.3 | 1.3 | .3 | .0 | .0 | 4.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .5 | .0 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .3 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.1 | .3 | .0 | .0 | .0 | 1.5 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.0 | * | .0 | .0 | .0 | 1.1 |

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0033 SANTA ROSA IS. SW
32.6N 122.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .3 | * | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .2 | .5 | .0 | .0 | .0 | .0 | .6 | .2 | .4 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .4 | .1 | .0 | .0 | .0 | .4 | .1 | .1 | .2 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.1 | .1 | .0 | .0 | .0 | 1.4 | .3 | 1.1 | .3 | .0 | .0 | .0 | 1.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .9 | .0 | .0 | .0 | .0 | 1.2 | .2 | 2.0 | .1 | .0 | .0 | .0 | 2.2 | |
| 1-2 | .0 | 2.3 | 1.1 | .0 | .0 | .0 | 3.4 | .1 | 6.1 | 4.9 | .0 | .0 | .0 | 11.1 | |
| 3-4 | .0 | .9 | .8 | .1 | .0 | .0 | 1.7 | .1 | 4.6 | 10.0 | 1.1 | .0 | .0 | 15.8 | |
| 5-6 | .0 | .1 | .4 | .0 | .0 | .0 | .5 | .0 | .9 | 8.4 | 1.5 | .0 | .0 | 10.9 | |
| 7 | .0 | .1 | .3 | .0 | .0 | .0 | .4 | .0 | .2 | 3.7 | 1.1 | .0 | .0 | 5.1 | |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .1 | 1.3 | .9 | .0 | .0 | 2.3 | |
| 10-11 | .0 | .0 | .1 | .1 | .1 | .0 | .2 | .0 | .0 | .6 | .5 | .0 | .0 | 1.1 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .3 | 4.3 | 2.6 | .2 | .1 | .0 | 7.5 | .3 | 13.9 | 29.2 | 5.6 | .0 | .0 | 48.9 | 97.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.2 | 5.7 | .3 | .0 | .0 | .0 | 9.1 | |
| 1-2 | .9 | 15.3 | 8.9 | .0 | .0 | .0 | 25.1 | |
| 3-4 | .4 | 8.9 | 19.1 | 1.8 | .0 | .0 | 30.3 | |
| 5-6 | .1 | 2.1 | 14.7 | 2.7 | .0 | .0 | 19.5 | |
| 7 | .1 | .5 | 4.4 | 2.1 | .0 | .0 | 9.1 | |
| 8-9 | .0 | .3 | 1.8 | 2.2 | .0 | .0 | 4.2 | |
| 10-11 | .0 | .0 | 1.1 | .8 | .1 | .0 | 1.9 | |
| 12 | .0 | .0 | .1 | .3 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .3 | .2 | .0 | .0 | .4 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 4.7 | 32.7 | 52.5 | 10.0 | .1 | .0 | 100.0 | 1192 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.0 | 7.8 | 11.5 | 6.9 | 3.0 | 1.5 | .3 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 837 | 4 |
| 6-7 | * | 3.7 | 11.5 | 7.7 | 6.4 | 3.1 | 1.3 | .7 | .3 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 902 | 5 |
| 8-9 | .0 | .5 | 2.7 | 3.7 | 4.3 | 1.7 | 1.2 | .3 | .7 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 392 | 6 |
| 10-11 | .0 | 1.0 | 2.9 | 1.2 | 1.5 | 1.0 | .8 | .6 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 239 | 6 |
| 12-13 | .0 | .0 | .5 | .1 | .5 | .2 | .2 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 45 | 7 |
| >13 | .0 | .0 | .0 | .2 | .2 | .3 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 24 | 8 |
| INDET | 3.0 | 1.0 | .6 | .7 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 153 | 2 |
| TOTAL | 106 | 368 | 772 | 534 | 415 | 205 | 102 | 44 | 42 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2592 | 5 |
| PCT | 4.1 | 14.2 | 29.8 | 20.6 | 16.0 | 7.9 | 3.9 | 1.7 | 1.6 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | .4 | .6 | .0 | .0 | .0 | .0 | 1.2 | .3 | .1 | 3.6 | .0 | 2.6 | * | | 92.3 |
| NE | .6 | .6 | .0 | .0 | .0 | .0 | .0 | 1.1 | .0 | .3 | 4.7 | .1 | 4.7 | .6 | | 88.4 |
| E | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | 1.6 | 3.3 | .0 | 4.9 | 1.2 | 5.8 | .0 | | 89.1 |
| SE | 4.6 | .3 | 2.0 | .0 | .0 | .0 | .0 | 7.0 | .0 | 5.3 | 2.6 | .0 | 1.3 | .0 | | 83.8 |
| S | 1.7 | 1.7 | 2.3 | .0 | .0 | .0 | .0 | 5.6 | 1.3 | .0 | 2.6 | .8 | 4.1 | .0 | | 85.5 |
| SW | .6 | .2 | 1.3 | .0 | .0 | .0 | .0 | 2.1 | 1.0 | .0 | 3.2 | .0 | 5.1 | .1 | | 88.4 |
| W | .4 | .0 | 1.1 | .0 | .0 | .0 | .0 | 1.5 | .2 | .0 | 3.2 | .1 | 4.7 | .3 | | 90.1 |
| NW | .1 | .2 | .4 | .0 | .0 | .0 | .0 | .7 | .6 | .1 | 4.4 | .1 | 2.7 | * | | 91.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 17.5 | .0 | 4.2 | .8 | | 77.5 |
| TOT PCT | .3 | .3 | .6 | .0 | .0 | .0 | .0 | 1.2 | .5 | .1 | 4.2 | .1 | 3.2 | .1 | | 90.6 |
| TOT OBS: | 5048 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .4 | .3 | .2 | .0 | .0 | .0 | .0 | .9 | .4 | .1 | 4.1 | .0 | 3.9 | .1 | | 90.5 |
| 06&09 | .5 | .3 | .4 | .0 | .0 | .0 | .0 | 1.2 | .6 | .2 | 3.6 | .3 | 2.3 | .1 | | 91.7 |
| 12&15 | .2 | .4 | 1.1 | .0 | .0 | .0 | .0 | 1.7 | .4 | .2 | 4.9 | .2 | 3.0 | .2 | | 89.6 |
| 18&21 | .2 | .2 | .8 | .0 | .0 | .0 | .0 | 1.1 | .5 | .1 | 4.1 | .0 | 3.4 | .1 | | 90.7 |
| TOT PCT | .3 | .3 | .6 | .0 | .0 | .0 | .0 | 1.2 | .5 | .1 | 4.2 | .1 | 3.2 | .1 | | 90.6 |
| TOT OBS: | 5091 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 9.4 | 17.0 | 5.2 | .5 | .0 | | 33.0 | 14.8 | 35.6 | 32.2 | 31.7 | 33.2 | 31.3 | 32.6 | 35.3 | 30.5 |
| NE | .3 | 1.7 | 1.2 | .2 | * | .0 | | 3.4 | 10.6 | 3.4 | 3.7 | 3.8 | 2.7 | 3.7 | 2.7 | 3.4 | 3.0 |
| E | .3 | .7 | .2 | .1 | .0 | .0 | | 1.2 | 7.4 | .9 | 1.6 | 2.3 | .5 | 1.0 | 1.6 | 1.1 | 1.0 |
| SE | .2 | .8 | .3 | .1 | .0 | .0 | | 1.5 | 8.4 | 1.9 | 2.8 | 1.0 | 1.8 | .6 | 1.6 | 1.0 | 2.0 |
| S | .3 | 1.5 | .8 | .1 | * | .0 | | 2.7 | 9.7 | 2.7 | 2.5 | 2.6 | 3.8 | 2.9 | 2.5 | 2.5 | 2.4 |
| SW | .5 | 2.5 | 1.4 | * | * | .0 | | 4.5 | 8.9 | 4.2 | 3.7 | 3.9 | 3.2 | 3.6 | 5.5 | 4.9 | 7.2 |
| W | .8 | 7.6 | 3.5 | .3 | * | .0 | | 12.2 | 9.3 | 9.8 | 12.8 | 12.9 | 13.2 | 14.6 | 12.3 | 10.9 | 12.4 |
| NW | 1.3 | 12.6 | 20.1 | 4.9 | .4 | .0 | | 39.2 | 14.0 | 39.2 | 39.5 | 39.5 | 39.1 | 39.7 | 39.4 | 37.6 | 40.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | | 2.3 | .0 | 2.3 | 1.2 | 2.4 | 2.5 | 2.7 | 1.9 | 3.1 | 1.6 |
| TOT OBS | 367 | 1952 | 2348 | 568 | 47 | 0 | 5282 | | 12.8 | 942 | 416 | 744 | 293 | 884 | 481 | 849 | 573 |
| TOT PCT | 6.9 | 37.0 | 44.5 | 10.8 | .9 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.1 | 16.5 | 10.6 | 1.8 | * | | 33.0 | 14.8 | 34.5 | 32.2 | 31.7 | 33.4 |
| NE | 1.1 | 1.7 | .6 | .1 | .0 | | 3.4 | 10.6 | 3.5 | 3.4 | 3.3 | 3.3 |
| E | .9 | .2 | .2 | .0 | .0 | | 1.2 | 7.4 | 1.1 | 1.6 | 1.2 | 1.1 |
| SE | .8 | .5 | .2 | * | .0 | | 1.5 | 8.4 | 2.2 | 1.3 | 1.0 | 1.4 |
| S | .8 | 1.6 | .2 | * | .0 | | 2.7 | 9.7 | 2.7 | 3.0 | 2.7 | 2.5 |
| SW | 1.6 | 2.6 | .3 | * | .0 | | 4.5 | 8.9 | 4.0 | 3.7 | 4.2 | 5.8 |
| W | 3.8 | 7.5 | .8 | .1 | .0 | | 12.2 | 9.3 | 10.7 | 13.0 | 13.8 | 11.5 |
| NW | 5.6 | 20.5 | 11.7 | 1.4 | * | | 39.2 | 14.0 | 39.3 | 39.4 | 39.6 | 38.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | 2.3 | .0 | 2.0 | 2.5 | 2.4 | 2.5 |
| TOT OBS | 1108 | 2695 | 1298 | 178 | 3 | 5282 | | 12.8 | 1358 | 1137 | 1365 | 1422 |
| TOT PCT | 21.0 | 51.0 | 24.6 | 3.4 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

OCTOBER

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 3.9 | 35.9 | 45.0 | 12.6 | .6 | .0 | 13.2 | 100.0 | 1358 |
| 06&09 | 2.5 | 4.2 | 36.5 | 44.1 | 11.2 | 1.6 | .0 | 13.0 | 100.0 | 1137 |
| 12&15 | 2.4 | 5.1 | 38.1 | 45.5 | 8.0 | 1.0 | .0 | 12.3 | 100.0 | 1365 |
| 18&21 | 2.5 | 5.2 | 37.2 | 43.2 | 11.3 | .6 | .0 | 12.5 | 100.0 | 1422 |
| TOT | 123 | 244 | 1952 | 2348 | 568 | 47 | 0 | 12.8 | | 5282 |
| PCT | 2.3 | 4.6 | 37.0 | 44.5 | 10.8 | .9 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 12.2 | 5.6 | 8.0 | 11.1 | | 4.5 |
| NE | 1.2 | .3 | .7 | 1.4 | | 4.8 |
| E | .7 | .1 | .1 | .3 | | 3.2 |
| SE | .3 | .1 | .3 | .4 | | 5.5 |
| S | .7 | .2 | .7 | .7 | | 4.9 |
| SW | 1.1 | .4 | 1.0 | 1.0 | | 4.8 |
| W | 3.5 | .9 | 2.0 | 3.4 | | 4.6 |
| NW | 14.2 | 4.7 | 8.1 | 11.8 | | 4.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .8 | .2 | .4 | 1.3 | | 5.0 |
| TOT OBS | 1234 | 443 | 754 | 1124 | 3555 | 4.5 |
| TOT PCT | 34.7 | 12.5 | 21.2 | 31.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .4 | .1 | .7 | 2.2 | 6.5 | 6.6 | 1.0 | * | .1 | .1 | 19.2 | |
| NE | * | * | * | .2 | .6 | .9 | .1 | .0 | * | * | 1.7 | |
| E | .0 | .0 | * | .1 | .2 | .1 | .0 | .0 | .0 | * | .9 | |
| SE | .0 | .0 | * | .1 | .3 | .3 | * | .0 | .0 | * | .4 | |
| S | * | .0 | * | .2 | .7 | .2 | * | * | * | .1 | 1.0 | |
| SW | .1 | .0 | .1 | .3 | .6 | .3 | .2 | .0 | .1 | .1 | 1.9 | |
| W | .2 | * | .1 | .7 | 2.1 | 1.2 | .3 | .0 | .0 | .0 | 5.2 | |
| NW | .5 | .1 | .6 | 2.6 | 8.4 | 5.0 | .8 | .1 | .1 | .1 | 20.6 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .0 | .0 | .1 | .2 | .7 | .2 | .3 | .1 | .0 | * | 1.1 | |
| TOT OBS | 43 | 7 | 61 | 233 | 711 | 527 | 97 | 9 | 13 | 17 | 1837 | 3555 |
| TOT PCT | 1.2 | .2 | 1.7 | 6.6 | 20.0 | 14.8 | 2.7 | .3 | .4 | .5 | 51.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | .8 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | .9 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >3500 | 3.3 | 3.6 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| * OR >2000 | 16.3 | 18.5 | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 |
| * OR >1000 | 30.2 | 37.9 | 38.6 | 38.6 | 38.6 | 38.6 | 38.6 | 38.6 |
| * OR >600 | 33.6 | 44.3 | 45.1 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 |
| * OR >300 | 34.3 | 45.5 | 46.7 | 46.8 | 46.9 | 46.9 | 46.9 | 46.9 |
| * OR >150 | 34.4 | 45.6 | 46.8 | 47.0 | 47.1 | 47.1 | 47.1 | 47.1 |
| * OR > 0 | 34.5 | 46.0 | 47.2 | 47.5 | 47.8 | 47.9 | 48.2 | 48.3 |
| TOTAL | 1230 | 1640 | 1685 | 1694 | 1706 | 1710 | 1720 | 1725 |

TOTAL NUMBER OF OBS: 3568 PCT FREQ NH <5/8: 51.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 23.0 | 6.1 | 10.0 | 6.8 | 5.7 | 4.4 | 7.2 | 7.7 | 28.1 | 1.0 | 3734 |

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | NO PCP | .2 | * | .0 | .0 | .0 | * | .2 | .5 | .0 | .0 | .8 | |
| | TOT % | .2 | * | .0 | .0 | .0 | * | .2 | .5 | .0 | .0 | .8 | |
| 1/2<1 | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .6 | * | * | .0 | * | * | * | .3 | .0 | * | 1.1 | |
| | TOT % | .6 | * | * | .0 | * | * | * | .3 | .0 | * | 1.1 | |
| 1<2 | PCP | * | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .1 | * | * | .0 | * | .0 | * | .1 | .0 | * | .3 | |
| | TOT % | .1 | * | * | .0 | * | .0 | * | .1 | .0 | * | .3 | |
| 2<5 | PCP | * | .0 | * | * | * | * | * | .1 | .0 | .0 | .3 | |
| | NO PCP | .4 | .1 | * | .1 | .1 | .1 | .3 | .5 | .0 | .1 | 1.7 | |
| | TOT % | .5 | .1 | .1 | .1 | .1 | .1 | .3 | .6 | .0 | .1 | 2.0 | |
| 5<10 | PCP | .2 | * | .0 | * | .1 | .1 | .1 | .1 | .0 | .0 | .7 | |
| | NO PCP | 7.2 | .8 | .3 | .5 | .4 | .9 | 2.8 | 9.2 | .0 | .7 | 22.8 | |
| | TOT % | 7.4 | .9 | .3 | .5 | .5 | 1.0 | 2.9 | 9.3 | .0 | .7 | 23.5 | |
| 10+ | PCP | .1 | .0 | .0 | * | * | * | * | .1 | .0 | .0 | .2 | |
| | NO PCP | 24.4 | 2.4 | .8 | .8 | 1.9 | 3.3 | 8.8 | 28.1 | .0 | 1.5 | 72.0 | |
| | TOT % | 24.5 | 2.4 | .8 | .9 | 2.0 | 3.3 | 8.8 | 28.2 | .0 | 1.5 | 72.3 | |
| | TOT OBS | | | | | | | | | | | | 5040 |
| | TOT PCT | 39.2 | 3.5 | 1.2 | 1.5 | 2.6 | 4.4 | 12.3 | 39.0 | .0 | 2.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | * | |
| | 4-10 | .1 | * | .0 | .0 | .0 | .0 | .1 | .3 | .0 | | .5 | |
| | 11-21 | .1 | * | .0 | .0 | .0 | * | .1 | .3 | .0 | | .4 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .2 | * | .0 | .0 | .0 | * | .2 | .6 | .0 | .0 | 1.0 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | .0 | * | * | * | .0 | * | .1 | |
| | 4-10 | .2 | * | * | .0 | * | * | * | .2 | .0 | | .5 | |
| | 11-21 | .3 | * | .0 | .0 | * | .0 | * | .2 | .0 | | .5 | |
| | 22+ | .1 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | | .2 | |
| | TOT % | .6 | * | * | .0 | .1 | * | .1 | .4 | .0 | * | 1.3 | |
| 1<2 | 0-3 | .0 | * | * | .0 | .0 | * | * | * | .0 | * | .1 | |
| | 4-10 | .1 | * | * | .0 | * | * | * | * | .0 | | .3 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | * | * | * | .0 | * | * | .0 | | .1 | |
| | TOT % | .1 | * | .1 | * | * | * | .1 | .2 | .0 | * | .7 | |
| 2<5 | 0-3 | * | * | .0 | * | * | * | .1 | * | .0 | .1 | .3 | |
| | 4-10 | .2 | .1 | * | .0 | .1 | * | .3 | .4 | .0 | | 1.1 | |
| | 11-21 | .2 | * | * | .1 | * | * | .1 | .3 | .0 | | .8 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .5 | .1 | .1 | .1 | .1 | .1 | .4 | .8 | .0 | .1 | 2.3 | |
| 5<10 | 0-3 | .4 | .1 | .1 | .1 | .1 | .1 | .3 | .4 | .0 | .7 | 2.6 | |
| | 4-10 | 2.2 | .4 | .1 | .3 | .3 | .7 | 1.6 | 2.9 | .0 | | 8.5 | |
| | 11-21 | 3.9 | .4 | .1 | .1 | .1 | .1 | .9 | 4.8 | .0 | | 10.4 | |
| | 22+ | .7 | * | .0 | * | .1 | * | * | 1.1 | .0 | | 2.0 | |
| | TOT % | 7.3 | .9 | .3 | .5 | .5 | 1.0 | 2.9 | 9.2 | .0 | .7 | 23.2 | |
| 10+ | 0-3 | .5 | .1 | .1 | .1 | .1 | .3 | .4 | .7 | .0 | 1.5 | 3.9 | |
| | 4-10 | 6.5 | 1.2 | .5 | .5 | 1.1 | 1.7 | 5.8 | 8.6 | .0 | | 26.0 | |
| | 11-21 | 12.5 | .8 | .1 | .2 | .6 | 1.2 | 2.3 | 14.6 | .0 | | 32.3 | |
| | 22+ | 4.8 | .2 | * | * | * | * | .3 | 4.1 | .0 | | 9.5 | |
| | TOT % | 24.3 | 2.4 | .7 | .8 | 1.9 | 3.2 | 8.7 | 28.0 | .0 | 1.5 | 71.6 | |
| | TOT OBS | | | | | | | | | | | | 5144 |
| | TOT PCT | 32.9 | 3.4 | 1.2 | 1.5 | 2.6 | 4.4 | 12.3 | 39.2 | .0 | 2.4 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | .2 | 1.5 | 6.2 | 18.1 | 14.3 | 3.5 | .1 | .2 | .2 | 45.6 | 54.4 | 938 |
| 06&09 | .8 | .0 | 1.0 | 6.7 | 18.6 | 13.3 | 2.4 | .1 | .3 | .7 | 44.0 | 56.0 | 877 |
| 12&15 | 1.4 | .1 | 2.1 | 6.5 | 22.0 | 13.3 | 2.1 | .3 | .4 | .7 | 48.9 | 51.1 | 914 |
| 18&21 | 1.4 | .4 | 2.0 | 6.5 | 19.3 | 17.4 | 2.6 | .4 | .5 | .3 | 50.9 | 49.1 | 929 |
| TOT | 45 | 7 | 61 | 236 | 713 | 535 | 97 | 9 | 14 | 17 | 1734 | 1924 | 3658 |
| PCT | 1.2 | .2 | 1.7 | 6.5 | 19.5 | 14.6 | 2.7 | .2 | .4 | .5 | 47.4 | 52.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 1.5 | 1.0 | 2.5 | 21.3 | 72.6 | 1356 |
| 06&09 | .7 | .9 | .2 | 1.5 | 25.7 | 71.0 | 1131 |
| 12&15 | 1.3 | 1.3 | .4 | 3.0 | 26.7 | 67.3 | 1347 |
| 18&21 | .7 | 1.3 | 1.0 | 2.0 | 19.8 | 75.2 | 1353 |
| TOT | 50 | 66 | 34 | 119 | 1208 | 3710 | 5187 |
| PCT | 1.0 | 1.3 | .7 | 2.3 | 23.3 | 71.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 3.2 | 10.2 | 36.6 | 53.2 | 912 |
| 06&09 | .8 | 2.1 | 9.4 | 35.5 | 55.2 | 863 |
| 12&15 | 1.5 | 3.8 | 12.1 | 38.2 | 49.7 | 890 |
| 18&21 | 1.4 | 4.1 | 11.6 | 41.2 | 47.2 | 903 |
| TOT | 45 | 118 | 387 | 1352 | 1829 | 3568 |
| PCT | 1.3 | 3.3 | 10.8 | 37.9 | 51.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | * |
| 75/79 | .0 | * | * | .2 | .1 | .2 | .1 | .0 | 19 | .5 |
| 70/74 | .0 | .0 | .0 | .3 | .9 | 1.2 | .8 | .3 | 136 | 3.6 |
| 65/69 | .0 | .0 | .1 | .3 | 3.0 | 9.6 | 9.6 | 3.2 | 1054 | 27.8 |
| 60/64 | .0 | .0 | .1 | .4 | 4.4 | 18.0 | 25.8 | 10.7 | 2252 | 59.3 |
| 55/59 | .0 | .0 | * | .1 | .6 | 1.3 | 3.5 | 3.2 | 333 | 8.8 |
| 50/54 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | 3 | .1 |
| TOTAL | 0 | 1 | 8 | 47 | 345 | 1148 | 1508 | 741 | 3798 | 100.0 |
| PCT | .0 | * | .2 | 1.2 | 9.1 | 30.2 | 39.7 | 19.5 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| .1 | * | .0 | .0 | .0 | * | .1 | .2 | .0 | * |
| 1.1 | .1 | .1 | * | .2 | .3 | .6 | .9 | .0 | .1 |
| 8.1 | .9 | .6 | .7 | 1.4 | 2.5 | 4.0 | 8.7 | .0 | .8 |
| 18.5 | 1.9 | .5 | .4 | 1.2 | 2.1 | 8.1 | 25.5 | .0 | 1.1 |
| 2.5 | .2 | .1 | .1 | .1 | .3 | 1.0 | 4.3 | .0 | .2 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 30.4 | 3.1 | 1.3 | 1.3 | 2.9 | 5.2 | 13.8 | 39.7 | .0 | 2.4 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 75 | 70 | 64 | 59 | 57 | 55 | 64.2 | 1367 |
| 06&09 | 74 | 68 | 67 | 63 | 58 | 55 | 54 | 62.5 | 1142 |
| 12&15 | 74 | 68 | 66 | 62 | 58 | 55 | 53 | 62.1 | 1371 |
| 18&21 | 77 | 73 | 70 | 64 | 59 | 56 | 54 | 64.3 | 1425 |
| TOT | 81 | 72 | 69 | 63 | 58 | 56 | 53 | 63.3 | 5305 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.4 | 11.2 | 32.9 | 38.2 | 15.3 | 80 | 992 |
| 06&09 | .0 | .7 | 6.6 | 24.3 | 44.5 | 23.8 | 83 | 844 |
| 12&15 | .0 | 1.0 | 5.6 | 27.3 | 40.5 | 25.6 | 84 | 978 |
| 18&21 | .0 | 1.6 | 12.5 | 35.3 | 36.3 | 14.2 | 80 | 1005 |
| TOT | 0 | 56 | 348 | 1153 | 1516 | 748 | 81 | 3819 |

OCTOBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1957-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | 3 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | 8 | .0 | .2 |
| 9/10 | .0 | .0 | * | .1 | .1 | .2 | .1 | .0 | 21 | .0 | .5 |
| 7/8 | .0 | .0 | .1 | .2 | .6 | .2 | .0 | .0 | 51 | .0 | 1.1 |
| 6 | .0 | .0 | * | .3 | .4 | .1 | .0 | .0 | 38 | * | .8 |
| 5 | .0 | * | .2 | .5 | .9 | .2 | .0 | .0 | 81 | * | 1.7 |
| 4 | .0 | .1 | .7 | 1.3 | .3 | .2 | .0 | .0 | 119 | .1 | 2.5 |
| 3 | .0 | * | .7 | 2.1 | .4 | .1 | .0 | .0 | 158 | .1 | 3.3 |
| 2 | .0 | .3 | 2.8 | 3.1 | .4 | * | * | .0 | 308 | .2 | 6.5 |
| 1 | * | .5 | 3.6 | 4.4 | .5 | * | .0 | .0 | 419 | .4 | 8.7 |
| 0 | .0 | 1.1 | 8.9 | 4.3 | .3 | .0 | .0 | .0 | 676 | .6 | 14.0 |
| -1 | .1 | 1.9 | 8.1 | 3.6 | .1 | .0 | .0 | .0 | 639 | .5 | 13.3 |
| -2 | .1 | 3.1 | 9.9 | 1.8 | .2 | .0 | .0 | .0 | 698 | .6 | 14.4 |
| -3 | .2 | 2.6 | 6.5 | 1.3 | * | .0 | .0 | .0 | 485 | .4 | 10.1 |
| -4 | .2 | 2.4 | 3.9 | .9 | .0 | .0 | .0 | .0 | 342 | .2 | 7.2 |
| -5 | .3 | 1.7 | 2.6 | .7 | .0 | .0 | .0 | .0 | 244 | .4 | 4.9 |
| -6 | .2 | 1.1 | 1.5 | .2 | .0 | .0 | .0 | .0 | 133 | .2 | 2.7 |
| -7/-8 | .2 | 1.1 | 1.9 | .2 | .0 | .0 | .0 | .0 | 156 | .3 | 3.1 |
| -9/-10 | .1 | .3 | .3 | * | .0 | .0 | .0 | .0 | 35 | .1 | .7 |
| -11/-13 | .0 | * | .1 | * | .0 | .0 | .0 | .0 | 8 | * | .1 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | * | .0 |
| TOTAL | 62 | 753 | 2393 | 1159 | 200 | 46 | 10 | 1 | 4624 | 194 | 4430 |
| PCT | 1.3 | 16.3 | 51.8 | 25.1 | 4.3 | 1.0 | .2 | * | 100.0 | 4.2 | 95.8 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 2.1 | .1 | .0 | .0 | .0 | 2.5 |
| 1-2 | .3 | 4.0 | 3.4 | .0 | .0 | .0 | 7.6 |
| 3-4 | .2 | 1.7 | 6.7 | 1.1 | .0 | .0 | 9.6 |
| 5-6 | .1 | .5 | 4.1 | 2.0 | .1 | .0 | 6.8 |
| 7 | .0 | .1 | 2.1 | .5 | .1 | .0 | 2.8 |
| 8-9 | .1 | .0 | .7 | .9 | .0 | .0 | 1.7 |
| 10-11 | .0 | .0 | .8 | .4 | .6 | .0 | 1.7 |
| 12 | .0 | .0 | .2 | .2 | .0 | .0 | .4 |
| 13-16 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 17-19 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 8.3 | 18.0 | 5.2 | .8 | .0 | 33.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .6 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .5 | .7 | .1 | .0 | .0 | 1.3 |
| 5-6 | .0 | .1 | .5 | .0 | * | .0 | .6 |
| 7 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 1.7 | 1.7 | .3 | * | .0 | 3.8 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | .2 | .1 | .0 | .0 | .0 | .3 |
| 3-4 | .1 | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | .2 | .1 | .0 | .0 | 1.4 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | .2 | .2 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .6 | .4 | * | .0 | .0 | 1.3 |

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0033 SANTA ROSA IS. SW

TABLE 18 (CONT) 32.6N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | .4 | .0 | .0 | .0 | .0 | .4 | .2 | .6 | .1 | .0 | .0 | .0 | .9 |
| 1-2 | .0 | .5 | .4 | .0 | .0 | .0 | .9 | .1 | 1.4 | .8 | .0 | .0 | .0 | 2.4 |
| 3-4 | .1 | .4 | .3 | .1 | .0 | .0 | .9 | .0 | .1 | .7 | * | .0 | .0 | .9 |
| 5-6 | .0 | .1 | .3 | .0 | .0 | .0 | .4 | .1 | .2 | .4 | .0 | .0 | .0 | .7 |
| 7 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.3 | 1.1 | .2 | .1 | .0 | 2.8 | .4 | 2.4 | 2.0 | * | .1 | .0 | 4.9 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .9 | .1 | .0 | .0 | .0 | 1.3 | .2 | 1.9 | .2 | .0 | .0 | .0 | 2.3 | |
| 1-2 | .1 | 3.4 | 1.1 | .0 | .0 | .0 | 4.6 | .4 | 4.9 | 5.2 | .0 | .0 | .0 | 10.5 | |
| 3-4 | .0 | 1.4 | .7 | .3 | .0 | .0 | 2.4 | .1 | 2.9 | 9.0 | 1.4 | .0 | .0 | 13.4 | |
| 5-6 | .0 | .4 | .6 | .0 | .0 | .0 | 1.0 | .0 | .7 | 4.0 | 1.8 | .0 | .0 | 6.5 | |
| 7 | .0 | .2 | .1 | .1 | .0 | .0 | .3 | .0 | .3 | 2.8 | 1.6 | .2 | .0 | 4.8 | |
| 8-9 | .0 | .1 | .1 | .1 | .0 | .0 | .3 | .0 | .1 | .9 | .7 | .1 | .0 | 1.8 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | .3 | .1 | .0 | .8 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .4 | 6.4 | 2.9 | .5 | .0 | .0 | 9.9 | .7 | 10.8 | 22.6 | 6.0 | .4 | .0 | 40.3 | 97.6 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.7 | 7.2 | .4 | .0 | .0 | .0 | 11.3 | |
| 1-2 | 1.1 | 15.3 | 11.2 | .0 | .0 | .0 | 27.7 | |
| 3-4 | .4 | 7.1 | 18.3 | 3.1 | .0 | .0 | 28.9 | |
| 5-6 | .2 | 1.9 | 10.0 | 3.7 | .2 | .0 | 15.9 | |
| 7 | .0 | .5 | 5.4 | 2.2 | .3 | .0 | 8.4 | |
| 8-9 | .1 | .2 | 1.7 | 2.0 | .1 | .0 | 4.0 | |
| 10-11 | .0 | .0 | 1.2 | .9 | .8 | .0 | 2.8 | |
| 12 | .0 | .0 | .2 | .3 | .0 | .0 | .4 | |
| 13-16 | .0 | .0 | .2 | .3 | .0 | .0 | .4 | |
| 17-19 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 5.5 | 32.2 | 48.6 | 12.4 | 1.4 | .0 | 100.0 | 1174 |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.5 | 10.1 | 15.8 | 5.6 | 3.2 | 1.1 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1109 | 4 |
| 6-7 | .1 | 1.6 | 6.7 | 7.1 | 5.3 | 3.6 | 1.4 | 1.0 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 794 | 6 |
| 8-9 | .0 | .5 | 1.8 | 2.1 | 3.8 | 1.9 | 2.3 | .6 | .5 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 399 | 7 |
| 10-11 | .0 | 1.0 | 1.6 | 1.8 | 1.8 | 1.4 | .6 | .5 | .4 | .0 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 271 | 6 |
| 12-13 | .0 | .0 | .3 | .5 | .7 | .1 | .2 | 1.0 | .3 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 95 | 9 |
| >13 | .0 | .0 | .0 | .1 | .1 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 15 | 9 |
| INDET | 4.2 | 2.5 | .8 | .4 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 246 | 2 |
| TOTAL | 169 | 457 | 789 | 518 | 446 | 244 | 148 | 96 | 49 | 8 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2929 | 5 |
| PCT | 5.8 | 15.6 | 26.9 | 17.7 | 15.2 | 8.3 | 5.1 | 3.3 | 1.7 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .6 | .6 | .7 | .0 | .0 | .0 | .0 | 1.8 | .5 | .1 | 3.3 | 1 | 2.1 | | .0 | 92.1 |
| NE | 1.9 | 1.6 | 1.6 | .0 | .0 | .0 | .0 | 5.2 | 1.6 | .2 | 4.9 | .0 | 6.4 | | .0 | 81.6 |
| E | 2.5 | .9 | 2.5 | .0 | .0 | .0 | .0 | 5.8 | 4.0 | .0 | 1.8 | .0 | 7.6 | | .9 | 79.9 |
| SE | 9.4 | 1.3 | 2.8 | .0 | .0 | .0 | .0 | 12.6 | 3.2 | .0 | .9 | .0 | 1.7 | | .0 | 81.6 |
| S | 3.8 | .2 | 1.8 | .0 | .1 | .0 | .0 | 5.8 | 3.6 | .0 | 2.9 | .0 | 1.0 | | .0 | 86.8 |
| SW | 2.8 | 1.0 | 2.1 | .0 | .0 | .0 | .0 | 5.9 | 4.5 | .0 | 4.0 | .0 | 2.5 | | .0 | 83.1 |
| W | 1.9 | 1.7 | 1.6 | .0 | .0 | .0 | .0 | 5.2 | 1.1 | .0 | 4.9 | .5 | 1.3 | | .2 | 86.8 |
| NW | .6 | .4 | .5 | .0 | .0 | .0 | .0 | 1.5 | .8 | * | 3.6 | .3 | 1.8 | | .0 | 92.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | 7.5 | .0 | 6.7 | | .0 | 85.1 |
| TOT PCT | 1.3 | .7 | 1.0 | .0 | .0 | .0 | .0 | 3.0 | 1.2 | .1 | 3.7 | .2 | 2.3 | | * | 89.5 |
| TOT OBS: | 4579 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | 1.1 | .8 | .7 | .0 | .0 | .0 | .0 | 2.5 | .6 | .1 | 3.4 | .1 | 3.5 | | .0 | 89.8 |
| 06&09 | 1.7 | .6 | .9 | .0 | .0 | .0 | .0 | 3.2 | 1.5 | .0 | 3.5 | .3 | 1.8 | | .0 | 89.7 |
| 12&15 | 1.3 | .8 | 1.5 | .0 | .0 | .0 | .0 | 3.6 | 2.1 | .2 | 3.6 | .1 | 1.9 | | .0 | 88.5 |
| 18&21 | 1.3 | .6 | .8 | .0 | .0 | .0 | .0 | 2.7 | .9 | .0 | 4.1 | .2 | 2.0 | | .2 | 89.9 |
| TOT PCT | 1.3 | .7 | 1.0 | .0 | .0 | .0 | .0 | 3.0 | 1.3 | .1 | 3.7 | .2 | 2.3 | | * | 89.5 |
| TOT OBS: | 4612 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .6 | 10.0 | 16.1 | 4.3 | .3 | .0 | | 31.3 | 14.2 | 32.8 | 35.1 | 30.8 | 40.0 | 28.5 | 30.4 | 29.6 | 29.4 |
| NE | .2 | 2.3 | 1.7 | .4 | * | .0 | | 4.7 | 11.5 | 3.5 | 4.9 | 5.0 | 5.8 | 3.8 | 5.0 | 5.1 | 5.8 |
| E | .3 | 1.3 | .7 | .1 | * | .0 | | 2.4 | 10.0 | 2.3 | 2.6 | 2.0 | 2.8 | 2.3 | 1.9 | 2.9 | 2.2 |
| SE | .3 | 1.4 | .6 | .2 | * | .0 | | 2.6 | 10.1 | 2.7 | 2.4 | 2.3 | 2.5 | 2.1 | 2.9 | 2.9 | 2.8 |
| S | .4 | 1.7 | 1 | .2 | * | .0 | | 4.4 | 11.6 | 4.7 | 3.0 | 4.0 | 3.4 | 4.9 | 2.7 | 6.4 | 3.9 |
| SW | .3 | 2.8 | 1.9 | .2 | * | .0 | | 5.2 | 10.5 | 5.9 | 4.7 | 6.3 | 2.7 | 6.5 | 3.9 | 4.9 | 4.4 |
| W | .9 | 5.2 | 4.5 | .7 | * | .0 | | 11.3 | 11.0 | 10.8 | 11.3 | 10.6 | 7.3 | 12.4 | 12.8 | 11.3 | 12.0 |
| NW | .9 | 10.8 | 18.5 | 4.4 | .3 | .0 | | 35.0 | 14.1 | 34.1 | 33.9 | 35.9 | 32.6 | 35.2 | 37.2 | 33.8 | 37.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.1 | | | | | | | 3.1 | .0 | 3.1 | 2.1 | 3.1 | 2.8 | 4.3 | 3.4 | 3.1 | 2.3 |
| TOT OBS | 342 | 1712 | 2226 | 501 | 34 | 0 | 4815 | | 12.7 | 897 | 380 | 673 | 283 | 765 | 447 | 814 | 556 |
| TOT PCT | 7.1 | 35.6 | 46.2 | 10.4 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.0 | 16.6 | 9.4 | 1.2 | * | | 31.3 | 14.2 | 33.5 | 33.5 | 29.2 | 29.5 |
| NE | 1.4 | 2.2 | 1.0 | .1 | .0 | | 4.7 | 11.5 | 3.9 | 5.3 | 4.2 | 5.4 |
| E | .7 | 1.4 | .3 | * | .0 | | 2.4 | 10.0 | 2.4 | 2.2 | 2.2 | 2.7 |
| SE | 1.0 | 1.2 | .3 | .1 | .0 | | 2.6 | 10.1 | 2.6 | 2.3 | 2.4 | 2.8 |
| S | .8 | 2.7 | .8 | * | .0 | | 4.4 | 11.6 | 4.2 | 3.8 | 4.1 | 5.4 |
| SW | 1.6 | 2.9 | .7 | .1 | .0 | | 5.2 | 10.5 | 5.6 | 5.3 | 5.5 | 4.7 |
| W | 2.9 | 6.6 | 1.5 | .2 | .0 | | 11.3 | 11.0 | 10.9 | 9.6 | 12.5 | 11.6 |
| NW | 4.4 | 19.4 | 9.6 | 1.6 | * | | 35.0 | 14.1 | 34.0 | 34.9 | 36.0 | 35.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.1 | | | | | | 3.1 | .0 | 2.8 | 3.0 | 4.0 | 2.8 |
| TOT OBS | 964 | 2547 | 1142 | 159 | 3 | 4815 | | 12.7 | 1277 | 956 | 1212 | 1370 |
| TOT PCT | 20.0 | 52.9 | 23.7 | 3.3 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.8 | 4.0 | 33.8 | 46.0 | 12.1 | 1.3 | .0 | 13.3 | 100.0 | 1277 |
| 06&09 | 3.0 | 3.3 | 38.4 | 45.3 | 9.1 | .8 | .0 | 12.5 | 100.0 | 936 |
| 12&15 | 4.0 | 4.1 | 33.7 | 48.4 | 9.4 | .3 | .0 | 12.4 | 100.0 | 1212 |
| 18&21 | 2.8 | 4.2 | 36.9 | 45.1 | 10.6 | .4 | .0 | 12.6 | 100.0 | 1370 |
| TOT | 151 | 191 | 1712 | 2226 | 501 | 34 | 0 | 12.7 | | 4815 |
| PCT | 3.1 | 4.0 | 35.6 | 46.2 | 10.4 | .7 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 12.8 | 4.6 | 8.5 | 7.1 | | 4.0 |
| NE | 2.1 | .4 | 1.0 | 1.0 | | 3.6 |
| E | .9 | .2 | .5 | .9 | | 4.5 |
| SE | .7 | .2 | .8 | .9 | | 5.3 |
| S | .8 | .7 | 2.0 | 1.9 | | 5.9 |
| SW | 1.3 | .6 | 1.7 | 2.2 | | 5.4 |
| W | 3.0 | 1.3 | 3.3 | 3.0 | | 4.8 |
| NW | 12.1 | 4.9 | 8.4 | 6.6 | | 4.0 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.2 | .4 | .9 | 1.2 | | 4.7 |
| TOT OBS | 1066 | 406 | 827 | 756 | 3055 | 4.3 |
| TOT PCT | 34.9 | 13.3 | 27.1 | 24.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| .5 | .2 | .5 | 1.9 | 5.5 | 4.2 | .5 | .2 | .1 | .1 | 19.2 | |
| * | * | .1 | .1 | .8 | .5 | * | * | .0 | * | 2.7 | |
| .0 | .0 | .1 | .3 | .3 | .2 | * | * | * | * | 1.5 | |
| .0 | .0 | * | .4 | .5 | .4 | .1 | .0 | * | * | 1.2 | |
| * | .1 | .1 | .5 | .9 | .8 | .1 | .1 | .1 | .1 | 2.6 | |
| .2 | .0 | .2 | .5 | .7 | 1.2 | .2 | .1 | * | * | 2.7 | |
| .2 | .1 | .2 | .9 | 1.9 | [illegible]3 | .1 | .2 | .1 | .1 | 5.6 | |
| .5 | .1 | .8 | 2.2 | 4.3 | 3.6 | .7 | .2 | .1 | .1 | 19.4 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .2 | .0 | .1 | .2 | .6 | .6 | * | * | .0 | .1 | 1.9 | |
| 46 | 15 | 65 | 216 | 475 | 394 | 56 | 23 | 12 | 18 | 1733 | 3055 |
| 1.5 | .5 | 2.1 | 7.1 | 15.5 | 12.9 | 1.8 | .8 | .4 | .6 | 56.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >5000 | 1.3 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >3500 | 2.6 | 3.4 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| * OR >2000 | 12.7 | 16.3 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| * OR >1000 | 23.6 | 31.4 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| * OR >600 | 28.5 | 38.2 | 38.9 | 39.1 | 39.2 | 39.2 | 39.3 | 39.3 |
| * OR >300 | 29.4 | 39.9 | 40.9 | 41.2 | 41.2 | 41.3 | 41.4 | 41.4 |
| * OR >150 | 29.5 | 40.2 | 41.3 | 41.6 | 41.7 | 41.8 | 41.8 | 41.8 |
| * OR > 0 | 29.5 | 40.4 | 41.6 | 42.1 | 42.3 | 42.5 | 42.9 | 43.3 |
| TOTAL | 909 | 1244 | 1280 | 1294 | 1301 | 1307 | 1319 | 1333 |

TOTAL NUMBER OF OBS: 3077

PCT FREQ NH <5/8: 56.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 29.1 | 7.3 | 13.4 | 7.7 | 5.5 | 5.8 | 8.6 | 8.4 | 19.0 | 1.1 | 3254 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| <1/2 | NO PCP | .3 | .1 | .0 | * | * | .1 | .2 | .3 | .0 | * | 1.1 | |
| | TOT % | .3 | .1 | .0 | * | * | .1 | .2 | .4 | .0 | * | 1.2 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 1/2<1 | NO PCP | .2 | .1 | .0 | * | * | * | .1 | .2 | .0 | * | .7 | |
| | TOT % | .2 | .1 | .0 | * | * | * | .1 | .2 | .0 | * | .7 | |
| | PCP | .0 | .0 | * | * | * | * | * | * | .0 | .0 | .2 | |
| 1<2 | NO PCP | .2 | * | * | .0 | .0 | .0 | .1 | .1 | .0 | * | .5 | |
| | TOT % | .2 | * | * | * | * | * | .2 | .2 | .0 | * | .7 | |
| | PCP | * | * | * | .1 | .0 | .1 | .1 | .1 | .0 | .0 | .4 | |
| 2<5 | NO PCP | .5 | .1 | .1 | * | .1 | .1 | .3 | .7 | .0 | .1 | 2.0 | |
| | TOT % | .6 | .1 | .1 | .1 | .1 | .2 | .4 | .8 | .0 | .1 | 2.4 | |
| | PCP | .4 | .2 | .1 | .2 | .1 | .1 | .2 | .3 | .0 | .0 | 1.7 | |
| 5<10 | NO PCP | 5.6 | 1.2 | .8 | .6 | .9 | 1.2 | 2.2 | 6.7 | .0 | .6 | 19.8 | |
| | TOT % | 6.0 | 1.4 | .9 | .8 | 1.1 | 1.3 | 2.4 | 7.0 | .0 | .6 | 21.5 | |
| | PCP | .1 | .1 | .0 | * | .1 | .1 | .2 | .1 | .0 | * | .7 | |
| 10+ | NO PCP | 23.7 | 3.0 | 1.4 | 1.6 | 3.2 | 3.5 | 7.8 | 26.4 | .0 | 2.1 | 72.8 | |
| | TOT % | 23.8 | 3.0 | 1.4 | 1.6 | 3.3 | 3.6 | 8.0 | 26.5 | .0 | 2.1 | 73.5 | |
| | TOT OBS | | | | | | | | | | | | 4576 |
| | TOT PCT | 31.1 | 4.7 | 2.4 | 2.6 | 4.6 | 5.3 | 11.3 | 35.1 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | .0 | .0 | .0 | * | * | * | * | .0 | .1 | .3 | |
| <1/2 | 4-10 | .1 | * | .0 | * | .0 | .1 | .1 | .2 | .0 | | .5 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | | .4 | |
| | 22+ | * | * | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .3 | .1 | .0 | * | * | .1 | .2 | .4 | .0 | .1 | 1.3 | |
| | 0-3 | .0 | .0 | .0 | .0 | * | * | * | .1 | .0 | * | .2 | |
| 1/2<1 | 4-10 | .1 | * | .0 | .0 | .0 | * | * | .1 | .0 | | .2 | |
| | 11-21 | .1 | .1 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | * | * | .0 | .0 | * | .0 | | * | |
| | TOT % | .3 | .1 | .0 | * | * | * | .1 | .2 | .0 | * | .8 | |
| | 0-3 | * | .0 | * | .0 | .0 | .0 | .1 | * | .0 | * | .2 | |
| 1<2 | 4-10 | .1 | * | * | .0 | .0 | * | .1 | .1 | .0 | | .4 | |
| | 11-21 | .1 | * | * | * | .0 | * | .1 | .1 | .0 | | .3 | |
| | 22+ | * | .0 | .0 | .0 | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .3 | * | .1 | * | * | * | .2 | .3 | .0 | * | 1.0 | |
| | 0-3 | * | * | * | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .2 | |
| 2<5 | 4-10 | .3 | * | * | * | * | .1 | .2 | .4 | .0 | | 1.2 | |
| | 11-21 | .4 | .1 | * | * | * | .1 | .2 | .4 | .0 | | 1.2 | |
| | 22+ | .1 | * | * | * | .0 | .0 | .0 | * | .0 | | .2 | |
| | TOT % | .7 | .1 | .1 | .1 | .1 | .2 | .4 | .9 | .0 | .1 | 2.8 | |
| | 0-3 | .2 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .0 | .6 | 1.7 | |
| 5<10 | 4-10 | 2.0 | .7 | .4 | .3 | .3 | .7 | 1.2 | 2.3 | .0 | | 8.0 | |
| | 11-21 | 2.7 | .5 | .3 | .2 | .5 | .4 | .7 | 3.7 | .0 | | 9.2 | |
| | 22+ | .9 | .1 | * | .1 | .1 | * | .2 | .8 | .0 | | 2.3 | |
| | TOT % | 5.8 | 1.3 | .9 | .8 | 1.1 | 1.3 | 2.4 | 7.0 | .0 | .6 | 21.2 | |
| | 0-3 | .3 | .1 | .2 | .3 | .2 | .2 | .5 | .5 | .0 | 2.2 | 4.4 | |
| 10+ | 4-10 | 7.4 | 1.6 | .8 | 1.0 | 1.4 | 1.8 | 3.5 | 7.8 | .0 | | 25.3 | |
| | 11-21 | 12.6 | 1.0 | .3 | .3 | 1.6 | 1.4 | 3.4 | 14.2 | .0 | | 34.9 | |
| | 22+ | 3.4 | .3 | .1 | * | .1 | .2 | .5 | 3.9 | .0 | | 8.4 | |
| | TOT % | 23.7 | 3.0 | 1.4 | 1.6 | 3.3 | 3.6 | 7.9 | 26.3 | .0 | 2.2 | 73.0 | |
| | TOT OBS | | | | | | | | | | | | 4686 |
| | TOT PCT | 31.1 | 4.6 | 2.4 | 2.5 | 4.3 | 5.3 | 11.3 | 35.2 | .0 | 3.1 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.5 | .2 | 1.9 | 8.3 | 15.1 | 11.5 | 2.8 | .7 | .4 | .5 | 43.0 | 57.0 | 845 |
| 06&09 | 1.1 | .7 | 1.6 | 5.5 | 12.9 | 11.4 | 1.5 | .8 | .3 | .7 | 36.3 | 63.7 | 746 |
| 12&15 | 1.2 | .7 | 2.1 | 7.4 | 16.0 | 14.0 | 1.5 | .7 | .7 | .5 | 44.6 | 55.4 | 757 |
| 18&21 | 1.9 | .4 | 2.5 | 6.2 | 15.9 | 13.1 | 1.2 | 1.0 | .4 | .6 | 43.0 | 57.0 | 842 |
| TOT | 46 | 15 | 65 | 219 | 479 | 398 | 96 | 25 | 13 | 18 | 1334 | 1856 | 3190 |
| PCT | 1.4 | .5 | 2.0 | 6.9 | 15.0 | 12.5 | 1.8 | .8 | .4 | .6 | 41.8 | 58.2 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | .6 | 1.2 | 2.3 | 23.1 | 71.1 | 1261 |
| 06&09 | 1.3 | .2 | .3 | 1.7 | 20.8 | 75.7 | 955 |
| 12&15 | 1.0 | 1.4 | 1.1 | 3.7 | 22.8 | 70.1 | 1203 |
| 18&21 | 1.0 | .7 | 1.2 | 3.2 | 18.2 | 75.8 | 1300 |
| TOT | 59 | 36 | 46 | 130 | 1001 | 3447 | 4719 |
| PCT | 1.3 | .8 | 1.0 | 2.8 | 21.2 | 73.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.6 | 4.4 | 14.1 | 32.2 | 53.7 | 801 |
| 06&09 | 1.1 | 3.3 | 10.2 | 27.3 | 62.5 | 736 |
| 12&15 | 1.2 | 4.3 | 13.8 | 33.0 | 53.2 | 739 |
| 18&21 | 2.0 | 5.1 | 13.0 | 33.0 | 54.1 | 801 |
| TOT | 46 | 132 | 394 | 967 | 1716 | 3077 |
| PCT | 1.5 | 4.3 | 12.8 | 31.4 | 55.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | * | .0 | * | * | * | * | .0 | 5 | .1 |
| 70/74 | .0 | * | * | .2 | .3 | .5 | .1 | .1 | 42 | 1.2 |
| 65/69 | .0 | * | .1 | .3 | 1.2 | 2.9 | 4.6 | 1.9 | 389 | 11.2 |
| 60/64 | .0 | * | .1 | 1.4 | 7.9 | 16.6 | 21.1 | 9.5 | 1967 | 56.7 |
| 55/59 | .0 | .0 | * | .5 | 3.9 | 9.2 | 10.6 | 5.5 | 1030 | 29.7 |
| 50/54 | .0 | .0 | .0 | .1 | * | .2 | .3 | .4 | 34 | 1.0 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | * |
| TOTAL | 0 | 4 | 11 | 89 | 464 | 1024 | 1271 | 605 | 3468 | 100.0 |
| PCT | .0 | .1 | .3 | 2.6 | 13.4 | 29.5 | 36.6 | 17.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 |
| .4 | .1 | .1 | .1 | .1 | * | .1 | .3 | .0 | .0 |
| 2.4 | .5 | .3 | .5 | 1.3 | 1.3 | 1.5 | 2.8 | .0 | .5 |
| 16.9 | 2.5 | 1.6 | 1.4 | 2.9 | 3.4 | 7.2 | 19.3 | .0 | 1.6 |
| 10.1 | 1.2 | .4 | .5 | .4 | .7 | 2.8 | 12.9 | .0 | .7 |
| .3 | .0 | .0 | .0 | .0 | * | .1 | .5 | .0 | * |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 30.3 | 4.2 | 2.4 | 2.5 | 4.6 | 5.5 | 11.7 | 36.0 | .0 | 2.8 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 71 | 67 | 61 | 56 | 54 | 52 | 61.5 | 1273 |
| 06&09 | 73 | 66 | 65 | 60 | 56 | 54 | 50 | 60.2 | 962 |
| 12&15 | 78 | 67 | 65 | 60 | 55 | 54 | 47 | 59.9 | 1217 |
| 18&21 | 75 | 70 | 67 | 62 | 57 | 54 | 51 | 61.8 | 1365 |
| TOT | 79 | 70 | 66 | 61 | 56 | 54 | 47 | 60.9 | 4817 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.4 | 12.8 | 32.3 | 37.4 | 15.1 | 80 | 942 |
| 06&09 | .0 | 2.6 | 10.4 | 27.5 | 40.7 | 18.8 | 81 | 695 |
| 12&15 | .0 | 2.8 | 10.5 | 26.0 | 38.7 | 22.0 | 82 | 887 |
| 18&21 | .0 | 4.0 | 18.5 | 31.6 | 31.3 | 14.7 | 78 | 969 |
| TOT | 0 | 105 | 465 | 1032 | 1281 | 610 | 80 | 3493 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 2 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .0 | 6 | * | .1 |
| 11/13 | .0 | .0 | .0 | * | * | .0 | .1 | * | .0 | 10 | .0 | .2 |
| 9/10 | .0 | .0 | .0 | * | .1 | .2 | .1 | .1 | .0 | 22 | .0 | .5 |
| 7/8 | .0 | .0 | .0 | * | .3 | .4 | .4 | * | .0 | 49 | * | 1.1 |
| 6 | .0 | .0 | .0 | .1 | .2 | .3 | .1 | .0 | .0 | 31 | .0 | .7 |
| 5 | .0 | .0 | * | .2 | .5 | 1.1 | .1 | * | .0 | 86 | * | 1.9 |
| 4 | .0 | .0 | .1 | .3 | 1.3 | 1.2 | .2 | * | .0 | 133 | .1 | 3.0 |
| 3 | .0 | .0 | .0 | .4 | 1.4 | 1.6 | * | .0 | .0 | 146 | .1 | 3.3 |
| 2 | .0 | .0 | * | 1.3 | 4.9 | 1.1 | .1 | * | .0 | 329 | .3 | 7.3 |
| 1 | .0 | .0 | .1 | 2.0 | 5.2 | 1.5 | * | .0 | .0 | 382 | .3 | 8.5 |
| 0 | .0 | .0 | .4 | 4.8 | 7.9 | 1.1 | * | .0 | .0 | 616 | .5 | 13.7 |
| -1 | .0 | .0 | .4 | 4.3 | 6.4 | .7 | .0 | .0 | .0 | 515 | .4 | 11.5 |
| -2 | .0 | * | .8 | 7.8 | 4.9 | .4 | * | .0 | .0 | 605 | .4 | 13.5 |
| -3 | .0 | .0 | .7 | 6.8 | 3.7 | .2 | .0 | .0 | .0 | 497 | .5 | 10.9 |
| -4 | .0 | * | 1.4 | 5.4 | 1.9 | .2 | .0 | .0 | .0 | 387 | .3 | 8.6 |
| -5 | .0 | .0 | .8 | 3.3 | 1.1 | * | .0 | .0 | .0 | 231 | .3 | 5.0 |
| -6 | .0 | * | .6 | 2.3 | .6 | .0 | .0 | .0 | .0 | 155 | .2 | 3.4 |
| -7/-8 | .0 | * | .7 | 1.7 | .4 | .0 | .0 | .0 | .0 | 122 | .2 | 2.6 |
| -9/-10 | .0 | .0 | .2 | .3 | .1 | .0 | .0 | .0 | .0 | 24 | * | .5 |
| -11/-13 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | 5 | * | .1 |
| -14/-16 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -17/-19 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | 8 | 271 | 1787 | 1780 | 434 | 60 | 12 | 2 | 4355 | 156 | 4199 |
| PCT | * | .2 | 6.2 | 41.0 | 40.9 | 10.0 | 1.4 | .3 | * | 100.0 | 3.6 | 96.4 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.3 | .0 | .0 | .0 | .0 | 1.4 |
| 1-2 | .2 | 3.6 | 2.5 | .0 | .0 | .0 | 6.3 |
| 3-4 | .0 | 2.4 | 5.8 | .6 | .0 | .0 | 8.8 |
| 5-6 | .0 | .5 | 3.6 | .6 | .0 | .0 | 4.7 |
| 7 | .0 | .1 | 1.0 | 1.2 | .0 | .0 | 2.2 |
| 8-9 | .0 | .0 | .6 | .2 | .0 | .0 | .8 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 7.8 | 13.6 | 2.9 | .0 | .0 | 24.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | * | 1.0 | .5 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .5 | .3 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | * | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 2.1 | 1.1 | .3 | .1 | .0 | 3.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .2 | .9 | .2 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .3 | .4 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | .2 | .3 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.7 | .9 | .0 | .0 | .0 | 2.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | * | .5 | .2 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .8 | .6 | .2 | .0 | .0 | 1.7 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.8 | 1.1 | .3 | .0 | .0 | 3.3 |

PERIOD: (OVER-ALL) 1963-1979

NOVEMBER

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 | .1 | 1.7 | .0 | .0 | .0 | .0 | 1.8 |
| 1-2 | .2 | 1.0 | 1.1 | .0 | .0 | .0 | 2.2 | .2 | 1.2 | .7 | .0 | .0 | .0 | 2.1 |
| 3-4 | .0 | 1.1 | 1.5 | .2 | .0 | .0 | 2.8 | .0 | .5 | 1.5 | .0 | .0 | .0 | 2.0 |
| 5-6 | .0 | .1 | .6 | .1 | .0 | .0 | .8 | .0 | .5 | .5 | .2 | .0 | .0 | 1.2 |
| 7 | .0 | .0 | .2 | .1 | .0 | .0 | .3 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .1 | .4 | .2 | .0 | .0 | .6 | .0 | .1 | .0 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | * | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.7 | 3.8 | .5 | .0 | .0 | 7.3 | .3 | 4.0 | 3.0 | .2 | .0 | .0 | 7.5 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 1.4 | .0 | .0 | .0 | .0 | 1.7 | .1 | 1.5 | .0 | .0 | .0 | .0 | 1.6 | |
| 1-2 | .5 | 2.2 | 1.9 | .0 | .0 | .0 | 4.6 | .1 | 6.0 | 3.9 | .0 | .0 | .0 | 10.1 | |
| 3-4 | .2 | 1.4 | 3.0 | .3 | .0 | .0 | 4.8 | .1 | 2.8 | 5.8 | .9 | .0 | .0 | 9.6 | |
| 5-6 | .1 | .7 | 1.6 | .1 | .1 | .0 | 2.5 | * | .8 | 3.9 | .7 | .0 | .0 | 5.5 | |
| 7 | .0 | .0 | 1.1 | .1 | .0 | .0 | 1.1 | .0 | .3 | 2.4 | 1.6 | .4 | .0 | 4.8 | |
| 8-9 | .0 | .1 | .0 | .1 | .0 | .0 | .2 | .0 | .0 | .5 | .4 | .0 | .0 | .9 | |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 5.7 | 7.5 | .6 | .1 | .0 | 15.0 | .3 | 11.4 | 16.9 | 4.2 | .4 | .0 | 33.1 | 97.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.2 | 7.3 | .0 | .0 | .0 | .0 | 10.5 | |
| 1-2 | 1.8 | 16.5 | 10.9 | .0 | .0 | .0 | 29.2 | |
| 3-4 | .5 | 9.7 | 18.9 | 2.2 | .0 | .0 | 31.2 | |
| 5-6 | .1 | 2.9 | 10.9 | 1.7 | .1 | .0 | 15.6 | |
| 7 | .1 | .4 | 5.0 | 3.1 | .4 | .0 | 8.9 | |
| 8-9 | .0 | .3 | 1.6 | .8 | .0 | .0 | 2.7 | |
| 10-11 | .0 | .0 | .4 | .6 | .0 | .0 | .9 | |
| 12 | .0 | .0 | .1 | .3 | .1 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .4 | .0 | .0 | .4 | |
| 17-19 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1086 |
| TOT PCT | 5.7 | 37.0 | 47.7 | 9.0 | .6 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.7 | 13.1 | 13.1 | 6.2 | 3.0 | .8 | .2 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1009 | 3 |
| 6-7 | .2 | 2.0 | 6.4 | 7.1 | 4.2 | 3.6 | 1.2 | .5 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 662 | 5 |
| 8-9 | * | 1.0 | 3.6 | 4.2 | 3.0 | 2.5 | 1.3 | .6 | .4 | * | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 439 | 6 |
| 10-11 | .0 | .6 | 1.2 | 1.1 | 1.6 | 1.2 | .8 | .5 | .5 | * | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 199 | 7 |
| 12-13 | .0 | .0 | .5 | .4 | .4 | .7 | .5 | .4 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 86 | 9 |
| >13 | .0 | .0 | .0 | .3 | .2 | .2 | * | .1 | .1 | * | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29 | 10 |
| INDET | 3.3 | 1.8 | .8 | .5 | .4 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 185 | 2 |
| TOTAL | 139 | 481 | 665 | 519 | 332 | 242 | 109 | 61 | 34 | 13 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2609 | 5 |
| PCT | 5.3 | 18.4 | 25.5 | 19.9 | 12.7 | 9.3 | 4.2 | 2.3 | 1.3 | .5 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .6 | .8 | 1.2 | .0 | .0 | .0 | .0 | 2.3 | .7 | .0 | 3.0 | .1 | .8 | .0 | | 93.1 |
| NE | .8 | .6 | .2 | .0 | .0 | .0 | .0 | 1.6 | .8 | .0 | 3.8 | .0 | .4 | .0 | | 93.5 |
| E | 2.8 | 3.2 | .8 | .0 | .0 | .0 | .0 | 6.8 | .6 | .0 | 2.6 | .6 | 1.2 | .0 | | 88.1 |
| SE | 4.3 | 1.2 | 3.0 | .0 | .0 | .0 | .0 | 7.8 | 1.8 | .0 | 2.8 | .2 | 3.5 | .0 | | 83.9 |
| S | 5.3 | 2.2 | 3.7 | .0 | .0 | .0 | .0 | 9.3 | 2.1 | .0 | 3.0 | .0 | 3.2 | .0 | | 82.3 |
| SW | 2.7 | 2.1 | 2.4 | .0 | .0 | .0 | .0 | 6.3 | 4.5 | .0 | 6.1 | .2 | .7 | .0 | | 82.3 |
| W | 1.6 | .6 | 3.1 | .0 | .0 | .0 | .0 | 4.9 | 1.6 | .0 | 4.5 | .4 | 1.6 | .0 | | 87.1 |
| NW | .3 | * | .4 | .0 | .0 | .0 | .0 | .7 | 1.1 | .0 | 3.3 | .2 | 1.3 | .0 | | 93.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .7 | .7 | 4.5 | .7 | .7 | .0 | | 91.8 |
| TOT PCT | 1.2 | .7 | 1.3 | .0 | .0 | .0 | .0 | 3.0 | 1.3 | * | 3.5 | .2 | 1.3 | .0 | | 90.8 |
| TOT OBS: | 4035 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.6 | .8 | 2.1 | .0 | .0 | .0 | .0 | 3.8 | .9 | .1 | 3.2 | .1 | 2.1 | .0 | | 89.8 |
| 06&09 | 1.5 | .9 | 1.0 | .0 | .0 | .0 | .0 | 3.3 | 1.6 | .0 | 2.4 | .0 | .7 | .0 | | 91.9 |
| 12&15 | .9 | .5 | 1.0 | .0 | .0 | .0 | .0 | 2.2 | .9 | .0 | 5.1 | .3 | 1.1 | .0 | | 90.5 |
| 18&21 | .9 | .8 | 1.2 | .0 | .0 | .0 | .0 | 2.6 | 1.7 | .0 | 3.0 | .3 | 1.1 | .0 | | 91.3 |
| TOT PCT | 1.2 | .7 | 1.3 | .0 | .0 | .0 | .0 | 2.9 | 1.3 | * | 3.5 | .2 | 1.3 | .0 | | 90.8 |
| TOT OBS: | 4070 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.0 | 10.1 | 16.2 | 4.8 | .5 | .0 | | 32.6 | 14.7 | 34.1 | 28.4 | 33.5 | 36.2 | 31.2 | 28.6 | 35.9 | 30.7 |
| NE | .4 | 3.5 | 2.1 | .2 | * | .0 | | 6.3 | 10.2 | 6.2 | 5.9 | 6.7 | 4.4 | 6.5 | 7.3 | 5.7 | 6.6 |
| E | .2 | 2.0 | .8 | * | .0 | .0 | | 3.1 | 8.7 | 2.5 | 4.1 | 2.0 | 2.6 | 2.2 | 4.8 | 2.8 | 5.1 |
| SE | .2 | 1.9 | 1.4 | .2 | * | .0 | | 3.7 | 10.9 | 3.4 | 5.1 | 2.7 | 1.9 | 2.7 | 6.3 | 3.0 | 5.9 |
| S | .2 | 2.7 | 2.7 | .6 | * | .0 | | 6.2 | 12.4 | 8.0 | 7.8 | 5.4 | 6.7 | 4.8 | 5.5 | 5.^ | 7 7 |
| SW | .4 | 2.8 | 2.0 | .4 | .0 | .0 | | 5.6 | 10.9 | 4.8 | 6.3 | 4.4 | 5.6 | 6.8 | 5.6 | 6.. | 5.2 |
| W | .8 | 5.2 | 3.0 | .5 | .1 | .0 | | 9.6 | 10.4 | 9.4 | 7.9 | 10.5 | 8.9 | 11.2 | 10.3 | 8.9 | 9.0 |
| NW | 1.0 | 10.5 | 13.4 | 4.2 | .3 | .0 | | 29.5 | 14.1 | 28.6 | 31.1 | 30.6 | 29.7 | 31.2 | 29.1 | 29.0 | 27.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | | 3.3 | .0 | 2.9 | 3.4 | 4.2 | 4.0 | 3.6 | 2.5 | 3.2 | 2.9 |
| TOT OBS | 332 | 1667 | 1788 | 470 | 42 | 0 | 4299 | | 12.6 | 802 | 326 | 593 | 250 | 666 | 399 | 741 | 522 |
| TOT PCT | 7.7 | 38.8 | 41.6 | 10.9 | 1.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.8 | 16.3 | 10.8 | 1.7 | * | | 32.6 | 14.7 | 32.5 | 34.3 | 30.2 | 33.7 |
| NE | 1.9 | 3.6 | .7 | .1 | * | | 6.3 | 10.2 | 6.1 | 6.0 | 6.8 | 6.1 |
| E | 1.1 | 1.9 | .1 | .0 | .0 | | 3.1 | 8.7 | 3.0 | 2.2 | 3.2 | 3.7 |
| SE | 1.1 | 2.0 | .6 | .1 | .0 | | 3.7 | 10.9 | 3.9 | 2.4 | 4.0 | 4.2 |
| S | 1.1 | 3.6 | 1.4 | .1 | .0 | | 6.2 | 12.4 | 7.9 | 5.8 | 5.0 | 6.1 |
| SW | 1.6 | 3.0 | .9 | .1 | .0 | | 5.6 | 10.9 | 5.3 | 4.8 | 6.4 | 6.0 |
| W | 3.0 | 5.3 | 1.1 | .2 | * | | 9.6 | 10.4 | 9.0 | 10.0 | 10.8 | 8.9 |
| NW | 4.5 | 15.0 | 8.6 | 1.2 | .1 | | 29.5 | 14.1 | 29.3 | 30.4 | 30.4 | 28.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | 3.3 | .0 | 3.0 | 4.2 | 3.2 | 3.1 |
| TOT OBS | 916 | 2182 | 1042 | 152 | 7 | 4299 | | 12.6 | 1128 | 843 | 1065 | 1263 |
| TOT PCT | 21.3 | 50.8 | 24.2 | 3.5 | .2 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

DECEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.0 | 3.7 | 36.6 | 42.6 | 12.2 | 1.8 | .0 | 13.3 | 100.0 | 1128 |
| 06&09 | 4.2 | 3.8 | 39.6 | 41.8 | 9.6 | 1.1 | .0 | 12.4 | 100.0 | 843 |
| 12&15 | 3.2 | 5.6 | 40.1 | 41.0 | 9.5 | .6 | .0 | 12.0 | 100.0 | 1065 |
| 18&21 | 3.1 | 4.4 | 39.0 | 41.0 | 11.9 | .6 | .0 | 12.7 | 100.0 | 1263 |
| TOT | 142 | 190 | 1667 | 1788 | 470 | 42 | 0 | 12.6 | | 4299 |
| PCT | 3.3 | 4.4 | 38.8 | 41.6 | 10.9 | 1.0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 12.6 | 6.1 | 12.0 | 5.9 | | 4.1 |
| NE | 2.9 | .8 | 1.4 | 1.4 | | 3.7 |
| E | .8 | .2 | .6 | .4 | | 4.0 |
| SE | .6 | .2 | .6 | .7 | | 5.2 |
| S | .9 | .4 | 1.6 | 1.9 | | 5.8 |
| SW | 1.0 | .7 | 1.7 | 1.9 | | 5.5 |
| W | 2.6 | 1.3 | 2.8 | 2.1 | | 4.6 |
| NW | 10.8 | 5.5 | 9.3 | 4.1 | | 3.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.2 | .4 | 1.1 | .7 | | 3.4 |
| TOT OBS | 940 | 425 | 853 | 519 | 2737 | 4.2 |
| TOT PCT | 34.3 | 15.5 | 31.2 | 19.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .2 | .5 | 2.0 | 6.4 | 5.3 | .5 | .1 | .2 | .2 | 21.0 | |
| NE | .0 | .1 | .1 | .2 | 1.1 | .6 | .1 | .1 | .1 | .0 | 4.1 | |
| E | .0 | * | .1 | .1 | .1 | .3 | * | .0 | .1 | * | 1.3 | |
| SE | .0 | * | .1 | * | .4 | .3 | .1 | * | * | * | 1.1 | |
| S | .1 | * | .2 | .4 | .9 | .6 | .2 | * | .1 | .1 | 2.1 | |
| SW | .1 | .0 | .2 | .5 | .8 | 1.1 | * | .1 | .0 | .1 | 2.4 | |
| W | .1 | * | .3 | .7 | 1.4 | .9 | * | .1 | .0 | .1 | 4.9 | |
| NW | .2 | .2 | .4 | 1.6 | 4.7 | 2.6 | .4 | .2 | .1 | .2 | 18.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .1 | .1 | .4 | .5 | .1 | * | .1 | .0 | 2.8 | |
| TOT OBS | 25 | 15 | 53 | 156 | 446 | 338 | 43 | 20 | 16 | 18 | 1607 | 2737 |
| TOT PCT | .9 | .5 | 1.9 | 5.7 | 16.3 | 12.3 | 1.6 | .7 | .6 | .7 | 58.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >5000 | 1.6 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 |
| * OR >3500 | 2.9 | 3.5 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 | 3.6 |
| * OR >2000 | 13.5 | 15.6 | 15.8 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| * OR >1000 | 27.6 | 31.7 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 | 32.2 |
| * OR >600 | 31.3 | 37.1 | 37.6 | 37.7 | 37.9 | 37.9 | 37.9 | 37.9 |
| * OR >300 | 32.3 | 38.7 | 39.5 | 39.6 | 39.8 | 39.8 | 39.8 | 39.8 |
| * OR >150 | 32.4 | 39.0 | 39.9 | 40.0 | 40.3 | 40.4 | 40.4 | 40.4 |
| * OR > 0 | 32.5 | 39.3 | 40.2 | 40.5 | 41.0 | 41.1 | 41.2 | 41.3 |
| TOTAL | 894 | 1081 | 1108 | 1116 | 1128 | 1131 | 1135 | 1136 |

TOTAL NUMBER OF OBS: 2753 PCT FREQ NH <5/8: 58.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 22.4 | 8.3 | 11.4 | 9.1 | 7.1 | 6.8 | 9.5 | 10.9 | 14.0 .5 | 2893 |

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * | |
| <1/2 | NO PCP | .1 | .1 | .0 | * | .1 | .1 | .2 | .2 | .0 | .1 | .8 | |
| | TOT % | .1 | .1 | .0 | .1 | .1 | .1 | .2 | .2 | .0 | .1 | .9 | |
| | PCP | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | * | |
| 1/2<1 | NO PCP | .3 | .1 | * | * | .0 | .1 | .1 | .1 | .0 | * | .6 | |
| | TOT % | .3 | .1 | * | * | * | .1 | .1 | .1 | .0 | * | .7 | |
| | PCP | * | .0 | .0 | .0 | .1 | * | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .1 | * | * | * | * | * | .1 | .2 | .0 | .0 | .5 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .1 | .2 | .0 | .0 | .7 | |
| | PCP | .1 | .0 | * | * | .2 | .1 | .1 | * | .0 | .0 | .5 | |
| 2<5 | NO PCP | .4 | .1 | .2 | .3 | .1 | .1 | .1 | .7 | .0 | * | 2.2 | |
| | TOT % | .5 | .1 | .2 | .3 | .3 | .2 | .2 | .8 | .0 | * | 2.7 | |
| | PCP | .5 | * | .1 | .1 | .1 | .2 | .2 | .1 | .0 | * | 1.5 | |
| 5<10 | NO PCP | 4.8 | .9 | .7 | .9 | 1.3 | 1.1 | 1.6 | 4.6 | .0 | .4 | 16.2 | |
| | TOT % | 5.3 | .9 | .8 | 1.0 | 1.5 | 1.3 | 1.9 | 4.7 | .0 | .4 | 17.7 | |
| | PCP | .2 | * | * | .1 | .1 | * | .1 | * | .0 | .0 | .7 | |
| 10+ | NO PCP | 26.9 | 5.1 | 2.0 | 2.3 | 3.9 | 3.6 | 7.2 | 23.1 | .0 | 2.8 | 76.7 | |
| | TOT % | 27.0 | 5.2 | 2.0 | 2.4 | 4.1 | 3.6 | 7.2 | 23.1 | .0 | 2.8 | 77.4 | |
| | TOT OBS | | | | | | | | | | | | 4029 |
| | TOT PCT | 33.3 | 6.4 | 3.1 | 3.7 | 6.1 | 5.4 | 9.7 | 29.0 | .0 | 3.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .0 | .0 | * | .0 | * | .1 | * | .0 | .1 | .3 | |
| <1/2 | 4-10 | * | .1 | * | .1 | .1 | .1 | .1 | * | .0 | | .6 | |
| | 11-21 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | .1 | * | .1 | .1 | .2 | .2 | .2 | .0 | .1 | 1.0 | |
| | 0-3 | .0 | .0 | .0 | * | * | .0 | * | * | .0 | * | .1 | |
| 1/2<1 | 4-10 | .1 | * | * | * | .0 | * | .1 | .1 | .0 | | .3 | |
| | 11-21 | .2 | * | * | .0 | .0 | .1 | .0 | * | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | | * | |
| | TOT % | .3 | .1 | * | * | * | .1 | .1 | .1 | .0 | * | .7 | |
| | 0-3 | .0 | .0 | .0 | .0 | * | * | .0 | * | .0 | .0 | .1 | |
| 1<2 | 4-10 | * | .0 | * | * | .1 | * | .1 | .2 | .0 | | .5 | |
| | 11-21 | * | * | .0 | .0 | * | * | * | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | * | .1 | .0 | * | .0 | .0 | | .1 | |
| | TOT % | .1 | * | * | * | .2 | .1 | .1 | .4 | .0 | .0 | 1.1 | |
| | 0-3 | * | * | * | .0 | .0 | .0 | .0 | * | .0 | * | .2 | |
| 2<5 | 4-10 | .2 | .1 | .1 | .2 | .2 | .1 | .2 | .5 | .0 | | 1.5 | |
| | 11-21 | .3 | * | * | .1 | .1 | .1 | .1 | .2 | .0 | | 1.1 | |
| | 22+ | .1 | .0 | .0 | * | .1 | .1 | .0 | .1 | .0 | | .3 | |
| | TOT % | .6 | .1 | .2 | .3 | .4 | .3 | .3 | .9 | .0 | * | 3.1 | |
| | 0-3 | .2 | .2 | * | * | * | .1 | .2 | .3 | .0 | .4 | 1.4 | |
| 5<10 | 4-10 | 1.9 | .4 | .5 | .5 | .7 | .6 | .9 | 1.7 | .0 | | 7.2 | |
| | 11-21 | 2.0 | .2 | .2 | .4 | .6 | .5 | .5 | 2.0 | .0 | | 6.4 | |
| | 22+ | 1.1 | .1 | * | .1 | .1 | .1 | .2 | .8 | .0 | | 2.5 | |
| | TOT % | 5.1 | .9 | .8 | 1.0 | 1.5 | 1.3 | 1.8 | 4.7 | .0 | .4 | 17.6 | |
| | 0-3 | .8 | .2 | .1 | .1 | .2 | .3 | .5 | .6 | .0 | 2.8 | 5.6 | |
| 10+ | 4-10 | 7.8 | 2.9 | 1.3 | 1.1 | 1.7 | 1.9 | 3.9 | 7.8 | .0 | | 28.3 | |
| | 11-21 | 14.0 | 1.9 | .5 | .9 | 1.9 | 1.2 | 2.3 | 10.9 | .0 | | 33.6 | |
| | 22+ | 4.2 | .2 | * | .2 | .2 | .2 | .3 | 3.7 | .0 | | 8.9 | |
| | TOT % | 26.7 | 5.1 | 2.0 | 2.3 | 4.0 | 3.6 | 7.1 | 22.9 | .0 | 2.8 | 76.5 | |
| | TOT OBS | | | | | | | | | | | | 4146 |
| | TOT PCT | 32.9 | 6.3 | 3.1 | 3.8 | 6.1 | 5.6 | 9.6 | 29.3 | .0 | 3.4 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | .9 | .5 | 2.3 | 6.3 | 17.5 | 12.4 | 1.7 | .5 | .8 | .7 | 43.7 | 56.3 | 744 |
| 06&09 | .8 | .6 | .9 | 3.7 | 13.7 | 10.8 | .9 | .6 | .3 | .3 | 32.7 | 67.3 | 649 |
| 12&15 | 1.2 | .5 | 1.8 | 4.1 | 16.0 | 11.6 | 1.2 | 1.1 | .3 | .5 | 38.3 | 61.7 | 661 |
| 18&21 | .8 | .5 | 2.3 | 7.6 | 16.1 | 13.2 | 2.2 | .6 | .8 | 1.0 | 45.2 | 54.8 | 772 |
| TOT | 26 | 15 | 53 | 157 | 449 | 341 | 44 | 20 | 16 | 18 | 1139 | 1687 | 2826 |
| PCT | .9 | .5 | 1.9 | 5.6 | 15.9 | 12.1 | 1.6 | .7 | .6 | .6 | 40.3 | 59.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.9 | .4 | 1.3 | 3.2 | 17.4 | 75.6 | 1112 |
| 06&09 | 1.0 | .2 | .5 | 1.4 | 18.8 | 78.1 | 835 |
| 12&15 | 1.0 | 1.5 | 1.5 | 4.2 | 18.9 | 72.8 | 1051 |
| 18&21 | .3 | .7 | .8 | 3.3 | 15.6 | 79.4 | 1183 |
| TOT | 44 | 31 | 44 | 131 | 734 | 3197 | 4181 |
| PCT | 1.1 | .7 | 1.1 | 3.1 | 17.6 | 76.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | .7 | 3.9 | 10.5 | 34.5 | 55.0 | 722 |
| 06&09 | .9 | 2.7 | 7.1 | 26.7 | 56.2 | 636 |
| 12&15 | 1.2 | 4.0 | 9.8 | 30.7 | 59.5 | 642 |
| 18&21 | .8 | 4.1 | 13.0 | 34.1 | 52.9 | 753 |
| TOT | 25 | 102 | 282 | 873 | 1598 | 2753 |
| PCT | .9 | 3.7 | 10.2 | 31.7 | 58.0 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | .0 | .1 | .1 | * | .0 | .1 | 7 | .2 |
| 65/69 | * | .1 | * | .4 | .7 | 1.6 | .9 | .5 | 127 | 4.2 |
| 60/64 | .0 | .1 | .2 | 1.5 | 5.0 | 10.4 | 12.7 | 8.3 | 1155 | 38.2 |
| 55/59 | .0 | .0 | .4 | 2.0 | 5.5 | 13.3 | 18.3 | 9.7 | 1488 | 49.2 |
| 50/54 | .0 | .0 | .1 | .6 | 1.3 | 1.8 | 2.7 | 1.2 | 233 | 7.7 |
| 45/49 | .0 | .0 | * | .1 | .1 | .1 | * | * | 13 | .4 |
| TOTAL | 1 | 4 | 23 | 139 | 384 | 823 | 1049 | 600 | 3023 | 100.0 |
| PCT | * | .1 | .8 | 4.6 | 12.7 | 27.2 | 34.7 | 19.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | * | * | .0 | .1 | .0 | .0 |
| 1.2 | .2 | .3 | .2 | .2 | .3 | .4 | 1.2 | .0 | .3 |
| 10.1 | 2.3 | 1.5 | 2.1 | 3.8 | 3.5 | 4.2 | 9.5 | .0 | 1.3 |
| 17.9 | 3.1 | .8 | 1.3 | 1.9 | 1.6 | 4.7 | 16.6 | .0 | 1.3 |
| 2.8 | .4 | .1 | .1 | .1 | .1 | .7 | 3.2 | .0 | .2 |
| .2 | .1 | * | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| 32.2 | 6.1 | 2.7 | 3.7 | 6.0 | 5.6 | 10.0 | 30.7 | .0 | 3.0 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 72 | 68 | 65 | 60 | 55 | 52 | 47 | 59.7 | 1123 |
| 06&09 | 72 | 65 | 63 | 58 | 53 | 49 | 45 | 58.1 | 848 |
| 12&15 | 70 | 64 | 63 | 58 | 53 | 50 | 45 | 57.9 | 1074 |
| 18&21 | 72 | 68 | 65 | 60 | 55 | 52 | 47 | 59.8 | 1264 |
| TOT | 72 | 67 | 64 | 59 | 54 | 50 | 45 | 59.0 | 4309 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 4.8 | 13.1 | 29.1 | 34.2 | 18.8 | 80 | 808 |
| 06&09 | .0 | 3.6 | 11.7 | 23.5 | 41.0 | 20.2 | 81 | 588 |
| 12&15 | .1 | 4.6 | 10.5 | 25.5 | 35.4 | 23.9 | 81 | 769 |
| 18&21 | .0 | 8.2 | 14.9 | 29.6 | 30.5 | 16.8 | 78 | 881 |
| TOT | 1 | 167 | 387 | 830 | 1058 | 603 | 80 | 3046 |

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|
| 14/16 | .0 | .0 | .0 | .0 | .1 | * | .1 | 6 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .1 | .0 | * | .0 | 3 | .0 | .1 |
| 9/10 | .0 | .0 | .0 | * | .2 | .2 | .1 | 18 | .0 | .5 |
| 7/8 | .0 | .0 | .0 | .1 | .4 | .4 | .1 | 40 | .1 | .9 |
| 6 | .0 | .0 | .1 | .2 | .5 | .3 | * | 41 | .1 | 1.0 |
| 5 | .0 | .0 | .0 | .4 | 1.0 | .5 | * | 71 | .1 | 1.8 |
| 4 | .0 | .0 | .1 | 1.0 | 1.8 | .8 | * | 138 | .1 | 3.5 |
| 3 | .0 | .0 | .1 | .7 | 1.8 | .6 | .0 | 121 | .1 | 3.1 |
| 2 | .0 | .0 | .3 | 2.9 | 3.3 | .4 | .0 | 261 | .3 | 6.6 |
| 1 | .0 | .0 | .3 | 3.4 | 4.2 | .4 | * | 313 | .1 | 8.1 |
| 0 | * | .1 | 1.6 | 6.6 | 4.3 | .2 | .0 | 490 | .8 | 12.1 |
| -1 | .0 | .1 | 1.8 | 6.6 | 3.5 | .2 | .0 | 461 | .3 | 11.8 |
| -2 | .0 | .1 | 2.6 | 7.8 | 2.5 | .1 | .0 | 496 | .4 | 12.6 |
| -3 | .0 | .2 | 2.5 | 7.3 | 1.2 | * | .0 | 429 | .3 | 11.0 |
| -4 | .0 | .3 | 3.2 | 5.3 | .7 | .0 | .0 | 362 | .4 | 9.1 |
| -5 | .0 | .1 | 2.4 | 2.7 | .5 | .0 | .0 | 219 | .2 | 5.5 |
| -6 | .0 | .2 | 2.0 | 1.1 | .1 | .0 | .0 | 128 | .1 | 3.3 |
| -7/-8 | * | .3 | 1.7 | 1.1 | .1 | .0 | .0 | 125 | .1 | 3.2 |
| -9/-10 | .1 | .2 | .6 | .3 | .1 | * | .0 | 50 | .1 | 1.3 |
| -11/-13 | .1 | .3 | .2 | .1 | .0 | .0 | .0 | 27 | .0 | .7 |
| -14/-16 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 7 | .0 | .2 |
| -17/-19 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 16 | 74 | 736 | 1813 | 998 | 156 | 14 | 3807 | 133 | 3674 |
| PCT | .4 | 1.9 | 19.3 | 47.6 | 26.2 | 4.1 | .4 | 100.0 | 3.5 | 96.5 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.1 | .1 | .0 | .0 | .0 | 1.3 |
| 1-2 | .3 | 5.5 | 3.6 | .0 | .0 | .0 | 9.3 |
| 3-4 | .0 | 2.3 | 5.1 | .9 | .0 | .0 | 8.2 |
| 5-6 | .0 | .7 | 2.6 | 1.9 | .1 | .0 | 5.3 |
| 7 | .1 | .4 | 3.5 | .9 | .1 | .0 | 5.0 |
| 8-9 | .0 | .1 | 1.5 | 1.2 | .2 | .0 | 2.9 |
| 10-11 | .0 | .0 | .3 | 1.0 | .1 | .0 | 1.4 |
| 12 | .0 | .0 | .0 | .3 | .2 | .0 | .4 |
| 13-16 | .0 | .0 | .1 | .6 | .2 | .0 | .9 |
| 17-19 | .0 | .0 | .0 | .1 | .1 | .0 | .2 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 10.0 | 16.6 | 6.8 | .9 | .0 | 34.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .2 | .0 | .0 | .0 | .7 |
| 1-2 | .2 | 1.4 | .4 | .0 | .0 | .0 | 2.0 |
| 3-4 | .1 | .7 | 1.2 | .0 | .0 | .0 | 2.1 |
| 5-6 | .0 | .2 | .4 | .3 | .0 | .0 | .9 |
| 7 | .0 | .1 | * | .2 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 2.7 | 2.3 | .5 | .1 | .0 | 6.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .7 | .1 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .3 | .2 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.5 | .3 | .0 | .0 | .0 | 1.8 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .4 | .2 | .0 | .0 | .0 | .6 |
| 3-4 | * | .2 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | .8 | .6 | .0 | .0 | .0 | 1.4 |

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .6 | .1 | .0 | .0 | .0 | .8 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .9 | .2 | .0 | .0 | .0 | 1.2 | .2 | 1.2 | .7 | .0 | .0 | .0 | 2.1 |
| 3-4 | .1 | .1 | .4 | .0 | .0 | .0 | .5 | .0 | .3 | 1.0 | .3 | .0 | .0 | 1.5 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .1 | .2 | .0 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.7 | .9 | .0 | .0 | .0 | 2.9 | .2 | 2.1 | 2.2 | .4 | .0 | .0 | 4.9 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .1 | .6 | .0 | .0 | .0 | .0 | .7 | .0 | 1.5 | .1 | .0 | .0 | .0 | 1.7 | |
| 1-2 | .2 | 3.3 | .5 | .0 | .0 | .0 | 4.0 | .1 | 4.3 | 3.6 | .0 | .0 | .0 | 7.9 | |
| 3-4 | .0 | .9 | 1.0 | .0 | .0 | .0 | 1.9 | .0 | 2.4 | 6.0 | .9 | .0 | .0 | 9.3 | |
| 5-6 | .1 | .3 | 1.0 | .2 | .0 | .0 | 1.6 | * | 1.5 | 3.9 | 1.1 | .0 | .0 | 6.5 | |
| 7 | .0 | .1 | .6 | .2 | .0 | .0 | .8 | .0 | .4 | 3.0 | 1.4 | * | .0 | 4.8 | |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 1.2 | 1.6 | .2 | .0 | 3.1 | |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .3 | 1.2 | * | .0 | 1.6 | |
| 12 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .0 | .0 | .1 | .3 | .2 | .0 | .6 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .2 | .0 | .9 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .2 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .4 | 5.3 | 3.2 | .5 | .1 | .0 | 9.4 | .1 | 10.2 | 18.4 | 6.9 | .8 | .0 | 36.4 | 97.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.8 | 5.3 | .5 | .0 | .0 | .0 | 8.6 | |
| 1-2 | 1.2 | 17.6 | 9.1 | .0 | .0 | .0 | 28.0 | |
| 3-4 | .2 | 7.0 | 15.0 | 2.1 | .0 | .0 | 24.3 | |
| 5-6 | .2 | 2.9 | 8.4 | 3.4 | .1 | .0 | 15.0 | |
| 7 | .1 | 1.1 | 7.4 | 2.7 | .1 | .0 | 11.4 | |
| 8-9 | .0 | .2 | 2.7 | 2.9 | .4 | .0 | 6.2 | |
| 10-11 | .0 | .0 | .6 | 2.3 | .1 | .0 | 3.0 | |
| 12 | .0 | .0 | .3 | .5 | .4 | .0 | 1.2 | |
| 13-16 | .0 | .0 | .3 | 1.0 | .5 | .0 | 1.8 | |
| 17-19 | .0 | .0 | .0 | .1 | .3 | .0 | .4 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 4.5 | 34.2 | 44.4 | 15.0 | 1.9 | .0 | 100.0 | 998 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.3 | 9.7 | 10.9 | 6.5 | 3.2 | 1.1 | .2 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 809 | 4 |
| 6-7 | * | 2.8 | 5.9 | 6.9 | 4.8 | 2.8 | 1.3 | .5 | .3 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 617 | 5 |
| 8-9 | .1 | 1.3 | 2.9 | 2.9 | 4.3 | 2.8 | 1.6 | .7 | .9 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 427 | 7 |
| 10-11 | .0 | .6 | 1.4 | 1.4 | 1.6 | 2.0 | 1.1 | .7 | .8 | .2 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 241 | 8 |
| 12-13 | .0 | .0 | .7 | .6 | .5 | .5 | .5 | .3 | .4 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 88 | 8 |
| >13 | .0 | .0 | .0 | .2 | .3 | .4 | .5 | .3 | .5 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 56 | 10 |
| INDET | 3.6 | 1.8 | 1.4 | .6 | .4 | .1 | .1 | * | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 198 | 2 |
| TOTAL | 122 | 394 | 566 | 465 | 369 | 232 | 130 | 62 | 72 | 17 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2436 | 5 |
| PCT | 5.0 | 16.2 | 23.2 | 19.1 | 15.1 | 9.5 | 5.3 | 2.5 | 3.0 | .7 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1834-1974

AREA 0033 SANTA ROSA IS, SW
32.0N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG | SNOW | NO SIG WEA |
| N | .4 | .4 | .9 | .0 | .0 | .0 | * | 1.6 | .6 | * | 2.7 | .1 | 2.1 | | | * | 92.9 |
| NE | 1.0 | .5 | 1.2 | .0 | .0 | .0 | .0 | 2.7 | .5 | .1 | 4.3 | .2 | 4.0 | | | * | 88.2 |
| E | 2.1 | .6 | 2.1 | .0 | .0 | .0 | .0 | 4.7 | 2.2 | .0 | 6.3 | .6 | 4.4 | | | .1 | 81.7 |
| SE | 4.6 | .9 | 2.3 | .0 | .0 | .0 | .0 | 6.9 | 1.4 | .7 | 7.2 | .6 | 1.9 | | | .1 | 81.2 |
| S | 2.6 | 1.0 | 2.7 | .0 | .0 | .0 | .0 | 6.0 | 2.3 | .1 | 4.3 | .2 | 3.9 | | | .0 | 83.2 |
| SW | 2.0 | .9 | 2.2 | .0 | .0 | .0 | * | 4.7 | 2.5 | .3 | 5.2 | .2 | 4.0 | | | * | 83.1 |
| W | 1.0 | .8 | 2.1 | .0 | .0 | .0 | .0 | 3.6 | 1.2 | .1 | 5.6 | .3 | 3.4 | | | .1 | 85.9 |
| NW | .3 | .3 | .9 | .0 | .0 | .0 | .0 | 1.6 | .7 | .1 | 3.7 | .1 | 2.9 | | | * | 90.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | | .0 | .0 |
| CALM | .1 | .3 | .9 | .0 | .0 | .0 | .0 | 1.3 | .4 | .1 | 11.1 | .5 | 4.3 | | | .1 | 82.4 |
| TOT PCT | .8 | .5 | 1.3 | .0 | .0 | .0 | * | 2.5 | .9 | .1 | 3.9 | .2 | 2.8 | | | * | 89.6 |
| TOT OBS: 55973 | | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG | SNOW | NO SIG WEA |
| 00&03 | .7 | .6 | 1.0 | .0 | .0 | .0 | * | 2.1 | .7 | .1 | 3.5 | .1 | 3.6 | | | * | 89.9 |
| 06&09 | .8 | .5 | 1.3 | .0 | .0 | .0 | .0 | 2.5 | 1.0 | .1 | 3.8 | .2 | 2.2 | | | * | 90.2 |
| 12&15 | 1.0 | .6 | 2.0 | .0 | .0 | .0 | .0 | 3.4 | 1.0 | .1 | 4.5 | .2 | 2.4 | | | .1 | 88.3 |
| 18&21 | .7 | .4 | 1.0 | .0 | .0 | .0 | * | 2.0 | .9 | * | 3.9 | .2 | 2.9 | | | .1 | 90.1 |
| TOT PCT | .8 | .5 | 1.3 | .0 | .0 | .0 | * | 2.5 | .9 | .1 | 3.9 | .2 | 2.8 | | | * | 89.6 |
| TOT OBS: 56300 | | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 7.6 | 16.5 | 5.4 | .3 | .0 | | 30.5 | 15.5 | 32.6 | 27.0 | 30.6 | 30.3 | 29.0 | 28.9 | 32.7 | 29.2 |
| NE | .2 | 1.7 | 1.3 | .2 | * | .0 | | 3.5 | 11.3 | 3.0 | 3.4 | 3.5 | 2.8 | 3.5 | 4.0 | 3.9 | 3.7 |
| E | .2 | .9 | .3 | * | * | .0 | | 1.4 | 7.9 | 1.1 | 1.1 | 1.4 | 1.1 | 1.3 | 1.9 | 1.8 | 1.7 |
| SE | .2 | 1.0 | .5 | .1 | * | .0 | | 1.8 | 8.9 | 1.6 | 1.8 | 1.4 | 1.7 | 1.6 | 2.1 | 1.9 | 2.0 |
| S | .3 | 1.5 | 1.4 | .2 | * | .0 | | 3.4 | 9.6 | 3.6 | 3.4 | 3.1 | 3.3 | 3.3 | 3.4 | 3.5 | 3.8 |
| SW | .3 | 2.2 | 1.5 | .2 | * | .0 | | 4.2 | 9.5 | 4.2 | 4.2 | 3.7 | 4.0 | 4.2 | 4.2 | 4.0 | 5.2 |
| W | .7 | 5.5 | 4.4 | .8 | * | .0 | | 11.5 | 11.2 | 10.6 | 12.9 | 12.0 | 11.4 | 12.7 | 12.0 | 10.1 | 11.3 |
| NW | .8 | 10.8 | 22.7 | 7.1 | .4 | * | | 41.9 | 15.2 | 41.3 | 44.9 | 42.2 | 43.6 | 42.2 | 42.4 | 39.9 | 41.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | | 1.8 | .0 | 1.9 | 1.3 | 2.0 | 1.9 | 2.1 | 1.3 | 2.2 | 1.5 |
| TOT OBS | | | | | | | 58444 | | 13.9 | 10717 | 4515 | 8640 | 3517 | 9540 | 5301 | 10143 | 6071 |
| TOT PCT | 5.4 | 31.0 | 48.7 | 14.1 | .8 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.9 | 14.7 | 11.4 | 1.5 | * | | 30.5 | 15.5 | 31.0 | 30.5 | 28.9 | 31.4 |
| NE | .9 | 1.9 | .6 | .1 | * | | 3.5 | 11.3 | 3.1 | 3.3 | 3.7 | 3.9 |
| E | .6 | .7 | .1 | * | .0 | | 1.4 | 7.9 | 1.1 | 1.3 | 1.5 | 1.7 |
| SE | .7 | .8 | .2 | * | .0 | | 1.8 | 8.9 | 1.7 | 1.5 | 1.8 | 2.0 |
| S | .9 | 1.8 | .6 | .1 | .0 | | 3.4 | 9.6 | 3.6 | 3.2 | 3.3 | 3.6 |
| SW | 1.3 | 2.3 | .6 | .1 | * | | 4.2 | 9.5 | 4.2 | 3.8 | 4.2 | 4.4 |
| W | 2.8 | 6.6 | 1.8 | .2 | * | | 11.5 | 11.2 | 11.3 | 11.8 | 12.5 | 10.5 |
| NW | 4.0 | 20.8 | 15.1 | 2.0 | * | | 41.9 | 15.2 | 42.4 | 42.6 | 42.3 | 40.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.8 | | | | | | 1.8 | .0 | 1.7 | 1.9 | 1.8 | 1.9 |
| TOT OBS | | | | | | 58444 | | 13.9 | 15232 | 12157 | 14841 | 16214 |
| TOT PCT | 16.0 | 49.6 | 30.4 | 3.9 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

ANNUAL

PERIOD: (PRIMARY) 1944-1976
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 3.0 | 29.0 | 50.3 | 15.1 | .9 | .0 | 14.4 | 100.0 | 15232 |
| 06&09 | 1.9 | 3.1 | 30.5 | 48.6 | 14.7 | 1.1 | .0 | 14.2 | 100.0 | 12157 |
| 12&15 | 1.8 | 3.8 | 32.3 | 48.2 | 13.0 | .8 | * | 13.6 | 100.0 | 14841 |
| 18&21 | 1.9 | 4.1 | 32.2 | 47.8 | 13.5 | .5 | .0 | 13.6 | 100.0 | 16214 |
| TOT | | | | | | | | 13.9 | | 58444 |
| PCT | 1.8 | 3.5 | 31.0 | 48.7 | 14.1 | .8 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.6 | 4.1 | 9.4 | 10.6 | | 4.8 |
| NE | 1.2 | .4 | .8 | 1.2 | | 5.1 |
| E | .5 | .1 | .3 | .5 | | 5.2 |
| SE | .4 | .1 | .4 | .6 | | 5.4 |
| S | .6 | .3 | 1.0 | 1.5 | | 5.8 |
| SW | .8 | .4 | 1.1 | 1.6 | | 5.6 |
| W | 2.7 | 1.2 | 2.6 | 3.9 | | 5.2 |
| NW | 11.6 | 4.4 | 9.8 | 14.2 | | 4.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .7 | .2 | .5 | .8 | | 5.1 |
| TOT OBS | | | | | 39099 | 5.0 |
| TOT PCT | 27.9 | 11.2 | 26.1 | 34.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .5 | 2.5 | 7.4 | 6.3 | 1.0 | .1 | .1 | .1 | 18.3 | |
| NE | * | * | .1 | .2 | .6 | .7 | .1 | * | * | * | 1.8 | |
| E | * | * | * | .1 | .2 | .2 | * | * | * | * | .7 | |
| SE | * | * | * | .1 | .3 | .2 | * | * | * | * | .7 | |
| S | .1 | * | .1 | .3 | .7 | .5 | .1 | * | * | .1 | 1.4 | |
| SW | .1 | * | .1 | .3 | .7 | .7 | .1 | * | * | * | 1.7 | |
| W | .3 | .1 | .3 | .9 | 2.1 | 1.5 | .3 | .1 | .1 | .1 | 4.7 | |
| NW | .5 | .2 | 1.0 | 3.6 | 8.9 | 6.2 | 1.0 | .2 | .1 | .1 | 18.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | * | .1 | .1 | .4 | .3 | .1 | * | * | * | 1.1 | |
| TOT PCT | 1.4 | .4 | 2.2 | 8.3 | 21.4 | 16.6 | 2.6 | .5 | .4 | .5 | 45.6 | 39099 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | 1.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >3500 | 3.3 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| * OR >2000 | 16.8 | 20.3 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 |
| * OR >1000 | 32.5 | 41.3 | 41.9 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 |
| * OR >600 | 37.5 | 49.2 | 50.1 | 50.2 | 50.3 | 50.3 | 50.3 | 50.3 |
| * OR >300 | 38.4 | 51.0 | 52.2 | 52.4 | 52.5 | 52.5 | 52.5 | 52.5 |
| * OR >150 | 38.5 | 51.3 | 52.6 | 52.8 | 52.9 | 52.9 | 52.9 | 53.0 |
| * OR > 0 | 38.6 | 51.7 | 53.0 | 53.4 | 53.7 | 53.9 | 54.2 | 54.4 |

TOTAL NUMBER OF OBS: 39213 PCT FREQ NH <5/8: 45.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 17.5 | 6.4 | 9.7 | 6.6 | 5.1 | 5.2 | 8.4 | 9.8 | 30.1 | 1.1 | 41166 |

ANNUAL

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | * | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .1 | * | * | * | * | .1 | .2 | .2 | .0 | * | .8 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .3 | .0 | * | .8 | |
| 1/2<1 | PCP | * | * | * | * | * | * | * | * | .0 | .0 | .1 | |
| | NO PCP | .2 | * | * | * | * | * | .1 | .2 | .0 | * | .7 | |
| | TOT % | .2 | * | * | * | * | .1 | .1 | .3 | .0 | * | .8 | |
| 1<2 | PCP | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | NO PCP | .1 | * | * | * | * | * | .1 | .2 | .0 | * | .5 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .1 | .2 | .0 | * | .6 | |
| 2<5 | PCP | .1 | * | * | * | .1 | .1 | .1 | .1 | .0 | * | .4 | |
| | NO PCP | .5 | .1 | * | * | .1 | .1 | .4 | 1.0 | .0 | .1 | 2.3 | |
| | TOT % | .5 | .1 | .1 | .1 | .2 | .2 | .4 | 1.1 | .0 | .1 | 2.7 | |
| 5<10 | PCP | .3 | .1 | * | .1 | .1 | .1 | .2 | .4 | .0 | * | 1.3 | |
| | NO PCP | 6.0 | .7 | .4 | .4 | .7 | .9 | 2.6 | 9.5 | .0 | .3 | 21.6 | |
| | TOT % | 6.3 | .8 | .4 | .5 | .9 | 1.1 | 2.8 | 9.9 | .0 | .3 | 22.9 | |
| 10+ | PCP | .1 | * | * | * | .1 | * | .1 | .1 | .0 | * | .5 | |
| | NO PCP | 23.2 | 2.5 | .9 | 1.1 | 2.2 | 2.7 | 7.8 | 29.9 | .0 | 1.3 | 71.6 | |
| | TOT % | 23.3 | 2.5 | .9 | 1.1 | 2.2 | 2.7 | 7.9 | 30.0 | .0 | 1.3 | 72.1 | |
| | TOT OBS | | | | | | | | | | | | 55903 |
| | TOT PCT | 30.6 | 3.5 | 1.4 | 1.7 | 3.4 | 4.1 | 11.5 | 41.8 | .0 | 1.8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | 4-10 | .1 | * | * | * | * | .1 | .1 | .1 | .0 | | .5 | |
| | 11-21 | .1 | * | * | * | * | * | .1 | .1 | .0 | | .3 | |
| | 22+ | * | * | .0 | .0 | * | * | * | * | .0 | | * | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .3 | .0 | * | .9 | |
| 1/2<1 | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | 4-10 | .1 | * | * | * | * | * | * | .1 | .0 | | .3 | |
| | 11-21 | .1 | * | * | * | * | * | * | .1 | .0 | | .4 | |
| | 22+ | * | * | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .2 | * | * | * | * | .1 | .1 | .3 | .0 | * | .9 | |
| 1<2 | 0-3 | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | 4-10 | .1 | * | * | * | * | * | .1 | .1 | .0 | | .4 | |
| | 11-21 | .1 | * | * | * | * | * | * | .2 | .0 | | .4 | |
| | 22+ | * | * | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .1 | * | * | * | .1 | .1 | .2 | .4 | .0 | * | .9 | |
| 2<5 | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .3 | |
| | 4-10 | .2 | .1 | * | * | .1 | .1 | .3 | .4 | .0 | | 1.2 | |
| | 11-21 | .3 | * | * | * | .1 | .1 | .1 | .6 | .0 | | 1.3 | |
| | 22+ | .1 | * | * | * | * | * | * | .2 | .0 | | .3 | |
| | TOT % | .6 | .1 | .1 | .1 | .2 | .2 | .5 | 1.2 | .0 | .1 | 3.0 | |
| 5<10 | 0-3 | .2 | .1 | .1 | .1 | * | .1 | .2 | .2 | .0 | .3 | 1.2 | |
| | 4-10 | 1.6 | .3 | .2 | .2 | .4 | .6 | 1.3 | 2.4 | .0 | | 7.0 | |
| | 11-21 | 3.2 | .3 | .1 | .1 | .4 | .3 | 1.1 | 5.4 | .0 | | 11.0 | |
| | 22+ | 1.3 | .1 | * | * | .1 | .1 | .2 | 1.8 | .0 | | 3.5 | |
| | TOT % | 6.2 | .8 | .4 | .5 | .9 | 1.0 | 2.8 | 9.8 | .0 | .3 | 22.7 | |
| 10+ | 0-3 | .4 | .1 | .1 | .1 | .2 | .2 | .4 | .5 | .0 | 1.3 | 3.5 | |
| | 4-10 | 5.5 | 1.2 | .6 | .6 | 1.0 | 1.4 | 3.7 | 7.5 | .0 | | 21.6 | |
| | 11-21 | 12.8 | 1.0 | .2 | .3 | .9 | 1.0 | 3.1 | 16.3 | .0 | | 35.6 | |
| | 22+ | 4.4 | .2 | * | * | .1 | .1 | .6 | 5.5 | .0 | | 11.0 | |
| | TOT % | 23.2 | 2.5 | .9 | 1.1 | 2.2 | 2.7 | 7.8 | 29.8 | .0 | 1.3 | 71.6 | |
| | TOT OBS | | | | | | | | | | | | 57196 |
| | TOT PCT | 30.5 | 3.5 | 1.4 | 1.7 | 3.4 | 4.1 | 11.5 | 41.9 | .0 | 1.8 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1944-1976
(OVER-ALL) 1854-1976

AREA 0033 SANTA ROSA IS, SW
32.0N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.1 | .4 | 2.3 | 8.3 | 21.2 | 16.2 | 3.1 | .5 | .4 | .5 | 54.0 | 46.0 | 10485 |
| 06&09 | 1.4 | .4 | 1.9 | 6.9 | 19.1 | 14.9 | 1.8 | .3 | .4 | .5 | 47.6 | 52.4 | 9404 |
| 12&15 | 1.8 | .5 | 2.0 | 8.1 | 21.6 | 16.5 | 2.1 | .5 | .4 | .4 | 53.8 | 46.2 | 9594 |
| 18&21 | 1.4 | .4 | 2.4 | 9.0 | 22.1 | 17.7 | 3.1 | .6 | .5 | .5 | 57.7 | 42.3 | 10573 |
| TOT | | | | | | | | | | | | | 40056 |
| PCT | 1.4 | .4 | 2.2 | 8.1 | 21.1 | 16.3 | 2.6 | .5 | .4 | .5 | 53.5 | 46.5 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | .9 | 1.0 | 3.1 | 22.0 | 72.0 | 15105 |
| 06&09 | .9 | .7 | .6 | 2.4 | 23.5 | 72.0 | 12110 |
| 12&15 | 1.1 | 1.1 | 1.2 | 3.6 | 25.0 | 68.0 | 14691 |
| 18&21 | .8 | .6 | .9 | 2.9 | 20.4 | 74.3 | 15622 |
| TOT | | | | | | | 57528 |
| PCT | .9 | .9 | .9 | 3.0 | 22.7 | 71.6 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 10^0+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 1.1 | 4.1 | 13.5 | 42.0 | 44.4 | 10234 |
| 06&09 | 1.4 | 3.9 | 12.0 | 36.8 | 51.2 | 9272 |
| 12&15 | 1.8 | 4.6 | 14.2 | 41.1 | 44.7 | 9398 |
| 18&21 | 1.4 | 4.4 | 14.5 | 44.9 | 40.6 | 10309 |
| TOT | | | | | | 39213 |
| PCT | 1.4 | 4.2 | 13.6 | 41.3 | 45.1 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | * | * | * | * | .0 | .0 | | * |
| 75/79 | .0 | * | * | * | * | * | * | * | | .2 |
| 70/74 | .0 | * | * | .1 | .4 | .5 | .3 | .1 | | 1.4 |
| 65/69 | * | * | .1 | .3 | 1.2 | 3.6 | 4.3 | 1.9 | | 11.3 |
| 60/64 | .0 | * | .1 | .6 | 3.3 | 10.3 | 17.8 | 7.9 | | 40.0 |
| 55/59 | .0 | * | .1 | .7 | 3.4 | 9.8 | 15.7 | 8.3 | | 38.1 |
| 50/54 | .0 | * | .1 | .3 | 1.4 | 1.9 | 3.6 | 1.7 | | 8.9 |
| 45/49 | .0 | .0 | * | * | * | * | * | * | | .2 |
| 40/44 | .0 | .0 | .0 | .0 | * | * | * | .0 | | * |
| TOTAL | | | | | | | | | 43601 | 100.0 |
| PCT | * | * | .4 | 2.1 | 9.7 | 26.2 | 41.7 | 19.9 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| TEMP F | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | * | .0 | .0 | .0 | .0 | * | * | .0 | .0 |
| 75/79 | .1 | * | * | * | .0 | * | * | .1 | .0 | * |
| 70/74 | .5 | .1 | * | * | * | .1 | .2 | .4 | .0 | * |
| 65/69 | 3.5 | .4 | .2 | .2 | .4 | .6 | 1.4 | 4.3 | .0 | .3 |
| 60/64 | 11.5 | 1.2 | .6 | .7 | 1.6 | 1.8 | 4.9 | 16.9 | .0 | .8 |
| 55/59 | 11.1 | 1.4 | .5 | .6 | 1.2 | 1.4 | 4.4 | 17.0 | .0 | .5 |
| 50/54 | 2.5 | .3 | .1 | .1 | .1 | .2 | 1.0 | 4.4 | .0 | .1 |
| 45/49 | .1 | * | * | * | * | * | * | .1 | .0 | * |
| 40/44 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 |
| TOTAL PCT | 29.3 | 3.4 | 1.4 | 1.7 | 3.3 | 4.0 | 11.9 | 43.2 | .0 | 1.7 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 70 | 67 | 61 | 56 | 54 | 42 | 60.8 | 15219 |
| 06&09 | 79 | 66 | 63 | 59 | 55 | 53 | 45 | 59.1 | 12200 |
| 12&15 | 82 | 69 | 63 | 59 | 54 | 52 | 43 | 58.7 | 14879 |
| 18&21 | 80 | 70 | 67 | 61 | 56 | 53 | 41 | 60.8 | 16223 |
| TOT | 82 | 69 | 66 | 60 | 55 | 53 | 41 | 59.9 | 58521 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.6 | 11.6 | 29.4 | 40.0 | 16.3 | 80 | 11647 |
| 06&09 | .0 | 1.7 | 7.5 | 22.0 | 45.5 | 23.3 | 83 | 9130 |
| 12&15 | * | 1.9 | 6.6 | 21.8 | 43.7 | 25.9 | 84 | 11027 |
| 18&21 | * | 3.3 | 12.3 | 30.2 | 38.8 | 15.4 | 80 | 12032 |
| TOT | 2 | 1039 | 4237 | 11486 | 18350 | 8702 | 82 | 43836 |

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 2 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | 15 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | .0 | 43 | * | .1 |
| 11/13 | .0 | .0 | .0 | * | * | * | .1 | .1 | .1 | * | .0 | 150 | * | .3 |
| 9/10 | .0 | .0 | .0 | .0 | * | .1 | .2 | .2 | * | * | .0 | 323 | * | .6 |
| 7/8 | .0 | .0 | .0 | * | .1 | .4 | .6 | .3 | .1 | * | .0 | 775 | .1 | 1.4 |
| 6 | .0 | .0 | .0 | * | .2 | .4 | .4 | .2 | * | .0 | .0 | 660 | * | 1.2 |
| 5 | .0 | * | * | .1 | .4 | .7 | .7 | .2 | * | * | * | 1145 | .1 | 2.1 |
| 4 | .0 | .0 | * | .1 | .8 | 1.5 | .8 | .2 | * | * | .0 | 1798 | .1 | 3.3 |
| 3 | .0 | .0 | * | .2 | 1.1 | 1.6 | 1.1 | .2 | * | .0 | .0 | 2240 | .1 | 4.1 |
| 2 | .0 | .0 | * | .6 | 2.4 | 3.1 | 1.3 | .2 | * | * | .0 | 4012 | .3 | 7.3 |
| 1 | .0 | .0 | * | .9 | 3.2 | 3.6 | 1.4 | .2 | * | .0 | .0 | 4904 | .3 | 8.9 |
| 0 | * | * | .1 | 2.1 | 5.7 | 4.9 | 1.4 | .1 | * | .0 | .0 | 7591 | .6 | 13.7 |
| -1 | .0 | .0 | .2 | 2.4 | 5.0 | 4.1 | 1.1 | * | * | * | .0 | 6791 | .5 | 12.3 |
| -2 | .0 | * | .3 | 3.1 | 5.5 | 3.7 | .6 | * | .0 | .0 | .0 | 7025 | .5 | 12.8 |
| -3 | .0 | .0 | .3 | 2.5 | 4.1 | 2.5 | .5 | * | .0 | .0 | .0 | 5248 | .4 | 9.5 |
| -4 | .0 | * | .5 | 2.5 | 3.1 | 1.7 | .2 | * | .0 | .0 | .0 | 4218 | .3 | 7.7 |
| -5 | * | * | .3 | 1.6 | 1.7 | 1.0 | .2 | * | .0 | .0 | .0 | 2550 | .2 | 4.6 |
| -6 | .0 | * | .3 | 1.0 | .9 | .6 | * | * | .0 | .0 | .0 | 1477 | .1 | 2.7 |
| -7/-8 | .0 | * | .3 | .8 | .8 | .5 | * | * | .0 | .0 | .0 | 1307 | .1 | 2.4 |
| -9/-10 | .0 | * | .1 | .3 | .2 | .1 | * | * | .0 | .0 | .0 | 402 | * | .7 |
| -11/-13 | * | * | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | 139 | * | .3 |
| -14/-16 | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | 35 | * | .1 |
| -17/-19 | .0 | * | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 3 | .0 | * |
| TOTAL | | | | | | | | | | | | 52873 | | |
| PCT | * | .2 | 2.5 | 18.3 | 35.3 | 30.7 | 10.7 | 1.9 | .3 | .1 | * | 100.0 | 3.8 | 96.2 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .9 | .1 | .0 | .0 | .0 | 1.2 |
| 1-2 | .2 | 3.4 | 2.8 | .0 | .0 | .0 | 6.4 |
| 3-4 | .1 | 2.1 | 6.1 | .9 | .0 | .0 | 9.1 |
| 5-6 | * | .7 | 4.1 | 1.3 | * | .0 | 6.2 |
| 7 | * | .2 | 2.5 | 1.3 | .1 | .0 | 4.1 |
| 8-9 | * | * | .9 | .8 | * | .0 | 1.8 |
| 10-11 | * | .0 | .4 | .6 | .1 | .0 | 1.1 |
| 12 | .0 | .0 | .1 | .3 | .1 | .0 | .4 |
| 13-16 | .0 | * | * | .2 | .1 | .0 | .3 |
| 17-19 | .0 | .0 | * | * | * | .0 | .1 |
| 20-22 | .0 | .0 | * | * | .0 | .0 | * |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 7.3 | 17.0 | 5.5 | .4 | .0 | 30.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | * | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .8 | .4 | .0 | .0 | .0 | 1.2 |
| 3-4 | * | .5 | .6 | * | .0 | .0 | 1.2 |
| 5-6 | * | .1 | .3 | * | * | .0 | .4 |
| 7 | .0 | * | .2 | .1 | * | .0 | .3 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | * | * | * | .0 | .0 | * |
| 12 | .0 | * | * | * | * | .0 | * |
| 13-16 | .0 | .0 | * | .0 | * | .0 | * |
| 17-19 | .0 | .0 | .0 | * | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.8 | 1.6 | .3 | * | .0 | 3.8 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | * | .0 | .0 | .0 | .3 |
| 1-2 | * | .5 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | * | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | * | * | * | .0 | .0 | .0 | .1 |
| 7 | .0 | * | * | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .3 | * | .0 | .0 | 1.4 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | * | .5 | .2 | .0 | .0 | .0 | .7 |
| 3-4 | * | .2 | .3 | * | .0 | .0 | .5 |
| 5-6 | * | * | .1 | * | .0 | .0 | .1 |
| 7 | .0 | * | * | * | .0 | .0 | * |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | * | * | .0 | * |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | * | .0 | .0 | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.0 | .5 | .1 | * | .0 | 1.7 |

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .4 | * | .0 | .0 | .0 | .4 | .1 | .5 | * | .0 | .0 | .0 | .6 |
| 1-2 | .1 | .7 | .4 | .0 | .0 | .0 | 1.1 | .1 | .9 | .4 | .0 | .0 | .0 | 1.4 |
| 3-4 | * | .3 | .5 | .1 | .0 | .0 | .9 | * | .3 | .6 | .1 | .0 | .0 | 1.0 |
| 5-6 | * | .1 | .3 | .1 | .0 | .0 | .4 | * | .1 | .3 | * | .0 | .0 | .5 |
| 7 | .0 | * | .1 | * | * | .0 | .1 | .0 | * | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | * | .1 | * | .0 | .0 | .1 | .0 | * | * | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | * | .0 | .0 | * | * | * | .0 | * |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | * | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.5 | 1.3 | .3 | * | .0 | 3.3 | .2 | 1.9 | 1.5 | .2 | * | .0 | 3.8 |

| | W | | | | | | | NW | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .8 | * | .0 | .0 | .0 | 1.1 | .2 | 1.3 | .1 | .0 | .0 | .0 | 1.6 | |
| 1-2 | .2 | 2.3 | 1.2 | .0 | .0 | .0 | 3.7 | .3 | 5.0 | 4.5 | .0 | .0 | .0 | 9.8 | |
| 3-4 | * | 1.2 | 1.4 | .2 | .0 | .0 | 2.8 | .1 | 3.2 | 8.7 | 1.4 | .0 | .0 | 13.5 | |
| 5-6 | * | .3 | .9 | .1 | * | .0 | 1.4 | * | .9 | 6.0 | 1.6 | * | .0 | 8.6 | |
| 7 | * | .1 | .4 | .1 | .0 | .0 | .7 | .0 | .3 | 3.1 | 1.7 | .1 | .0 | 5.3 | |
| 8-9 | .0 | * | .2 | .1 | .0 | .0 | .4 | .0 | .1 | 1.2 | 1.1 | .1 | .0 | 2.5 | |
| 10-11 | .0 | .0 | * | .1 | * | .0 | .1 | .0 | .0 | .3 | .7 | .1 | .0 | 1.1 | |
| 12 | .0 | .0 | * | * | * | .0 | .1 | .0 | .0 | .1 | .3 | .1 | .0 | .5 | |
| 13-16 | .0 | .0 | * | * | .0 | .0 | * | .0 | * | .1 | .2 | .1 | * | .5 | |
| 17-19 | .0 | .0 | .0 | * | * | .0 | * | .0 | .0 | .0 | * | * | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .5 | 4.8 | 4.1 | .8 | * | .0 | 10.3 | .6 | 10.8 | 24.2 | 7.2 | .6 | * | 43.4 | 98.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 2.7 | 4.7 | .2 | .0 | .0 | .0 | 7.6 | |
| 1-2 | 1.0 | 14.0 | 9.9 | .0 | .0 | .0 | 24.9 | |
| 3-4 | .3 | 8.1 | 18.3 | 2.7 | .0 | .0 | 29.5 | |
| 5-6 | .1 | 2.3 | 11.9 | 3.3 | .1 | .0 | 17.7 | |
| 7 | * | .7 | 6.4 | 3.4 | .2 | .0 | 10.7 | |
| 8-9 | * | .2 | 2.5 | 2.2 | .1 | .0 | 5.0 | |
| 10-11 | * | * | .8 | 1.4 | .2 | .0 | 2.4 | |
| 12 | .0 | * | .2 | .6 | .1 | .0 | 1.0 | |
| 13-16 | .0 | * | .2 | .5 | .2 | * | .9 | |
| 17-19 | .0 | * | * | .1 | .1 | .0 | .2 | |
| 20-22 | .0 | .0 | * | * | .0 | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 13780 |
| TOT PCT | 4.2 | 30.0 | 50.5 | 14.3 | 1.0 | * | 100.0 | |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.1 | 9.4 | 13.3 | 6.3 | 3.3 | 1.4 | .5 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 11937 | 4 |
| 6-7 | .1 | 1.9 | 7.6 | 7.5 | 6.0 | 3.5 | 1.6 | .8 | .5 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9884 | 6 |
| 8-9 | * | .9 | 3.3 | 3.4 | 4.1 | 2.6 | 1.7 | .9 | .6 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 5928 | 7 |
| 10-11 | .0 | .6 | 1.2 | 1.1 | 1.6 | 1.4 | .8 | .6 | .5 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2693 | 7 |
| 12-13 | .0 | .0 | .6 | .4 | .5 | .5 | .4 | .3 | .3 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 991 | 8 |
| >13 | .0 | .0 | .0 | .1 | .2 | .2 | .2 | .1 | .2 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 352 | 10 |
| INDET | 2.3 | 1.0 | .7 | .5 | .3 | .2 | .1 | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1694 | 2 |
| TOTAL | | | | | | | | | | | | | | | | | | | | 33479 | 5 |
| PCT | 3.5 | 13.8 | 26.7 | 19.3 | 16.0 | 9.7 | 5.4 | 2.7 | 2.2 | .5 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

| SEA TMP DEG F | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN | PCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 95/96 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 93/94 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 91/92 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 89/90 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 87/88 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 85/86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 83/84 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 81/82 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | * |
| 79/80 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | .0 | .0 | 6 | * |
| 77/78 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | * | .0 | 10 | * |
| 75/76 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .3 | * | * | .0 | 24 | * |
| 73/74 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | .5 | .2 | * | * | 51 | .1 |
| 71/72 | .0 | * | * | .1 | * | .3 | .2 | .8 | 1.1 | 1.5 | .2 | * | 202 | .4 |
| 69/70 | * | .2 | .1 | .2 | .2 | 1.8 | 1.4 | 2.7 | 6.2 | 5.5 | 1.0 | .3 | 904 | 1.6 |
| 67/68 | .2 | .2 | .1 | .1 | .2 | 2.9 | 5.4 | 8.4 | 21.1 | 10.7 | 3.5 | .9 | 2473 | 4.5 |
| 65/66 | .7 | .5 | .4 | .6 | 1.1 | 4.7 | 13.4 | 21.3 | 24.6 | 24.5 | 10.3 | 3.1 | 4827 | 8.7 |
| 63/64 | 5.3 | 2.9 | 1.9 | 3.7 | 6.9 | 16.9 | 22.5 | 30.7 | 26.9 | 32.3 | 25.1 | 13.5 | 8583 | 15.5 |
| 61/62 | 12.3 | 9.9 | 9.7 | 9.5 | 18.2 | 21.1 | 28.2 | 22.1 | 11.8 | 16.5 | 30.9 | 28.6 | 9940 | 18.0 |
| 59/60 | 27.9 | 26.5 | 23.8 | 28.5 | 26.3 | 27.8 | 19.4 | 9.4 | 5.5 | 6.9 | 18.9 | 25.5 | 11357 | 20.5 |
| 57/58 | 28.2 | 32.5 | 28.8 | 27.2 | 23.8 | 14.9 | 6.3 | 3.0 | 1.4 | 1.4 | 6.8 | 17.7 | 8955 | 16.2 |
| 55/56 | 17.2 | 18.4 | 23.1 | 16.6 | 15.5 | 5.9 | 2.1 | .9 | .3 | .2 | 2.3 | 7.5 | 5200 | 9.4 |
| 53/54 | 6.5 | 6.5 | 9.0 | 9.2 | 6.4 | 2.3 | .7 | .3 | .1 | * | .6 | 1.9 | 2064 | 3.7 |
| 51/52 | 1.1 | 1.6 | 2.4 | 3.2 | 1.0 | .9 | .2 | .1 | * | .0 | .3 | .6 | 539 | 1.0 |
| 49/50 | .3 | .4 | .5 | 1.1 | .2 | .4 | * | * | * | .0 | * | .1 | 147 | .3 |
| 47/48 | .1 | .1 | .1 | * | .0 | * | .0 | .0 | .0 | .0 | * | .1 | 25 | * |
| 45/46 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 10 | * |
| 43/44 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | * |
| 41/42 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 39/40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 37/38 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 35/36 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 33/34 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 31/32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 29/30 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 27/28 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| <27 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| TOTAL | 5257 | 4243 | 5061 | 4674 | 4872 | 4152 | 4579 | 4328 | 4640 | 4847 | 4599 | 4070 | 55322 | 100.0 |
| MEAN | 58.3 | 58.0 | 57.6 | 57.9 | 58.7 | 60.6 | 62.2 | 63.5 | 64.9 | 64.3 | 61.9 | 60.1 | 60.6 | |

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

| MO | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 1020 | 1020 | 1021 | 1020 | 1020 | 1020 | 1022 | 1021 | 1020 | 5083 |
| FEB | 1019 | 1019 | 1020 | 1020 | 1019 | 1019 | 1021 | 1020 | 1020 | 4248 |
| MAR | 1019 | 1018 | 1020 | 1019 | 1018 | 1019 | 1020 | 1019 | 1019 | 5078 |
| APR | 1018 | 1017 | 1018 | 1018 | 1017 | 1018 | 1019 | 1019 | 1018 | 4733 |
| MAY | 1018 | 1017 | 1018 | 1018 | 1017 | 1018 | 1019 | 1018 | 1018 | 4858 |
| JUN | 1016 | 1015 | 1016 | 1016 | 1015 | 1016 | 1017 | 1016 | 1016 | 4407 |
| JUL | 1016 | 1015 | 1016 | 1015 | 1015 | 1016 | 1017 | 1016 | 1016 | 4634 |
| AUG | 1015 | 1015 | 1016 | 1015 | 1015 | 1016 | 1017 | 1016 | 1016 | 4482 |
| SEP | 1014 | 1015 | 1014 | 1014 | 1014 | 1015 | 1016 | 1016 | 1015 | 4535 |
| OCT | 1016 | 1016 | 1016 | 1016 | 1016 | 1017 | 1018 | 1017 | 1016 | 4860 |
| NOV | 1018 | 1018 | 1019 | 1019 | 1018 | 1019 | 1020 | 1019 | 1019 | 4489 |
| DEC | 1019 | 1019 | 1020 | 1019 | 1019 | 1019 | 1021 | 1020 | 1020 | 4031 |
| ANN | 1017 | 1017 | 1018 | 1017 | 1017 | 1018 | 1019 | 1018 | 1018 | 55438 |
| OBS | 10242 | 4069 | 8615 | 3131 | 9085 | 4847 | 10068 | 5381 | | |

PERCENTILES

| MO | MIN | 1% | 5% | 25% | 50% | 75% | 95% | 99% | MAX |
|---|---|---|---|---|---|---|---|---|---|
| JAN | 998 | 1007 | 1013 | 1018 | 1021 | 1023 | 1027 | 1030 | 1034 |
| FEB | 998 | 1005 | 1011 | 1017 | 1020 | 1023 | 1027 | 1030 | 1036 |
| MAR | 996 | 1006 | 1011 | 1017 | 1020 | 1022 | 1026 | 1028 | 1033 |
| APR | 994 | 1008 | 1012 | 1016 | 1018 | 1021 | 1024 | 1027 | 1031 |
| MAY | 997 | 1009 | 1012 | 1016 | 1018 | 1020 | 1023 | 1026 | 1031 |
| JUN | 996 | 1008 | 1010 | 1014 | 1016 | 1018 | 1021 | 1023 | 1027 |
| JUL | 1001 | 1009 | 1011 | 1014 | 1016 | 1017 | 1020 | 1022 | 1030 |
| AUG | 1000 | 1008 | 1010 | 1014 | 1016 | 1018 | 1021 | 1023 | 1027 |
| SEP | 999 | 1006 | 1009 | 1013 | 1015 | 1017 | 1019 | 1022 | 1030 |
| OCT | 1001 | 1007 | 1011 | 1014 | 1017 | 1019 | 1021 | 1023 | 1028 |
| NOV | 1001 | 1007 | 1011 | 1016 | 1019 | 1021 | 1025 | 1028 | 1032 |
| DEC | 996 | 1005 | 1011 | 1017 | 1020 | 1023 | 1027 | 1029 | 1033 |

JANUARY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1863-1974

AREA 0034 POINT HUGU NW
34.5N 121.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG W/O PCPN | FOG W/ PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | 1.1 | .3 | .6 | .0 | .0 | .0 | .1 | 1.8 | .9 | .0 | 3.3 | .1 | 3.6 | | .0 | 90.3 |
| NE | 2.8 | .7 | 2.9 | .0 | .0 | .0 | .0 | 5.0 | .5 | .0 | 3.7 | .0 | 8.3 | | .0 | 82.5 |
| E | 5.7 | .9 | 4.8 | .0 | .0 | .0 | .0 | 9.6 | 1.2 | .0 | 5.5 | .0 | 6.8 | | .0 | 76.9 |
| SE | 9.3 | 2.7 | 3.7 | .0 | .0 | .0 | .0 | 14.2 | 1.7 | .0 | 8.7 | .0 | 5.5 | | .0 | 69.9 |
| S | 10.5 | 3.4 | 5.5 | .0 | .0 | .0 | .0 | 18.5 | 1.6 | .0 | 12.7 | .2 | 4.3 | | .0 | 62.7 |
| SW | 7.6 | 3.1 | 9.2 | .0 | .0 | .0 | .0 | 18.9 | 1.7 | .8 | 10.1 | 1.0 | 4.0 | | .0 | 63.4 |
| W | 1.8 | 1.9 | 1.4 | .0 | .0 | .0 | .0 | 4.3 | 1.3 | .0 | 6.5 | .0 | 2.8 | | .0 | 85.1 |
| NW | 1.3 | .6 | 1.3 | .0 | .0 | .0 | .0 | 2.4 | .7 | .1 | 4.3 | .0 | 3.9 | | .1 | 88.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 1.9 | 1.2 | 2.5 | .0 | .0 | .0 | .0 | 4.9 | .6 | .0 | 8.0 | .6 | 9.9 | | .0 | 75.9 |
| TOT PCT | 3.5 | 1.3 | 2.6 | .0 | .0 | .0 | * | 6.5 | 1.0 | .1 | 5.9 | .1 | 4.8 | | * | 81.6 |
| TOT OBS: | 3884 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG W/O PCPN | FOG W/ PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 2.7 | 1.6 | 2.1 | .0 | .0 | .0 | .0 | 5.3 | .8 | .1 | 4.8 | .1 | 6.1 | | .0 | 82.8 |
| 06&09 | 4.0 | 1.1 | 2.8 | .0 | .0 | .0 | .1 | 7.5 | 2.4 | .3 | 4.7 | .1 | 2.8 | | .0 | 82.2 |
| 12&15 | 4.0 | 1.2 | 2.9 | .0 | .0 | .0 | .0 | 7.5 | 1.0 | .0 | 6.9 | .1 | 3.0 | | .0 | 81.4 |
| 18&21 | 3.3 | 1.2 | 2.9 | .0 | .0 | .0 | .0 | 6.2 | .5 | .0 | 6.7 | .2 | 5.9 | | .1 | 80.5 |
| TOT PCT | 3.4 | 1.3 | 2.7 | .0 | .0 | .0 | * | 6.5 | 1.0 | .1 | 5.9 | .1 | 4.7 | | * | 81.6 |
| TOT OBS: | 3915 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.0 | 7.7 | 8.0 | 1.8 | .1 | .0 | | 19.6 | 11.9 | 18.0 | 18.3 | 24.0 | 19.5 | 22.7 | 19.4 | 19.5 | 16.9 |
| NE | 2.5 | 5.1 | 2.0 | .3 | * | .0 | | 10.0 | 7.7 | 4.5 | 6.7 | 9.3 | 7.6 | 10.7 | 16.7 | 17.3 | 6.3 |
| E | 1.4 | 3.6 | 1.5 | .2 | * | .0 | | 6.7 | 8.1 | 3.6 | 5.8 | 7.0 | 5.0 | 5.0 | 9.6 | 10.4 | 6.6 |
| SE | 1.0 | 3.5 | 1.4 | .6 | .1 | .0 | | 6.6 | 10.2 | 6.2 | 6.3 | 5.7 | 6.4 | 5.2 | 8.8 | 6.4 | 7.6 |
| S | 1.4 | 3.2 | 2.1 | .7 | * | .0 | | 7.5 | 10.4 | 9.4 | 5.8 | 6.9 | 6.3 | 7.0 | 5.6 | 6.1 | 10.3 |
| SW | .9 | 3.2 | 1.7 | .4 | * | .0 | | 6.2 | 9.8 | 7.4 | 6.0 | 4.7 | 6.3 | 6.3 | 5.4 | 4.3 | 7.5 |
| W | 1.6 | 6.6 | 4.3 | .5 | .1 | .0 | | 13.0 | 9.9 | 19.4 | 14.5 | 11.5 | 10.5 | 10.4 | 6.9 | 9.9 | 17.2 |
| NW | 1.6 | 9.9 | 11.4 | 2.5 | .1 | .0 | | 25.3 | 12.5 | 28.1 | 30.8 | 28.1 | 31.5 | 24.7 | 22.9 | 18.1 | 24.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.1 | | | | | | | 5.1 | .0 | 3.5 | 3.8 | 2.9 | 6.9 | 8.0 | 4.7 | 8.0 | 3.0 |
| TOT OBS | 758 | 1868 | 1415 | 305 | 18 | 0 | 4364 | | 10.2 | 768 | 338 | 454 | 332 | 564 | 494 | 710 | 704 |
| TOT PCT | 17.4 | 42.8 | 32.4 | 7.0 | .4 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.1 | 9.5 | 4.6 | .4 | .0 | | 19.6 | 11.9 | 18.1 | 22.1 | 21.2 | 18.2 |
| NE | 5.7 | 3.3 | .9 | .1 | .0 | | 10.0 | 7.7 | 5.2 | 8.6 | 13.5 | 11.8 |
| E | 3.3 | 2.8 | .5 | .1 | .0 | | 6.7 | 8.1 | 4.2 | 6.2 | 7.1 | 8.5 |
| SE | 2.5 | 3.1 | .7 | .3 | * | | 6.6 | 10.2 | 6.2 | 6.0 | 6.9 | 7.0 |
| S | 3.0 | 3.0 | 1.2 | .3 | .0 | | 7.5 | 10.4 | 8.3 | 6.6 | 6.4 | 8.2 |
| SW | 2.4 | 2.9 | .8 | .1 | * | | 6.2 | 9.8 | 7.5 | 5.4 | 5.9 | 5.9 |
| W | 4.5 | 6.6 | 1.9 | .1 | * | | 13.0 | 9.9 | 17.9 | 11.1 | 8.7 | 13.6 |
| NW | 5.3 | 13.4 | 5.9 | .6 | * | | 25.3 | 12.5 | 28.9 | 29.5 | 23.9 | 21.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.1 | | | | | | 5.1 | .0 | 3.6 | 4.6 | 6.4 | 5.5 |
| TOT OBS | 1607 | 1946 | 717 | 91 | 3 | 4364 | | 10.2 | 1106 | 786 | 1058 | 1414 |
| TOT PCT | 36.8 | 44.6 | 16.4 | 2.1 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JANUARY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1863-1974

AREA 0034 POINT MUGU NW
34.5N 121.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.6 | 11.9 | 39.4 | 35.9 | 8.5 | .6 | .0 | 10.9 | 100.0 | 1106 |
| 06&09 | 4.6 | 11.6 | 40.1 | 34.1 | 9.3 | .4 | .0 | 10.9 | 100.0 | 786 |
| 12&15 | 6.4 | 12.1 | 45.3 | 30.1 | 5.9 | .3 | .0 | 9.7 | 100.0 | 1058 |
| 18&21 | 5.5 | 13.1 | 45.1 | 30.6 | 5.4 | .4 | .0 | 9.5 | 100.0 | 1414 |
| TOT | 222 | 536 | 1868 | 1415 | 305 | 18 | 0 | 10.2 | | 4364 |
| PCT | 5.1 | 12.3 | 42.8 | 32.4 | 7.0 | .4 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 11.9 | 3.3 | 4.9 | 3.0 | | 3.1 |
| NE | 7.1 | 1.4 | 1.6 | 1.8 | | 2.7 |
| E | 3.0 | .6 | .9 | 1.1 | | 3.1 |
| SE | 1.3 | .8 | 1.5 | 2.2 | | 5.3 |
| S | .9 | .5 | 2.2 | 3.4 | | 6.2 |
| SW | 1.4 | .4 | 1.5 | 1.8 | | 5.1 |
| W | 4.7 | 1.9 | 3.2 | 2.1 | | 3.9 |
| NW | 12.0 | 3.0 | 5.6 | 3.3 | | 3.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.9 | .5 | 1.2 | 1.1 | | 3.4 |
| TOT OBS | 881 | 241 | 440 | 388 | 1950 | 3.7 |
| TOT PCT | 45.2 | 12.4 | 22.6 | 19.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .5 | .9 | 2.2 | 1.0 | .3 | .1 | * | .3 | 17.5 | |
| NE | .1 | .0 | .1 | .1 | .4 | .8 | .3 | .1 | .1 | .2 | 9.7 | |
| E | .0 | .0 | .1 | .1 | .2 | .5 | .1 | .2 | .0 | .3 | 4.3 | |
| SE | .2 | .1 | .1 | .5 | 1.1 | .3 | .1 | .2 | * | .2 | 3.1 | |
| S | .5 | .0 | .2 | 1.0 | 1.5 | .7 | .2 | .1 | .2 | * | 2.4 | |
| SW | .2 | .0 | .2 | .3 | .9 | .7 | .1 | .0 | .1 | * | 2.8 | |
| W | .3 | .0 | .1 | .4 | .9 | .6 | .2 | .0 | .4 | .2 | 8.8 | |
| NW | .4 | * | .4 | 1.2 | 2.1 | .9 | .4 | .1 | .1 | .4 | 17.8 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .1 | .0 | .1 | .6 | .4 | .0 | .0 | .1 | .2 | 4.1 | |
| TOT OBS | 39 | 6 | 31 | 90 | 192 | 117 | 33 | 13 | 20 | 36 | 1373 | 1950 |
| TOT PCT | 2.0 | .3 | 1.6 | 4.6 | 9.8 | 6.0 | 1.7 | .7 | 1.0 | 1.8 | 70.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.6 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 |
| * OR >5000 | 1.9 | 3.3 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| * OR >3500 | 3.0 | 4.9 | 5.1 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 |
| * OR >2000 | 5.5 | 10.4 | 11.0 | 11.0 | 11.1 | 11.1 | 11.1 | 11.1 |
| * OR >1000 | 11.8 | 19.3 | 20.6 | 20.9 | 21.0 | 21.0 | 21.0 | 21.0 |
| * OR >600 | 14.4 | 23.4 | 24.8 | 25.3 | 25.5 | 25.5 | 25.6 | 25.6 |
| * OR >300 | 15.2 | 24.6 | 26.3 | 26.8 | 27.1 | 27.1 | 27.1 | 27.1 |
| * OR >150 | 15.3 | 24.8 | 26.6 | 27.1 | 27.3 | 27.4 | 27.4 | 27.4 |
| * OR > 0 | 15.6 | 25.3 | 27.4 | 28.1 | 28.6 | 29.0 | 29.4 | 29.4 |
| TOTAL | 306 | 496 | 539 | 552 | 561 | 570 | 578 | 578 |

TOTAL NUMBER OF OBS: 1964 PCT FREQ NH <5/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 39.9 | 9.2 | 9.7 | 6.1 | 4.7 | 4.1 | 6.6 | 5.2 | 13.0 1.4 | 2039 |

JANUARY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1863-1974

AREA 0034 POINT MUGU NI
34.5N 121.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | * | .0 | .0 | .1 | .1 | * | * | .0 | .0 | .3 | |
| <1/2 | NO PCP | .1 | * | * | .1 | .2 | .1 | .1 | .2 | .0 | .1 | .9 | |
| | TOT % | .1 | * | * | .1 | .3 | .2 | .1 | .3 | .0 | .1 | 1.2 | |
| | PCP | .0 | .0 | * | .1 | * | * | * | .0 | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .1 | * | .1 | .1 | .2 | .3 | .2 | .1 | .0 | * | 1.1 | |
| | TOT % | .1 | * | .1 | .2 | .2 | .3 | .2 | .1 | .0 | * | 1.3 | |
| | PCP | * | .1 | .1 | .1 | .1 | .2 | * | .1 | .0 | .1 | .9 | |
| 1<2 | NO PCP | .1 | .2 | .1 | .2 | .2 | .1 | .1 | .2 | .0 | .1 | 1.2 | |
| | TOT % | .1 | .3 | .2 | .3 | .3 | .3 | .2 | .3 | .0 | .2 | 2.1 | |
| | PCP | * | .3 | .3 | .3 | .5 | .2 | .1 | .1 | .0 | * | 1.8 | |
| 2<5 | NO PCP | .3 | .4 | .4 | .3 | .3 | .3 | .6 | .6 | .0 | .2 | 3.5 | |
| | TOT % | .4 | .7 | .7 | .6 | .8 | .5 | .6 | .8 | .0 | .2 | 5.3 | |
| | PCP | .2 | .1 | .1 | .3 | .6 | .5 | .3 | .2 | .0 | .1 | 2.5 | |
| 5<10 | NO PCP | 4.9 | 3.2 | 1.6 | 1.5 | 1.9 | 1.5 | 2.8 | 5.8 | .0 | .9 | 24.1 | |
| | TOT % | 5.1 | 3.3 | 1.8 | 1.8 | 2.5 | 2.0 | 3.1 | 6.0 | .0 | 1.0 | 26.6 | |
| | PCP | * | .1 | .1 | .1 | .1 | .2 | .1 | .1 | .0 | .0 | .8 | |
| 10+ | NO PCP | 13.8 | 6.2 | 4.2 | 3.5 | 3.5 | 2.9 | 8.5 | 17.3 | .0 | 2.8 | 62.6 | |
| | TOT % | 13.8 | 6.3 | 4.3 | 3.6 | 3.7 | 3.0 | 8.6 | 17.5 | .0 | 2.8 | 63.4 | |
| | TOT OBS | | | | | | | | | | | | 3881 |
| | TOT PCT | 19.7 | 10.5 | 7.0 | 6.6 | 7.9 | 6.3 | 12.0 | 24.9 | .0 | 4.2 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .1 | .2 | |
| <1/2 | 4-10 | .1 | * | * | .1 | .1 | .1 | .1 | .1 | .0 | | .8 | |
| | 11-21 | .1 | * | .0 | .0 | .1 | * | .0 | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | | * | |
| | TOT % | .2 | * | * | .1 | .3 | .2 | .1 | .3 | .0 | .1 | 1.4 | |
| | 0-3 | * | * | * | .0 | .1 | .1 | .1 | * | .0 | * | .3 | |
| 1/2<1 | 4-10 | .0 | * | * | .1 | .1 | .1 | .1 | .1 | .0 | | .6 | |
| | 11-21 | * | .0 | * | * | * | * | * | * | .0 | | .2 | |
| | 22+ | .1 | .0 | .0 | .0 | * | * | * | .0 | .0 | | .2 | |
| | TOT % | .1 | * | .1 | .2 | .2 | .3 | .2 | .1 | .0 | * | 1.2 | |
| | 0-3 | * | .1 | * | * | .0 | * | .1 | * | .0 | .2 | .5 | |
| 1<2 | 4-10 | .1 | .1 | .1 | .2 | .2 | .1 | .1 | .2 | .0 | | 1.1 | |
| | 11-21 | * | .0 | .1 | .1 | .1 | .1 | .0 | * | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | * | .1 | .1 | * | * | .0 | | .2 | |
| | TOT % | .2 | .3 | .2 | .3 | .3 | .3 | .2 | .3 | .0 | .2 | 2.3 | |
| | 0-3 | .2 | .3 | .3 | .1 | * | * | .3 | .1 | .0 | .2 | 1.5 | |
| 2<5 | 4-10 | .2 | .3 | .3 | .2 | .4 | .3 | .4 | .3 | .0 | | 2.4 | |
| | 11-21 | .1 | .1 | .1 | .2 | .3 | .1 | .1 | .4 | .0 | | 1.5 | |
| | 22+ | .1 | * | .0 | .2 | .1 | .1 | .0 | .1 | .0 | | .5 | |
| | TOT % | .5 | .6 | .7 | .6 | .9 | .6 | .8 | .9 | .0 | .2 | 5.8 | |
| | 0-3 | .7 | 1.0 | .3 | .3 | .7 | .3 | .4 | .6 | .0 | 1.0 | 5.3 | |
| 5<10 | 4-10 | 1.6 | 1.5 | .8 | .7 | .9 | .9 | 1.3 | 1.8 | .0 | | 9.6 | |
| | 11-21 | 1.9 | .5 | .5 | .4 | .4 | .7 | 1.1 | 2.5 | .0 | | 8.1 | |
| | 22+ | .5 | .1 | * | .2 | .4 | .1 | .1 | .9 | .0 | | 2.3 | |
| | TOT % | 4.8 | 3.1 | 1.6 | 1.7 | 2.4 | 1.9 | 3.0 | 5.8 | .0 | 1.0 | 25.3 | |
| | 0-3 | 1.1 | 1.1 | .7 | .6 | .6 | .4 | .8 | .9 | .0 | 3.3 | 9.5 | |
| 10+ | 4-10 | 5.6 | 3.3 | 2.4 | 2.1 | 1.6 | 1.6 | 4.6 | 7.0 | .0 | | 28.3 | |
| | 11-21 | 5.9 | 1.5 | .9 | .7 | 1.2 | .8 | 3.1 | 8.1 | .0 | | 22.1 | |
| | 22+ | 1.3 | .3 | .1 | .3 | .1 | .2 | .4 | 1.6 | .0 | | 4.2 | |
| | TOT % | 13.8 | 6.2 | 4.2 | 3.6 | 3.6 | 3.0 | 8.9 | 17.5 | .0 | 3.3 | 64.0 | |
| | TOT OBS | | | | | | | | | | | | 4181 |
| | TOT PCT | 19.6 | 10.2 | 6.8 | 6.5 | 7.6 | 6.3 | 13.2 | 24.9 | .0 | 4.9 | 100.0 | |

JANUARY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1863-1974

AREA 0034 POINT HUGU NW
34.5N 121.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.7 | .6 | 1.6 | 2.2 | 12.3 | 5.3 | 1.8 | 1.2 | .6 | 2.0 | 30.1 | 69.9 | 511 |
| 06&09 | 1.1 | .0 | .7 | 4.6 | 8.1 | 6.1 | 2.0 | .0 | .4 | 2.0 | 24.9 | 75.1 | 458 |
| 12&15 | 2.5 | .2 | 1.8 | 5.2 | 9.5 | 7.4 | 1.1 | .9 | .9 | 1.6 | 31.1 | 68.9 | 444 |
| 18&21 | 1.5 | .3 | 2.0 | 6.0 | 8.9 | 5.1 | 1.7 | .5 | 1.9 | 1.7 | 29.7 | 70.3 | 586 |
| TOT | 39 | 6 | 31 | 90 | 194 | 118 | 33 | 13 | 20 | 36 | 580 | 1419 | 1999 |
| PCT | 2.0 | .3 | 1.6 | 4.5 | 9.7 | 5.9 | 1.7 | .7 | 1.0 | 1.8 | 29.0 | 71.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 1.2 | 1.5 | 5.3 | 25.0 | 65.7 | 1072 |
| 06&09 | 1.3 | .9 | 1.4 | 4.6 | 27.5 | 64.3 | 767 |
| 12&15 | 1.8 | 2.0 | 2.4 | 5.4 | 27.8 | 60.6 | 1010 |
| 18&21 | 1.4 | 1.0 | 3.2 | 7.0 | 22.1 | 65.2 | 1364 |
| TOT | 61 | 54 | 95 | 243 | 1061 | 2699 | 4213 |
| PCT | 1.4 | 1.3 | 2.3 | 5.8 | 25.2 | 64.1 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.0 | 5.4 | 10.3 | 22.6 | 67.1 | 496 |
| 06&09 | 1.1 | 2.2 | 9.8 | 17.5 | 72.7 | 451 |
| 12&15 | 2.5 | 4.8 | 12.0 | 20.2 | 67.8 | 441 |
| 18&21 | 1.6 | 4.9 | 15.1 | 17.2 | 67.7 | 576 |
| TOT | 40 | 86 | 235 | 379 | 1350 | 1964 |
| PCT | 2.0 | 4.4 | 12.0 | 19.3 | 68.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 79/79 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .1 |
| 70/74 | .4 | .2 | .1 | .0 | .0 | .0 | * | .0 | 19 | .7 |
| 65/69 | .4 | .2 | .3 | .4 | .2 | .3 | .1 | .1 | 52 | 2.0 |
| 60/64 | .3 | .4 | .5 | 1.2 | 2.3 | 2.7 | 2.5 | .8 | 279 | 10.7 |
| 55/59 | .1 | .4 | 1.0 | 1.4 | 5.2 | 11.8 | 16.5 | 8.0 | 1154 | 44.4 |
| 50/54 | .2 | .5 | 1.2 | 2.1 | 6.0 | 7.2 | 11.3 | 6.1 | 899 | 34.6 |
| 45/49 | .0 | .3 | .2 | .7 | 1.1 | 1.2 | 1.3 | .6 | 139 | 5.3 |
| 40/44 | .0 | * | .1 | .2 | .7 | .3 | .5 | .2 | 50 | 1.9 |
| 35/39 | .0 | .0 | .0 | .1 | * | .0 | .1 | .0 | 5 | .2 |
| 30/34 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * |
| TOTAL | 35 | 55 | 90 | 158 | 403 | 607 | 841 | 411 | 2600 | 100.0 |
| PCT | 1.3 | 2.1 | 3.5 | 6.1 | 15.5 | 23.3 | 32.3 | 15.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .3 | .3 | * | * | * | * | * | .0 | * |
| .2 | .6 | .3 | .0 | .0 | .1 | .3 | .4 | .0 | * |
| 1.2 | 1.0 | .9 | 1.0 | 1.4 | 1.0 | 1.8 | 1.9 | .0 | .5 |
| 7.3 | 3.0 | 2.5 | 3.9 | 4.5 | 3.1 | 6.6 | 11.6 | .0 | 1.9 |
| 8.4 | 3.3 | 2.1 | 1.6 | 1.9 | 1.8 | 4.9 | 9.3 | .0 | 1.3 |
| 1.3 | 1.7 | .7 | .2 | * | * | .3 | .9 | .0 | .2 |
| .5 | 1.1 | .3 | * | .0 | .0 | * | * | .0 | * |
| * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 |
| * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 19.0 | 11.0 | 7.3 | 6.7 | 7.9 | 6.0 | 14.0 | 24.0 | .0 | 4.0 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 79 | 67 | 63 | 56 | 50 | 48 | 45 | 56.3 | 1107 |
| 06&09 | 72 | 65 | 61 | 54 | 47 | 43 | 40 | 54.2 | 790 |
| 12&15 | 70 | 63 | 59 | 54 | 43 | 40 | 34 | 53.3 | 1063 |
| 18&21 | 82 | 71 | 64 | 56 | 48 | 45 | 41 | 56.2 | 1418 |
| TOT | 82 | 68 | 62 | 55 | 48 | 42 | 34 | 55.1 | 4378 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .7 | 9.8 | 13.8 | 28.1 | 33.2 | 14.4 | 77 | 752 |
| 06&09 | .5 | 7.3 | 11.6 | 23.2 | 38.7 | 18.7 | 80 | 439 |
| 12&15 | 1.0 | 8.4 | 16.9 | 17.8 | 34.8 | 21.1 | 78 | 574 |
| 18&21 | 2.6 | 17.6 | 18.2 | 22.8 | 26.6 | 12.2 | 72 | 852 |
| TOT | 35 | 304 | 407 | 609 | 847 | 415 | 76 | 2617 |

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1963-1974

AREA 0034 POINT HUGU NW
34.5N 121.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | 3 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .1 | .0 | .0 | 7 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .3 | .0 | .0 | .0 | 17 | .1 | .6 |
| 7/8 | .0 | .0 | .0 | .0 | .1 | .2 | .7 | .3 | .0 | .0 | .0 | 35 | .1 | 1.2 |
| 6 | .0 | .0 | .0 | .0 | .1 | .3 | .6 | .1 | * | .0 | .0 | 29 | * | 1.0 |
| 5 | .0 | .0 | .0 | .1 | .3 | .6 | 1.0 | .1 | .0 | .0 | .0 | 54 | * | 2.0 |
| 4 | .0 | .0 | .0 | .3 | .6 | 2.3 | 1.5 | .1 | .0 | .0 | .0 | 129 | .4 | 4.4 |
| 3 | .0 | .0 | .0 | * | .3 | 2.1 | .7 | .0 | .0 | .0 | .0 | 84 | .1 | 3.0 |
| 2 | .0 | .0 | .0 | .1 | 2.9 | 4.5 | 1.0 | .0 | .0 | .0 | .0 | 232 | 1.1 | 7.4 |
| 1 | .0 | .0 | .0 | .3 | 3.3 | 4.5 | .3 | .0 | .0 | .0 | .0 | 224 | .6 | 7.7 |
| 0 | .0 | .0 | .1 | 1.2 | 10.1 | 5.3 | .4 | .0 | .0 | .0 | .0 | 462 | .9 | 16.2 |
| -1 | .0 | .0 | .0 | .7 | 6.9 | 2.2 | .1 | .0 | .0 | .0 | .0 | 270 | .8 | 9.2 |
| -2 | .0 | .0 | .3 | 2.8 | 8.8 | 2.8 | .1 | .0 | * | .0 | .0 | 403 | .9 | 14.0 |
| -3 | .0 | .0 | .0 | 2.7 | 4.8 | .7 | .1 | .0 | .0 | .0 | .0 | 225 | .3 | 8.1 |
| -4 | .0 | * | .6 | 3.7 | 3.3 | .6 | * | .0 | .0 | .0 | .0 | 225 | .3 | 8.1 |
| -5 | .0 | * | .4 | 2.0 | 1.7 | .1 | * | .0 | .0 | .0 | .0 | 117 | .2 | 4.1 |
| -6 | .0 | .0 | .3 | 1.3 | 1.1 | .1 | .0 | .0 | .0 | .0 | .0 | 75 | .1 | 2.7 |
| -7/-8 | .0 | * | .3 | 1.4 | .6 | * | * | .0 | .0 | .0 | .0 | 64 | .1 | 2.3 |
| -9/-10 | .0 | .1 | .4 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 35 | .1 | 1.2 |
| -11/-13 | .0 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 11 | .1 | .3 |
| -14/-16 | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | .1 |
| TOTAL | 1 | 8 | 71 | 465 | 1223 | 718 | 185 | 26 | 6 | 1 | 1 | 2705 | 165 | 2540 |
| PCT | * | .3 | 2.6 | 17.2 | 45.2 | 26.5 | 6.8 | 1.0 | .2 | * | * | 100.0 | 6.1 | 93.9 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.2 | .0 | .0 | .0 | .0 | 1.6 |
| 1-2 | .0 | 3.4 | 3.2 | .0 | .0 | .0 | 6.7 |
| 3-4 | .0 | 2.3 | 5.5 | .3 | .0 | .0 | 8.0 |
| 5-6 | .1 | .4 | 3.0 | .6 | .0 | .0 | 4.1 |
| 7 | .0 | .3 | .9 | .3 | .0 | .0 | 1.5 |
| 8-9 | .0 | .0 | .3 | .3 | .0 | .0 | .5 |
| 10-11 | .0 | .0 | .3 | .3 | .0 | .0 | .5 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .1 | .7 | .0 | .0 | .8 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 7.5 | 13.5 | 2.5 | .0 | .0 | 24.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .3 | .3 | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | 1.5 | .4 | .0 | .0 | .0 | 2.1 |
| 3-4 | .1 | .4 | .9 | .2 | .0 | .0 | 1.6 |
| 5-6 | .0 | .0 | .5 | * | .0 | .0 | .5 |
| 7 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 2.4 | 2.3 | .3 | .0 | .0 | 5.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .4 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 1.1 | .5 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.7 | .6 | .0 | .0 | .0 | 2.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .7 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .2 | 1.1 | .5 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .3 | 1.1 | .0 | .0 | .0 | 1.4 |
| 5-6 | .0 | .0 | .2 | .3 | .0 | .0 | .5 |
| 7 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | * | .0 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | * | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .3 | .0 | .3 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.1 | 2.2 | .5 | .3 | .0 | 5.7 |

PERIOD: (OVER-ALL) 1963-1974 JANUARY AREA 0034 POINT MUGU NM

TABLE 18 (CONT) 34.5N 121.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | .8 | .0 | .0 | .0 | .0 | 1.2 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .4 | 1.5 | .5 | .0 | .0 | .0 | 2.4 | .0 | 1.6 | .8 | .0 | .0 | .0 | 2.4 |
| 3-4 | .0 | .6 | 1.5 | .3 | .0 | .0 | 2.4 | .0 | .8 | 1.4 | .1 | .0 | .0 | 2.4 |
| 5-6 | .0 | .1 | .3 | .3 | .0 | .0 | .7 | .0 | .0 | .3 | * | .0 | .0 | .4 |
| 7 | .0 | .1 | .1 | .0 | .0 | .0 | .3 | .0 | * | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | .3 | .1 | .5 | .0 | .0 | .9 | .0 | .0 | .1 | .3 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 3.4 | 2.6 | 1.2 | .0 | .0 | 8.1 | .0 | 2.9 | 2.8 | .5 | .0 | .0 | 6.2 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 2.7 | .1 | .0 | .0 | .0 | 3.1 | 1.1 | 1.3 | * | .0 | .0 | .0 | 2.4 | |
| 1-2 | .3 | 2.6 | 1.9 | .0 | .0 | .0 | 4.7 | .5 | 5.3 | 4.4 | .0 | .0 | .0 | 10.2 | |
| 3-4 | .0 | 1.6 | 1.6 | .0 | .0 | .0 | 3.2 | .0 | 2.0 | 6.0 | .4 | .0 | .0 | 8.4 | |
| 5-6 | .1 | .3 | 1.0 | .1 | .0 | .0 | 1.5 | * | .5 | 3.1 | .7 | .0 | .0 | 4.3 | |
| 7 | .0 | .1 | .4 | .2 | .0 | .0 | .7 | .0 | * | 1.0 | .4 | .0 | .0 | 1.5 | |
| 8-9 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | .0 | .0 | .4 | .6 | .0 | .0 | 1.0 | |
| 10-11 | .0 | .1 | .0 | .1 | .0 | .0 | .2 | .0 | .0 | .1 | .4 | .0 | .0 | .5 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .5 | .0 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .7 | 7.5 | 5.3 | .4 | .0 | .0 | 13.8 | 1.6 | 9.1 | 15.1 | 3.2 | .0 | .0 | 29.1 | 95.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 8.4 | 7.8 | .4 | .0 | .0 | .0 | 16.7 | |
| 1-2 | 1.6 | 18.0 | 12.4 | .0 | .0 | .0 | 32.0 | |
| 3-4 | .1 | 8.1 | 18.0 | 1.3 | .0 | .0 | 27.6 | |
| 5-6 | .3 | 1.3 | 8.3 | 2.0 | .0 | .0 | 11.9 | |
| 7 | .0 | .7 | 2.9 | 1.2 | .0 | .0 | 4.8 | |
| 8-9 | .0 | .3 | 1.3 | 1.7 | .0 | .0 | 3.3 | |
| 10-11 | .0 | .1 | .6 | .9 | .0 | .0 | 1.6 | |
| 12 | .0 | .0 | .1 | .6 | .3 | .0 | 1.0 | |
| 13-16 | .0 | .0 | .1 | .9 | .0 | .0 | 1.0 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 688 |
| TOT PCT | 10.5 | 36.5 | 44.2 | 8.6 | .3 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.6 | 10.8 | 13.4 | 6.7 | 1.7 | 1.0 | .4 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 469 | 3 |
| 6-7 | .0 | 2.0 | 5.5 | 7.5 | 4.4 | 1.8 | .9 | .7 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 295 | 5 |
| 8-9 | .1 | 1.7 | 2.5 | 3.8 | 2.8 | 3.0 | 1.3 | .7 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 209 | 6 |
| 10-11 | .0 | .6 | 1.0 | 1.2 | 1.7 | 1.4 | .8 | .6 | .7 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 102 | 7 |
| 12-13 | .0 | .0 | 1.2 | 1.1 | 1.0 | .2 | .6 | .2 | .6 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 66 | 8 |
| >13 | .0 | .0 | .0 | .4 | .2 | .2 | .4 | .0 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 19 | 9 |
| INDET | 3.1 | 1.7 | 1.0 | 1.0 | .5 | .3 | .1 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 | 3 |
| TOTAL | 73 | 211 | 310 | 274 | 155 | 100 | 56 | 33 | 39 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1260 | 5 |
| PCT | 5.8 | 16.7 | 24.6 | 21.7 | 12.3 | 7.9 | 4.4 | 2.6 | 3.1 | .3 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT HUGU NW
34.5N 121.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .9 | .2 | 1.1 | .0 | .0 | .0 | .0 | 2.1 | .2 | .0 | 5.9 | .5 | 5.0 | | .0 | 86.2 |
| NE | 2.4 | .3 | 1.1 | .0 | .0 | .0 | .0 | 3.9 | .4 | .0 | 8.0 | .0 | 9.2 | | .0 | 78.5 |
| E | 8.5 | .2 | 4.9 | .0 | .0 | .0 | .0 | 11.0 | .4 | .0 | 7.6 | .0 | 8.1 | | .4 | 72.5 |
| SE | 10.5 | 1.0 | 6.1 | .0 | .0 | .0 | .0 | 15.9 | 2.1 | .0 | 10.5 | .0 | 6.9 | | .0 | 64.5 |
| S | 7.9 | 1.6 | 5.5 | .0 | .0 | .0 | .0 | 13.9 | 1.5 | .0 | 10.4 | .0 | 10.2 | | .0 | 63.9 |
| SW | 3.5 | .4 | 2.9 | .0 | .0 | .0 | .0 | 6.7 | 1.4 | .0 | 11.8 | .4 | 9.6 | | .0 | 70.1 |
| W | 1.1 | 1.0 | 1.9 | .0 | .0 | .0 | .0 | 4.0 | .6 | .0 | 7.0 | .2 | 3.8 | | .0 | 84.3 |
| NW | .6 | .6 | .9 | .0 | .0 | .0 | .0 | 2.0 | .8 | .0 | 5.2 | .2 | 3.7 | | .1 | 87.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 3.7 | .0 | .9 | .0 | .0 | .0 | .0 | 4.2 | .5 | .0 | 24.2 | .5 | 16.7 | | .0 | 54.0 |
| TOT PCT | 2.9 | .6 | 2.2 | .0 | .0 | .0 | .0 | 5.3 | .8 | .0 | 8.2 | .2 | 6.5 | | .1 | 78.9 |
| TOT OBS: | 3843 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 2.3 | 1.0 | 2.9 | .0 | .0 | .0 | .0 | 5.6 | .7 | .0 | 6.6 | .3 | 6.2 | | .2 | 80.3 |
| 06&09 | 3.1 | .3 | 1.7 | .0 | .0 | .0 | .0 | 4.8 | .6 | .0 | 7.3 | .3 | 2.9 | | .0 | 84.1 |
| 12&15 | 3.9 | .6 | 2.9 | .0 | .0 | .0 | .0 | 7.0 | 1.0 | .0 | 8.9 | .2 | 4.0 | | .0 | 79.0 |
| 18&21 | 2.6 | .5 | 1.3 | .0 | .0 | .0 | .0 | 3.9 | .8 | .0 | 9.2 | .2 | 11.2 | | .0 | 74.7 |
| TOT PCT | 2.9 | .6 | 2.1 | .0 | .0 | .0 | .0 | 5.2 | .8 | .0 | 8.1 | .2 | 6.6 | | .1 | 79.0 |
| TOT OBS: | 3888 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.2 | 6.6 | 6.6 | 2.4 | .3 | .0 | | 18.0 | 12.4 | 15.1 | 15.9 | 20.5 | 18.9 | 23.6 | 18.2 | 19.8 | 12.5 |
| NE | 2.0 | 4.1 | 1.4 | .1 | * | .0 | | 7.7 | 7.1 | 1.6 | 3.3 | 8.0 | 9.3 | 10.9 | 14.3 | 11.6 | 3.6 |
| E | .9 | 3.6 | 1.3 | .3 | * | .0 | | 6.1 | 8.5 | 3.1 | 4.9 | 4.5 | 6.4 | 4.6 | 9.9 | 9.0 | 6.8 |
| SE | .8 | 3.8 | 1.9 | .5 | .1 | .0 | | 7.0 | 10.3 | 5.0 | 5.3 | 5.8 | 9.8 | 5.7 | 7.6 | 6.6 | 11.0 |
| S | 1.0 | 3.3 | 2.5 | .6 | .1 | .0 | | 7.4 | 11.2 | 7.4 | 7.9 | 9.0 | 4.0 | 6.6 | 5.5 | 7.1 | 10.3 |
| SW | .9 | 3.9 | 1.8 | .2 | .0 | .0 | | 6.7 | 9.1 | 7.1 | 5.3 | 4.5 | 6.4 | 3.5 | 6.2 | 7.2 | 12.0 |
| W | 1.3 | 6.0 | 4.0 | .8 | * | .0 | | 12.1 | 10.4 | 20.6 | 14.5 | 11.4 | 10.8 | 10.4 | 8.2 | 7.4 | 12.2 |
| NW | 1.7 | 10.3 | 12.4 | 4.3 | .4 | .0 | | 29.0 | 13.6 | 35.0 | 27.3 | 31.6 | 27.8 | 27.6 | 24.3 | 22.4 | 28.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.9 | | | | | | | 5.9 | .0 | 5.1 | 5.3 | 4.7 | 6.6 | 7.2 | 5.9 | 8.9 | 3.1 |
| TOT OBS | 703 | 1761 | 1345 | 387 | 39 | 0 | 4235 | | 10.7 | 708 | 318 | 529 | 303 | 582 | 401 | 699 | 635 |
| TOT PCT | 16.6 | 41.6 | 31.8 | 9.1 | .9 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.5 | 7.4 | 4.2 | .9 | * | | 18.0 | 12.4 | 15.4 | 19.9 | 21.2 | 16.3 |
| NE | 4.6 | 2.5 | .6 | .1 | .0 | | 7.7 | 7.1 | 2.2 | 8.5 | 12.4 | 7.8 |
| E | 3.0 | 2.4 | .6 | .1 | .0 | | 6.1 | 8.5 | 3.7 | 5.2 | 6.9 | 7.9 |
| SE | 2.5 | 3.4 | .9 | .2 | * | | 7.0 | 10.3 | 5.1 | 7.2 | 6.5 | 8.7 |
| S | 2.5 | 3.2 | 1.5 | .2 | * | | 7.4 | 11.2 | 7.3 | 7.2 | 6.1 | 8.6 |
| SW | 2.6 | 3.4 | .7 | * | .0 | | 6.7 | 9.1 | 6.5 | 5.2 | 4.7 | 9.5 |
| W | 4.3 | 5.7 | 1.9 | .2 | * | | 12.1 | 10.4 | 18.7 | 11.2 | 9.4 | 9.7 |
| NW | 5.6 | 14.1 | 7.6 | 1.6 | * | | 29.0 | 13.6 | 35.7 | 30.2 | 26.1 | 25.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.9 | | | | | | 5.9 | .0 | 5.2 | 5.4 | 6.6 | 6.1 |
| TOT OBS | 1546 | 1782 | 761 | 140 | 6 | 4235 | | 10.7 | 1026 | 832 | 1043 | 1334 |
| TOT PCT | 36.5 | 42.1 | 18.0 | 3.3 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT HUGU NW
34.5N 121.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 5.2 | 10.4 | 38.3 | 34.1 | 10.7 | 1.3 | .0 | 11.5 | 100.0 | 1026 |
| 06&09 | 5.4 | 10.2 | 40.5 | 32.9 | 10.5 | .5 | .0 | 11.0 | 100.0 | 832 |
| 12&15 | 6.6 | 11.5 | 43.0 | 28.9 | 9.0 | 1.1 | .0 | 10.3 | 100.0 | 1043 |
| 18&21 | 6.1 | 10.6 | 43.7 | 31.5 | 7.2 | .8 | .0 | 10.2 | 100.0 | 1334 |
| TOT | 249 | 454 | 1761 | 1345 | 387 | 39 | 0 | 10.7 | | 4235 |
| PCT | 5.9 | 10.7 | 41.6 | 31.8 | 9.1 | .9 | .C | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.7 | 2.3 | 4.3 | 3.4 | | 3.3 |
| NE | 7.0 | .4 | .8 | 1.6 | | 2.0 |
| E | 3.2 | .5 | .8 | 1.3 | | 3.0 |
| SE | .9 | .3 | 1.4 | 2.4 | | 5.9 |
| S | 1.6 | .3 | 1.7 | 3.5 | | 5.7 |
| SW | 1.3 | .5 | 2.0 | 1.3 | | 4.9 |
| W | 5.4 | 1.5 | 2.7 | 2.4 | | 3.7 |
| NW | 14.2 | 3.5 | 6.7 | 4.6 | | 3.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.8 | .5 | 1.0 | 2.2 | | 4.0 |
| TOT OBS | 1106 | 234 | 511 | 546 | 2397 | 3.6 |
| TOT PCT | 46.1 | 9.8 | 21.3 | 22.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | .0 | .4 | .7 | 2.2 | 1.4 | .2 | .0 | .2 | .2 | 13.9 | |
| NE | .1 | .0 | .0 | .2 | .6 | .4 | .2 | .0 | .0 | .2 | 7.9 | |
| E | .1 | * | .1 | .2 | .6 | .4 | .2 | .1 | * | * | 4.0 | |
| SE | .2 | * | .2 | .7 | 1.0 | .6 | .1 | * | * | .1 | 1.9 | |
| S | .6 | * | .3 | 1.1 | 1.2 | .6 | .1 | .2 | .1 | .1 | 2.8 | |
| SW | .3 | * | * | .3 | 1.0 | .6 | .1 | * | * | * | 2.7 | |
| W | .4 | .0 | .2 | .4 | 1.2 | .9 | .2 | * | * | .3 | 8.3 | |
| NW | .9 | .1 | .3 | 1.0 | 3.4 | 1.7 | .4 | .1 | .2 | .1 | 20.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .8 | .0 | .0 | .1 | .8 | .1 | .3 | .0 | * | .2 | 4.3 | |
| TOT OBS | 96 | 6 | 38 | 111 | 287 | 162 | 44 | 11 | 14 | 28 | 1600 | 2397 |
| TOT PCT | 4.0 | .3 | 1.6 | 4.6 | 12.0 | 6.8 | 1.8 | .5 | .6 | 1.2 | 66.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.2 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >9000 | 1.5 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| * OR >3500 | 2.5 | 3.9 | 4.0 | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 |
| * OR >2000 | 6.7 | 10.0 | 10.7 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| * OR >1000 | 13.4 | 19.8 | 21.8 | 22.6 | 22.7 | 22.8 | 22.8 | 22.8 |
| * OR >600 | 16.0 | 23.7 | 26.0 | 27.0 | 27.3 | 27.4 | 27.4 | 27.4 |
| * OR >300 | 16.4 | 24.9 | 27.5 | 28.6 | 28.9 | 29.0 | 29.0 | 29.0 |
| * OR >150 | 16.5 | 25.0 | 27.6 | 28.7 | 29.1 | 29.2 | 29.3 | 29.3 |
| * OR > 0 | 16.5 | 25.1 | 28.2 | 29.6 | 30.6 | 31.3 | 32.7 | 33.2 |
| TOTAL | 398 | 606 | 679 | 715 | 738 | 756 | 788 | 800 |

TOTAL NUMBER OF OBS: 2412

PCT FREQ NH <5/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 41.9 | 7.2 | 8.5 | 5.8 | 3.2 | 4.1 | 6.4 | 5.0 | 14.4 | 3.5 | 2515 |

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

TABLE 8

AREA 0034 POINT MUGU NW
34.8N 121.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | * | * | * | * | * | * | .0 | .0 | .2 | |
| | NO PCP | .3 | * | .1 | .2 | .2 | .2 | .2 | .6 | .0 | .5 | 2.2 | |
| | TOT % | .3 | * | .1 | .2 | .3 | .2 | .2 | .6 | .0 | .5 | 2.4 | |
| 1/2<1 | PCP | .0 | .0 | .1 | .2 | .1 | * | .0 | .1 | .0 | * | .4 | |
| | NO PCP | .2 | * | * | .2 | .1 | .1 | .1 | .2 | .0 | .1 | 1.1 | |
| | TOT % | .2 | * | .1 | .4 | .2 | .1 | .1 | .3 | .0 | .1 | 1.6 | |
| 1<2 | PCP | * | * | .1 | .2 | .1 | .1 | * | * | .0 | * | .6 | |
| | NO PCP | .1 | .4 | .1 | .2 | .1 | .1 | .3 | .2 | .0 | .2 | 1.6 | |
| | TOT % | .2 | .4 | .1 | .4 | .2 | .2 | .3 | .2 | .0 | .2 | 2.2 | |
| 2<5 | PCP | .1 | .1 | .3 | .2 | .5 | .1 | .1 | .1 | .0 | * | 1.4 | |
| | NO PCP | 1.0 | .6 | .5 | .5 | .7 | .6 | .5 | 1.0 | .0 | .9 | 6.2 | |
| | TOT % | 1.1 | .7 | .8 | .7 | 1.1 | .7 | .6 | 1.0 | .0 | .9 | 7.5 | |
| 5<10 | PCP | .2 | .2 | .2 | .4 | .3 | .2 | .2 | .2 | .0 | .1 | 2.1 | |
| | NO PCP | 3.8 | 2.5 | 1.6 | 1.7 | 1.7 | 1.8 | 2.7 | 5.8 | .0 | 1.4 | 23.1 | |
| | TOT % | 4.0 | 2.7 | 1.8 | 2.0 | 2.1 | 2.0 | 2.9 | 6.1 | .0 | 1.5 | 25.2 | |
| 10+ | PCP | .1 | * | .0 | .1 | .1 | * | .1 | .2 | .0 | .1 | .7 | |
| | NO PCP | 12.5 | 4.3 | 3.1 | 3.2 | 3.7 | 3.5 | 7.8 | 20.2 | .0 | 2.2 | 60.4 | |
| | TOT % | 12.6 | 4.3 | 3.1 | 3.3 | 3.8 | 3.5 | 7.9 | 20.4 | .0 | 2.3 | 61.1 | |
| | TOT OBS | | | | | | | | | | | | 3833 |
| | TOT PCT | 18.3 | 8.1 | 6.0 | 7.0 | 7.6 | 6.7 | 12.0 | 28.5 | .0 | 5.6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | .0 | .0 | * | .1 | * | .1 | .0 | .5 | .7 | |
| | 4-10 | .1 | * | .1 | .1 | .2 | .1 | .1 | .3 | .0 | | 1.1 | |
| | 11-21 | .1 | .0 | * | .1 | .1 | .1 | .1 | .2 | .0 | | .7 | |
| | 22+ | .0 | .0 | .0 | * | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .3 | * | .1 | .2 | .2 | .3 | .3 | .6 | .0 | .5 | 2.5 | |
| 1/2<1 | 0-3 | * | * | .0 | .1 | * | * | * | * | .0 | .1 | .3 | |
| | 4-10 | .1 | * | * | .2 | .1 | .1 | .1 | .1 | .0 | | .7 | |
| | 11-21 | .1 | .0 | .1 | .1 | * | * | * | .1 | .0 | | .5 | |
| | 22+ | * | .0 | * | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .2 | * | .1 | .4 | .2 | .1 | .1 | .3 | .0 | .1 | 1.6 | |
| 1<2 | 0-3 | * | .2 | * | .0 | * | * | * | .1 | .0 | .2 | .6 | |
| | 4-10 | .1 | .1 | * | .3 | .2 | .2 | .2 | .1 | .0 | | 1.1 | |
| | 11-21 | * | .0 | * | .1 | * | * | .1 | * | .0 | | .4 | |
| | 22+ | * | .0 | .0 | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .2 | .4 | .1 | .4 | .3 | .2 | .3 | .2 | .0 | .2 | 2.2 | |
| 2<5 | 0-3 | .1 | .1 | .1 | .1 | .1 | * | .1 | .1 | .0 | .9 | 1.7 | |
| | 4-10 | .6 | .5 | .6 | .5 | .5 | .4 | .4 | .5 | .0 | | 4.0 | |
| | 11-21 | .2 | .0 | .1 | .1 | .3 | .2 | .1 | .4 | .0 | | 1.3 | |
| | 22+ | * | .0 | .1 | .1 | .2 | * | .0 | .1 | .0 | | .6 | |
| | TOT % | 1.0 | .7 | .8 | .8 | 1.2 | .7 | .5 | 1.1 | .0 | .9 | 7.7 | |
| 5<10 | 0-3 | .8 | .9 | .3 | .2 | .2 | .2 | .3 | .3 | .0 | 1.6 | 4.8 | |
| | 4-10 | 1.2 | 1.4 | 1.2 | .9 | .8 | 1.1 | 1.3 | 2.5 | .0 | | 10.3 | |
| | 11-21 | 1.3 | .2 | .2 | .6 | .7 | .5 | 1.0 | 2.2 | .0 | | 6.8 | |
| | 22+ | .6 | * | .1 | .3 | .2 | .1 | .2 | .7 | .0 | | 2.3 | |
| | TOT % | 3.9 | 2.5 | 1.8 | 1.9 | 2.0 | 2.0 | 2.9 | 5.8 | .0 | 1.6 | 24.2 | |
| 10+ | 0-3 | 1.2 | .8 | .5 | .4 | .5 | .5 | .8 | 1.1 | .0 | 2.5 | 8.4 | |
| | 4-10 | 4.5 | 2.2 | 1.7 | 1.9 | 1.6 | 2.0 | 4.0 | 6.6 | .0 | | 24.5 | |
| | 11-21 | 4.8 | 1.2 | .9 | 1.0 | 1.3 | .9 | 2.7 | 9.2 | .0 | | 22.0 | |
| | 22+ | 2.0 | .1 | .1 | .1 | .2 | .1 | .6 | 3.7 | .0 | | 6.8 | |
| | TOT % | 12.6 | 4.3 | 3.3 | 3.4 | 3.6 | 3.5 | 8.1 | 20.6 | .0 | 2.5 | 61.8 | |
| | TOT OBS | | | | | | | | | | | | 4102 |
| | TOT PCT | 18.1 | 7.9 | 6.2 | 7.1 | 7.5 | 6.7 | 12.2 | 28.5 | .0 | 5.8 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT HUGU NW
34.3N 121.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.4 | .2 | 1.8 | 4.3 | 10.1 | 7.7 | 2.3 | .6 | 1.0 | 1.1 | 32.5 | 67.5 | 621 |
| 06&09 | 4.5 | .3 | 2.1 | 3.1 | 10.5 | 6.9 | 1.2 | .7 | .3 | .9 | 30.5 | 69.5 | 580 |
| 12&15 | 4.9 | .2 | 1.0 | 5.7 | 15.8 | 6.2 | 2.4 | .2 | .3 | .9 | 37.6 | 62.4 | 577 |
| 18&21 | 3.0 | .3 | 1.6 | 4.7 | 10.8 | 5.5 | 1.4 | .3 | .6 | 1.7 | 29.8 | 70.2 | 704 |
| TOT | 96 | 6 | 40 | 111 | 291 | 163 | 45 | 11 | 14 | 29 | 806 | 1676 | 2482 |
| PCT | 3.9 | .2 | 1.6 | 4.5 | 11.7 | 6.6 | 1.8 | .4 | .6 | 1.2 | 32.5 | 67.5 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.2 | 1.9 | 2.3 | 5.6 | 24.1 | 63.9 | 1015 |
| 06&09 | 3.2 | .9 | 1.5 | 4.5 | 28.7 | 61.3 | 821 |
| 12&15 | 3.2 | 2.0 | 2.7 | 6.2 | 23.9 | 62.0 | 1016 |
| 18&21 | 1.9 | 1.5 | 2.3 | 12.4 | 21.1 | 60.8 | 1297 |
| TOT | 105 | 66 | 92 | 318 | 998 | 2570 | 4149 |
| PCT | 2.5 | 1.6 | 2.2 | 7.7 | 24.1 | 61.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.4 | 5.9 | 16.2 | 19.9 | 63.9 | 613 |
| 06&09 | 4.4 | 7.3 | 15.5 | 18.2 | 66.3 | 573 |
| 12&15 | 4.8 | 7.1 | 16.6 | 23.7 | 59.7 | 566 |
| 18&21 | 3.3 | 5.9 | 19.7 | 17.7 | 62.6 | 660 |
| TOT | 95 | 157 | 412 | 477 | 1523 | 2412 |
| PCT | 3.9 | 6.5 | 17.1 | 19.8 | 63.1 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | * | .0 | .0 | * | .0 | .0 | .0 | .0 | 2 | .1 |
| 70/74 | .2 | .1 | * | .1 | .1 | .0 | * | .0 | 13 | .5 |
| 65/69 | .2 | .3 | .2 | .3 | .2 | .3 | .0 | .0 | 39 | 1.5 |
| 60/64 | .3 | .4 | .9 | 1.4 | 2.8 | 2.8 | 1.6 | .7 | 280 | 10.8 |
| 55/59 | .3 | .3 | .9 | 2.2 | 4.7 | 12.3 | 15.4 | 8.3 | 1149 | 44.5 |
| 50/54 | .1 | .4 | .7 | 1.7 | 5.9 | 7.2 | 12.1 | 7.5 | 922 | 35.7 |
| 45/49 | .0 | .2 | .3 | .8 | 1.2 | 1.2 | 1.4 | .8 | 152 | 5.9 |
| 40/44 | .0 | .0 | .1 | .2 | .2 | .3 | .1 | .1 | 24 | .9 |
| 35/39 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | 2 | .1 |
| TOTAL | 28 | 45 | 79 | 172 | 391 | 624 | 796 | 450 | 2583 | 100.0 |
| PCT | 1.1 | 1.7 | 3.1 | 6.7 | 15.1 | 24.2 | 30.7 | 17.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| .1 | .1 | .1 | * | * | * | .1 | .1 | .0 | .0 |
| .2 | .2 | .2 | .1 | * | .1 | .2 | .3 | .0 | .1 |
| .9 | .7 | .7 | .8 | 1.5 | 1.6 | 1.5 | 2.3 | .0 | .8 |
| 7.0 | 2.2 | 2.3 | 3.4 | 4.9 | 3.0 | 5.7 | 13.5 | .0 | 2.5 |
| 8.0 | 2.7 | 1.7 | 1.4 | 2.0 | 1.8 | 3.6 | 12.7 | .0 | 1.8 |
| 1.9 | 1.2 | .2 | * | * | .1 | .2 | 1.7 | .0 | .5 |
| .3 | .4 | .1 | .0 | .0 | * | .0 | * | .0 | .0 |
| .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 18.4 | 7.6 | 5.3 | 5.8 | 8.5 | 6.8 | 11.3 | 30.7 | .0 | 5.7 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 76 | 69 | 64 | 56 | 51 | 48 | 43 | 56.6 | 1030 |
| 06&09 | 68 | 62 | 59 | 54 | 48 | 44 | 42 | 54.1 | 833 |
| 12&15 | 73 | 61 | 59 | 54 | 45 | 41 | 38 | 53.1 | 1047 |
| 18&21 | 78 | 69 | 64 | 56 | 51 | 48 | 43 | 56.8 | 1340 |
| TOT | 78 | 67 | 62 | 55 | 48 | 44 | 38 | 55.3 | 4250 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .4 | 9.1 | 17.3 | 26.4 | 31.6 | 15.1 | 77 | 670 |
| 06&09 | .2 | 5.8 | 12.2 | 21.5 | 36.7 | 23.7 | 81 | 502 |
| 12&15 | .8 | 8.6 | 12.6 | 19.6 | 35.2 | 23.1 | 79 | 627 |
| 18&21 | 2.3 | 19.6 | 16.9 | 27.6 | 22.4 | 11.2 | 71 | 816 |
| TOT | 28 | 304 | 394 | 633 | 800 | 456 | 76 | 2615 |

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT MUGU NW
34.5N 121.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .1 | 6 | * | .2 |
| 11/13 | .0 | .0 | .0 | .1 | .0 | .1 | .2 | .1 | .0 | 13 | .0 | .5 |
| 9/10 | .0 | .0 | .0 | .0 | * | .4 | .3 | * | .0 | 21 | .1 | .7 |
| 7/8 | .0 | .0 | * | * | .5 | 1.1 | .3 | .0 | .0 | 55 | .0 | 2.1 |
| 6 | .0 | .0 | .0 | .2 | .5 | .8 | .1 | .0 | .0 | 45 | .2 | 1.5 |
| 5 | .0 | .0 | * | .4 | 1.5 | 1.2 | .1 | .0 | .0 | 88 | .3 | 3.0 |
| 4 | .0 | .0 | .1 | 1.5 | 2.8 | 1.0 | .0 | .0 | .0 | 144 | .4 | 5.0 |
| 3 | .0 | .0 | * | .9 | 2.3 | .4 | .0 | .0 | .0 | 97 | .3 | 3.3 |
| 2 | .0 | .0 | .4 | 3.3 | 5.0 | .3 | .0 | .0 | .0 | 242 | .8 | 8.4 |
| 1 | .0 | .0 | .1 | 4.2 | 3.6 | .1 | .0 | .0 | .0 | 215 | .9 | 7.1 |
| 0 | .0 | .1 | 1.8 | 10.6 | 4.7 | .1 | .0 | .0 | .0 | 464 | 1.4 | 15.9 |
| -1 | .0 | .0 | 1.3 | 7.1 | 2.3 | .0 | .0 | .0 | .0 | 286 | .9 | 9.8 |
| -2 | .0 | .1 | 4.9 | 7.6 | 1.3 | .1 | .0 | .0 | .0 | 373 | 1.1 | 12.8 |
| -3 | .0 | .1 | 3.2 | 3.5 | .6 | .0 | .0 | .0 | .0 | 199 | .6 | 6.9 |
| -4 | * | .3 | 3.5 | 2.7 | .1 | .0 | .0 | .0 | .0 | 178 | .3 | 6.3 |
| -5 | .0 | .4 | 1.8 | 1.7 | .2 | .0 | .0 | .0 | .0 | 110 | .4 | 3.7 |
| -6 | .0 | .4 | 1.3 | .4 | .1 | .0 | .0 | .0 | .0 | 59 | .1 | 2.1 |
| -7/-8 | .0 | .4 | 1.2 | .4 | .1 | .0 | .0 | .0 | .0 | 54 | .1 | 1.9 |
| -9/-10 | .1 | .3 | .3 | * | * | .0 | .0 | .0 | .0 | 20 | .1 | .7 |
| -11/-13 | .0 | .1 | .1 | .0 | * | .0 | .0 | .0 | .0 | 8 | .0 | .3 |
| -14/-16 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 3 | 63 | 532 | 1196 | 690 | 157 | 29 | 7 | 2 | 2679 | 211 | 2468 |
| PCT | .1 | 2.4 | 19.9 | 44.6 | 25.8 | 5.9 | 1.1 | .3 | .1 | 100.0 | 7.9 | 92.1 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.2 | .3 | .0 | .0 | .0 | 1.8 |
| 1-2 | .3 | 3.0 | 1.9 | .0 | .0 | .0 | 5.2 |
| 3-4 | .1 | 2.3 | 2.8 | .5 | .0 | .0 | 5.7 |
| 5-6 | .0 | .8 | 2.4 | .5 | .1 | .0 | 3.8 |
| 7 | .0 | .1 | 1.9 | .6 | .0 | .0 | 2.6 |
| 8-9 | .0 | .0 | .0 | .3 | .1 | .0 | .5 |
| 10-11 | .0 | .0 | .3 | .5 | .1 | .0 | .9 |
| 12 | .0 | .0 | .1 | .1 | .1 | .0 | .3 |
| 13-16 | .0 | .0 | .0 | .5 | .0 | .0 | .5 |
| 17-19 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 7.4 | 10.0 | 3.1 | .5 | .0 | 21.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .6 | * | .0 | .0 | .0 | .6 |
| 1-2 | .0 | 1.2 | .3 | .0 | .0 | .0 | 1.5 |
| 3-4 | * | * | .3 | * | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .7 | .0 | .0 | .0 | .7 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .1 | .1 | .0 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.7 | 1.6 | .1 | .0 | .0 | 3.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .0 | 1.5 | .7 | .0 | .0 | .0 | 2.2 |
| 3-4 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .1 | .3 | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.3 | .9 | .3 | .0 | .0 | 3.8 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .7 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | * | 1.5 | .3 | .0 | .0 | .0 | 1.9 |
| 3-4 | .0 | .5 | 1.1 | .4 | .0 | .0 | 2.1 |
| 5-6 | .0 | .0 | .3 | .3 | .0 | .0 | .7 |
| 7 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.7 | 2.0 | .9 | .0 | .0 | 5.7 |

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0034 POINT MUGU NW

TABLE 18 (CONT) 34.5N 121.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | .8 | .0 | .0 | .0 | .0 | 1.3 | .5 | .7 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .2 | 1.4 | 1.0 | .0 | .0 | .0 | 2.7 | .0 | 1.0 | .8 | .0 | .0 | .0 | 1.7 |
| 3-4 | .3 | .7 | 1.8 | .1 | .0 | .0 | 3.0 | .0 | .4 | .2 | * | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .6 | .2 | .0 | .0 | .9 | .0 | .0 | * | * | .0 | .0 | .1 |
| 7 | .0 | .0 | .5 | .1 | .0 | .0 | .6 | .0 | .1 | .8 | .0 | .0 | .0 | 1.0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 3.0 | 4.0 | .5 | .0 | .0 | 8.5 | .5 | 2.3 | 2.0 | .1 | .0 | .0 | 4.8 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .9 | .3 | 1.2 | * | .0 | .0 | .0 | 1.5 | |
| 1-2 | .2 | 2.2 | 1.2 | .0 | .0 | .0 | 3.6 | .3 | 5.5 | 4.8 | .0 | .0 | .0 | 10.6 | |
| 3-4 | .0 | .9 | 1.1 | .1 | .0 | .0 | 2.1 | .1 | 3.1 | 6.8 | 2.4 | .0 | .0 | 12.4 | |
| 5-6 | .0 | .0 | .2 | .2 | .0 | .0 | .5 | .0 | .6 | 2.2 | 1.2 | * | .0 | 4.0 | |
| 7 | .0 | .0 | .6 | .3 | .0 | .0 | 1.0 | .0 | .2 | 3.1 | 1.7 | .1 | .0 | 5.1 | |
| 8-9 | .0 | .0 | .0 | .2 | .1 | .0 | .3 | .0 | .0 | .6 | 1.3 | .3 | .0 | 2.2 | |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | .0 | .1 | .5 | 1.0 | .2 | .0 | 1.8 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .3 | .3 | .0 | .7 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 3.6 | 3.3 | 1.0 | .1 | .0 | 8.6 | .8 | 10.7 | 18.1 | 8.2 | 1.0 | .0 | 38.8 | 95.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.7 | 6.4 | .4 | .0 | .0 | .0 | 13.5 | |
| 1-2 | 1.8 | 17.2 | 11.0 | .0 | .0 | .0 | 30.0 | |
| 3-4 | .6 | 7.9 | 14.3 | 3.6 | .0 | .0 | 26.4 | |
| 5-6 | .0 | 1.4 | 6.5 | 2.8 | .1 | .0 | 10.8 | |
| 7 | .0 | .4 | 7.1 | 2.8 | .1 | .0 | 10.4 | |
| 8-9 | .0 | .0 | .8 | 1.9 | .6 | .0 | 3.3 | |
| 10-11 | .0 | .3 | 1.0 | 1.7 | .3 | .0 | 3.2 | |
| 12 | .0 | .0 | .1 | .4 | .4 | .0 | 1.0 | |
| 13-16 | .0 | .0 | .0 | .7 | .0 | .0 | .7 | |
| 17-19 | .0 | .0 | .3 | .0 | .0 | .0 | .3 | |
| 20-22 | .0 | .0 | .1 | .1 | .0 | .0 | .3 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 719 |
| TOT PCT | 9.0 | 33.7 | 41.7 | 14.0 | 1.5 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.8 | 10.2 | 12.3 | 5.6 | 2.6 | .6 | .8 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 499 | 3 |
| 6-7 | .1 | 1.4 | 6.7 | 7.3 | 5.0 | 1.6 | 1.6 | .6 | .6 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 350 | 6 |
| 8-9 | .0 | 1.1 | 2.9 | 2.8 | 3.1 | 1.3 | 2.1 | 1.0 | .8 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 216 | 7 |
| 10-11 | .0 | .7 | 1.8 | 1.1 | 1.1 | 1.6 | 1.0 | .5 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 114 | 7 |
| 12-13 | .0 | .0 | 1.2 | 1.3 | .6 | .9 | .4 | .4 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 74 | 7 |
| >13 | .0 | .0 | .0 | .2 | .8 | .6 | .2 | .1 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 38 | 10 |
| INDET | 3.9 | 1.9 | 1.2 | .6 | .6 | .1 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 122 | 2 |
| TOTAL | 96 | 217 | 369 | 266 | 195 | 95 | 87 | 41 | 36 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1413 | 5 |
| PCT | 6.8 | 15.4 | 26.1 | 18.8 | 13.8 | 6.7 | 6.2 | 2.9 | 2.5 | .5 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG | NO SIG WEA |
| N | .6 | .1 | .4 | .0 | .0 | .0 | .1 | 1.1 | .2 | .0 | 4.0 | .2 | 3.2 | | .1 | 91.2 |
| NE | .2 | .0 | .3 | .0 | .0 | .0 | .2 | 1.0 | 1.2 | .0 | 11.0 | .0 | 5.6 | | .0 | 81.2 |
| E | 3.3 | 2.3 | .9 | .0 | .0 | .0 | .3 | 6.7 | 2.4 | .0 | 11.1 | .0 | 9.7 | | .0 | 70.0 |
| SE | 10.1 | 1.4 | 5.3 | .0 | .0 | .0 | .0 | 15.0 | 1.7 | .0 | 10.1 | .0 | 6.9 | | .0 | 66.3 |
| S | 8.8 | 1.4 | 5.5 | .0 | .0 | .0 | .0 | 14.0 | 2.4 | .0 | 7.3 | 1.1 | 8.9 | | .0 | 66.2 |
| SW | 3.7 | 3.6 | 4.0 | .0 | .0 | .0 | .0 | 10.7 | 3.0 | .0 | 8.4 | .0 | 7.7 | | .1 | 70.1 |
| W | 1.5 | .6 | 1.1 | .0 | .0 | .0 | .0 | 2.8 | 1.0 | .0 | 6.6 | .4 | 9.9 | | .1 | 78.8 |
| NW | .5 | .3 | .5 | .0 | .0 | .0 | * | 1.1 | .8 | .0 | 5.0 | .2 | 4.2 | | .1 | 88.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 1.1 | .0 | 1.7 | .0 | .0 | .0 | .0 | 2.8 | .6 | .0 | 14.5 | .0 | 14.5 | | .0 | 67.6 |
| TOT PCT | 1.9 | .7 | 1.4 | .0 | .0 | .0 | * | 3.6 | 1.1 | .0 | 6.6 | .3 | 6.4 | | .1 | 81.9 |
| TOT OBS: | 4353 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG | NO SIG WEA |
| 00&03 | 2.1 | .6 | 1.0 | .0 | .0 | .0 | .0 | 3.5 | 1.1 | .0 | 4.8 | .3 | 7.3 | | .0 | 82.9 |
| 06&09 | 1.7 | .9 | .9 | .0 | .0 | .0 | .0 | 3.2 | 1.1 | .0 | 6.1 | .3 | 4.7 | | .1 | 84.5 |
| 12&15 | 2.3 | .7 | 2.2 | .0 | .0 | .0 | .1 | 4.4 | .8 | .0 | 8.5 | .3 | 4.2 | | .0 | 81.9 |
| 18&21 | 1.7 | .6 | 1.4 | .0 | .0 | .0 | .1 | 3.4 | 1.5 | .0 | 7.0 | .1 | 6.4 | | .1 | 79.4 |
| TOT PCT | 1.9 | .7 | 1.4 | .0 | .0 | .0 | * | 3.6 | 1.1 | .0 | 6.7 | .3 | 6.4 | | .1 | 81.8 |
| TOT OBS: | 4380 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.5 | 4.9 | 6.8 | 3.0 | .2 | .0 | | 16.5 | 14.2 | 13.1 | 11.1 | 20.0 | 17.4 | 23.1 | 19.0 | 15.7 | 12.3 |
| NE | 1.6 | 2.9 | .6 | .2 | .0 | .0 | | 5.2 | 6.4 | .9 | 1.2 | 6.1 | 8.9 | 8.9 | 11.9 | 4.1 | 1.7 |
| E | 1.0 | 2.1 | .8 | .2 | .0 | .0 | | 4.0 | 7.6 | 1.3 | 2.0 | 3.1 | 5.1 | 5.7 | 8.0 | 4.9 | 2.7 |
| SE | .8 | 2.4 | 1.2 | .4 | .1 | .0 | | 4.8 | 9.8 | 3.8 | 4.7 | 3.2 | 5.1 | 2.5 | 6.4 | 5.7 | 7.3 |
| S | 1.1 | 2.6 | 2.0 | .4 | * | .0 | | 6.0 | 9.9 | 6.4 | 5.1 | 4.7 | 5.9 | 3.4 | 3.6 | 8.7 | 6.7 |
| SW | 1.0 | 2.6 | 1.6 | .3 | * | .0 | | 5.4 | 9.5 | 5.9 | 4.5 | 4.3 | 3.2 | 4.3 | 3.9 | 6.4 | 8.5 |
| W | 1.7 | 8.6 | 6.4 | 1.3 | .1 | .0 | | 18.1 | 11.1 | 27.0 | 22.7 | 15.8 | 12.9 | 13.0 | 10.6 | 18.5 | 20.8 |
| NW | 1.7 | 10.0 | 16.3 | 7.0 | .6 | .0 | | 35.6 | 15.1 | 39.0 | 46.0 | 37.9 | 36.7 | 33.8 | 33.6 | 28.2 | 35.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.3 | | | | | | | 4.3 | .0 | 2.6 | 2.5 | 4.9 | 4.8 | 5.2 | 2.9 | 7.8 | 2.4 |
| TOT OBS | 699 | 1730 | 1705 | 606 | 49 | 0 | 4789 | | 12.0 | 742 | 354 | 589 | 376 | 687 | 510 | 795 | 736 |
| TOT PCT | 14.6 | 36.1 | 35.6 | 12.7 | 1.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.3 | 6.8 | 5.6 | .9 | .0 | | 16.5 | 14.2 | 12.4 | 19.0 | 21.4 | 14.0 |
| NE | 3.5 | 1.3 | .3 | .0 | .0 | | 5.2 | 6.4 | 1.0 | 7.2 | 10.2 | 3.0 |
| E | 2.4 | 1.2 | .4 | .0 | .0 | | 4.0 | 7.6 | 1.5 | 3.9 | 6.7 | 3.9 |
| SE | 2.1 | 1.9 | .7 | .1 | .0 | | 4.8 | 9.8 | 4.1 | 3.9 | 4.2 | 6.5 |
| S | 2.3 | 2.7 | 1.0 | .1 | .0 | | 6.0 | 9.9 | 6.0 | 5.2 | 3.5 | 8.7 |
| SW | 2.3 | 2.3 | .8 | .1 | .0 | | 5.4 | 9.5 | 5.5 | 3.9 | 4.2 | 7.4 |
| W | 5.3 | 9.1 | 3.2 | .5 | * | | 18.1 | 11.1 | 25.6 | 14.7 | 12.0 | 19.4 |
| NW | 5.2 | 15.5 | 12.4 | 2.5 | * | | 35.6 | 15.1 | 41.3 | 37.5 | 33.7 | 31.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.3 | | | | | | 4.3 | .0 | 2.6 | 4.9 | 4.3 | 5.2 |
| TOT OBS | 1496 | 1953 | 1171 | 198 | 1 | 4789 | | 12.0 | 1096 | 965 | 1197 | 1531 |
| TOT PCT | 30.6 | 40.8 | 24.5 | 4.1 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.6 | 6.0 | 33.. | 42.4 | 14.2 | 1.4 | .0 | 13.4 | 100.0 | 1096 |
| 06&09 | 4.9 | 10.5 | 34.4 | 34.8 | 14.3 | 1.1 | .0 | 12.2 | 100.0 | 965 |
| 12&15 | 4.3 | 11.4 | 36.4 | 34.1 | 12.9 | .9 | .0 | 11.8 | 100.0 | 1197 |
| 18&21 | 3.2 | 12.4 | 38.9 | 32.4 | 10.3 | .8 | .0 | 10.9 | 100.0 | 1531 |
| TOT | 206 | 493 | 1730 | 1705 | 606 | 49 | 0 | 12.0 | | 4789 |
| PCT | 4.3 | 10.3 | 36.1 | 35.6 | 12.7 | 1.0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.6 | 2.0 | 3.3 | 2.4 | | 2.8 |
| NE | 4.5 | .5 | .9 | 1.2 | | 2.6 |
| E | 2.0 | .3 | .9 | 1.4 | | 4.0 |
| SE | .8 | .1 | 1.0 | 1.5 | | 5.6 |
| S | 1.3 | .3 | 1.6 | 1.9 | | 5.3 |
| SW | 1.7 | .5 | 1.7 | 1.4 | | 4.7 |
| W | 9.5 | 1.6 | 4.3 | 3.3 | | 3.4 |
| NW | 16.0 | 4.2 | 7.1 | 4.9 | | 3.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.4 | .4 | 1.1 | 1.2 | | 3.6 |
| TOT OBS | 1342 | 276 | 603 | 534 | 2755 | 3.5 |
| TOT PCT | 48.7 | 10.0 | 21.9 | 19.4 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .3 | .8 | 1.6 | 1.2 | .2 | .1 | * | .1 | 13.8 | |
| NE | .1 | .0 | * | .2 | .5 | .4 | .3 | * | .0 | .3 | 5.5 | |
| E | .3 | .0 | * | .2 | .6 | .5 | .1 | .1 | * | .1 | 2.9 | |
| SE | .1 | .0 | .1 | .2 | .6 | .6 | .1 | * | * | .1 | 1.5 | |
| S | .1 | * | .2 | .3 | .9 | .7 | .2 | .1 | .0 | .1 | 2.6 | |
| SW | .2 | * | .2 | .4 | .7 | .5 | .1 | * | * | * | 3.1 | |
| W | .5 | * | .2 | .8 | 1.7 | 1.5 | .5 | .1 | .0 | .4 | 13.2 | |
| NW | .7 | * | .4 | 1.3 | 3.4 | 2.0 | .7 | .2 | .1 | .3 | 23.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .3 | * | .1 | .1 | .4 | .3 | .1 | .0 | * | .3 | 3.5 | |
| TOT OBS | 65 | 5 | 43 | 119 | 281 | 209 | 62 | 14 | 7 | 45 | 1905 | 2755 |
| TOT PCT | 2.4 | .2 | 1.6 | 4.3 | 10.2 | 7.6 | 2.3 | .5 | .3 | 1.6 | 69.1 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) = OR >10 | = OR >5 | = OR >2 | = OR >1 | = OR >1/2 | = OR >1/4 | = OR >50YD | = OR >0 |
|---|---|---|---|---|---|---|---|---|
| = OR >6500 | .9 | 1.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| = OR >5000 | 1.0 | 2.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| = OR >3500 | 2.0 | 4.0 | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.7 |
| = OR >2000 | 5.8 | 10.3 | 11.7 | 12.0 | 12.2 | 12.2 | 12.2 | 12.2 |
| = OR >1000 | 11.0 | 18.4 | 21.3 | 22.1 | 22.3 | 22.3 | 22.3 | 22.3 |
| = OR >600 | 13.5 | 22.1 | 25.5 | 26.3 | 26.5 | 26.6 | 26.6 | 26.6 |
| = OR >300 | 14.0 | 22.9 | 26.8 | 27.9 | 28.1 | 28.1 | 28.2 | 28.2 |
| = OR >150 | 14.1 | 23.0 | 27.0 | 28.1 | 28.3 | 28.3 | 28.4 | 28.4 |
| = OR > 0 | 14.3 | 23.3 | 27.4 | 28.6 | 29.3 | 30.0 | 30.5 | 30.7 |
| TOTAL | 395 | 645 | 758 | 791 | 811 | 829 | 845 | 850 |

TOTAL NUMBER OF OBS: 2766

PCT FREQ NH <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 40.7 | 8.4 | 10.3 | 5.4 | 4.0 | 4.0 | 6.5 | 4.9 | 13.9 | 2.0 | 2897 |

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| <1/2 | NO PCP | .1 | .1 | .2 | .1 | .1 | .1 | .4 | .5 | .0 | .2 | 1.9 | |
| | TOT % | .1 | .1 | .2 | .1 | .1 | .1 | .4 | .5 | .0 | .2 | 1.9 | |
| | PCP | .0 | .0 | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .0 | .1 | .1 | .1 | .1 | * | .1 | .3 | .0 | .1 | .9 | |
| | TOT % | .0 | .1 | .1 | .2 | .1 | * | .1 | .3 | .0 | .1 | 1.1 | |
| | PCP | .0 | * | .1 | .1 | .1 | * | * | * | .0 | .0 | .4 | |
| 1<2 | NO PCP | .2 | .2 | .1 | .1 | .3 | .1 | .2 | .2 | .0 | .1 | 1.4 | |
| | TOT % | .2 | .2 | .2 | .2 | .3 | .1 | .2 | .2 | .0 | .1 | 1.9 | |
| | PCP | * | * | * | .2 | .2 | .1 | .1 | * | .0 | * | .8 | |
| 2<5 | NO PCP | .4 | .3 | .2 | .3 | .4 | .4 | 1.5 | .9 | .0 | .2 | 4.6 | |
| | TOT % | .5 | .3 | .3 | .5 | .6 | .5 | 1.6 | .9 | .0 | .3 | 5.4 | |
| | PCP | .1 | .0 | .1 | .1 | .5 | .3 | .4 | .4 | .0 | * | 1.7 | |
| 5<10 | NO PCP | 9.5 | 1.7 | 1.4 | 1.3 | 1.7 | 1.5 | 5.4 | 7.9 | .0 | 1.3 | 25.7 | |
| | TOT % | 9.6 | 1.7 | 1.5 | 1.5 | 2.1 | 1.8 | 5.7 | 8.0 | .0 | 1.3 | 27.3 | |
| | PCP | .1 | * | * | * | * | .1 | * | .1 | .0 | * | .5 | |
| 10+ | NO PCP | 12.2 | 2.9 | 1.7 | 1.9 | 2.8 | 2.7 | 10.6 | 25.1 | .0 | 2.0 | 61.9 | |
| | TOT % | 12.3 | 2.9 | 1.7 | 1.9 | 2.8 | 2.8 | 10.6 | 25.2 | .0 | 2.1 | 62.4 | |
| | TOT OBS | | | | | | | | | | | | 4348 |
| | TOT PCT | 16.7 | 5.3 | 4.0 | 4.4 | 6.1 | 5.5 | 18.7 | 35.2 | .0 | 4.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | .1 | * | * | * | .1 | * | .0 | .3 | .7 | |
| <1/2 | 4-10 | * | * | * | .1 | * | .1 | .2 | .3 | .0 | | .8 | |
| | 11-21 | * | .0 | * | * | * | * | .1 | .2 | .0 | | .4 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | .1 | .2 | .2 | .1 | .1 | .4 | .5 | .0 | .3 | 2.0 | |
| | 0-3 | .0 | * | * | * | * | * | * | .1 | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .0 | * | .1 | .1 | .1 | * | .1 | .1 | .0 | | .5 | |
| | 11-21 | .0 | .0 | * | .1 | .0 | .0 | * | .1 | .0 | | .2 | |
| | 22+ | .0 | .0 | .0 | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .0 | .1 | .1 | .2 | .1 | * | .2 | .4 | .0 | .1 | 1.1 | |
| | 0-3 | .1 | .1 | .1 | * | .1 | .1 | * | .1 | .0 | .1 | .7 | |
| 1<2 | 4-10 | .1 | .1 | * | .1 | .1 | * | .2 | .1 | .0 | | .7 | |
| | 11-21 | * | .0 | * | * | .1 | * | * | .1 | .0 | | .3 | |
| | 22+ | .0 | .0 | * | .1 | * | * | * | * | .0 | | .2 | |
| | TOT % | .2 | .2 | .2 | .2 | .3 | .2 | .2 | .3 | .0 | .1 | 1.9 | |
| | 0-3 | .2 | .1 | .1 | .2 | .2 | .1 | .2 | .2 | .0 | .3 | 1.6 | |
| 2<5 | 4-10 | .2 | .2 | .1 | .2 | .4 | .3 | 1.0 | .6 | .0 | | 2.9 | |
| | 11-21 | .1 | * | * | .1 | .1 | .1 | .3 | .3 | .0 | | 1.1 | |
| | 22+ | * | .0 | .0 | .1 | * | * | * | .1 | .0 | | .4 | |
| | TOT % | .5 | .3 | .3 | .6 | .7 | .5 | 1.6 | 1.2 | .0 | .3 | 6.0 | |
| | 0-3 | .5 | .7 | .4 | .2 | .4 | .4 | .7 | .5 | .0 | 1.4 | 5.0 | |
| 5<10 | 4-10 | .9 | .8 | .8 | .7 | .7 | .7 | 2.4 | 2.1 | .0 | | 9.2 | |
| | 11-21 | 1.3 | .1 | .2 | .4 | .7 | .5 | 1.8 | 3.4 | .0 | | 8.3 | |
| | 22+ | .8 | * | .1 | .2 | .2 | .1 | .5 | 1.9 | .0 | | 3.8 | |
| | TOT % | 3.5 | 1.6 | 1.5 | 1.5 | 2.0 | 1.7 | 5.4 | 7.9 | .0 | 1.4 | 26.4 | |
| | 0-3 | .8 | .5 | .3 | .3 | .4 | .4 | .5 | .8 | .0 | 2.2 | 6.2 | |
| 10+ | 4-10 | 3.7 | 1.7 | 1.0 | 1.1 | 1.3 | 1.4 | 4.8 | 6.8 | .0 | | 21.8 | |
| | 11-21 | 5.4 | .5 | .5 | .6 | 1.0 | .9 | 4.3 | 12.1 | .0 | | 25.3 | |
| | 22+ | 2.4 | .1 | .1 | * | .1 | .2 | .9 | 5.6 | .0 | | 9.3 | |
| | TOT % | 12.2 | 2.8 | 1.8 | 2.1 | 2.8 | 2.9 | 10.5 | 25.4 | .0 | 2.2 | 62.6 | |
| | TOT OBS | | | | | | | | | | | | 4641 |
| | TOT PCT | 16.5 | 5.1 | 4.0 | 4.7 | 6.1 | 5.4 | 18.3 | 35.6 | .0 | 4.2 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT HUGU NW
34.6N 121.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <3/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.9 | .0 | 1.7 | 4.8 | 8.8 | 6.8 | 1.6 | .6 | .1 | 2.0 | 29.4 | 70.6 | 690 |
| 06&09 | 1.6 | .2 | 1.6 | 2.3 | 8.7 | 6.4 | 2.5 | .2 | .0 | 1.1 | 24.5 | 75.5 | 642 |
| 12&15 | 2.5 | .1 | 1.6 | 5.3 | 10.3 | 9.0 | 3.4 | .7 | .3 | 1.2 | 34.5 | 65.5 | 678 |
| 18&21 | 2.2 | .4 | 1.2 | 4.2 | 11.5 | 7.2 | 1.6 | .5 | .5 | 1.9 | 30.9 | 69.1 | 837 |
| TOT | 65 | 5 | 43 | 119 | 283 | 209 | 63 | 14 | 7 | 45 | 853 | 1994 | 2847 |
| PCT | 2.3 | .2 | 1.5 | 4.2 | 9.9 | 7.3 | 2.2 | .5 | .2 | 1.6 | 30.0 | 70.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.5 | 1.0 | 1.1 | 6.4 | 25.9 | 64.0 | 1070 |
| 06&09 | 1.7 | .6 | 1.8 | 5.6 | 27.4 | 62.9 | 956 |
| 12&15 | 2.7 | 1.5 | 2.7 | 4.8 | 26.2 | 62.1 | 1166 |
| 18&21 | 2.0 | 1.3 | 2.1 | 6.8 | 26.2 | 61.6 | 1478 |
| TOT | 93 | 53 | 92 | 280 | 1232 | 2920 | 4670 |
| PCT | 2.0 | 1.1 | 2.0 | 6.0 | 26.4 | 62.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 5+ AND | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.2 | 5.3 | 16.0 | 18.3 | 65.8 | 663 |
| 06&09 | 1.6 | 3.6 | 12.8 | 14.4 | 72.8 | 633 |
| 12&15 | 2.7 | 5.6 | 16.8 | 21.2 | 62.0 | 655 |
| 18&21 | 2.2 | 4.4 | 15.6 | 19.4 | 65.0 | 815 |
| TOT | 67 | 131 | 424 | 509 | 1833 | 2766 |
| PCT | 2.4 | 4.7 | 15.3 | 18.4 | 66.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .1 | .0 | .1 | * | .0 | * | .0 | .0 | 7 | .3 |
| 70/74 | .1 | .0 | .0 | .1 | .1 | * | * | .0 | 10 | .4 |
| 65/69 | .1 | * | .3 | .4 | .8 | .6 | .1 | .0 | 67 | 2.4 |
| 60/64 | * | .1 | .1 | 1.1 | 3.4 | 3.8 | 3.0 | .8 | 343 | 12.4 |
| 55/59 | * | .1 | .3 | 1.3 | 4.2 | 11.7 | 16.0 | 7.1 | 1125 | 40.7 |
| 50/54 | .0 | * | .1 | 1.0 | 5.6 | 8.4 | 15.2 | 8.9 | 1084 | 39.2 |
| 45/49 | .0 | .0 | .1 | * | .4 | .9 | 1.3 | 1.5 | 116 | 4.2 |
| 40/44 | .0 | .0 | .0 | * | * | .0 | .2 | .1 | 11 | .4 |
| TOTAL | 10 | 9 | 27 | 114 | 399 | 703 | 992 | 509 | 2763 | 100.0 |
| PCT | .4 | .3 | 1.0 | 4.1 | 14.4 | 25.4 | 35.9 | 18.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| TEMP F | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 70/74 | * | * | * | .0 | * | * | .2 | * | .0 | .0 |
| 65/69 | .3 | .1 | .1 | * | .2 | .2 | .6 | .7 | .0 | .1 |
| 60/64 | 1.2 | .3 | .4 | .7 | 1.2 | 1.5 | 3.4 | 3.0 | .0 | .7 |
| 55/59 | 6.1 | 1.3 | 1.2 | 2.0 | 3.1 | 2.4 | 8.7 | 14.5 | .0 | 1.5 |
| 50/54 | 8.6 | 1.5 | 1.3 | 1.1 | 1.7 | 1.4 | 5.1 | 17.5 | .0 | 1.1 |
| 45/49 | .7 | .9 | .4 | * | .0 | * | .5 | 1.4 | .0 | .2 |
| 40/44 | .2 | .1 | .0 | .0 | .0 | .0 | * | .0 | .0 | * |
| TOTAL | | | | | | | | | | |
| PCT | 17.3 | 4.4 | 3.5 | 3.9 | 6.2 | 5.4 | 18.4 | 37.0 | .0 | 3.7 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 76 | 68 | 64 | 56 | 52 | 49 | 37 | 56.8 | 1089 |
| 06&09 | 70 | 62 | 59 | 54 | 48 | 46 | 40 | 53.9 | 970 |
| 12&15 | 68 | 63 | 59 | 54 | 47 | 44 | 41 | 53.3 | 1204 |
| 18&21 | 78 | 70 | 65 | 57 | 51 | 48 | 43 | 57.3 | 1529 |
| TOT | 78 | 67 | 63 | 55 | 49 | 45 | 37 | 55.5 | 4792 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 5.2 | 17.1 | 30.9 | 35.5 | 11.2 | 78 | 695 |
| 06&09 | .0 | 3.0 | 9.5 | 21.3 | 40.2 | 26.0 | 82 | 569 |
| 12&15 | .3 | 3.5 | 8.2 | 20.2 | 39.3 | 28.5 | 83 | 684 |
| 18&21 | 1.0 | 8.9 | 20.6 | 28.1 | 30.5 | 11.0 | 76 | 834 |
| TOT | 10 | 151 | 401 | 708 | 999 | 513 | 79 | 2782 |

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.0N 121.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 2 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .2 | * | .2 | .1 | 15 | * | .5 |
| 11/13 | .0 | .0 | * | * | .1 | .3 | .1 | .0 | 16 | .0 | .5 |
| 9/10 | .0 | .0 | .1 | .1 | .5 | .4 | .0 | .0 | 33 | * | 1.1 |
| 7/8 | .0 | .0 | .1 | .8 | 1.2 | .4 | .0 | .0 | 77 | .3 | 2.3 |
| 6 | .0 | .0 | .1 | .6 | .5 | .1 | .0 | .0 | 39 | * | 1.3 |
| 5 | .0 | .1 | .4 | 1.3 | 1.3 | .1 | .0 | .0 | 93 | .2 | 2.9 |
| 4 | .0 | .1 | 1.8 | 2.7 | 1.1 | * | .0 | .0 | 173 | .4 | 5.3 |
| 3 | .0 | .1 | 1.6 | 2.1 | .6 | .0 | .0 | .0 | 134 | .2 | 4.2 |
| 2 | .0 | .3 | 3.7 | 4.6 | .8 | .0 | .0 | .0 | 285 | .7 | 8.7 |
| 1 | .0 | .4 | 4.6 | 2.6 | .1 | * | .0 | * | 237 | .2 | 7.6 |
| 0 | .1 | 2.6 | 10.2 | 4.2 | .4 | .0 | .0 | .0 | 528 | 1.1 | 16.3 |
| -1 | * | 1.9 | 6.3 | 1.7 | .0 | .0 | .0 | .0 | 301 | .5 | 9.4 |
| -2 | .2 | 4.5 | 7.2 | 1.5 | * | .0 | .0 | .0 | 410 | .7 | 12.9 |
| -3 | * | 2.4 | 3.7 | .5 | .1 | .0 | .0 | .0 | 204 | .4 | 6.4 |
| -4 | .4 | 3.4 | 3.5 | .3 | .0 | .0 | .0 | .0 | 232 | .5 | 7.1 |
| -5 | .3 | 1.9 | 1.4 | .1 | .0 | .0 | .0 | .0 | 112 | .4 | 3.3 |
| -6 | .2 | 1.0 | .5 | .2 | * | .0 | .0 | .0 | 57 | .1 | 1.8 |
| -7/-8 | .3 | .9 | .3 | .2 | * | .0 | .0 | .0 | 53 | .1 | 1.6 |
| -9/-10 | .1 | .3 | .1 | .1 | * | .0 | .0 | .0 | 20 | * | .6 |
| -11/-13 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | 12 | .0 | .4 |
| TOTAL | 58 | 605 | 1385 | 719 | 212 | 42 | 9 | 5 | 3035 | 172 | 2863 |
| PCT | 1.9 | 19.9 | 45.6 | 23.7 | 7.0 | 1.4 | .3 | .2 | 100.0 | 5.7 | 94.3 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.1 | .0 | .0 | .0 | .0 | 1.7 |
| 1-2 | .1 | 2.7 | 2.0 | .0 | .0 | .0 | 4.9 |
| 3-4 | .0 | 1.3 | 5.1 | .9 | .0 | .0 | 7.3 |
| 5-6 | .0 | .4 | 2.5 | .8 | .0 | .0 | 3.8 |
| 7 | .0 | .0 | 1.5 | 1.5 | .0 | .0 | 3.0 |
| 8-9 | .0 | .1 | .8 | .8 | .0 | .0 | 1.8 |
| 10-11 | .0 | .0 | .1 | .2 | .2 | .0 | .6 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 5.8 | 12.1 | 4.4 | .2 | .0 | 23.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .0 | .0 | .0 | .0 | .0 | * |
| 1-2 | .0 | .9 | .2 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .5 | .1 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 1.4 | .7 | .0 | .0 | .0 | 2.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .3 | .6 | .1 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.3 | .2 | .0 | .0 | .0 | 1.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | 1.3 | .4 | .0 | .0 | .0 | 1.7 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .1 | .0 | .1 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.7 | .8 | .3 | .1 | .0 | 3.0 |

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0034 POINT MUGU NW
34.0N 121.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .1 | .1 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | 1.3 | 1.1 | .0 | .0 | .0 | 2.4 |
| 3-4 | .0 | .7 | .5 | .0 | .0 | .0 | 1.2 |
| 5-6 | .0 | .1 | 1.0 | .1 | .0 | .0 | 1.3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.4 | 3.2 | .3 | .0 | .0 | 6.1 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .7 | .3 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .2 | .7 | * | .0 | .0 | .9 |
| 5-6 | .0 | .1 | .4 | .0 | .0 | .0 | .6 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.2 | 1.5 | .1 | .0 | .0 | 3.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .4 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .4 | 3.2 | 1.2 | .0 | .0 | .0 | 4.8 |
| 3-4 | .0 | 1.6 | 1.9 | .1 | .0 | .0 | 3.6 |
| 5-6 | .0 | .6 | .6 | .1 | .0 | .0 | 1.3 |
| 7 | .0 | .0 | .8 | .2 | .0 | .0 | 1.0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 5.8 | 4.6 | .7 | .0 | .0 | 12.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .5 | .4 | .1 | .0 | .0 | .0 | 1.0 | |
| 1-2 | .3 | 4.0 | 4.2 | .0 | .0 | .0 | 8.5 | |
| 3-4 | .1 | 3.8 | 8.8 | 2.1 | .0 | .0 | 14.9 | |
| 5-6 | .0 | .3 | 5.7 | 2.4 | .1 | .0 | 8.5 | |
| 7 | .0 | .1 | 3.1 | .9 | .4 | .0 | 4.5 | |
| 8-9 | .0 | .0 | 1.6 | 1.8 | .0 | .0 | 3.4 | |
| 10-11 | .0 | .0 | .9 | 1.7 | .4 | .0 | 3.0 | |
| 12 | .0 | .0 | .1 | .5 | .3 | .0 | .9 | |
| 13-16 | .0 | .0 | .0 | .2 | .3 | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 8.7 | 24.7 | 9.5 | 1.6 | .0 | 45.4 | 96.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.7 | 3.0 | .3 | .0 | .0 | .0 | 8.9 | |
| 1-2 | 1.2 | 14.6 | 9.5 | .0 | .0 | .0 | 25.3 | |
| 3-4 | .3 | 8.5 | 17.4 | 3.1 | .0 | .0 | 29.4 | |
| 5-6 | .0 | 1.8 | 10.6 | 3.4 | .1 | .0 | 15.9 | |
| 7 | .0 | .1 | 5.7 | 2.5 | .6 | .0 | 8.9 | |
| 8-9 | .0 | .1 | 2.5 | 2.5 | .0 | .0 | 5.2 | |
| 10-11 | .0 | .0 | 1.3 | 2.5 | .6 | .0 | 4.5 | |
| 12 | .0 | .0 | .1 | .6 | .3 | .0 | 1.0 | |
| 13-16 | .0 | .0 | .0 | .4 | .3 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.2 | 28.2 | 47.5 | 15.2 | 1.9 | .0 | 100.0 | 671 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.1 | 9.6 | 13.1 | 7.0 | 4.3 | 1.0 | 1.0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 608 | 4 |
| 6-7 | .1 | 2.3 | 6.9 | 7.5 | 4.8 | 4.1 | 1.8 | .6 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 440 | 6 |
| 8-9 | .0 | .4 | 2.8 | 3.2 | 3.0 | 2.1 | 1.8 | 1.1 | .8 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 239 | 7 |
| 10-11 | .0 | .4 | .9 | 1.2 | 1.2 | 1.0 | .7 | .9 | .3 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 107 | 8 |
| 12-13 | .0 | .0 | .8 | .1 | .5 | .2 | .2 | .1 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 39 | 8 |
| >13 | .0 | .0 | .0 | .3 | .1 | .4 | .1 | .1 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 20 | 9 |
| INDET | 1.8 | .8 | 1.4 | .8 | .4 | .2 | .1 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 89 | 3 |
| TOTAL | 77 | 208 | 399 | 311 | 222 | 140 | 88 | 47 | 39 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1542 | 5 |
| PCT | 5.0 | 13.5 | 25.9 | 20.2 | 14.4 | 9.1 | 5.7 | 3.0 | 2.5 | .4 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT MUGU NW
34.6N 120.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .4 | .8 | .0 | .0 | .0 | .0 | 1.2 | .6 | .1 | 4.8 | .0 | 3.9 | | .1 | 89.2 |
| NE | 4.1 | .3 | 1.4 | .0 | .0 | .0 | .0 | 5.5 | .9 | .0 | 13.2 | .7 | 4.3 | | .0 | 75.4 |
| E | 7.9 | 1.9 | 5.2 | .0 | .0 | .0 | .0 | 11.5 | 2.1 | .0 | 21.7 | .6 | 12.5 | | .0 | 51.6 |
| SE | 6.8 | 1.3 | 5.0 | .0 | .0 | .0 | .0 | 12.6 | 1.3 | .0 | 21.3 | .6 | 8.2 | | .0 | 56.0 |
| S | 2.6 | 2.3 | 3.0 | .0 | .0 | .0 | .0 | 7.4 | 4.0 | .0 | 13.9 | .0 | 7.3 | | .0 | 67.4 |
| SW | 1.5 | 1.6 | 3.1 | .0 | .0 | .0 | .0 | 5.7 | .8 | .2 | 17.9 | .0 | 15.0 | | .4 | 60.1 |
| W | .7 | .4 | 1.0 | .0 | .0 | .0 | .0 | 2.0 | .6 | .1 | 9.6 | .0 | 15.0 | | .2 | 72.7 |
| NW | .2 | .4 | .9 | .0 | .0 | .0 | .0 | 1.4 | .5 | .0 | 6.9 | .1 | 4.9 | | * | 86.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 1.6 | .0 | 1.6 | .0 | .0 | .0 | .0 | 3.1 | .0 | .0 | 22.8 | .0 | 9.3 | | .0 | 64.8 |
| TOT PCT | 1.1 | .6 | 1.5 | .0 | .0 | .0 | .0 | 3.0 | .8 | * | 10.1 | .1 | 8.1 | | .1 | 77.8 |
| TOT OBS: | 4639 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.2 | .2 | 1.3 | .0 | .0 | .0 | .0 | 2.4 | .6 | .0 | 8.3 | .1 | 10.2 | | .2 | 78.2 |
| 06&09 | 1.0 | .3 | 1.5 | .0 | .0 | .0 | .0 | 2.7 | .9 | .0 | 9.6 | .1 | 4.0 | | .0 | 82.8 |
| 12&15 | 1.1 | 1.4 | 2.0 | .0 | .0 | .0 | .0 | 4.4 | 1.3 | .1 | 12.5 | .1 | 4.9 | | .1 | 76.6 |
| 18&21 | 1.2 | .5 | 1.2 | .0 | .0 | .0 | .0 | 2.6 | .6 | .1 | 10.5 | .1 | 11.3 | | .1 | 74.9 |
| TOT PCT | 1.1 | .6 | 1.5 | .0 | .0 | .0 | .0 | 3.0 | .8 | * | 10.2 | .1 | 8.1 | | .1 | 77.7 |
| TOT OBS: | 4677 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.2 | 3.4 | 6.4 | 3.0 | .4 | .0 | | 14.4 | 15.4 | 12.2 | 9.3 | 16.0 | 13.2 | 19.0 | 17.0 | 15.6 | 11.1 |
| NE | 1.1 | 1.4 | .4 | .1 | .0 | .0 | | 3.0 | 6.5 | 1.0 | 1.8 | 2.2 | 4.3 | 6.9 | 6.9 | 1.1 | 1.7 |
| E | 1.1 | 1.2 | .3 | .1 | .0 | .0 | | 2.7 | 5.9 | .8 | 1.7 | 1.7 | 4.7 | 4.6 | 5.1 | 2.8 | 1.8 |
| SE | 1.0 | 2.4 | .6 | .1 | .0 | .0 | | 4.2 | 7.5 | 2.5 | 3.2 | 3.6 | 3.5 | 4.0 | 5.7 | 6.6 | 3.7 |
| S | 1.4 | 2.5 | 1.1 | .2 | .0 | .0 | | 5.2 | 7.6 | 4.7 | 4.7 | 5.3 | 3.9 | 3.6 | 3.8 | 8.2 | 5.6 |
| SW | 1.3 | 3.1 | .7 | .1 | .0 | .0 | | 5.3 | 7.0 | 5.5 | 4.6 | 3.5 | 3.5 | 2.8 | 3.3 | 8.0 | 7.7 |
| W | 2.4 | 10.2 | 7.0 | 1.3 | * | .0 | | 20.8 | 10.2 | 30.2 | 22.4 | 16.1 | 17.9 | 13.1 | 12.8 | 22.1 | 25.8 |
| NW | 1.9 | 10.9 | 18.8 | 7.7 | .7 | .0 | | 40.0 | 15.2 | 41.9 | 48.7 | 46.9 | 43.6 | 38.2 | 38.4 | 30.5 | 40.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.4 | | | | | | | 4.4 | .0 | 1.2 | 3.3 | 4.5 | 5.6 | 7.6 | 6.9 | 5.2 | 2.6 |
| TOT OBS | 811 | 1791 | 1802 | 640 | 54 | 0 | 5098 | | 11.8 | 862 | 359 | 629 | 376 | 668 | 537 | 911 | 756 |
| TOT PCT | 15.9 | 35.1 | 35.3 | 12.6 | 1.1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.6 | 5.4 | 5.2 | 1.1 | * | | 14.4 | 15.4 | 11.4 | 15.0 | 18.2 | 13.5 |
| NE | 2.1 | .5 | .3 | * | .0 | | 3.0 | 6.5 | 1.2 | 3.0 | 6.9 | 1.4 |
| E | 2.0 | .5 | .2 | * | .0 | | 2.7 | 5.9 | 1.1 | 2.8 | 4.8 | 2.3 |
| SE | 2.2 | 1.6 | .3 | * | .0 | | 4.2 | 7.5 | 2.7 | 3.6 | 4.8 | 5.3 |
| S | 2.9 | 2.0 | .3 | .1 | .0 | | 5.2 | 7.6 | 4.7 | 4.8 | 3.7 | 7.0 |
| SW | 2.8 | 2.2 | .3 | * | .0 | | 5.3 | 7.0 | 5.3 | 3.5 | 3.0 | 7.8 |
| W | 7.1 | 10.5 | 2.8 | .4 | .0 | | 20.8 | 10.2 | 27.9 | 16.8 | 13.0 | 23.8 |
| NW | 5.7 | 17.1 | 14.6 | 2.6 | * | | 40.0 | 15.2 | 43.9 | 45.7 | 38.3 | 34.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.4 | | | | | | 4.4 | .0 | 1.8 | 4.9 | 7.3 | 4.0 |
| TOT OBS | 1624 | 2034 | 1220 | 216 | 4 | 5098 | | 11.8 | 1221 | 1005 | 1205 | 1667 |
| TOT PCT | 31.9 | 39.9 | 23.9 | 4.2 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT HUGU NW
34.6N 120.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 7.1 | 33.7 | 39.3 | 16.8 | 1.3 | .0 | 13.5 | 100.0 | 1221 |
| 06&09 | 4.9 | 11.7 | 29.9 | 38.4 | 14.0 | 1.1 | .0 | 12.5 | 100.0 | 1005 |
| 12&15 | 7.3 | 13.5 | 33.8 | 34.1 | 10.7 | .6 | .0 | 10.9 | 100.0 | 1205 |
| 18&21 | 4.0 | 13.0 | 40.4 | 31.5 | 9.9 | 1.2 | .0 | 10.9 | 100.0 | 1667 |
| TOT | 226 | 585 | 1791 | 1802 | 640 | 54 | 0 | 11.8 | | 5098 |
| PCT | 4.4 | 11.5 | 35.1 | 35.3 | 12.6 | 1.1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 6.9 | 2.3 | 3.3 | 3.0 | | 3.6 |
| NE | 2.2 | .4 | .4 | .8 | | 3.0 |
| E | 1.2 | .2 | .4 | 1.3 | | 4.5 |
| SE | .9 | .2 | .7 | 2.7 | | 6.0 |
| S | 1.5 | .5 | 1.4 | 2.9 | | 5.3 |
| SW | 1.3 | .4 | 1.3 | 2.4 | | 5.5 |
| W | 9.2 | 2.0 | 4.0 | 4.8 | | 3.7 |
| NW | 17.3 | 4.3 | 7.2 | 8.1 | | 3.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.6 | .3 | .9 | 2.2 | | 4.9 |
| TOT OBS | 1164 | 294 | 542 | 771 | 2771 | 4.0 |
| TOT PCT | 42.0 | 10.6 | 19.6 | 27.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .2 | .1 | .3 | .8 | 2.2 | 1.1 | .4 | .1 | .1 | .1 | 10.2 | |
| NE | .2 | .0 | .1 | * | .5 | .2 | .1 | .0 | * | * | 2.8 | |
| E | .2 | .0 | .1 | .2 | .5 | .4 | .1 | * | .0 | * | 1.5 | |
| SE | .5 | * | .2 | .4 | .9 | .6 | .2 | * | .1 | * | 1.5 | |
| S | .3 | .1 | .1 | .6 | 1.2 | .5 | .3 | * | * | .1 | 2.6 | |
| SW | .3 | * | .1 | .6 | 1.3 | .6 | .1 | * | .1 | * | 2.2 | |
| W | .4 | * | .4 | 1.1 | 2.7 | 1.6 | .3 | * | .2 | .1 | 13.2 | |
| NW | 1.0 | .1 | .4 | 2.3 | 5.2 | 2.8 | .7 | .1 | .3 | .3 | 23.8 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | .0 | .1 | .4 | .8 | .7 | .2 | * | .1 | * | 2.0 | |
| TOT OBS | 98 | 8 | 48 | 178 | 424 | 232 | 65 | 13 | 25 | 18 | 1662 | 2771 |
| TOT PCT | 3.5 | .3 | 1.7 | 6.4 | 15.3 | 8.4 | 2.3 | .5 | .9 | .6 | 60.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | 1.3 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| * OR >9000 | .9 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| * OR >3500 | 1.9 | 3.8 | 4.2 | 4.3 | 4.3 | 4.4 | 4.4 | 4.4 |
| * OR >2000 | 6.3 | 11.0 | 12.3 | 12.6 | 12.6 | 12.7 | 12.7 | 12.7 |
| * OR >1000 | 14.2 | 22.0 | 26.0 | 27.7 | 27.9 | 28.0 | 28.0 | 28.0 |
| * OR >600 | 16.7 | 26.0 | 31.2 | 33.8 | 34.3 | 34.4 | 34.4 | 34.4 |
| * OR >300 | 17.3 | 27.0 | 32.6 | 35.4 | 36.0 | 36.1 | 36.2 | 36.2 |
| * OR >150 | 17.3 | 27.2 | 32.8 | 35.6 | 36.2 | 36.4 | 36.5 | 36.5 |
| * OR > 0 | 17.5 | 27.5 | 33.2 | 36.4 | 37.8 | 38.3 | 39.7 | 40.0 |
| TOTAL | 486 | 764 | 924 | 1013 | 1051 | 1064 | 1105 | 1112 |

TOTAL NUMBER OF OBS: 2781

PCT FREQ NH <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 32.9 | 7.9 | 8.5 | 5.1 | 4.9 | 4.3 | 6.4 | 5.0 | 21.8 | 3.1 | 2903 |

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT MUGU NW
34.0N 120.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | * | |
| <1/2 | NO PCP | .2 | .1 | .1 | .2 | .2 | .1 | .3 | .6 | .0 | .2 | 2.0 | |
| | TOT % | .2 | .1 | .1 | .2 | .2 | .1 | .3 | .6 | .0 | .2 | 2.1 | |
| | PCP | .0 | .0 | .0 | * | * | * | .1 | * | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .1 | * | .2 | .2 | .2 | .2 | .2 | .3 | .0 | .1 | 1.5 | |
| | TOT % | .1 | * | .2 | .2 | .2 | .2 | .3 | .3 | .0 | .1 | 1.6 | |
| | PCP | .0 | * | * | * | * | .1 | .1 | .1 | .0 | * | .4 | |
| 1<2 | NO PCP | .1 | * | .1 | .2 | .2 | .3 | .6 | .5 | .0 | .3 | 2.3 | |
| | TOT % | .1 | .1 | .1 | .3 | .2 | .4 | .7 | .6 | .0 | .3 | 2.7 | |
| | PCP | .1 | .1 | .1 | .2 | .1 | * | * | .1 | .0 | * | .8 | |
| 2<5 | NO PCP | .4 | .3 | .4 | .5 | .5 | .8 | 2.0 | 1.5 | .0 | .5 | 6.8 | |
| | TOT % | .5 | .4 | .5 | .7 | .6 | .8 | 2.0 | 1.6 | .0 | .5 | 7.7 | |
| | PCP | .1 | * | .1 | .2 | .2 | * | .2 | .2 | .0 | .1 | 1.1 | |
| 5<10 | NO PCP | 2.5 | 1.1 | .9 | 1.1 | 1.5 | 1.4 | 6.8 | 8.7 | .0 | 1.1 | 25.0 | |
| | TOT % | 2.6 | 1.1 | 1.0 | 1.3 | 1.6 | 1.5 | 6.9 | 8.8 | .0 | 1.1 | 26.1 | |
| | PCP | * | .0 | * | .1 | .1 | .1 | .1 | .1 | .0 | .0 | .5 | |
| 10+ | NO PCP | 11.1 | 1.5 | .8 | 1.5 | 2.6 | 2.4 | 11.1 | 26.5 | .0 | 1.9 | 59.3 | |
| | TOT % | 11.1 | 1.5 | .9 | 1.6 | 2.7 | 2.5 | 11.2 | 26.6 | .0 | 1.9 | 59.8 | |
| | TOT OBS | | | | | | | | | | | | 4637 |
| | TOT PCT | 14.6 | 3.1 | 2.8 | 4.2 | 5.5 | 5.6 | 21.5 | 38.6 | .0 | 4.2 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | .1 | .1 | .1 | * | .1 | .2 | .0 | .2 | .7 | |
| <1/2 | 4-10 | .1 | .1 | * | .2 | .1 | .1 | .2 | .5 | .0 | | 1.3 | |
| | 11-21 | .1 | .0 | .0 | * | .0 | * | * | .3 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | |
| | TOT % | .2 | .1 | .1 | .2 | .2 | .2 | .3 | .9 | .0 | .2 | 2.5 | |
| | 0-3 | * | * | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .1 | .6 | |
| 1/2<1 | 4-10 | .1 | .0 | .1 | .1 | * | .1 | .2 | .1 | .0 | | .6 | |
| | 11-21 | * | .0 | * | * | * | * | .1 | .1 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .1 | * | .2 | .2 | .2 | .2 | .3 | .4 | .0 | .1 | 1.6 | |
| | 0-3 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .3 | 1.0 | |
| 1<2 | 4-10 | * | * | .1 | .1 | .1 | .2 | .5 | .4 | .0 | | 1.4 | |
| | 11-21 | * | .0 | .0 | * | * | * | .1 | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | | * | |
| | TOT % | .1 | .1 | .1 | .3 | .2 | .3 | .8 | .7 | .0 | .3 | 2.8 | |
| | 0-3 | .2 | .2 | .3 | .3 | .2 | .3 | .3 | .3 | .0 | .6 | 2.7 | |
| 2<5 | 4-10 | .2 | .2 | .2 | .3 | .2 | .4 | 1.2 | .9 | .0 | | 3.6 | |
| | 11-21 | .1 | .0 | .1 | .1 | .1 | .1 | .4 | .5 | .0 | | 1.4 | |
| | 22+ | .1 | .0 | .0 | * | * | .0 | * | .1 | .0 | | .3 | |
| | TOT % | .6 | .4 | .5 | .7 | .6 | .8 | 2.0 | 1.9 | .0 | .6 | 8.0 | |
| | 0-3 | .3 | .5 | .4 | .3 | .4 | .3 | .8 | .6 | .0 | 1.1 | 4.7 | |
| 5<10 | 4-10 | .7 | .5 | .5 | .7 | .8 | .9 | 3.4 | 2.8 | .0 | | 10.4 | |
| | 11-21 | 1.0 | .1 | .1 | .2 | .3 | .2 | 2.1 | 3.5 | .0 | | 7.4 | |
| | 22+ | .6 | * | * | * | .1 | * | .2 | 1.8 | .0 | | 2.8 | |
| | TOT % | 2.6 | 1.1 | 1.0 | 1.3 | 1.6 | 1.4 | 6.6 | 8.7 | .0 | 1.1 | 25.3 | |
| | 0-3 | .6 | .3 | .3 | .2 | .5 | .5 | 1.0 | .8 | .0 | 2.0 | 6.2 | |
| 10+ | 4-10 | 2.4 | .6 | .4 | 1.0 | 1.3 | 1.4 | 4.7 | 6.1 | .0 | | 18.0 | |
| | 11-21 | 5.2 | .3 | .1 | .3 | .7 | .4 | 4.4 | 13.9 | .0 | | 25.3 | |
| | 22+ | 2.7 | .1 | .1 | .1 | .1 | * | 1.0 | 6.2 | .0 | | 10.4 | |
| | TOT % | 10.9 | 1.4 | .9 | 1.6 | 2.6 | 2.4 | 11.1 | 26.9 | .0 | 2.0 | 59.8 | |
| | TOT OBS | | | | | | | | | | | | 4966 |
| | TOT PCT | 14.5 | 3.0 | 2.8 | 4.2 | 5.3 | 5.3 | 21.1 | 39.5 | .0 | 4.3 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT MUGU NW
34.0N 120.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.4 | .3 | 1.6 | 7.0 | 13.7 | 7.8 | 2.0 | .1 | .9 | .3 | 36.0 | 64.0 | 703 |
| 06&09 | 3.1 | .3 | 1.3 | 4.7 | 14.4 | 7.0 | 1.7 | .6 | 1.0 | .4 | 34.5 | 65.5 | 687 |
| 12&15 | 6.0 | .2 | 1.7 | 6.4 | 15.1 | 9.9 | 2.4 | .5 | 1.0 | .8 | 43.9 | 56.1 | 629 |
| 18&21 | 2.8 | .4 | 2.1 | 7.2 | 16.8 | 8.3 | 2.9 | .6 | .7 | 1.0 | 42.6 | 57.4 | 823 |
| TOT | 99 | 8 | 48 | 180 | 428 | 233 | 65 | 13 | 25 | 18 | 1117 | 1725 | 2842 |
| PCT | 3.5 | .3 | 1.7 | 6.3 | 15.1 | 8.2 | 2.3 | .5 | .9 | .6 | 39.3 | 60.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | .9 | 1.8 | 2.8 | 8.1 | 25.1 | 61.4 | 1196 |
| 06&09 | 2.4 | 1.9 | 2.7 | 6.7 | 23.6 | 62.6 | 995 |
| 12&15 | 4.1 | 2.0 | 2.9 | 7.0 | 24.7 | 59.4 | 1175 |
| 18&21 | 2.7 | 1.0 | 2.9 | 9.7 | 26.9 | 56.8 | 1638 |
| TOT | 127 | 80 | 141 | 405 | 1265 | 2986 | 5004 |
| PCT | 2.5 | 1.6 | 2.8 | 8.1 | 25.3 | 59.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.5 | 5.6 | 21.0 | 19.9 | 59.1 | 680 |
| 06&09 | 3.1 | 5.3 | 18.3 | 19.9 | 61.8 | 673 |
| 12&15 | 6.1 | 9.5 | 23.1 | 23.4 | 53.5 | 619 |
| 18&21 | 2.7 | 6.1 | 21.3 | 24.6 | 54.1 | 809 |
| TOT | 98 | 182 | 581 | 613 | 1587 | 2781 |
| PCT | 3.5 | 6.5 | 20.9 | 22.0 | 57.1 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | 2 | .1 |
| 70/74 | .0 | * | .0 | .1 | .2 | * | .0 | * | 12 | .4 |
| 65/69 | .1 | * | .2 | .7 | 1.2 | 1.1 | .4 | .1 | 122 | 3.8 |
| 60/64 | * | .1 | * | 1.1 | 4.2 | 7.7 | 3.1 | .6 | 537 | 16.9 |
| 55/59 | * | .0 | .2 | 1.0 | 3.6 | 12.7 | 19.7 | 8.5 | 1451 | 45.7 |
| 50/54 | .0 | .0 | * | .3 | 2.8 | 5.6 | 15.4 | 7.7 | 1009 | 31.7 |
| 45/49 | .0 | .0 | * | .1 | .1 | .3 | .6 | .4 | 43 | 1.4 |
| 40/44 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | 2 | .1 |
| TOTAL | 5 | 5 | 17 | 106 | 385 | 868 | 1242 | 550 | 3178 | 100.0 |
| PCT | .2 | .2 | .5 | 3.3 | 12.1 | 27.3 | 39.1 | 17.3 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 |
| * | .0 | * | * | .1 | .1 | .1 | * | .0 | .1 |
| .2 | .1 | .1 | .1 | .7 | .4 | 1.4 | .5 | .0 | .3 |
| 1.0 | .2 | .4 | 1.0 | 1.4 | 1.9 | 6.6 | 3.8 | .0 | .7 |
| 7.5 | 1.1 | 1.1 | 1.9 | 2.5 | 2.1 | 9.9 | 17.2 | .0 | 2.2 |
| 6.0 | 1.0 | .8 | .9 | 1.0 | .9 | 3.9 | 16.4 | .0 | .8 |
| .2 | .4 | .1 | .0 | * | .0 | .1 | .6 | .0 | * |
| .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 15.0 | 2.8 | 2.5 | 4.0 | 5.7 | 5.4 | 22.0 | 38.6 | .0 | 4.1 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 76 | 68 | 64 | 57 | 52 | 51 | 47 | 57.6 | 1221 |
| 06&09 | 72 | 64 | 60 | 55 | 51 | 48 | 45 | 54.8 | 1008 |
| 12&15 | 73 | 62 | 59 | 54 | 50 | 46 | 42 | 54.4 | 1210 |
| 18&21 | 82 | 69 | 66 | 58 | 52 | 50 | 41 | 58.2 | 1672 |
| TOT | 82 | 68 | 64 | 56 | 51 | 48 | 41 | 56.5 | 5111 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .2 | 3.7 | 14.8 | 29.7 | 36.6 | 15.0 | 79 | 846 |
| 06&09 | .0 | 2.3 | 5.7 | 18.5 | 49.1 | 24.4 | 84 | 615 |
| 12&15 | .0 | 2.7 | 6.2 | 19.5 | 45.4 | 26.2 | 84 | 692 |
| 18&21 | .3 | 6.1 | 17.5 | 35.8 | 30.8 | 9.5 | 77 | 1055 |
| TOT | 5 | 128 | 388 | 878 | 1251 | 558 | 80 | 3208 |

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT HUGU NW
34.6N 120.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | .1 | .1 | .1 | .0 | 9 | .0 | .3 |
| 11/13 | .0 | .0 | * | * | .2 | .3 | .1 | * | .0 | 20 | .0 | .7 |
| 9/10 | .0 | .0 | .1 | .2 | .5 | .4 | .1 | .0 | .0 | 38 | .0 | 1.3 |
| 7/8 | .0 | .0 | .2 | .7 | 1.0 | .6 | * | .0 | .0 | 77 | .1 | 2.4 |
| 6 | .0 | .0 | .4 | .8 | .9 | .1 | .0 | .0 | .0 | 65 | .1 | 2.1 |
| 5 | .0 | .0 | .7 | 1.5 | 1.1 | .1 | .0 | .0 | .0 | 101 | .1 | 3.3 |
| 4 | .0 | .1 | 1.3 | 3.3 | 1.5 | * | .0 | .0 | .0 | 186 | .4 | 5.8 |
| 3 | .0 | .2 | 1.7 | 3.0 | .7 | * | .0 | .0 | .0 | 168 | .4 | 5.1 |
| 2 | .0 | .9 | 4.3 | 4.2 | .7 | * | .0 | .0 | .0 | 308 | 1.0 | 9.3 |
| 1 | .0 | .7 | 4.6 | 2.9 | .4 | * | .0 | .0 | .0 | 259 | .5 | 8.1 |
| 0 | * | 2.8 | 10.2 | 4.1 | .5 | * | .0 | .0 | .0 | 529 | 1.0 | 16.6 |
| -1 | * | 1.8 | 6.9 | 2.2 | .1 | .0 | * | .0 | .0 | 333 | .8 | 10.3 |
| -2 | .1 | 3.6 | 7.4 | 1.5 | .1 | .0 | .0 | .0 | .0 | 384 | .9 | 11.8 |
| -3 | * | 1.9 | 3.5 | .3 | * | .0 | .0 | .0 | .0 | 175 | .2 | 5.6 |
| -4 | .2 | 2.4 | 2.8 | .3 | .1 | .0 | .0 | .0 | .0 | 175 | .3 | 5.5 |
| -5 | .1 | 1.0 | .9 | .1 | * | .0 | .0 | .0 | .0 | 65 | * | 2.1 |
| -6 | * | .7 | .8 | .1 | .0 | .0 | .0 | .0 | .0 | 49 | * | 1.6 |
| -7/-8 | .1 | .6 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | 34 | .0 | 1.1 |
| -9/-10 | .0 | .4 | .3 | * | .0 | .0 | .0 | .0 | .0 | 24 | .0 | .8 |
| -11/-13 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 8 | .0 | .3 |
| -14/-16 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -17/-19 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | .1 |
| TOTAL | 19 | | 1405 | | 238 | | 12 | | 1 | | 172 | 2841 |
| | | 521 | | 764 | | 50 | | 3 | | 3013 | | |
| PCT | .6 | 17.3 | 46.6 | 25.4 | 7.9 | 1.7 | .4 | .1 | * | 100.0 | 5.7 | 94.3 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .6 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 1.6 | 1.3 | .0 | .0 | .0 | 2.9 |
| 3-4 | .0 | 1.6 | 4.3 | .9 | .0 | .0 | 6.8 |
| 5-6 | .0 | .7 | 3.0 | .9 | .1 | .0 | 4.7 |
| 7 | .0 | .2 | 1.8 | 1.9 | .0 | .0 | 3.9 |
| 8-9 | .0 | .0 | .7 | .9 | .0 | .0 | 1.6 |
| 10-11 | .0 | .0 | .1 | .5 | .2 | .0 | .8 |
| 12 | .0 | .0 | .0 | .4 | .1 | .0 | .5 |
| 13-16 | .0 | .0 | .0 | .1 | .1 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 4.7 | 11.1 | 5.5 | .6 | .0 | 22.1 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | * | .0 | .3 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .3 | .2 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .3 | .8 | .1 | .0 | .0 | 1.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .0 | .1 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .1 | .1 | .0 | .0 | .5 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .2 | 1.0 | .1 | .0 | .0 | .0 | 1.3 |
| 3-4 | .1 | .2 | .7 | .3 | .0 | .0 | 1.3 |
| 5-6 | .0 | * | * | .1 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | * | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.8 | .8 | .6 | .0 | .0 | 3.5 |

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0034 POINT MUGU NW
34.6N 120.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .2 | .9 | .1 | .0 | .0 | .0 | 1.2 |
| 3-4 | .0 | .3 | 1.1 | .0 | .0 | .0 | 1.4 |
| 5-6 | .0 | .5 | .5 | .1 | .0 | .0 | 1.1 |
| 7 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.2 | 1.7 | .3 | .0 | .0 | 4.7 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .0 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .3 | 1.2 | .1 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .2 | .7 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | .1 | .5 | * | .0 | .0 | .6 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.6 | 1.2 | * | .0 | .0 | 3.2 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .6 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .4 | 1.3 | 1.0 | .0 | .0 | .0 | 2.8 |
| 3-4 | .1 | 1.0 | 2.6 | .3 | .0 | .0 | 3.9 |
| 5-6 | .0 | .3 | 1.3 | .9 | .0 | .0 | 2.5 |
| 7 | .0 | .0 | .8 | .2 | .1 | .0 | 1.1 |
| 8-9 | .0 | .0 | .6 | .1 | .0 | .0 | .7 |
| 10-11 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .3 | .2 | .0 | .0 | .5 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 3.2 | 6.8 | 1.8 | .1 | .0 | 12.8 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | .0 | .0 | .0 | .0 | .9 | |
| 1-2 | .3 | 4.8 | 3.0 | .0 | .0 | .0 | 8.1 | |
| 3-4 | .0 | 1.8 | 7.9 | 3.0 | .0 | .0 | 12.8 | |
| 5-6 | .0 | 1.3 | 5.2 | 2.9 | .1 | .0 | 9.6 | |
| 7 | .0 | .2 | 3.5 | 4.1 | .4 | .0 | 8.2 | |
| 8-9 | .0 | .0 | 2.7 | 2.1 | .1 | .0 | 4.9 | |
| 10-11 | .0 | .1 | .4 | 1.0 | * | .0 | 1.6 | |
| 12 | .0 | .1 | .4 | .7 | * | .0 | 1.2 | |
| 13-16 | .0 | .0 | .1 | .5 | * | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .1 | .5 | .0 | .7 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .4 | 9.2 | 23.2 | 14.4 | 1.3 | .0 | 48.6 | 96.9 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.7 | 3.0 | .0 | .0 | .0 | .0 | 7.7 | |
| 1-2 | 1.6 | 11.0 | 5.9 | .0 | .0 | .0 | 18.4 | |
| 3-4 | .3 | 5.6 | 17.2 | 4.6 | .0 | .0 | 27.6 | |
| 5-6 | .0 | 2.9 | 10.8 | 5.0 | .3 | .0 | 18.9 | |
| 7 | .0 | .4 | 6.0 | 6.4 | .5 | .0 | 13.3 | |
| 8-9 | .0 | .0 | 3.9 | 3.3 | .1 | .0 | 7.3 | |
| 10-11 | .0 | .1 | 1.0 | 1.6 | .3 | .0 | 3.0 | |
| 12 | .0 | .1 | .4 | 1.0 | .1 | .0 | 1.7 | |
| 13-16 | .0 | .0 | .4 | .8 | .1 | .0 | 1.3 | |
| 17-19 | .0 | .0 | .0 | .3 | .5 | .0 | .8 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 767 |
| TOT PCT | 6.5 | 23.1 | 45.6 | 22.8 | 2.0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 10.5 | 13.3 | 7.5 | 3.6 | 1.5 | .7 | .7 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 622 | 4 |
| 6-7 | .1 | 1.0 | 6.7 | 7.3 | 5.6 | 3.7 | 2.0 | .8 | .6 | .6 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 448 | 6 |
| 8-9 | .1 | .3 | 1.8 | 2.8 | 3.6 | 2.8 | 2.8 | 1.1 | .9 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 254 | 8 |
| 10-11 | .0 | .5 | .4 | 1.0 | 1.4 | 1.3 | 1.0 | .7 | 1.1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 117 | 8 |
| 12-13 | .0 | .0 | .1 | .1 | .1 | .4 | .1 | .3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 23 | 9 |
| >13 | .0 | .0 | .0 | .1 | .4 | .0 | .3 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 24 | 10 |
| INDET | 3.0 | .9 | .8 | .2 | .3 | .3 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 89 | 2 |
| TOTAL | 71 | 207 | 364 | 300 | 234 | 158 | 108 | 68 | 51 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1577 | 6 |
| PCT | 4.5 | 13.1 | 23.1 | 19.0 | 14.8 | 10.0 | 6.8 | 4.3 | 3.2 | .9 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .4 | .7 | .0 | .0 | .0 | .0 | 1.4 | .3 | .2 | 8.7 | .0 | 3.5 | | .1 | 85.8 |
| NE | 1.1 | .5 | .3 | .0 | .0 | .0 | .0 | 2.1 | .5 | .0 | 7.2 | .0 | 12.8 | | .0 | 77.3 |
| E | .6 | .6 | 1.8 | .0 | .0 | .0 | .0 | 3.0 | 1.2 | .0 | 24.8 | .0 | 12.1 | | .0 | 58.9 |
| SE | .4 | .0 | 2.9 | .0 | .0 | .0 | .0 | 2.9 | .8 | .0 | 28.9 | .0 | 16.7 | | .0 | 50.6 |
| S | .9 | .6 | .9 | .0 | .0 | .0 | .0 | 2.0 | .0 | .0 | 27.0 | .6 | 17.9 | | .0 | 52.6 |
| SW | 1.0 | .0 | 2.3 | .0 | .0 | .0 | .0 | 3.1 | .5 | .0 | 17.8 | .4 | 20.3 | | .0 | 57.9 |
| W | .4 | .2 | .8 | .0 | .0 | .0 | .1 | 1.3 | .4 | .2 | 10.6 | .0 | 15.1 | | .2 | 72.2 |
| NW | .3 | .5 | .9 | .0 | .0 | .0 | .1 | 1.6 | .4 | .1 | 7.0 | .1 | 4.4 | | .1 | 86.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .7 | .0 | 2.7 | .0 | .0 | .0 | .0 | 3.4 | .3 | .0 | 26.1 | .0 | 12.7 | | .0 | 57.4 |
| TOT PCT | .4 | .3 | 1.1 | .0 | .0 | .0 | * | 1.8 | .4 | .1 | 11.5 | .1 | 9.3 | | .1 | 76.7 |
| TOT OBS: | 4549 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .2 | .3 | .7 | .0 | .0 | .0 | .0 | 1.0 | .3 | .0 | 9.0 | .0 | 11.0 | | .1 | 78.6 |
| 06&09 | .8 | .6 | 1.3 | .0 | .0 | .0 | .1 | 2.6 | .3 | .2 | 9.5 | .2 | 9.2 | | .1 | 81.8 |
| 12&15 | .6 | .5 | 2.1 | .0 | .0 | .0 | .0 | 3.1 | .8 | .2 | 13.2 | .1 | 6.3 | | .1 | 76.2 |
| 18&21 | .2 | .1 | .5 | .0 | .0 | .0 | .1 | .8 | .3 | .0 | 13.9 | .1 | 12.8 | | .1 | 72.0 |
| TOT PCT | .4 | .3 | 1.1 | .0 | .0 | .0 | * | 1.8 | .4 | .1 | 11.7 | .1 | 9.3 | | .1 | 76.6 |
| TOT OBS: | 4584 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.1 | 3.5 | 6.0 | 2.8 | .1 | .0 | | 13.5 | 14.9 | 13.6 | 7.1 | 15.1 | 11.8 | 16.5 | 16.3 | 13.4 | 11.6 |
| NE | .8 | .8 | .3 | * | .0 | .0 | | 1.9 | 5.9 | .3 | .4 | 1.5 | 3.3 | 4.7 | 3.1 | 1.8 | .6 |
| E | .8 | .8 | .2 | * | .0 | .0 | | 1.8 | 5.7 | .3 | .4 | .9 | 3.6 | 3.6 | 4.2 | 1.6 | .5 |
| SE | .8 | 1.5 | .3 | * | .0 | .0 | | 2.6 | 6.1 | 1.2 | 1.3 | 1.8 | 3.9 | 2.7 | 4.5 | 3.7 | 2.0 |
| S | 1.6 | 1.7 | .4 | * | .0 | .0 | | 3.7 | 5.3 | 3.4 | 1.8 | 2.9 | 2.2 | 2.7 | 2.2 | 6.0 | 5.4 |
| SW | 1.6 | 3.2 | .7 | * | .0 | .0 | | 5.6 | 6.3 | 7.6 | 4.4 | 3.6 | 3.8 | 3.1 | 3.0 | 7.4 | 8.3 |
| W | 2.7 | 11.9 | 6.2 | 1.1 | .1 | .0 | | 22.0 | 9.7 | 28.2 | 32.6 | 18.7 | 19.1 | 12.8 | 15.1 | 23.6 | 25.8 |
| NW | 1.4 | 12.0 | 20.3 | 8.2 | .8 | .0 | | 42.8 | 15.4 | 43.7 | 48.9 | 48.7 | 45.1 | 44.4 | 39.3 | 34.7 | 43.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.2 | | | | | | | 6.2 | .0 | 1.7 | 2.9 | 6.7 | 7.3 | 9.4 | 12.3 | 7.8 | 2.6 |
| TOT OBS | 857 | 1784 | 1737 | 617 | 50 | 0 | 5045 | | 11.6 | 844 | 340 | 595 | 412 | 681 | 553 | 858 | 762 |
| TOT PCT | 17.0 | 35.4 | 34.4 | 12.2 | 1.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.3 | 5.5 | 4.8 | .9 | .0 | | 13.5 | 14.9 | 11.7 | 13.7 | 16.4 | 12.6 |
| NE | 1.2 | .6 | .1 | .0 | .0 | | 1.9 | 5.9 | .4 | 2.2 | 4.0 | 1.3 |
| E | 1.2 | .5 | .1 | .0 | .0 | | 1.8 | 5.7 | .3 | 2.0 | 3.9 | 1.1 |
| SE | 1.6 | .9 | .1 | * | .0 | | 2.6 | 6.1 | 1.3 | 2.7 | 3.5 | 2.9 |
| S | 2.6 | 1.1 | * | * | .0 | | 3.7 | 5.3 | 3.0 | 2.6 | 2.5 | 5.7 |
| SW | 3.4 | 2.0 | .2 | * | .0 | | 5.6 | 6.3 | 6.7 | 3.7 | 3.1 | 7.8 |
| W | 7.5 | 11.6 | 2.6 | .3 | .0 | | 22.0 | 9.7 | 29.3 | 18.9 | 13.9 | 24.7 |
| NW | 5.4 | 19.3 | 15.0 | 3.0 | .1 | | 42.8 | 15.4 | 45.2 | 47.2 | 42.1 | 38.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.2 | | | | | | 6.2 | .0 | 2.0 | 7.0 | 10.7 | 5.4 |
| TOT OBS | 1579 | 2092 | 1153 | 214 | 7 | 5045 | | 11.6 | 1184 | 1007 | 1234 | 1620 |
| TOT PCT | 31.3 | 41.5 | 22.9 | 4.2 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.0N 121.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | 1-3 | 4-10 | WIND SPEED (KNOTS) 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 7.2 | 35.7 | 37.2 | 16.2 | 1.6 | .0 | 13.3 | 100.0 | 1184 |
| 06&09 | 7.0 | 8.9 | 31.4 | 37.7 | 13.7 | 1.3 | .0 | 12.4 | 100.0 | 1007 |
| 12&15 | 10.7 | 14.2 | 31.7 | 32.3 | 10.5 | .6 | .0 | 10.6 | 100.0 | 1234 |
| 18&21 | 5.4 | 12.0 | 40.4 | 31.9 | 9.8 | .6 | .0 | 10.7 | 100.0 | 1620 |
| TOT | 313 | 544 | 1784 | 1737 | 617 | 30 | 0 | 11.6 | | 5045 |
| PCT | 6.2 | 10.8 | 35.4 | 34.4 | 12.2 | 1.0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 4.6 | 1.4 | 3.3 | 5.0 | | 4.7 |
| NE | 1.7 | .1 | .2 | .6 | | 2.5 |
| E | 1.0 | .2 | .3 | .8 | | 3.9 |
| SE | .6 | .2 | .6 | 1.5 | | 5.6 |
| S | 1.0 | .2 | .7 | 1.6 | | 5.4 |
| SW | 2.0 | .5 | 1.0 | 2.0 | | 4.6 |
| W | 11.9 | 1.3 | 3.6 | 5.4 | | 3.4 |
| NW | 16.2 | 3.9 | 7.2 | 12.4 | | 4.2 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 3.7 | .4 | .3 | 2.8 | | 3.8 |
| TOT OBS | 1192 | 226 | 479 | 891 | 2788 | 4.1 |
| TOT PCT | 42.8 | 8.1 | 17.2 | 32.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | * | .4 | 1.4 | 3.0 | 1.5 | .3 | .1 | .1 | .0 | 6.8 | |
| NE | .0 | .0 | * | .1 | .4 | * | * | .0 | * | .0 | 2.0 | |
| E | .1 | .0 | * | .2 | .5 | * | * | .0 | .0 | .0 | 1.3 | |
| SE | .3 | .0 | * | .5 | .4 | .4 | .2 | * | * | .1 | 1.0 | |
| S | .3 | .0 | .1 | .3 | .7 | .5 | .2 | * | .1 | * | 1.3 | |
| SW | .1 | .0 | .3 | .6 | 1.1 | .6 | * | .0 | .0 | * | 2.8 | |
| W | .7 | .0 | .3 | 1.3 | 3.0 | 1.6 | .3 | .1 | .1 | .1 | 14.7 | |
| NW | 1.3 | .2 | .8 | 3.1 | 7.2 | 3.3 | 1.0 | .2 | .2 | .1 | 22.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .8 | .0 | .3 | .5 | .6 | .6 | .1 | * | .0 | .1 | 4.2 | |
| TOT OBS | 120 | 6 | 61 | 223 | 472 | 239 | 56 | 13 | 11 | 12 | 1575 | 2788 |
| TOT PCT | 4.3 | .2 | 2.2 | 8.0 | 16.9 | 8.6 | 2.0 | .5 | .4 | .4 | 56.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) = OR >10 | = OR >5 | = OR >2 | = OR >1 | = OR >1/2 | = OR >1/4 | = OR >50YD | = OR >0 |
|---|---|---|---|---|---|---|---|---|
| = OR >6500 | .6 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| = OR >5000 | .9 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| = OR >3500 | 2.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| = OR >2000 | 7.1 | 11.1 | 11.8 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| = OR >1000 | 17.0 | 25.0 | 27.5 | 28.6 | 28.8 | 28.8 | 28.8 | 28.8 |
| = OR >600 | 20.4 | 30.0 | 34.0 | 36.3 | 36.8 | 36.8 | 36.8 | 36.8 |
| = OR >300 | 21.0 | 31.5 | 35.8 | 38.3 | 38.9 | 38.9 | 38.9 | 38.9 |
| = OR >150 | 21.0 | 31.6 | 36.0 | 38.5 | 39.0 | 39.1 | 39.1 | 39.1 |
| = OR > 0 | 21.0 | 31.9 | 36.6 | 39.8 | 41.6 | 42.5 | 43.3 | 43.4 |
| TOTAL | 589 | 893 | 1026 | 1113 | 1166 | 1190 | 1212 | 1215 |

TOTAL NUMBER OF OBS: 2800

PCT FREQ NH <5/8: 56.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 33.2 | 7.3 | 7.4 | 4.5 | 3.2 | 2.7 | 5.8 | 6.4 | 25.6 | 3.9 | 2903 |

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

TABLE 8

AREA 0034 POINT MUGU NW
34.0N 121.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | .0 | * | * | .0 | .0 | .0 | * | .0 | .0 | .1 | |
| | NO PCP | .2 | .0 | .1 | .1 | .3 | .1 | .4 | .6 | .0 | .4 | 2.3 | |
| | TOT % | .2 | .0 | .1 | .1 | .3 | .1 | .4 | .6 | .0 | .4 | 2.4 | |
| 1/2<1 | PCP | * | * | * | * | .0 | .0 | * | * | .0 | * | .2 | |
| | NO PCP | .2 | .0 | * | .1 | .2 | .1 | .2 | .4 | .0 | .2 | 1.6 | |
| | TOT % | .2 | * | .1 | .2 | .2 | .1 | .2 | .5 | .0 | .2 | 1.7 | |
| 1<2 | PCP | .0 | .0 | .0 | * | * | * | * | * | .0 | * | .1 | |
| | NO PCP | .2 | .1 | .2 | .2 | .3 | .4 | .7 | .5 | .0 | .3 | 2.9 | |
| | TOT % | .2 | .1 | .2 | .3 | .3 | .5 | .8 | .5 | .0 | .3 | 3.1 | |
| 2<5 | PCP | * | * | .0 | * | * | * | * | .1 | .0 | * | .3 | |
| | NO PCP | .7 | .2 | .2 | .3 | .5 | .7 | 2.2 | 1.4 | .0 | .9 | 7.2 | |
| | TOT % | .7 | .2 | .2 | .3 | .5 | .8 | 2.2 | 1.5 | .0 | 1.0 | 7.4 | |
| 5<10 | PCP | .1 | * | * | * | * | .1 | .1 | .4 | .0 | .1 | .9 | |
| | NO PCP | 3.3 | .6 | .5 | .8 | 1.1 | 1.9 | 7.6 | 10.5 | .0 | 2.2 | 28.5 | |
| | TOT % | 3.5 | .6 | .5 | .8 | 1.1 | 2.0 | 7.8 | 10.9 | .0 | 2.3 | 29.5 | |
| 10+ | PCP | .0 | .0 | .0 | .0 | * | .0 | .1 | .1 | .0 | * | .3 | |
| | NO PCP | 9.0 | 1.2 | .7 | .9 | 1.4 | 2.3 | 10.9 | 27.3 | .0 | 2.1 | 55.7 | |
| | TOT % | 9.0 | 1.2 | .7 | .9 | 1.4 | 2.3 | 11.0 | 27.4 | .0 | 2.1 | 56.0 | |
| | TOT OBS | | | | | | | | | | | | |
| | TOT PCT | 13.8 | 2.0 | 1.8 | 2.6 | 3.9 | 5.8 | 22.3 | 41.4 | .0 | 6.4 | 100.0 | 4543 |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | .0 | * | .1 | .2 | .1 | .1 | .1 | .0 | .4 | .9 | |
| | 4-10 | .1 | .0 | * | * | .1 | .1 | .2 | .3 | .0 | | .9 | |
| | 11-21 | .1 | .0 | * | * | * | .0 | .1 | .3 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | TOT % | .2 | .0 | .1 | .1 | .3 | .1 | .4 | .8 | .0 | .4 | 2.5 | |
| 1/2<1 | 0-3 | * | * | .1 | .1 | .2 | .1 | .1 | .1 | .0 | .2 | .8 | |
| | 4-10 | * | .0 | .0 | .1 | .1 | * | .2 | .2 | .0 | | .6 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | | * | |
| | TOT % | .2 | * | .1 | .2 | .2 | .1 | .2 | .5 | .0 | .2 | 1.7 | |
| 1<2 | 0-3 | .1 | * | .1 | .1 | .2 | .3 | .1 | .1 | .0 | .3 | 1.3 | |
| | 4-10 | * | * | * | .2 | .1 | .1 | .6 | .3 | .0 | | 1.4 | |
| | 11-21 | .1 | * | .0 | * | * | .1 | .1 | .3 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .2 | .1 | .2 | .3 | .3 | .5 | .8 | .7 | .0 | .5 | 3.3 | |
| 2<5 | 0-3 | .2 | .2 | .1 | .2 | .2 | .3 | .6 | .2 | .0 | 1.0 | 3.1 | |
| | 4-10 | .3 | * | .1 | .1 | .2 | .4 | 1.4 | .7 | .0 | | 3.3 | |
| | 11-21 | .2 | .0 | .0 | * | * | * | .2 | .9 | .0 | | 1.4 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .3 | .0 | | .4 | |
| | TOT % | .8 | .2 | .3 | .3 | .5 | .8 | 2.3 | 2.1 | .0 | 1.0 | 8.2 | |
| 5<10 | 0-3 | .4 | .3 | .2 | .2 | .5 | .5 | 1.0 | .5 | .0 | 2.3 | 5.9 | |
| | 4-10 | .8 | .2 | .2 | .4 | .5 | 1.2 | 4.3 | 3.2 | .0 | | 10.9 | |
| | 11-21 | 1.4 | .1 | * | .1 | .1 | .1 | 1.9 | 4.9 | .0 | | 8.6 | |
| | 22+ | .7 | * | .0 | * | .0 | .0 | .2 | 2.1 | .0 | | 3.1 | |
| | TOT % | 3.3 | .6 | .5 | .8 | 1.1 | 1.9 | 7.4 | 10.7 | .0 | 2.3 | 28.6 | |
| 10+ | 0-3 | .4 | .3 | .2 | .2 | .3 | .3 | .8 | .5 | .0 | 2.1 | 5.1 | |
| | 4-10 | 2.2 | .5 | .3 | .7 | .8 | 1.4 | 5.3 | 7.1 | .0 | | 18.4 | |
| | 11-21 | 4.1 | .2 | .2 | .1 | .2 | .5 | 4.0 | 13.4 | .0 | | 22.7 | |
| | 22+ | 2.1 | * | * | * | * | * | .8 | 6.5 | .0 | | 9.6 | |
| | TOT % | 8.9 | 1.1 | .8 | 1.0 | 1.4 | 2.2 | 11.0 | 27.5 | .0 | 2.1 | 55.8 | |
| | TOT OBS | | | | | | | | | | | | |
| | TOT PCT | 13.6 | 1.9 | 1.8 | 2.7 | 3.7 | 5.6 | 22.1 | 42.2 | .0 | 6.3 | 100.0 | 4860 |

MAY

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.0 | .3 | 1.7 | 8.7 | 15.2 | 8.5 | 1.5 | .6 | .0 | .7 | 40.1 | 59.9 | 726 |
| 06&09 | 4.7 | .3 | 1.2 | 5.0 | 15.4 | 8.4 | 1.8 | .0 | .5 | .5 | 37.7 | 62.3 | 663 |
| 12&15 | 5.9 | .3 | 3.1 | 9.3 | 17.8 | 8.9 | 1.2 | .6 | .4 | .4 | 47.9 | 52.1 | 676 |
| 18&21 | 3.6 | .0 | 2.6 | 8.4 | 18.5 | 8.2 | 3.2 | .6 | .6 | .1 | 46.0 | 54.0 | 772 |
| TOT | 121 | 6 | 61 | 224 | 475 | 241 | 56 | 13 | 11 | 12 | 1220 | 1617 | 2837 |
| PCT | 4.3 | .2 | 2.2 | 7.9 | 16.7 | 8.5 | 2.0 | .5 | .4 | .4 | 43.0 | 57.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.4 | 1.7 | 2.2 | 8.4 | 28.3 | 58.0 | 1141 |
| 06&09 | 2.5 | 1.1 | 2.5 | 5.8 | 28.0 | 60.1 | 994 |
| 12&15 | 3.3 | 2.8 | 3.5 | 7.1 | 28.3 | 55.0 | 1193 |
| 18&21 | 2.8 | 1.1 | 4.6 | 10.5 | 29.1 | 51.9 | 1569 |
| TOT | 124 | 81 | 164 | 403 | 1395 | 2730 | 4897 |
| PCT | 2.5 | 1.7 | 3.3 | 8.2 | 28.5 | 55.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.1 | 5.6 | 20.3 | 23.7 | 56.0 | 713 |
| 06&09 | 4.6 | 6.4 | 17.4 | 24.1 | 58.5 | 656 |
| 12&15 | 5.9 | 10.5 | 24.5 | 25.4 | 50.2 | 666 |
| 18&21 | 3.7 | 6.7 | 21.7 | 26.7 | 51.6 | 765 |
| TOT | 119 | 203 | 588 | 700 | 1512 | 2800 |
| PCT | 4.3 | 7.3 | 21.0 | 25.0 | 54.0 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | 2 | .1 |
| 75/79 | .0 | .0 | .1 | .0 | * | .0 | .0 | .0 | 3 | .1 |
| 70/74 | * | .1 | .0 | .2 | .3 | .1 | .1 | * | 25 | .9 |
| 65/69 | .0 | .0 | .0 | .2 | 2.0 | 2.7 | .6 | .1 | 160 | 5.6 |
| 60/64 | .0 | .0 | .0 | .2 | 3.0 | 9.7 | 6.4 | 1.6 | 599 | 20.8 |
| 55/59 | .0 | .0 | * | .3 | 1.9 | 12.7 | 25.5 | 10.5 | 1467 | 51.0 |
| 50/54 | .0 | .0 | .0 | .0 | .7 | 2.9 | 10.8 | 6.8 | 612 | 21.3 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | 6 | .2 |
| TOTAL | 2 | 4 | 4 | 26 | 229 | 809 | 1249 | 551 | 2874 | 100.0 |
| PCT | .1 | .1 | .1 | .9 | 8.0 | 28.1 | 43.5 | 19.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| * | .1 | .1 | * | .2 | .1 | .2 | .1 | .0 | * |
| .3 | .1 | .1 | .2 | .9 | 1.3 | 1.5 | .9 | .0 | .2 |
| 1.9 | .4 | .3 | .8 | 1.3 | 2.3 | 7.2 | 5.0 | .0 | 1.6 |
| 7.7 | 1.1 | .7 | 1.1 | 1.4 | 2.2 | 10.6 | 23.3 | .0 | 3.0 |
| 4.3 | .6 | .4 | .2 | .4 | .5 | 2.4 | 11.0 | .0 | 1.5 |
| .1 | * | .0 | .0 | .0 | * | .0 | .1 | .0 | * |
| 14.3 | 2.2 | 1.6 | 2.4 | 4.3 | 6.4 | 21.9 | 40.5 | .0 | 6.4 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 69 | 66 | 58 | 54 | 51 | 45 | 58.9 | 1180 |
| 06&09 | 80 | 64 | 61 | 56 | 52 | 50 | 47 | 56.0 | 1012 |
| 12&15 | 76 | 64 | 61 | 55 | 51 | 49 | 46 | 55.4 | 1242 |
| 18&21 | 84 | 70 | 67 | 59 | 53 | 50 | 43 | 59.3 | 1625 |
| TOT | 84 | 69 | 65 | 57 | 52 | 50 | 43 | 57.6 | 5059 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.3 | 10.4 | 33.3 | 43.0 | 11.9 | 81 | 762 |
| 06&09 | .0 | .5 | 2.7 | 20.0 | 49.3 | 27.6 | 85 | 566 |
| 12&15 | .0 | 1.2 | 2.6 | 16.6 | 46.8 | 32.8 | 86 | 664 |
| 18&21 | .2 | 1.5 | 13.3 | 37.0 | 37.5 | 10.4 | 79 | 907 |
| TOT | 2 | 35 | 232 | 813 | 1258 | 559 | 82 | 2899 |

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * | .0 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | 3 | * | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .1 | * | 6 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | * | .1 | .2 | .4 | .1 | * | .0 | 27 | .0 | .9 |
| 9/10 | .0 | .0 | .0 | * | .3 | .8 | .4 | .3 | .0 | .0 | 56 | .1 | 1.7 |
| 7/8 | .0 | .0 | .0 | .2 | 1.0 | 1.3 | .6 | .2 | .0 | .0 | 96 | .2 | 3.0 |
| 6 | .0 | .0 | * | .3 | .6 | .5 | .2 | .1 | .0 | .0 | 53 | .1 | 1.6 |
| 5 | .0 | .0 | .0 | .7 | 1.7 | 1.7 | .4 | .0 | .0 | .0 | 137 | .5 | 4.0 |
| 4 | .0 | .0 | .1 | 1.1 | 3.4 | 2.4 | .2 | .0 | .0 | .0 | 219 | .6 | 6.6 |
| 3 | .0 | .0 | .1 | 1.4 | 2.5 | .6 | .1 | .0 | .0 | .0 | 140 | .4 | 4.3 |
| 2 | .0 | * | .6 | 5.0 | 5.3 | 1.7 | * | .0 | .0 | .0 | 381 | 1.1 | 11.5 |
| 1 | .0 | .0 | .3 | 4.1 | 3.7 | .4 | .1 | .0 | .0 | .0 | 257 | .7 | 7.8 |
| 0 | .0 | .2 | 1.3 | 8.4 | 6.5 | 1.2 | .3 | .0 | .0 | .0 | 537 | 1.7 | 16.0 |
| -1 | .0 | .0 | 1.0 | 5.4 | 3.2 | .2 | .0 | .0 | .0 | .0 | 294 | .7 | 9.0 |
| -2 | .0 | .1 | 1.7 | 7.3 | 2.7 | .2 | * | .0 | .0 | .0 | 361 | 1.1 | 10.9 |
| -3 | .0 | .0 | .7 | 3.4 | 1.0 | .1 | .0 | .0 | .0 | .0 | 156 | .4 | 4.8 |
| -4 | .0 | * | .8 | 2.2 | .9 | .2 | .0 | .0 | .0 | .0 | 124 | .4 | 3.7 |
| -5 | .0 | .1 | .7 | 1.6 | .5 | .1 | .0 | .0 | .0 | .0 | 87 | .3 | 2.6 |
| -6 | .0 | .0 | .4 | .7 | .2 | .0 | .0 | .0 | .0 | .0 | 38 | .1 | 1.1 |
| -7/-8 | .0 | * | .3 | .4 | .2 | * | .1 | .0 | .0 | .0 | 33 | .3 | .8 |
| -9/-10 | .0 | .0 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | 12 | .0 | .4 |
| -11/-13 | * | * | * | .1 | * | .0 | .0 | .0 | .0 | .0 | 8 | * | .2 |
| -14/-16 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | .1 |
| TOTAL | 1 | 13 | 242 | 1291 | 1022 | 346 | 87 | 20 | 5 | 1 | 3028 | 265 | 2763 |
| PCT | * | .4 | 8.0 | 42.6 | 33.8 | 11.4 | 2.9 | .7 | .2 | * | 100.0 | 8.8 | 91.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .4 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .2 | 1.8 | 1.5 | .0 | .0 | .0 | 3.5 |
| 3-4 | .1 | 1.9 | 3.8 | .6 | .0 | .0 | 6.5 |
| 5-6 | .0 | .2 | 2.9 | 1.2 | .1 | .0 | 4.4 |
| 7 | .0 | .1 | 1.5 | 1.2 | .0 | .0 | 2.8 |
| 8-9 | .0 | .1 | .4 | 1.2 | .1 | .0 | 1.8 |
| 10-11 | .0 | .0 | .1 | .8 | .0 | .0 | .9 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .3 |
| 17-19 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 4.6 | 10.5 | 5.4 | .3 | .0 | 21.4 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .2 | .6 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | .0 | .3 | * | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | * | .0 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .4 | * | .0 | .0 | 1.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .3 | .0 | .0 | .0 | .7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | * | .0 | .0 | .0 | .0 | * |
| 1-2 | .0 | .6 | .0 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .8 | .2 | * | .0 | .0 | 1.0 |

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0034 POINT MUGU NW
34.0N 121.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .2 | .3 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | .5 | .3 | .1 | .0 | .0 | 1.3 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .6 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | * | 1.0 | .5 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .5 | .3 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.0 | .8 | .1 | .0 | .0 | 3.4 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .6 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 3.1 | .9 | .0 | .0 | .0 | 4.2 |
| 3-4 | .0 | .9 | 1.7 | .7 | .0 | .0 | 3.4 |
| 5-6 | .0 | .1 | .3 | .4 | .0 | .0 | .9 |
| 7 | .0 | .0 | .5 | .0 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 4.8 | 3.6 | 1.3 | .1 | .0 | 10.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .3 | 2.2 | .1 | .0 | .0 | .0 | 2.6 | |
| 1-2 | .4 | 4.5 | 5.1 | .0 | .0 | .0 | 10.0 | |
| 3-4 | * | 4.0 | 10.5 | 1.8 | .0 | .0 | 16.4 | |
| 5-6 | .0 | .4 | 8.2 | 3.2 | .3 | .0 | 12.1 | |
| 7 | .1 | .1 | 5.1 | 3.1 | .5 | .0 | 9.0 | |
| 8-9 | .0 | .0 | 1.7 | 2.1 | .4 | .0 | 4.2 | |
| 10-11 | .0 | .0 | .8 | 1.4 | .1 | .0 | 2.4 | |
| 12 | .0 | .0 | .3 | .6 | .0 | .0 | .8 | |
| 13-16 | .0 | .0 | .1 | .3 | * | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .1 | .2 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .9 | 11.2 | 32.0 | 12.6 | 1.6 | .0 | 58.2 | 97.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.3 | 4.2 | .1 | .0 | .0 | .0 | 8.0 | |
| 1-2 | 1.4 | 12.2 | 8.6 | .0 | .0 | .0 | 22.2 | |
| 3-4 | .1 | 7.9 | 16.6 | 3.1 | .0 | .0 | 27.8 | |
| 5-6 | .0 | .8 | 11.3 | 4.9 | .4 | .0 | 17.4 | |
| 7 | .1 | .3 | 7.1 | 4.3 | .5 | .0 | 12.3 | |
| 8-9 | .0 | .1 | 2.1 | 3.5 | .5 | .0 | 6.2 | |
| 10-11 | .0 | .0 | 1.2 | 2.2 | .1 | .0 | 3.5 | |
| 12 | .0 | .0 | .4 | .6 | .0 | .0 | 1.0 | |
| 13-16 | .0 | .0 | .1 | .6 | .1 | .0 | .9 | |
| 17-19 | .0 | .0 | .3 | .1 | .3 | .0 | .6 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 5.4 | 25.4 | 47.7 | 19.5 | 1.9 | .0 | 100.0 | 771 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.8 | 9.9 | 14.5 | 7.8 | 3.4 | 1.7 | .6 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 636 | 4 |
| 6-7 | .2 | 1.4 | 5.1 | 7.6 | 6.5 | 3.8 | 2.4 | 1.2 | .6 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 461 | 6 |
| 8-9 | .0 | .3 | 2.4 | 2.6 | 2.9 | 2.3 | 2.1 | .8 | .6 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 230 | 7 |
| 10-11 | .0 | .2 | 1.1 | 1.2 | 1.2 | 1.5 | 1.1 | .6 | .6 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 121 | 8 |
| 12-13 | .0 | .0 | .2 | .4 | .4 | .3 | .1 | .2 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29 | 8 |
| >13 | .0 | .0 | .0 | .3 | .1 | .1 | .0 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 13 | 9 |
| INDET | 2.9 | .8 | .9 | .9 | .5 | .2 | .1 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 108 | 3 |
| TOTAL | 78 | 202 | 386 | 331 | 240 | 156 | 102 | 52 | 36 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1598 | 5 |
| PCT | 4.9 | 12.6 | 24.2 | 20.7 | 15.0 | 9.8 | 6.4 | 3.3 | 2.3 | .8 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .0 | 1.6 | .0 | .0 | .0 | .0 | 2.0 | .1 | .2 | 7.7 | .1 | 5.4 | .0 | | 84.4 |
| NE | .0 | .0 | .9 | .0 | .0 | .0 | .0 | .9 | 1.2 | .0 | 16.3 | .0 | 17.2 | .0 | | 64.5 |
| E | .0 | .0 | 5.4 | .0 | .0 | .0 | .0 | 5.4 | .0 | .0 | 23.8 | .0 | 15.8 | .0 | | 55.0 |
| SE | .8 | .0 | 6.0 | .0 | .0 | .0 | .0 | 6.8 | .8 | .0 | 28.4 | .8 | 9.7 | .0 | | 53.4 |
| S | 1.4 | .0 | 3.1 | .0 | .0 | .0 | .0 | 5.1 | .0 | .0 | 21.8 | .0 | 20.7 | .4 | | 52.0 |
| SW | .0 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.2 | .0 | .0 | 16.0 | .0 | 17.6 | .5 | | 64.7 |
| W | .1 | .1 | 1.2 | .0 | .0 | .0 | .0 | 1.4 | .2 | .0 | 12.9 | .2 | 14.2 | .2 | | 70.9 |
| NW | .4 | * | 1.1 | .0 | .0 | .0 | .0 | 1.4 | .3 | * | 9.0 | .3 | 6.0 | * | | 83.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | 1.6 | .0 | .0 | .0 | .0 | 1.6 | .3 | .0 | 20.7 | .6 | 18.5 | .0 | | 58.3 |
| TOT PCT | .3 | * | 1.5 | .0 | .0 | .0 | .0 | 1.8 | .2 | * | 11.9 | .3 | 9.9 | .1 | | 75.8 |
| TOT OBS: | 4750 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .1 | .4 | .0 | .0 | .0 | .0 | .5 | .0 | .0 | 8.3 | .3 | 10.7 | .3 | | 80.0 |
| 06&09 | .3 | .0 | 2.0 | .0 | .0 | .0 | .0 | 2.2 | .2 | .1 | 10.4 | .1 | 5.9 | .0 | | 81.2 |
| 12&15 | .8 | .0 | 3.0 | .0 | .0 | .0 | .0 | 3.4 | .3 | .1 | 14.2 | .1 | 8.4 | .0 | | 73.5 |
| 18&21 | .2 | .1 | .9 | .0 | .0 | .0 | .0 | 1.2 | .3 | .0 | 14.0 | .5 | 13.1 | .1 | | 70.9 |
| TOT PCT | .3 | * | 1.5 | .0 | .0 | .0 | .0 | 1.8 | .2 | * | 11.9 | .3 | 9.8 | .1 | | 75.8 |
| TOT OBS: | 4780 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 3.3 | 7.1 | 3.8 | .2 | .0 | | 15.1 | 16.5 | 15.1 | 9.9 | 16.2 | 14.4 | 19.9 | 15.9 | 15.7 | 11.4 |
| NE | .6 | .7 | .3 | .1 | .0 | .0 | | 1.7 | 7.2 | .6 | .1 | 2.0 | 3.0 | 3.9 | 2.3 | 1.2 | .6 |
| E | .6 | .6 | .1 | .0 | .0 | .0 | | 1.3 | 4.6 | 1.0 | .1 | .8 | 1.5 | 2.2 | 2.3 | 1.1 | 1.3 |
| SE | .6 | 1.7 | .3 | * | .0 | .0 | | 2.6 | 6.1 | 1.8 | .5 | 2.6 | 3.1 | 2.2 | 3.5 | 3.3 | 3.3 |
| S | 1.2 | 1.8 | .1 | .0 | .0 | .0 | | 3.1 | 4.8 | 1.9 | 1.6 | 1.3 | 2.3 | 2.1 | 3.4 | 5.2 | 5.1 |
| SW | 1.1 | 2.8 | .3 | .1 | .0 | .0 | | 4.3 | 5.9 | 5.2 | 3.7 | 2.3 | 4.1 | 1.5 | 3.3 | 6.1 | 6.7 |
| W | 2.7 | 11.8 | 5.5 | .6 | * | .0 | | 20.5 | 8.9 | 29.0 | 32.7 | 17.2 | 17.3 | 11.6 | 15.2 | 20.3 | 23.0 |
| NW | 1.5 | 11.1 | 21.8 | 9.6 | .5 | .0 | | 44.5 | 15.7 | 42.8 | 48.0 | 51.0 | 45.8 | 43.9 | 43.5 | 38.1 | 46.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.0 | | | | | | | 7.0 | .0 | 2.7 | 3.3 | 6.6 | 8.4 | 12.7 | 10.5 | 9.1 | 2.6 |
| TOT OBS | 834 | 1763 | 1856 | 735 | 38 | 0 | 5226 | | 12.0 | 808 | 397 | 650 | 438 | 733 | 591 | 828 | 781 |
| TOT PCT | 16.0 | 33.7 | 35.5 | 14.1 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.7 | 5.6 | 6.6 | 1.2 | * | | 15.1 | 16.5 | 13.4 | 15.4 | 18.1 | 13.6 |
| NE | 1.1 | .4 | .2 | * | .0 | | 1.7 | 7.2 | .4 | 2.4 | 3.2 | .9 |
| E | 1.0 | .3 | .0 | .0 | .0 | | 1.3 | 4.6 | .7 | 1.1 | 2.3 | 1.2 |
| SE | 1.7 | .9 | .1 | .0 | .0 | | 2.6 | 6.1 | 1.3 | 2.8 | 2.8 | 3.3 |
| S | 2.4 | .7 | .0 | .0 | .0 | | 3.1 | 4.8 | 1.8 | 1.7 | 2.7 | 5.1 |
| SW | 2.9 | 1.3 | .1 | .0 | .0 | | 4.3 | 5.9 | 4.7 | 3.0 | 2.3 | 6.4 |
| W | 7.8 | 10.8 | 1.8 | .2 | .0 | | 20.5 | 8.9 | 30.2 | 17.2 | 13.2 | 21.6 |
| NW | 5.3 | 18.9 | 17.2 | 3.0 | * | | 44.5 | 15.7 | 44.5 | 48.9 | 43.7 | 42.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.0 | | | | | | 7.0 | .0 | 2.9 | 7.4 | 11.7 | 5.9 |
| TOT OBS | 1612 | 2027 | 1357 | 228 | 2 | 5226 | | 12.0 | 1205 | 1088 | 1324 | 1609 |
| TOT PCT | 30.8 | 38.8 | 26.0 | 4.4 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0G34 POINT HUGU NW
34.6N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.9 | 6.2 | 34.7 | 39.0 | 16.0 | 1.2 | .0 | 13.2 | 100.0 | 1205 |
| 06&09 | 7.4 | 7.1 | 30.6 | 36.9 | 17.1 | 1.0 | .0 | 13.0 | 100.0 | 1088 |
| 12&15 | 11.7 | 11.2 | 30.5 | 33.5 | 12.7 | .4 | .0 | 11.1 | 100.0 | 1324 |
| 18&21 | 5.9 | 10.5 | 37.8 | 33.6 | 11.7 | .5 | .0 | 11.2 | 100.0 | 1609 |
| TOT | 365 | 469 | 1763 | 1856 | 735 | 38 | 0 | 12.0 | | 5226 |
| PCT | 7.0 | 9.0 | 33.7 | 35.5 | 14.1 | .7 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 5.8 | 1.2 | 3.2 | 6.8 | | 4.8 |
| NE | 1.0 | .1 | .3 | .7 | | 3.9 |
| E | .4 | * | .1 | .9 | | 5.7 |
| SE | .4 | .1 | .4 | 2.0 | | 6.5 |
| S | .4 | .1 | .7 | 1.5 | | 6.2 |
| SW | 1.3 | .2 | .5 | 1.8 | | 4.9 |
| W | 10.5 | 1.0 | 2.0 | 6.7 | | 3.6 |
| NW | 16.4 | 3.2 | 6.0 | 15.6 | | 4.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 3.9 | .1 | .9 | 3.6 | | 4.2 |
| TOT OBS | 1198 | 177 | 425 | 1181 | 2981 | 4.4 |
| TOT PCT | 40.2 | 5.9 | 14.3 | 39.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | .2 | .6 | 2.2 | 3.9 | 1.6 | .3 | .1 | .0 | .1 | 7.3 | |
| NE | .1 | .0 | .1 | .1 | .5 | .1 | .1 | .0 | * | * | 1.1 | |
| E | .2 | .0 | * | .1 | .4 | .2 | * | .0 | * | .0 | .4 | |
| SE | .4 | .0 | .2 | .5 | .7 | .3 | .2 | * | * | .0 | .6 | |
| S | .2 | .0 | .3 | .4 | .9 | .3 | .1 | .0 | * | .0 | .7 | |
| SW | .2 | .0 | .2 | .4 | .9 | .3 | .2 | .0 | .0 | * | 1.6 | |
| W | .6 | * | .6 | 1.4 | 3.2 | 1.6 | .4 | * | .1 | .1 | 12.2 | |
| NW | 1.6 | .3 | 1.7 | 4.2 | 8.0 | 3.5 | .7 | .3 | .0 | .1 | 20.9 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .6 | * | .2 | .9 | 1.7 | .6 | .3 | .0 | .0 | .1 | 4.1 | |
| TOT OBS | 135 | 17 | 115 | 301 | 602 | 257 | 66 | 14 | 5 | .1 | 1458 | 2981 |
| TOT PCT | 4.5 | .6 | 3.9 | 10.1 | 20.2 | 8.6 | 2.2 | .5 | .2 | .4 | 48.9 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .2 | .5 | .5 | .5 | .5 | .5 | .5 | .5 |
| * OR >5000 | .4 | .9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >3500 | 1.2 | 3.1 | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.3 |
| * OR >2000 | 5.5 | 11.0 | 11.8 | 11.8 | 11.8 | 11.9 | 11.9 | 11.9 |
| * OR >1000 | 15.1 | 27.8 | 30.9 | 31.7 | 31.9 | 31.9 | 32.0 | 32.0 |
| * OR >600 | 19.1 | 35.6 | 40.1 | 41.5 | 41.8 | 41.9 | 42.0 | 42.0 |
| * OR >300 | 19.7 | 37.8 | 43.0 | 44.9 | 45.6 | 45.8 | 45.9 | 45.9 |
| * OR >150 | 19.7 | 38.1 | 43.6 | 45.4 | 46.2 | 46.3 | 46.5 | 46.5 |
| * OR > 0 | 19.9 | 38.8 | 44.7 | 47.1 | 49.1 | 49.7 | 50.6 | 50.9 |
| TOTAL | 596 | 1163 | 1341 | 1414 | 1473 | 1492 | 1519 | 1528 |

TOTAL NUMBER OF OBS: 3001

PCT FREQ NH <5/8: 49.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 31.5 | 6.4 | 5.0 | 3.5 | 2.2 | 1.9 | 4.8 | 6.8 | 34.1 | 3.8 | 3103 |

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .2 | * | * | .1 | .1 | .1 | .4 | .9 | .0 | .2 | 2.1 | |
| | TOT % | .2 | * | * | .1 | .1 | .1 | .4 | .9 | .0 | .2 | 2.1 | |
| 1/2<1 | PCP | .0 | .0 | .0 | * | * | * | .0 | .0 | .0 | * | .1 | |
| | NO PCP | .2 | .1 | .1 | .1 | .2 | .1 | .3 | .5 | .0 | .2 | 1.7 | |
| | TOT % | .2 | .1 | .1 | .2 | .2 | .1 | .3 | .5 | .0 | .3 | 1.9 | |
| 1<2 | PCP | .0 | .0 | * | * | .1 | .0 | .1 | * | .0 | * | .2 | |
| | NO PCP | .2 | .1 | .1 | .2 | .2 | .1 | .5 | .6 | .0 | .3 | 2.3 | |
| | TOT % | .2 | .1 | .1 | .3 | .2 | .1 | .5 | .6 | .0 | .4 | 2.5 | |
| 2<5 | PCP | .1 | * | * | * | * | * | * | .1 | .0 | * | .4 | |
| | NO PCP | .6 | .2 | .2 | .2 | .5 | .7 | 2.5 | 2.2 | .0 | 1.3 | 8.4 | |
| | TOT % | .8 | .2 | .2 | .3 | .6 | .7 | 2.5 | 2.3 | .0 | 1.3 | 8.8 | |
| 5<10 | PCP | .2 | .0 | * | * | * | .0 | .1 | .4 | .0 | * | .7 | |
| | NO PCP | 4.2 | .7 | .6 | 1.0 | 1.1 | 1.9 | 8.9 | 12.9 | .0 | 2.7 | 34.0 | |
| | TOT % | 4.4 | .7 | .6 | 1.1 | 1.1 | 1.9 | 9.0 | 13.2 | .0 | 2.7 | 34.7 | |
| 10+ | PCP | * | .0 | * | .1 | .0 | .0 | .1 | .1 | .0 | .0 | .3 | |
| | NO PCP | 9.7 | .7 | .3 | .6 | .7 | 1.5 | 8.2 | 26.0 | .0 | 1.9 | 49.7 | |
| | TOT % | 9.7 | .7 | .3 | .7 | .7 | 1.5 | 8.3 | 26.1 | .0 | 1.9 | 50.0 | |
| | TOT OBS | | | | | | | | | | | | 4748 |
| | TOT PCT | 19.5 | 1.8 | 1.4 | 2.5 | 3.0 | 4.5 | 21.0 | 43.6 | .0 | 6.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .0 | .0 | * | * | .1 | * | * | .1 | .0 | .4 | .7 | |
| | 4-10 | .1 | * | * | * | * | .1 | .4 | .4 | .0 | | 1.0 | |
| | 11-21 | .1 | * | .0 | .0 | .0 | * | .1 | .5 | .0 | | .7 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | | .2 | |
| | TOT % | .2 | * | .1 | .1 | .1 | .2 | .5 | 1.1 | .0 | .4 | 2.6 | |
| 1/2<1 | 0-3 | * | * | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .4 | .9 | |
| | 4-10 | * | * | * | * | .1 | .1 | .1 | .2 | .0 | | .6 | |
| | 11-21 | .1 | * | .0 | * | .0 | .0 | * | .2 | .0 | | .4 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .2 | .1 | .1 | .1 | .2 | .1 | .3 | .5 | .0 | .4 | 1.9 | |
| 1<2 | 0-3 | * | * | .1 | .2 | .1 | * | .1 | * | .0 | .4 | 1.0 | |
| | 4-10 | .1 | * | * | .1 | .2 | .1 | .4 | .4 | .0 | | 1.2 | |
| | 11-21 | .1 | .0 | .0 | * | .0 | .0 | .1 | .4 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .2 | * | .1 | .3 | .2 | .1 | .5 | .9 | .0 | .4 | 2.9 | |
| 2<5 | 0-3 | .2 | .1 | .1 | .1 | .2 | .1 | .6 | .2 | .0 | 1.3 | 3.0 | |
| | 4-10 | .2 | .1 | .1 | .2 | .3 | .6 | 1.5 | 1.0 | .0 | | 3.9 | |
| | 11-21 | .3 | * | .0 | * | * | * | .4 | 1.2 | .0 | | 2.1 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .4 | .0 | | .5 | |
| | TOT % | .9 | .2 | .2 | .3 | .5 | .7 | 2.6 | 2.9 | .0 | 1.3 | 9.6 | |
| 5<10 | 0-3 | .2 | .3 | .3 | .2 | .4 | .5 | 1.1 | .5 | .0 | 2.6 | 6.2 | |
| | 4-10 | .9 | .2 | .2 | .8 | .7 | 1.1 | 5.1 | 3.3 | .0 | | 12.4 | |
| | 11-21 | 1.9 | .1 | * | .1 | * | .1 | 2.1 | 6.2 | .0 | | 10.6 | |
| | 22+ | 1.2 | * | .0 | .0 | .0 | * | .2 | 2.9 | .0 | | 4.3 | |
| | TOT % | 4.2 | .6 | .6 | 1.1 | 1.2 | 1.8 | 8.5 | 12.9 | .0 | 2.6 | 33.5 | |
| 10+ | 0-3 | .2 | .1 | * | .1 | .3 | .3 | .7 | .6 | .0 | 2.0 | 4.3 | |
| | 4-10 | 2.0 | .4 | .2 | .6 | .5 | .9 | 4.4 | 5.7 | .0 | | 14.6 | |
| | 11-21 | 4.6 | .1 | * | .1 | .1 | .2 | 2.9 | 13.1 | .0 | | 21.0 | |
| | 22+ | 2.6 | .1 | .0 | * | .0 | .1 | .4 | 6.5 | .0 | | 9.6 | |
| | TOT % | 9.4 | .7 | .3 | .8 | .9 | 1.4 | 8.3 | 25.9 | .0 | 2.0 | 49.5 | |
| | TOT OBS | | | | | | | | | | | | 5106 |
| | TOT PCT | 19.1 | 1.7 | 1.4 | 2.6 | 3.1 | 4.3 | 20.8 | 44.1 | .0 | 7.0 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.7 | .5 | 2.8 | 8.8 | 18.4 | 8.8 | 2.0 | .5 | .1 | .1 | 44.7 | 55.3 | 754 |
| 06&09 | 4.3 | .7 | 2.1 | 7.3 | 17.6 | 6.6 | 1.0 | .7 | .1 | .4 | 40.7 | 59.3 | 717 |
| 12&15 | 5.8 | .4 | 5.8 | 12.1 | 20.2 | 9.3 | 2.6 | .3 | .3 | .5 | 57.1 | 42.9 | 744 |
| 18&21 | 5.0 | .7 | 4.7 | 11.3 | 22.9 | 9.2 | 3.3 | .4 | .1 | .4 | 58.0 | 42.0 | 822 |
| TOT | 135 | 18 | 118 | 301 | 603 | 258 | 68 | 14 | 5 | 11 | 1531 | 1506 | 3037 |
| PCT | 4.4 | .6 | 3.9 | 9.9 | 19.9 | 8.5 | 2.2 | .5 | .2 | .4 | 50.4 | 49.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.9 | .6 | 2.2 | 8.6 | 33.9 | 52.9 | 1184 |
| 06&09 | 3.1 | 2.0 | 1.6 | 6.6 | 32.8 | 53.9 | 1083 |
| 12&15 | 2.9 | 2.6 | 3.6 | 9.5 | 34.1 | 47.3 | 1289 |
| 18&21 | 2.5 | 2.3 | 3.6 | 12.4 | 33.3 | 45.9 | 1583 |
| TOT | 133 | 99 | 147 | 491 | 1722 | 2547 | 5139 |
| PCT | 2.6 | 1.9 | 2.9 | 9.6 | 33.5 | 49.6 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.7 | 6.2 | 20.0 | 27.2 | 52.8 | 740 |
| 06&09 | 4.2 | 8.0 | 19.4 | 24.1 | 56.5 | 711 |
| 12&15 | 5.7 | 12.2 | 31.1 | 29.1 | 39.8 | 736 |
| 18&21 | 5.0 | 11.8 | 30.5 | 30.3 | 39.2 | 814 |
| TOT | 133 | 289 | 763 | 833 | 1405 | 3001 |
| PCT | 4.4 | 9.6 | 25.4 | 27.8 | 46.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | * | .0 | * | .0 | .0 | .0 | 2 | .1 |
| 75/79 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | 3 | .1 |
| 70/74 | .0 | .0 | .0 | .3 | .9 | .7 | .1 | .1 | 65 | 2.1 |
| 65/69 | .0 | .0 | .0 | .2 | 1.8 | 3.8 | 2.0 | .6 | 265 | 8.4 |
| 60/64 | .0 | .0 | .1 | .2 | 2.6 | 10.0 | 12.8 | 4.6 | 953 | 30.3 |
| 55/59 | .0 | .0 | .0 | .1 | .4 | 8.3 | 28.7 | 14.4 | 1633 | 51.9 |
| 50/54 | .0 | .0 | .0 | * | .1 | .6 | 3.0 | 3.3 | 221 | 7.0 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 2 | .1 |
| 40/44 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * |
| TOTAL | 0 | 0 | 3 | 25 | 185 | 734 | 1469 | 729 | 3145 | 100.0 |
| PCT | .0 | .0 | .1 | .8 | 5.9 | 23.3 | 46.7 | 23.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 |
| .0 | .0 | .0 | * | * | .0 | * | * | .0 | .0 |
| .2 | * | * | .1 | .4 | .5 | .5 | .2 | .0 | .1 |
| .4 | * | .1 | .2 | .7 | 1.2 | 3.2 | 1.9 | .0 | .7 |
| 4.0 | .5 | .6 | 1.0 | 1.0 | 1.6 | 8.2 | 11.0 | .0 | 2.4 |
| 10.2 | .8 | .5 | 1.0 | .8 | 1.2 | 8.4 | 26.8 | .0 | 2.3 |
| 1.3 | .4 | .1 | * | * | * | .6 | 4.1 | .0 | .5 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 16.1 | 1.7 | 1.3 | 2.3 | 2.9 | 4.5 | 20.9 | 44.1 | .0 | 6.1 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 72 | 68 | 60 | 55 | 53 | 49 | 60.8 | 1207 |
| 06&09 | 77 | 66 | 63 | 57 | 54 | 52 | 46 | 58.0 | 1089 |
| 12&15 | 70 | 65 | 62 | 57 | 53 | 51 | 44 | 57.2 | 1323 |
| 18&21 | 82 | 72 | 69 | 61 | 55 | 53 | 48 | 60.9 | 1601 |
| TOT | 82 | 71 | 67 | 59 | 54 | 52 | 44 | 59.4 | 5220 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .4 | 7.7 | 33.2 | 44.3 | 14.4 | 82 | 810 |
| 06&09 | .0 | .2 | 1.1 | 15.3 | 51.5 | 32.0 | 87 | 666 |
| 12&15 | .0 | .5 | 1.9 | 12.3 | 49.3 | 36.0 | 87 | 749 |
| 18&21 | .0 | 2.1 | 10.9 | 29.4 | 43.2 | 14.5 | 81 | 940 |
| TOT | 0 | 28 | 185 | 739 | 1477 | 736 | 84 | 3165 |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | 1 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | 2 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | 4 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | .1 | * | .0 | 11 | .0 | .3 |
| 11/13 | .0 | .0 | .0 | * | .2 | .1 | .4 | .3 | * | .0 | .0 | 39 | * | 1.1 |
| 9/10 | .0 | .0 | .0 | * | .2 | .5 | .3 | .2 | * | .0 | .0 | 46 | .1 | 1.2 |
| 7/8 | .0 | .0 | .0 | .1 | .7 | 1.5 | .5 | .1 | .1 | .0 | .0 | 100 | .2 | 2.7 |
| 6 | .0 | .0 | .0 | .1 | .6 | .9 | .4 | * | .0 | .0 | .0 | 69 | .2 | 1.8 |
| 5 | .0 | .0 | .0 | .3 | 1.4 | 2.2 | .5 | .1 | .0 | .0 | .0 | 158 | .3 | 4.3 |
| 4 | .0 | .0 | .0 | .8 | 3.2 | 3.2 | .5 | .1 | .0 | .0 | .0 | 269 | .8 | 7.0 |
| 3 | .0 | .0 | .0 | .9 | 3.4 | 1.8 | .3 | .0 | .0 | .0 | .0 | 220 | .3 | 6.1 |
| 2 | .0 | .0 | * | 2.5 | 7.1 | 3.6 | .3 | .0 | * | .0 | .0 | 468 | 1.3 | 12.2 |
| 1 | .0 | .0 | .0 | 3.1 | 4.3 | 1.7 | .2 | .1 | .0 | .0 | .0 | 323 | .9 | 8.4 |
| 0 | .0 | .0 | .1 | 4.8 | 8.8 | 3.0 | .2 | .1 | .0 | .0 | .0 | 588 | 2.5 | 14.5 |
| -1 | .0 | .0 | .1 | 3.3 | 3.6 | .9 | .1 | .0 | .0 | .0 | .0 | 277 | .7 | 7.3 |
| -2 | .0 | .0 | .2 | 4.2 | 4.5 | 1.4 | * | * | .0 | .0 | .0 | 359 | 1.1 | 9.3 |
| -3 | .0 | .0 | .2 | 2.3 | 2.3 | .3 | * | * | .0 | .0 | .0 | 177 | .9 | 4.3 |
| -4 | .0 | .0 | .2 | 2.3 | 2.1 | .4 | * | .0 | .0 | .0 | .0 | 173 | .6 | 4.4 |
| -5 | .0 | .0 | .1 | 1.2 | .7 | .2 | * | .0 | .0 | .0 | .0 | 77 | .1 | 2.1 |
| -6 | .0 | .0 | .1 | .5 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | 39 | .2 | 1.0 |
| -7/-8 | .0 | .1 | .1 | .4 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | 35 | .1 | .9 |
| -9/-10 | * | * | .0 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | 14 | .1 | .3 |
| -11/-13 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5 | .1 | .1 |
| -14/-16 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -17/-19 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | 5 | 38 | 936 | 1521 | 764 | 140 | 37 | 10 | 3 | 1 | 3456 | 363 | 3093 |
| PCT | * | .1 | 1.1 | 27.1 | 44.0 | 22.1 | 4.1 | 1.1 | .3 | .1 | * | 100.0 | 10.5 | 89.5 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.1 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .4 | 1.9 | 2.2 | .0 | .0 | .0 | 4.4 |
| 3-4 | .0 | 1.0 | 3.3 | .9 | .0 | .0 | 5.3 |
| 5-6 | .0 | .3 | 1.9 | .8 | .0 | .0 | 3.0 |
| 7 | .0 | .2 | 1.3 | 1.3 | .0 | .0 | 2.8 |
| 8-9 | .0 | .0 | .2 | .7 | .0 | .0 | .9 |
| 10-11 | .0 | .0 | .0 | .8 | .0 | .0 | .8 |
| 12 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 13-16 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 4.4 | 9.3 | 4.8 | .0 | .0 | 18.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .1 | * | .1 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | * | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .3 | .5 | .1 | .0 | .0 | .9 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .9 | .1 | .0 | .0 | .0 | 1.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .9 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | .9 | .4 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.0 | .6 | .0 | .0 | .0 | 2.8 |

PERIOD: (OVER-ALL) 1963-1979

JUNE

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .2 | .0 | .0 | .0 | .0 | .4 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .2 | 1.0 | .0 | .0 | .0 | .0 | 1.2 | .4 | .6 | .1 | .0 | .0 | .0 | 1.1 |
| 3-4 | .1 | .1 | .0 | .0 | .0 | .0 | .2 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 1.3 | .0 | .0 | .0 | .0 | 1.8 | .6 | 1.2 | .2 | * | .0 | .0 | 2.0 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 1.1 | .1 | .0 | .0 | .0 | 1.5 | .2 | 1.6 | .0 | .0 | .0 | .0 | 1.9 | |
| 1-2 | .3 | 2.9 | 1.7 | .0 | .0 | .0 | 4.9 | .6 | 7.0 | 7.0 | .0 | .0 | .0 | 14.6 | |
| 3-4 | .0 | 1.0 | 1.6 | .0 | .0 | .0 | 2.6 | .0 | 2.0 | 11.7 | 2.2 | .0 | .0 | 15.9 | |
| 5-6 | .0 | .3 | .9 | .3 | .0 | .0 | 1.4 | .0 | .7 | 6.7 | 3.4 | .1 | .0 | 11.0 | |
| 7 | .0 | .0 | .5 | .2 | .0 | .0 | .8 | .0 | .2 | 4.1 | 3.1 | .1 | .0 | 7.6 | |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | 1.8 | 1.8 | .1 | .0 | 3.8 | |
| 10-11 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | 1.6 | .1 | .0 | 1.7 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.4 | .0 | .0 | 1.4 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 5.2 | 5.0 | .6 | .0 | .0 | 11.5 | .8 | 11.6 | 31.4 | 13.9 | .4 | .0 | 58.2 | 97.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.0 | 5.8 | .1 | .0 | .0 | .0 | 9.9 | |
| 1-2 | 2.2 | 14.7 | 11.6 | .0 | .0 | .0 | 28.4 | |
| 3-4 | .1 | 4.8 | 17.0 | 3.1 | .0 | .0 | 25.0 | |
| 5-6 | .0 | 1.3 | 9.5 | 4.5 | .1 | .0 | 15.5 | |
| 7 | .0 | .4 | 6.1 | 4.8 | .1 | .0 | 11.4 | |
| 8-9 | .0 | .0 | 2.1 | 2.6 | .1 | .0 | 4.8 | |
| 10-11 | .0 | .0 | .2 | 2.4 | .1 | .0 | 2.7 | |
| 12 | .0 | .0 | .3 | .3 | .0 | .0 | .6 | |
| 13-16 | .0 | .0 | .1 | 1.6 | .0 | .0 | 1.7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 925 |
| TOT PCT | 6.3 | 27.0 | 46.9 | 19.4 | .4 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.7 | 10.3 | 16.2 | 7.7 | 4.7 | 1.9 | .6 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 823 | 4 |
| 6-7 | .1 | 2.0 | 5.0 | 7.2 | 5.3 | 2.7 | 1.9 | .5 | .8 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 482 | 6 |
| 8-9 | .2 | .3 | 3.1 | 2.0 | 3.5 | 2.8 | 1.9 | .9 | .7 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 290 | 7 |
| 10-11 | .0 | .6 | .8 | .9 | 1.1 | 1.5 | .6 | .9 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 133 | 8 |
| 12-13 | .0 | .0 | .4 | .3 | .1 | .3 | .3 | .3 | .3 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 40 | 9 |
| >13 | .0 | .0 | .0 | .1 | .2 | .1 | .0 | .2 | .3 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18 | 12 |
| INDET | 2.6 | 1.0 | .6 | .2 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 91 | 2 |
| TOTAL | 85 | 267 | 492 | 347 | 282 | 179 | 100 | 57 | 56 | 2 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1877 | 5 |
| PCT | 4.5 | 14.2 | 26.2 | 18.5 | 15.0 | 9.5 | 5.3 | 3.0 | 3.0 | .1 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .2 | 1.7 | .0 | .0 | .0 | .0 | 2.0 | .5 | .0 | 10.6 | .4 | 4.6 | .1 | | 81.7 |
| NE | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | 1.5 | .4 | .0 | 36.7 | 1.5 | 11.1 | .0 | | 48.9 |
| E | 1.9 | .0 | 1.9 | .0 | .0 | .0 | .0 | 3.8 | 1.4 | .0 | 33.8 | .0 | 18.1 | .0 | | 42.9 |
| SE | .9 | .0 | 1.9 | .0 | .0 | .0 | .0 | 2.8 | .2 | .0 | 30.1 | .0 | 22.6 | .0 | | 44.2 |
| S | .0 | .0 | 1.9 | .0 | .0 | .0 | .0 | 1.9 | 1.4 | .0 | 29.7 | .7 | 20.4 | .0 | | 45.9 |
| SW | .0 | .0 | .9 | .0 | .0 | .0 | .0 | .9 | .2 | .0 | 21.9 | .5 | 24.7 | .0 | | 51.8 |
| W | .1 | .1 | .7 | .0 | .0 | .0 | .0 | .8 | .2 | .2 | 22.5 | .2 | 19.7 | .0 | | 56.4 |
| NW | .2 | .2 | 1.1 | .0 | .0 | .0 | .0 | 1.5 | .1 | * | 14.4 | .2 | 9.0 | .1 | | 74.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | 2.6 | .0 | .0 | .0 | .0 | 2.6 | .0 | .0 | 40.8 | .0 | 22.4 | .0 | | 34.2 |
| TOT PCT | .2 | .2 | 1.3 | .0 | .0 | .0 | .0 | 1.5 | .3 | * | 18.7 | .3 | 12.6 | .1 | | 66.5 |
| TOT OBS: | 4593 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .3 | .1 | .6 | .0 | .0 | .0 | .0 | .7 | .1 | .0 | 11.9 | .2 | 13.6 | .0 | | 73.5 |
| 06&09 | .2 | .2 | 1.6 | .0 | .0 | .0 | .0 | 2.0 | .3 | .0 | 16.2 | .2 | 9.9 | .3 | | 71.1 |
| 12&15 | .3 | .3 | 2.3 | .0 | .0 | .0 | .0 | 2.8 | .5 | .1 | 22.5 | .3 | 10.0 | .0 | | 63.7 |
| 18&21 | .1 | .1 | .9 | .0 | .0 | .0 | .0 | .9 | .1 | .1 | 22.8 | .4 | 15.8 | .0 | | 59.9 |
| TOT PCT | .2 | .2 | 1.3 | .0 | .0 | .0 | .0 | 1.6 | .3 | * | 18.7 | .3 | 12.6 | .1 | | 66.5 |
| TOT OBS: | 4637 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .6 | 3.5 | 8.5 | 3.6 | .1 | .0 | | 16.3 | 16.1 | 14.9 | 11.2 | 13.6 | 15.6 | 19.0 | 16.0 | 17.1 | 14.9 |
| NE | .6 | .5 | .3 | * | .0 | .0 | | 1.4 | 6.8 | .2 | .8 | .9 | 2.3 | 2.9 | 2.7 | 1.0 | .7 |
| E | .4 | .6 | * | .0 | .0 | .0 | | 1.1 | 5.0 | .4 | .5 | .6 | .5 | 1.9 | 2.6 | 1.0 | 1.1 |
| SE | .8 | 1.3 | .3 | .0 | .0 | .0 | | 2.4 | 5.7 | 1.5 | 1.1 | 1.8 | 3.9 | 2.1 | 5.1 | 1.8 | 2.8 |
| S | 1.2 | 1.6 | .2 | .0 | .0 | .0 | | 3.0 | 5.2 | 2.6 | 1.2 | 2.0 | 2.8 | 3.0 | 4.2 | 4.4 | 2.9 |
| SW | 1.1 | 2.8 | .6 | * | .0 | .0 | | 4.4 | 6.5 | 4.6 | 4.3 | 1.6 | 3.5 | 3.0 | 3.8 | 7.2 | 6.4 |
| W | 2.8 | 11.1 | 4.3 | .6 | * | .0 | | 18.8 | 8.5 | 25.3 | 25.5 | 16.0 | 15.3 | 11.2 | 13.6 | 20.6 | 22.7 |
| NW | 2.3 | 13.9 | 21.9 | 8.3 | .2 | .0 | | 46.5 | 14.5 | 48.6 | 53.4 | 53.1 | 50.7 | 45.3 | 42.3 | 38.4 | 45.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.1 | | | | | | | 6.1 | .0 | 1.9 | 2.1 | 5.5 | 5.3 | 11.5 | 9.7 | 8.5 | 2.6 |
| TOT OBS | 805 | 1790 | 1833 | 639 | 16 | 0 | 5083 | | 11.7 | 829 | 376 | 669 | 418 | 739 | 549 | 839 | 664 |
| TOT PCT | 15.8 | 35.2 | 36.1 | 12.6 | .3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.8 | 6.5 | 7.0 | 1.0 | .0 | | 16.3 | 16.1 | 13.8 | 17.5 | 17.7 | 16.1 |
| NE | .8 | .4 | .1 | * | .0 | | 1.4 | 6.8 | .4 | 1.4 | 2.9 | .9 |
| E | .8 | .3 | * | .0 | .0 | | 1.1 | 5.0 | .4 | .6 | 2.2 | 1.0 |
| SE | 1.6 | .8 | .0 | .0 | .0 | | 2.4 | 5.7 | 1.3 | 2.6 | 3.4 | 2.3 |
| S | 2.1 | .8 | * | .0 | .0 | | 3.0 | 5.2 | 2.1 | 2.3 | 3.6 | 3.7 |
| SW | 2.7 | 1.5 | .2 | * | .0 | | 4.4 | 6.5 | 4.5 | 2.3 | 3.3 | 6.8 |
| W | 8.0 | 9.2 | 1.5 | .1 | .0 | | 18.8 | 8.5 | 25.3 | 15.7 | 12.2 | 21.6 |
| NW | 7.5 | 20.4 | 16.6 | 2.0 | * | | 46.5 | 14.5 | 50.1 | 52.2 | 44.1 | 41.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.1 | | | | | | 6.1 | .0 | 2.0 | 5.4 | 10.7 | 5.9 |
| TOT OBS | 1600 | 2033 | 1290 | 159 | 1 | 5083 | | 11.7 | 1205 | 1087 | 1288 | 1503 |
| TOT PCT | 31.5 | 40.0 | 25.4 | 3.1 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 4.6 | 37.0 | 40.9 | 15.0 | .5 | .0 | 13.2 | 100.0 | 1205 |
| 06&09 | 5.4 | 8.2 | 31.5 | 40.3 | 14.2 | .5 | .0 | 12.7 | 100.0 | 1087 |
| 12&15 | 10.7 | 13.9 | 29.8 | 34.2 | 11.0 | .3 | .0 | 10.7 | 100.0 | 1288 |
| 18&21 | 5.8 | 11.5 | 41.1 | 30.7 | 10.8 | .1 | .0 | 10.7 | 100.0 | 1503 |
| TOT | 309 | 496 | 1790 | 1833 | 639 | 16 | 0 | 11.7 | | 5083 |
| PCT | 6.1 | 9.8 | 35.2 | 36.1 | 12.6 | .3 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 4.4 | .8 | 2.6 | 9.4 | | 5.6 |
| NE | .3 | * | .1 | 1.0 | | 6.0 |
| E | .2 | .1 | .2 | .6 | | 6.0 |
| SE | .5 | .1 | .1 | 1.5 | | 6.0 |
| S | .7 | .1 | .4 | 1.6 | | 5.9 |
| SW | 1.6 | .2 | .5 | 1.8 | | 4.7 |
| W | 8.3 | .9 | 2.7 | 6.9 | | 4.1 |
| NW | 14.7 | 1.5 | 5.9 | 22.3 | | 5.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.6 | .2 | .7 | 4.5 | | 5.2 |
| TOT OBS | 1027 | 119 | 411 | 1527 | 3084 | 5.1 |
| TOT PCT | 33.3 | 3.9 | 13.3 | 49.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | .2 | 1.0 | 2.6 | 4.8 | 1.7 | .5 | .1 | .0 | .1 | 5.5 | |
| NE | .1 | * | .1 | .3 | .4 | * | .0 | * | .0 | * | .4 | |
| E | .2 | .0 | * | .2 | .2 | * | * | .0 | .0 | * | .3 | |
| SE | .3 | * | .1 | .3 | .6 | .1 | .0 | .0 | .0 | * | .7 | |
| S | .2 | .1 | .1 | .6 | .6 | .1 | .0 | .0 | .0 | .1 | 1.0 | |
| SW | .3 | * | .2 | .7 | .8 | .2 | .0 | .0 | * | .0 | 1.9 | |
| W | 1.1 | .1 | .8 | 2.0 | 3.6 | .7 | .2 | .3 | .0 | .1 | 10.2 | |
| NW | 2.4 | .3 | 1.6 | 6.9 | 10.8 | 3.9 | .9 | .2 | .1 | .2 | 17.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | 1.1 | * | .4 | 1.0 | 1.8 | .4 | .1 | * | .1 | .1 | 3.1 | |
| TOT OBS | 199 | 23 | 137 | 446 | 723 | 221 | 51 | 19 | 5 | 18 | 1262 | 3084 |
| TOT PCT | 6.5 | .7 | 4.4 | 14.5 | 23.4 | 7.2 | 1.7 | .6 | .2 | .6 | 40.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .2 | .6 | .7 | .7 | .7 | .8 | .8 | .8 |
| * OR >5000 | .4 | 1.1 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 |
| * OR >3500 | 1.4 | 2.7 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 |
| * OR >2000 | 5.3 | 9.2 | 10.0 | 10.1 | 10.2 | 10.2 | 10.2 | 10.2 |
| * OR >1000 | 15.0 | 27.8 | 32.3 | 33.4 | 33.5 | 33.6 | 33.6 | 33.6 |
| * OR >600 | 19.5 | 37.8 | 45.1 | 47.5 | 48.0 | 48.1 | 48.1 | 48.1 |
| * OR >300 | 20.3 | 40.5 | 48.7 | 51.6 | 52.4 | 52.5 | 52.6 | 52.6 |
| * OR >150 | 20.5 | 40.9 | 49.2 | 52.3 | 53.1 | 53.3 | 53.3 | 53.3 |
| * OR > 0 | 20.5 | 41.5 | 50.6 | 54.7 | 57.0 | 57.9 | 59.4 | 59.7 |
| TOTAL | 633 | 1278 | 1559 | 1684 | 1755 | 1785 | 1830 | 1838 |

TOTAL NUMBER OF OBS: 3081

PCT FREQ NH <5/8: 40.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 25.8 | 4.8 | 4.9 | 2.4 | 1.6 | 2.3 | 4.7 | 6.3 | 41.6 | 5.6 | 3200 |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | * | * | .0 | .0 | * | * | .0 | * | .1 | |
| <1/2 | NO PCP | .2 | .1 | * | .2 | .2 | .1 | .5 | 1.2 | .0 | .3 | 2.9 | |
| | TOT % | .2 | .1 | .1 | .2 | .2 | .1 | .6 | 1.3 | .0 | .4 | 3.1 | |
| | PCP | * | .0 | .0 | * | * | .0 | .0 | * | .0 | .1 | .1 | |
| 1/2<1 | NO PCP | .3 | .1 | .1 | .1 | .2 | .1 | .5 | .9 | .0 | .4 | 2.6 | |
| | TOT % | .3 | .1 | .1 | .1 | .2 | .1 | .5 | .9 | .0 | .5 | 2.8 | |
| | PCP | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | * | .1 | |
| 1<2 | NO PCP | .2 | .2 | .2 | .4 | .4 | .5 | 1.2 | .7 | .0 | .5 | 4.2 | |
| | TOT % | .2 | .2 | .2 | .4 | .4 | .5 | 1.2 | .7 | .0 | .5 | 4.3 | |
| | PCP | .1 | .0 | * | * | .0 | * | * | .1 | .0 | * | .3 | |
| 2<5 | NO PCP | .9 | .3 | .2 | .6 | .5 | .8 | 3.1 | 3.7 | .0 | 1.7 | 11.7 | |
| | TOT % | 1.0 | .3 | .2 | .6 | .5 | .8 | 3.1 | 3.8 | .0 | 1.7 | 12.1 | |
| | PCP | .2 | .0 | .0 | .0 | * | * | .1 | .4 | .0 | .0 | .7 | |
| 5<10 | NO PCP | 5.9 | .4 | .4 | .9 | 1.3 | 2.1 | 7.9 | 16.3 | .0 | 2.0 | 37.1 | |
| | TOT % | 6.1 | .4 | .4 | .9 | 1.3 | 2.1 | 8.0 | 16.7 | .0 | 2.0 | 37.8 | |
| | PCP | * | .0 | .0 | .0 | * | .0 | * | .1 | .0 | .0 | .2 | |
| 10+ | NO PCP | 8.7 | .4 | .2 | .4 | .5 | 1.1 | 5.4 | 22.3 | .0 | .9 | 39.8 | |
| | TOT % | 8.7 | .4 | .2 | .4 | .5 | 1.1 | 5.4 | 22.4 | .0 | .9 | 40.0 | |
| | TOT OBS | | | | | | | | | | | | 4583 |
| | TOT PCT | 16.5 | 1.5 | 1.1 | 2.6 | 3.1 | 4.7 | 18.7 | 45.9 | .0 | 5.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .1 | * | .1 | .1 | .1 | .2 | .2 | .0 | .4 | 1.2 | |
| <1/2 | 4-10 | .1 | .1 | * | .1 | .1 | .1 | .4 | .7 | .0 | | 1.5 | |
| | 11-21 | .1 | * | .0 | .0 | .0 | .0 | .1 | .4 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .2 | .2 | .1 | .2 | .2 | .1 | .7 | 1.4 | .0 | .4 | 3.4 | |
| | 0-3 | * | .1 | * | * | .1 | * | .1 | .1 | .0 | .4 | 1.0 | |
| 1/2<1 | 4-10 | .1 | * | * | * | .1 | .1 | .3 | .3 | .0 | | .9 | |
| | 11-21 | .2 | * | * | * | .0 | * | .1 | .5 | .0 | | .9 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | * | .0 | | .1 | |
| | TOT % | .4 | .1 | .1 | .1 | .2 | .1 | .5 | 1.0 | .0 | .4 | 2.8 | |
| | 0-3 | .1 | .1 | .1 | .2 | .3 | .2 | .2 | .1 | .0 | .5 | 1.7 | |
| 1<2 | 4-10 | .1 | .1 | .1 | .1 | * | .3 | .8 | .4 | .0 | | 1.9 | |
| | 11-21 | * | .0 | .0 | .1 | .0 | * | .2 | .5 | .0 | | .8 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | TOT % | .2 | .2 | .2 | .4 | .3 | .5 | 1.2 | 1.0 | .0 | .5 | 4.3 | |
| | 0-3 | .2 | .2 | .1 | .2 | .2 | .2 | .7 | .6 | .0 | 1.8 | 4.2 | |
| 2<5 | 4-10 | .4 | .1 | .1 | .4 | .3 | .5 | 2.2 | 2.0 | .0 | | 5.9 | |
| | 11-21 | .4 | * | * | .1 | * | * | .4 | 1.4 | .0 | | 2.4 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .1 | .5 | .0 | | .7 | |
| | TOT % | 1.2 | .2 | .2 | .6 | .6 | .8 | 3.3 | 4.6 | .0 | 1.8 | 13.1 | |
| | 0-3 | .2 | .2 | .1 | .3 | .4 | .5 | 1.3 | .7 | .0 | 2.1 | 5.6 | |
| 5<10 | 4-10 | 1.1 | .1 | .3 | .5 | .7 | 1.2 | 4.8 | 4.8 | .0 | | 13.5 | |
| | 11-21 | 3.1 | * | * | .1 | .1 | .3 | 1.4 | 7.6 | .0 | | 12.6 | |
| | 22+ | 1.4 | .0 | .0 | .0 | .0 | .0 | .2 | 3.1 | .0 | | 4.7 | |
| | TOT % | 5.8 | .3 | .4 | .9 | 1.2 | 2.0 | 7.7 | 16.2 | .0 | 2.1 | 36.5 | |
| | 0-3 | .1 | * | * | .1 | .1 | .1 | .4 | .5 | .0 | .9 | 2.2 | |
| 10+ | 4-10 | 1.5 | .2 | .2 | .3 | .3 | .7 | 2.8 | 5.4 | .0 | | 11.4 | |
| | 11-21 | 4.8 | .2 | .0 | * | .1 | .3 | 2.2 | 11.2 | .0 | | 18.7 | |
| | 22+ | 2.2 | * | .0 | .0 | .0 | * | .3 | 4.9 | .0 | | 7.4 | |
| | TOT % | 8.6 | .4 | .2 | .4 | .5 | 1.1 | 5.8 | 22.0 | .0 | .9 | 39.7 | |
| | TOT OBS | | | | | | | | | | | | 4916 |
| | TOT PCT | 16.4 | 1.4 | 1.1 | 2.5 | 3.0 | 4.5 | 18.9 | 46.2 | .0 | 6.0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT MUGU NM
34.6N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.3 | .8 | 4.0 | 11.4 | 21.3 | 8.8 | 2.5 | .9 | .0 | .4 | 53.1 | 46.9 | 800 |
| 06&09 | 6.7 | .8 | 4.3 | 11.2 | 22.3 | 4.3 | 1.7 | .1 | .3 | .4 | 52.2 | 47.8 | 717 |
| 12&15 | 9.8 | .5 | 5.3 | 16.5 | 23.0 | 7.2 | 1.0 | .5 | .3 | .8 | 65.0 | 35.0 | 734 |
| 18&21 | 6.4 | .8 | 4.3 | 18.0 | 26.0 | 7.9 | 1.4 | .9 | .1 | .8 | 66.6 | 33.4 | 862 |
| TOT | 201 | 23 | 139 | 447 | 723 | 222 | 51 | 20 | 5 | 19 | 1850 | 1263 | 3113 |
| PCT | 6.5 | .7 | 4.5 | 14.4 | 23.2 | 7.1 | 1.6 | .6 | .2 | .6 | 59.4 | 40.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.8 | 2.2 | 2.9 | 9.0 | 39.2 | 44.9 | 1171 |
| 06&09 | 3.3 | 2.7 | 2.3 | 13.2 | 35.3 | 43.2 | 1074 |
| 12&15 | 6.1 | 4.0 | 5.6 | 13.7 | 33.6 | 37.0 | 1238 |
| 18&21 | 2.6 | 2.5 | 6.3 | 15.8 | 38.0 | 34.8 | 1478 |
| TOT | 170 | 142 | 221 | 651 | 1815 | 1962 | 4961 |
| PCT | 3.4 | 2.9 | 4.5 | 13.1 | 36.6 | 39.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.2 | 8.5 | 28.2 | 30.6 | 41.1 | 790 |
| 06&09 | 6.5 | 12.0 | 34.3 | 24.3 | 41.5 | 709 |
| 12&15 | 9.8 | 17.2 | 45.1 | 25.4 | 29.5 | 728 |
| 18&21 | 6.2 | 12.6 | 42.7 | 30.2 | 27.0 | 854 |
| TOT | 195 | 385 | 1159 | 857 | 1065 | 3081 |
| PCT | 6.3 | 12.5 | 37.6 | 27.8 | 34.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | 1 | * |
| 75/79 | .0 | .0 | .0 | * | .2 | .3 | .0 | * | 19 | .6 |
| 70/74 | .0 | .0 | .0 | * | .9 | 1.9 | .8 | .2 | 121 | 3.9 |
| 65/69 | .0 | * | * | .1 | .6 | 3.7 | 5.6 | 1.7 | 362 | 11.8 |
| 60/64 | .0 | .0 | .0 | .0 | .8 | 6.3 | 24.5 | 10.5 | 1295 | 42.1 |
| 55/59 | .0 | .0 | .0 | * | .3 | 1.8 | 18.3 | 18.3 | 1191 | 38.7 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | .5 | 2.4 | 90 | 2.9 |
| TOTAL | 0 | 1 | 1 | 7 | 86 | 434 | 1529 | 1021 | 3079 | 100.0 |
| PCT | .0 | * | * | .2 | 2.8 | 14.1 | 49.7 | 33.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 |
| .0 | .0 | .0 | .0 | * | .1 | .2 | .1 | .0 | .2 |
| .1 | * | * | .2 | .3 | .6 | 1.6 | .7 | .0 | .4 |
| .9 | .2 | .2 | .5 | .4 | 1.0 | 3.8 | 3.5 | .0 | 1.2 |
| 7.3 | .6 | .6 | 1.2 | 1.4 | 1.6 | 7.9 | 19.6 | .0 | 1.8 |
| 8.1 | .5 | .3 | .8 | 1.0 | 1.3 | 4.2 | 21.4 | .0 | 1.2 |
| .5 | * | .0 | * | * | * | .3 | 1.9 | .0 | .1 |
| 16.9 | 1.4 | 1.1 | 2.7 | 3.2 | 4.7 | 18.0 | 47.1 | .0 | 4.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 74 | 71 | 61 | 57 | 55 | 54 | 62.4 | 1209 |
| 06&09 | 81 | 69 | 66 | 59 | 55 | 53 | 52 | 59.7 | 1090 |
| 12&15 | 73 | 70 | 66 | 59 | 54 | 52 | 50 | 59.3 | 1298 |
| 18&21 | 81 | 76 | 72 | 61 | 55 | 54 | 50 | 62.5 | 1513 |
| TOT | 82 | 74 | 70 | 60 | 55 | 53 | 50 | 61.1 | 5110 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | .7 | 3.3 | 19.0 | 54.6 | 22.4 | 84 | 826 |
| 06&09 | .0 | .1 | 1.2 | 5.6 | 48.5 | 44.5 | 89 | 674 |
| 12&15 | .0 | .0 | 1.3 | 6.6 | 44.0 | 48.1 | 89 | 744 |
| 18&21 | .0 | .2 | 5.2 | 22.5 | 50.3 | 21.7 | 84 | 866 |
| TOT | 0 | 9 | 90 | 439 | 1541 | 1031 | 86 | 3110 |

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PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | * | .1 | .1 | .1 | .1 | .0 | 13 | * | .3 |
| 11/13 | .0 | .0 | * | .1 | .4 | .1 | * | * | .0 | 25 | .1 | .4 |
| 9/10 | .0 | .0 | .0 | .3 | .5 | .2 | * | .0 | .0 | 36 | .1 | .9 |
| 7/8 | .0 | .0 | .5 | 1.3 | .8 | .3 | .1 | * | * | 105 | .3 | 2.8 |
| 6 | .0 | .0 | .3 | .6 | .4 | .1 | * | * | .0 | 55 | .1 | 1.5 |
| 5 | .0 | .1 | 1.0 | 1.8 | .8 | .3 | * | .0 | .0 | 136 | .3 | 3.6 |
| 4 | .0 | .1 | 2.1 | 2.7 | .7 | .1 | .1 | .0 | .0 | 203 | .9 | 5.0 |
| 3 | .0 | .3 | 1.8 | 2.2 | .7 | .1 | .0 | .0 | .0 | 173 | .5 | 4.5 |
| 2 | * | .9 | 4.7 | 5.4 | .4 | .1 | .0 | .0 | .0 | 394 | 1.5 | 10.0 |
| 1 | .0 | .6 | 4.9 | 3.6 | .5 | .1 | .0 | .0 | .0 | 335 | .9 | 8.8 |
| 0 | .1 | 2.3 | 8.9 | 5.4 | 1.0 | .5 | .1 | .0 | .0 | 628 | 3.2 | 15.1 |
| -1 | .1 | 1.8 | 5.5 | 2.6 | .2 | .1 | .0 | .0 | .0 | 351 | 1.2 | 9.0 |
| -2 | .1 | 2.2 | 6.4 | 2.5 | .3 | .1 | .0 | .0 | .0 | 401 | 1.7 | 9.9 |
| -3 | .1 | .8 | 3.2 | .6 | .3 | .0 | .0 | .0 | .0 | 176 | .8 | 4.4 |
| -4 | .1 | 1.0 | 2.9 | .7 | .1 | * | * | .0 | .0 | 166 | .6 | 4.3 |
| -5 | .1 | .4 | 1.5 | .4 | .1 | * | .0 | .0 | .0 | 86 | .6 | 1.9 |
| -6 | .0 | .4 | 1.0 | .3 | .0 | .0 | .0 | .0 | .0 | 57 | .2 | 1.4 |
| -7/-8 | .0 | .5 | 1.0 | .2 | .1 | .0 | .0 | .0 | .0 | 60 | .3 | 1.5 |
| -9/-10 | .0 | .3 | .5 | * | .0 | .0 | .0 | .0 | .0 | 26 | .2 | .6 |
| -11/-13 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | .0 | .2 |
| -14/-16 | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 6 | * | .1 |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 18 | 411 | 1596 | 1061 | 256 | 74 | 19 | 6 | 2 | 3443 | 457 | 2986 |
| PCT | .5 | 11.9 | 46.4 | 30.8 | 7.4 | 2.1 | .6 | .2 | .1 | 100.0 | 13.3 | 86.7 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .2 | 2.2 | 1.0 | .0 | .0 | .0 | 3.4 |
| 3-4 | .1 | 1.7 | 4.9 | 1.4 | .0 | .0 | 8.1 |
| 5-6 | .0 | .5 | 4.3 | 1.6 | .0 | .0 | 6.5 |
| 7 | .0 | .0 | 1.0 | .7 | .0 | .0 | 1.7 |
| 8-9 | .0 | .0 | .5 | .8 | .0 | .0 | 1.3 |
| 10-11 | .0 | .0 | .3 | .6 | .0 | .0 | .9 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 4.7 | 12.2 | 5.2 | .1 | .0 | 22.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | * | .2 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .6 | .4 | .0 | .0 | .0 | 1.2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .1 | .0 | .0 | .0 | .0 | .1 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .5 | * | .0 | .0 | .0 | .8 |
| 1-2 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | * | .0 | .0 | .0 | .0 | * |
| 5-6 | .0 | * | .0 | .0 | .0 | .0 | * |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | * | .0 | .0 | .0 | 1.1 |

PERIOD: (OVER-ALL) 1963-1979

JULY

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .6 | .1 | .0 | .0 | .0 | .9 |
| 1-2 | .2 | .8 | .5 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.8 | .6 | .0 | .0 | .0 | 2.8 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | .8 | .3 | .0 | .0 | .0 | 1.2 |
| 3-4 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .3 | .1 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.5 | .5 | .0 | .0 | .0 | 2.3 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .6 | .1 | .0 | .0 | .0 | .9 |
| 1-2 | .2 | 3.8 | 1.3 | .0 | .0 | .0 | 5.3 |
| 3-4 | .1 | 1.0 | 1.3 | .1 | .0 | .0 | 2.5 |
| 5-6 | .0 | .4 | .9 | .1 | .0 | .0 | 1.4 |
| 7 | .0 | .0 | .1 | .1 | .1 | .0 | .3 |
| 8-9 | .0 | .1 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 6.0 | 3.9 | .3 | .1 | .0 | 10.8 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | .1 | .0 | .0 | .0 | 1.1 | |
| 1-2 | .4 | 6.6 | 5.2 | .0 | .0 | .0 | 12.2 | |
| 3-4 | .4 | 4.4 | 11.1 | 2.4 | .0 | .0 | 18.3 | |
| 5-6 | .0 | .9 | 8.0 | 4.0 | .1 | .0 | 13.0 | |
| 7 | .0 | .4 | 3.3 | 2.5 | .2 | .0 | 6.4 | |
| 8-9 | .0 | .1 | 2.0 | 1.3 | .0 | .0 | 3.4 | |
| 10-11 | .0 | .0 | .3 | .7 | .0 | .0 | 1.0 | |
| 12 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .3 | .2 | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .0 | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 13.3 | 29.9 | 11.6 | .5 | .0 | 56.3 | 97.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.8 | 3.5 | .3 | .0 | .0 | .0 | 7.6 | |
| 1-2 | 1.5 | 14.8 | 8.4 | .0 | .0 | .0 | 24.6 | |
| 3-4 | .6 | 7.4 | 17.6 | 3.9 | .0 | .0 | 29.5 | |
| 5-6 | .0 | 2.5 | 13.5 | 5.7 | .1 | .0 | 21.7 | |
| 7 | .0 | .4 | 4.5 | 3.3 | .3 | .0 | 8.5 | |
| 8-9 | .0 | .3 | 2.7 | 2.2 | .0 | .0 | 5.2 | |
| 10-11 | .0 | .0 | .6 | 1.3 | .0 | .0 | 1.9 | |
| 12 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .4 | .2 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 5.9 | 28.8 | 47.0 | 17.0 | .7 | .0 | 100.0 | 1003 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.1 | 11.9 | 16.6 | 8.7 | 3.8 | 1.1 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 826 | 4 |
| 6-7 | .1 | 1.6 | 6.1 | 9.6 | 7.6 | 4.3 | 1.1 | .4 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 585 | 6 |
| 8-9 | .1 | .5 | 1.6 | 3.4 | 3.8 | 2.5 | 1.0 | .7 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 369 | 7 |
| 10-11 | .0 | .3 | .6 | .5 | .9 | .6 | .8 | .1 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 87 | 8 |
| 12-13 | .0 | .0 | .4 | .4 | .2 | .3 | .2 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 33 | 7 |
| >13 | .0 | .0 | .0 | .3 | .0 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10 | 7 |
| INDET | 1.7 | .4 | .9 | .6 | .3 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 76 | 2 |
| TOTAL | 55 | 277 | 494 | 440 | 312 | 170 | 72 | 29 | 34 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1886 | 5 |
| PCT | 2.9 | 14.7 | 26.2 | 23.3 | 16.5 | 9.0 | 3.8 | 1.5 | 1.8 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT HUEN NW
34.6N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | .1 | 1.7 | .0 | .0 | .0 | .0 | 2.0 | .5 | .1 | 11.7 | .1 | 5.3 | .0 | | 80.3 |
| NE | .0 | .0 | 3.2 | .0 | .0 | .0 | .0 | 3.2 | .0 | .0 | 27.7 | 1.4 | 5.6 | .0 | | 62.1 |
| E | 1.0 | .0 | 3.0 | .0 | .0 | .0 | .0 | 3.0 | .0 | .0 | 51.0 | 3.5 | 3.0 | .0 | | 39.5 |
| SE | 1.0 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | 42.6 | .5 | 6.1 | .0 | | 49.7 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29.5 | .0 | 11.1 | .0 | | 59.4 |
| SW | .2 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.4 | .8 | .0 | 31.5 | .0 | 12.0 | .0 | | 54.4 |
| W | .2 | .0 | .7 | .0 | .0 | .0 | .0 | 1.0 | .1 | .2 | 21.8 | .4 | 15.6 | .0 | | 61.0 |
| NW | .2 | .0 | 1.5 | .0 | .0 | .0 | .0 | 1.6 | .2 | * | 13.2 | .2 | 7.4 | .0 | | 77.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .3 | .0 | 43.4 | .7 | 16.8 | .0 | | 38.5 |
| TOT PCT | .3 | * | 1.3 | .0 | .0 | .0 | .0 | 1.5 | .3 | .1 | 18.5 | .3 | 9.2 | .0 | | 70.1 |
| TOT OBS: | 4169 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .1 | .0 | .7 | .0 | .0 | .0 | .0 | .8 | .2 | .0 | 10.7 | .2 | 11.2 | .0 | | 76.9 |
| 06&09 | .2 | .0 | 1.4 | .0 | .0 | .0 | .0 | 1.4 | .2 | .1 | 15.1 | .1 | 7.4 | .0 | | 75.6 |
| 12&15 | .6 | .1 | 2.8 | .0 | .0 | .0 | .0 | 3.3 | .5 | .1 | 26.2 | .3 | 6.4 | .0 | | 63.2 |
| 18&21 | .2 | .0 | .7 | .0 | .0 | .0 | .0 | .9 | .2 | .1 | 21.1 | .6 | 11.3 | .0 | | 65.8 |
| TOT PCT | .3 | * | 1.4 | .0 | .0 | .0 | .0 | 1.6 | .3 | .1 | 18.4 | .3 | 9.2 | .0 | | 70.1 |
| TOT OBS: | 4212 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 4.4 | 10.3 | 3.1 | .1 | .0 | | 18.6 | 15.1 | 19.0 | 14.7 | 21.6 | 18.2 | 20.3 | 18.8 | 18.9 | 15.4 |
| NE | .5 | .8 | .3 | * | .0 | .0 | | 1.6 | 7.4 | .9 | .8 | 1.2 | .6 | 3.3 | 2.5 | 2.1 | .8 |
| E | .6 | .6 | * | .0 | .0 | .0 | | 1.3 | 4.0 | .2 | .7 | .6 | 1.5 | 2.7 | 2.8 | .4 | 1.5 |
| SE | .3 | .8 | .1 | * | .0 | .0 | | 1.2 | 5.9 | .6 | .5 | .9 | 2.0 | 1.6 | 2.2 | .9 | 1.5 |
| S | .5 | 1.0 | .1 | * | .0 | .0 | | 1.6 | 5.8 | 1.0 | 1.4 | .8 | 1.3 | .7 | 1.8 | 3.4 | 2.5 |
| SW | 1.0 | 1.5 | .6 | * | .0 | .0 | | 3.1 | 6.7 | 2.0 | 2.0 | 2.5 | 2.8 | 1.8 | 4.3 | 5.1 | 4.2 |
| W | 2.4 | 9.4 | 5.1 | .6 | * | .0 | | 17.6 | 9.2 | 24.9 | 22.9 | 13.6 | 16.8 | 8.9 | 10.6 | 18.8 | 23.2 |
| NW | 2.4 | 13.9 | 25.0 | 6.2 | .1 | .0 | | 47.6 | 14.0 | 50.1 | 55.1 | 52.9 | 44.8 | 46.4 | 44.4 | 41.4 | 47.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.3 | | | | | | | 7.3 | .0 | 1.3 | 1.9 | 5.9 | 12.0 | 14.3 | 12.5 | 8.9 | 3.2 |
| TOT OBS | 746 | 1522 | 1945 | 472 | 9 | 0 | 4694 | | 11.6 | 777 | 366 | 631 | 425 | 638 | 522 | 704 | 631 |
| TOT PCT | 15.9 | 32.4 | 41.4 | 10.1 | .2 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.3 | 8.5 | 7.0 | .8 | .0 | | 18.6 | 15.1 | 17.6 | 20.2 | 19.7 | 17.2 |
| NE | .9 | .6 | .2 | .0 | .0 | | 1.6 | 7.4 | .9 | 1.0 | 3.0 | 1.5 |
| E | 1.1 | .2 | .0 | .0 | .0 | | 1.3 | 4.0 | .4 | 1.0 | 2.8 | .9 |
| SE | .9 | .4 | * | .0 | .0 | | 1.2 | 5.9 | .6 | 1.3 | 1.9 | 1.2 |
| S | 1.1 | .4 | .1 | .0 | .0 | | 1.6 | 5.8 | 1.1 | 1.0 | 1.2 | 3.0 |
| SW | 1.9 | 1.1 | .1 | * | .0 | | 3.1 | 6.7 | 2.0 | 2.7 | 2.9 | 4.7 |
| W | 6.3 | 9.3 | 1.9 | * | .0 | | 17.6 | 9.2 | 24.3 | 14.9 | 9.7 | 20.9 |
| NW | 7.3 | 23.0 | 15.9 | 1.4 | .0 | | 47.6 | 14.0 | 51.7 | 49.6 | 45.5 | 44.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.3 | | | | | | 7.3 | .0 | 1.5 | 8.3 | 13.4 | 6.2 |
| TOT OBS | 1362 | 2042 | 1184 | 106 | 0 | 4694 | | 11.6 | 1143 | 1056 | 1160 | 1335 |
| TOT PCT | 29.0 | 43.5 | 25.2 | 2.3 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT MUGU NW
34.0N 121.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.5 | 4.2 | 32.9 | 49.0 | 12.2 | .3 | .0 | 13.3 | 100.0 | 1143 |
| 06&09 | 8.3 | 7.7 | 29.4 | 43.6 | 11.0 | .1 | .0 | 12.1 | 100.0 | 1056 |
| 12&15 | 13.4 | 12.0 | 27.8 | 36.6 | 9.9 | .3 | .0 | 10.6 | 100.0 | 1160 |
| 18&21 | 6.2 | 10.0 | 38.5 | 37.5 | 7.6 | .1 | .0 | 10.7 | 100.0 | 1335 |
| TOT | 344 | 402 | 1522 | 1945 | 472 | 9 | 0 | 11.6 | | 4694 |
| PCT | 7.3 | 8.6 | 32.4 | 41.4 | 10.1 | .2 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 5.8 | .8 | 3.0 | 9.0 | | 5.1 |
| NE | .7 | .1 | .3 | 1.0 | | 4.9 |
| E | .3 | .1 | .1 | .8 | | 5.6 |
| SE | .3 | .1 | .1 | .8 | | 6.1 |
| S | .4 | .2 | .3 | .8 | | 5.4 |
| SW | 1.1 | .2 | .6 | 1.2 | | 4.6 |
| W | 8.5 | 1.6 | 3.0 | 6.1 | | 3.9 |
| NW | 15.8 | 2.8 | 5.9 | 18.5 | | 4.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 3.0 | .5 | .7 | 5.7 | | 5.3 |
| TOT OBS | 959 | 171 | 374 | 1173 | 2677 | 4.7 |
| TOT PCT | 35.8 | 6.4 | 14.0 | 43.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .8 | .1 | 1.1 | 2.6 | 4.4 | 1.8 | .3 | * | .0 | .1 | 7.2 | |
| NE | .1 | .0 | .2 | .2 | .5 | .1 | .1 | * | .0 | .0 | .8 | |
| E | .4 | .0 | .1 | .1 | .2 | * | * | .0 | .0 | * | .4 | |
| SE | .3 | .0 | .1 | * | .4 | * | .1 | * | .0 | * | .3 | |
| S | .2 | .0 | * | .2 | .3 | .2 | * | .0 | .0 | * | .8 | |
| SW | .2 | .0 | .1 | .5 | .6 | .3 | * | .0 | .0 | * | 1.4 | |
| W | .7 | .2 | 1.2 | 1.7 | 3.2 | 1.0 | .2 | .0 | .0 | .2 | 10.8 | |
| NW | 2.1 | .2 | 2.3 | 6.0 | 7.7 | 3.6 | .7 | .2 | .1 | .3 | 19.8 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | 1.6 | .1 | .8 | .9 | 2.3 | .4 | * | * | .0 | * | 3.7 | |
| TOT OBS | 169 | 16 | 158 | 330 | 524 | 199 | 39 | 10 | 2 | 19 | 1211 | 2677 |
| TOT PCT | 6.3 | .6 | 5.9 | 12.3 | 19.6 | 7.4 | 1.5 | .4 | .1 | .7 | 45.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .6 | .8 | .8 | .8 | .8 | .8 | .8 |
| * OR >5000 | .6 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >3500 | 1.3 | 2.1 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| * OR >2000 | 5.1 | 8.4 | 9.9 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| * OR >1000 | 12.9 | 22.3 | 28.3 | 29.4 | 29.5 | 29.5 | 29.5 | 29.5 |
| * OR >600 | 17.0 | 31.1 | 39.1 | 41.3 | 41.8 | 41.9 | 41.9 | 41.9 |
| * OR >300 | 18.2 | 34.0 | 43.3 | 46.8 | 47.5 | 47.7 | 47.7 | 47.7 |
| * OR >150 | 18.3 | 34.4 | 43.8 | 47.3 | 48.1 | 48.3 | 48.3 | 48.3 |
| * OR > 0 | 18.5 | 35.0 | 44.7 | 49.2 | 51.5 | 52.8 | 54.4 | 54.6 |
| TOTAL | 497 | 940 | 1202 | 1322 | 1385 | 1420 | 1462 | 1468 |

TOTAL NUMBER OF OBS: 2687

PCT FREQ NH <5/8: 45.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 27.7 | 5.6 | 5.4 | 2.8 | 2.8 | 2.7 | 5.4 | 5.4 | 36.7 | 5.6 | 2801 |

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT MUGU NW
34.6N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | * | * | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| <1/2 | NO PCP | .3 | .1 | .2 | .2 | .1 | .2 | .3 | 1.0 | .0 | .8 | 3.2 | |
| | TOT % | .4 | .1 | .2 | .2 | .1 | .2 | .3 | 1.1 | .0 | .8 | 3.4 | |
| | PCP | * | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | .1 | |
| 1/2<1 | NO PCP | .5 | .1 | .1 | * | * | .1 | .5 | 1.0 | .0 | .5 | 2.8 | |
| | TOT % | .5 | .1 | .1 | * | * | .1 | .6 | 1.0 | .0 | .5 | 2.9 | |
| | PCP | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 1<2 | NO PCP | .3 | .1 | .2 | .1 | .1 | .3 | 1.2 | 1.2 | .0 | .7 | 4.2 | |
| | TOT % | .3 | .1 | .2 | .1 | .1 | .3 | 1.2 | 1.2 | .0 | .7 | 4.3 | |
| | PCP | .1 | .0 | .0 | .0 | .0 | * | * | .2 | .0 | * | .4 | |
| 2<5 | NO PCP | .9 | .3 | .1 | .1 | .3 | .5 | 3.2 | 3.5 | .0 | 1.9 | 10.8 | |
| | TOT % | 1.0 | .3 | .1 | .1 | .3 | .5 | 3.2 | 3.7 | .0 | 1.9 | 11.2 | |
| | PCP | .1 | * | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .4 | |
| 5<10 | NO PCP | 6.6 | .4 | .2 | .3 | .6 | 1.2 | 7.1 | 17.2 | .0 | 2.5 | 36.2 | |
| | TOT % | 6.7 | .5 | .2 | .3 | .6 | 1.2 | 7.2 | 17.4 | .0 | 2.5 | 36.5 | |
| | PCP | .1 | * | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .3 | |
| 10+ | NO PCP | 10.0 | .7 | .3 | .3 | .5 | .8 | 5.2 | 22.7 | .0 | .8 | 41.3 | |
| | TOT % | 10.1 | .7 | .3 | .3 | .5 | .8 | 5.3 | 22.8 | .0 | .8 | 41.6 | |
| | TOT OBS | | | | | | | | | | | | 4162 |
| | TOT PCT | 19.0 | 1.7 | 1.2 | 1.2 | 1.5 | 3.1 | 17.7 | 47.3 | .0 | 7.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .0 | * | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .9 | 1.6 | |
| <1/2 | 4-10 | .1 | * | .1 | .1 | * | .1 | .3 | .5 | .0 | | 1.3 | |
| | 11-21 | .3 | .0 | .0 | .0 | .0 | * | * | .5 | .0 | | .8 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | TOT % | .4 | .1 | .2 | .2 | .1 | .2 | .4 | 1.3 | .0 | .9 | 3.8 | |
| | 0-3 | .1 | * | .1 | .0 | .0 | .1 | .2 | .1 | .0 | .5 | 1.0 | |
| 1/2<1 | 4-10 | .1 | * | * | * | * | * | .3 | .4 | .0 | | .9 | |
| | 11-21 | .2 | .0 | .0 | * | .0 | .0 | .1 | .5 | .0 | | .8 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .5 | .1 | .1 | .1 | * | .1 | .6 | 1.1 | .0 | .5 | 2.9 | |
| | 0-3 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .2 | .0 | .8 | 1.8 | |
| 1<2 | 4-10 | .1 | * | .1 | * | * | .1 | .7 | .7 | .0 | | 1.8 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | .2 | .6 | .0 | | .9 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | TOT % | .4 | .1 | .2 | .1 | .1 | .3 | 1.2 | 1.6 | .0 | .8 | 4.7 | |
| | 0-3 | .2 | .2 | .1 | * | .1 | .2 | .6 | .5 | .0 | 1.8 | 3.8 | |
| 2<5 | 4-10 | .4 | .1 | .1 | .1 | .2 | .5 | 2.0 | 1.8 | .0 | | 4.9 | |
| | 11-21 | .5 | * | .0 | * | * | .1 | .7 | 1.9 | .0 | | 3.2 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .4 | .0 | | .5 | |
| | TOT % | 1.1 | .3 | .2 | .2 | .3 | .6 | 3.3 | 4.6 | .0 | 1.8 | 12.4 | |
| | 0-3 | .3 | .1 | .1 | * | .2 | .2 | .9 | .9 | .0 | 2.4 | 5.1 | |
| 5<10 | 4-10 | 1.4 | .2 | .1 | .2 | .3 | .7 | 3.6 | 4.9 | .0 | | 11.5 | |
| | 11-21 | 3.6 | .1 | * | .1 | * | .3 | 2.2 | 8.7 | .0 | | 15.0 | |
| | 22+ | 1.2 | .0 | .0 | * | * | * | .2 | 2.2 | .0 | | 3.6 | |
| | TOT % | 6.4 | .4 | .2 | .3 | .6 | 1.2 | 6.8 | 16.8 | .0 | 2.4 | 35.1 | |
| | 0-3 | .1 | * | .1 | .1 | .1 | .2 | .3 | .6 | .0 | .9 | 2.4 | |
| 10+ | 4-10 | 2.1 | .4 | .2 | .2 | .4 | .3 | 2.8 | 5.4 | .0 | | 11.8 | |
| | 11-21 | 5.7 | .2 | .0 | * | .1 | .2 | 2.0 | 12.9 | .0 | | 21.0 | |
| | 22+ | 1.9 | * | .0 | .0 | .0 | * | .3 | 3.5 | .0 | | 5.8 | |
| | TOT % | 9.8 | .7 | .3 | .3 | .5 | .8 | 5.4 | 22.3 | .0 | .9 | 41.1 | |
| | TOT OBS | | | | | | | | | | | | 4527 |
| | TOT PCT | 18.6 | 1.6 | 1.2 | 1.2 | 1.6 | 3.1 | 17.7 | 47.7 | .0 | 7.3 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.3 | .9 | 4.6 | 12.1 | 17.7 | 7.2 | 1.6 | .4 | .0 | .6 | 47.4 | 52.6 | 694 |
| 06&09 | 6.2 | .2 | 4.3 | 10.9 | 16.4 | 7.4 | .8 | .0 | .2 | .6 | 47.0 | 53.0 | 658 |
| 12&15 | 12.3 | .8 | 7.3 | 10.7 | 22.0 | 7.0 | .8 | .8 | .0 | .6 | 62.5 | 37.5 | 626 |
| 18&21 | 4.9 | .5 | 7.1 | 15.0 | 21.3 | 8.0 | 2.6 | .3 | .1 | 1.1 | 60.8 | 39.2 | 742 |
| TOT | 170 | 16 | 159 | 334 | 527 | 202 | 40 | 10 | 2 | 20 | 1480 | 1240 | 2720 |
| PCT | 6.3 | .6 | 5.8 | 12.3 | 19.4 | 7.4 | 1.5 | .4 | .1 | .7 | 54.4 | 45.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.4 | 2.4 | 2.9 | 10.1 | 37.4 | 46.0 | 1103 |
| 06&09 | 3.8 | 1.8 | 3.3 | 9.4 | 35.0 | 46.6 | 1039 |
| 12&15 | 7.5 | 4.5 | 5.8 | 14.3 | 32.3 | 35.5 | 1126 |
| 18&21 | 2.7 | 3.1 | 6.2 | 14.9 | 36.2 | 37.0 | 1304 |
| TOT | 175 | 136 | 212 | 564 | 1612 | 1873 | 4572 |
| PCT | 3.8 | 3.0 | 4.6 | 12.3 | 35.3 | 41.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.3 | 8.0 | 30.4 | 22.7 | 46.9 | 684 |
| 06&09 | 6.3 | 10.6 | 30.1 | 20.2 | 49.7 | 652 |
| 12&15 | 12.5 | 22.7 | 46.4 | 21.8 | 31.7 | 618 |
| 18&21 | 4.8 | 13.4 | 41.6 | 24.0 | 34.4 | 733 |
| TOT | 169 | 362 | 996 | 598 | 1093 | 2687 |
| PCT | 6.3 | 13.5 | 37.1 | 22.3 | 40.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .1 | .0 | .0 | * | .0 | .0 | 3 | .1 |
| 75/79 | .0 | .0 | .0 | .1 | .2 | .1 | .2 | .0 | 16 | .6 |
| 70/74 | .0 | .0 | * | .3 | 1.0 | 1.5 | .7 | .3 | 101 | 3.7 |
| 65/69 | .0 | .0 | .0 | .1 | .7 | 4.9 | 8.8 | 2.9 | 474 | 17.4 |
| 60/64 | .0 | .0 | .0 | * | .6 | 6.1 | 24.6 | 18.0 | 1346 | 49.4 |
| 55/59 | .0 | .0 | .0 | * | * | 1.1 | 11.4 | 15.6 | 767 | 28.1 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .5 | 20 | .7 |
| TOTAL | 0 | 0 | 3 | 14 | 69 | 374 | 1252 | 1015 | 2727 | 100.0 |
| PCT | .0 | .0 | .1 | .5 | 2.5 | 13.7 | 45.9 | 37.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .1 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| * | .0 | .0 | .0 | .1 | .. | .1 | .3 | .0 | * |
| .5 | .1 | .1 | .1 | .3 | .5 | 1.1 | .7 | .0 | .4 |
| 2.4 | .4 | .2 | .1 | .4 | .7 | 5.4 | 8.2 | .0 | 1.7 |
| 10.4 | .8 | .7 | .6 | .6 | 1.1 | 7.7 | 25.4 | .0 | 2.2 |
| 6.3 | .5 | .2 | .2 | .1 | .4 | 1.8 | 17.1 | .0 | 1.7 |
| .2 | .0 | .0 | .0 | .0 | .0 | * | .5 | .0 | .0 |
| 19.9 | 1.8 | 1.0 | .9 | 1.4 | 2.8 | 16.1 | 50.0 | .0 | 6.0 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 85 | 76 | 70 | 62 | 58 | 55 | 50 | 63.1 | 1147 |
| 06&09 | 79 | 70 | 66 | 61 | 56 | 54 | 48 | 60.9 | 1060 |
| 12&15 | 84 | 70 | 65 | 60 | 55 | 54 | 46 | 59.9 | 1169 |
| 18&21 | 83 | 75 | 71 | 63 | 57 | 54 | 52 | 63.0 | 1349 |
| TOT | 85 | 74 | 69 | 61 | 56 | 54 | 46 | 61.8 | 4725 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.2 | 4.0 | 18.1 | 51.2 | 25.5 | 85 | 734 |
| 06&09 | .0 | .2 | .9 | 9.0 | 43.0 | 46.9 | 89 | 635 |
| 12&15 | .0 | .5 | .8 | 7.0 | 38.0 | 53.8 | 90 | 658 |
| 18&21 | .0 | .7 | 4.2 | 19.5 | 50.3 | 25.3 | 85 | 732 |
| TOT | 0 | 18 | 71 | 379 | 1267 | 1024 | 87 | 2759 |

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 2 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .2 | .0 | 9 | .0 | .3 |
| 11/13 | .0 | .0 | .0 | .0 | .1 | * | .3 | .1 | * | .0 | 17 | * | .5 |
| 9/10 | .0 | .0 | .0 | .0 | .1 | .5 | .4 | .1 | .0 | .0 | 33 | .0 | 1.1 |
| 7/8 | .0 | .0 | .0 | .2 | .8 | .8 | .5 | .2 | .1 | * | 81 | .1 | 2.5 |
| 6 | .0 | .0 | * | .2 | .7 | .4 | .1 | .1 | .0 | .0 | 49 | .1 | 1.4 |
| 5 | .0 | .0 | .0 | .7 | 1.9 | 1.0 | .5 | * | * | .0 | 129 | .4 | 3.7 |
| 4 | .0 | .0 | .1 | .9 | 2.9 | 1.3 | .3 | .1 | .1 | .0 | 176 | .7 | 4.9 |
| 3 | .0 | .0 | .1 | 1.4 | 1.8 | 1.3 | .3 | .0 | .0 | .0 | 155 | .3 | 4.6 |
| 2 | .0 | .0 | .4 | 3.9 | 6.4 | 1.3 | .2 | .0 | .1 | .0 | 386 | 1.7 | 10.6 |
| 1 | .0 | .0 | .2 | 2.4 | 3.7 | 1.2 | .2 | .0 | * | .0 | 241 | .9 | 6.7 |
| 0 | .0 | * | 1.1 | 7.4 | 8.0 | 1.7 | .4 | .2 | .1 | .0 | 591 | 3.4 | 15.4 |
| -1 | .0 | .0 | .7 | 5.3 | 3.7 | .9 | .1 | .0 | * | .0 | 237 | 1.3 | 9.4 |
| -2 | * | * | 1.0 | 6.6 | 3.9 | .4 | .0 | * | .0 | .0 | 379 | 1.9 | 10.2 |
| -3 | .0 | .0 | .6 | 2.6 | 1.8 | .4 | .0 | * | .0 | .0 | 170 | .4 | 5.0 |
| -4 | .0 | * | .5 | 2.8 | 1.4 | .2 | .0 | .0 | * | .0 | 154 | .8 | 4.1 |
| -5 | .0 | .0 | .4 | 1.8 | .6 | .1 | .0 | .0 | .0 | .0 | 89 | .5 | 2.4 |
| -6 | .0 | .0 | .4 | .7 | .6 | * | .0 | .0 | .0 | .0 | 52 | .0 | 1.7 |
| -7/-8 | .0 | * | .5 | .5 | .4 | .1 | .0 | .0 | .0 | .0 | 51 | .2 | 1.4 |
| -9/-10 | .0 | * | .1 | .3 | .2 | .0 | * | .0 | .0 | .0 | 22 | .2 | .5 |
| -11/-13 | .0 | .0 | .1 | .2 | .1 | * | .0 | .0 | .0 | .0 | 13 | .1 | .4 |
| -14/-16 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 4 | .0 | .1 |
| -17/-19 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | 5 | 192 | 1189 | 1233 | 372 | 102 | 24 | 21 | 3 | 3142 | 411 | 2731 |
| PCT | * | .2 | 6.1 | 37.8 | 39.2 | 11.8 | 3.2 | .8 | .7 | .1 | 100.0 | 13.1 | 86.9 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .1 | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | 2.3 | 2.2 | .0 | .0 | .0 | 4.7 |
| 3-4 | .0 | 1.6 | 5.6 | 1.2 | .0 | .0 | 8.4 |
| 5-6 | .0 | .1 | 2.9 | 1.4 | .0 | .0 | 4.4 |
| 7 | .0 | .2 | 1.7 | .5 | .0 | .0 | 2.5 |
| 8-9 | .0 | .0 | 1.0 | .6 | .0 | .0 | 1.6 |
| 10-11 | .0 | .0 | .5 | .3 | .0 | .0 | .8 |
| 12 | .0 | .0 | .2 | .2 | .0 | .0 | .4 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 5.2 | 14.2 | 4.4 | .1 | .0 | 24.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .3 | .1 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .2 | .2 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .4 | .0 | .0 | .0 | .5 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .7 | .0 | .0 | .0 | 1.8 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 3-4 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .0 | .0 | .0 | .0 | .2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .1 | .3 | .0 | .0 | .0 | .4 |

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA C034 POINT MUGU NW
TABLE 18 (CONT) 34.6N 121.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .2 | .0 | .0 | .0 | .0 | .4 | .2 | * | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | .2 | .1 | .0 | .0 | .0 | .4 | .1 | .4 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .3 | .3 | .0 | .0 | .0 | .6 | .1 | .1 | .2 | .1 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .1 | * | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | .4 | .0 | .0 | .0 | 1.4 | .5 | .5 | .5 | .1 | .0 | .0 | 1.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | .9 | .0 | .0 | .0 | .0 | 1.1 | .6 | 1.8 | .2 | .0 | .0 | .0 | 2.6 | |
| 1-2 | .3 | 2.7 | 1.4 | .0 | .0 | .0 | 4.4 | .1 | 6.3 | 5.5 | .0 | .0 | .0 | 11.9 | |
| 3-4 | .1 | 1.2 | 1.4 | .3 | .0 | .0 | 3.0 | .0 | 3.5 | 13.8 | 2.9 | .0 | .0 | 20.2 | |
| 5-6 | .0 | .2 | .5 | .1 | .0 | .0 | .8 | .0 | 1.2 | 7.6 | 2.4 | .0 | .0 | 11.1 | |
| 7 | .0 | .0 | .7 | .2 | .0 | .0 | .9 | .0 | .5 | 4.4 | 1.8 | .0 | .0 | 6.7 | |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .0 | .1 | 2.0 | .9 | .1 | .0 | 3.2 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .7 | .8 | .0 | .0 | 1.7 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .1 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .7 | 4.9 | 4.3 | .5 | .0 | .0 | 10.4 | .7 | 13.4 | 34.6 | 9.1 | .1 | .0 | 58.1 | 98.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 3.3 | 4.2 | .3 | .0 | .0 | .0 | 7.9 | |
| 1-2 | 1.1 | 12.3 | 9.7 | .0 | .0 | .0 | 23.2 | |
| 3-4 | .2 | 7.1 | 21.3 | 4.6 | .0 | .0 | 33.1 | |
| 5-6 | .0 | 1.6 | 11.3 | 4.0 | .0 | .0 | 16.9 | |
| 7 | .1 | .8 | 6.7 | 2.5 | .0 | .0 | 10.2 | |
| 8-9 | .0 | .1 | 3.2 | 1.5 | .1 | .0 | 4.9 | |
| 10-11 | .0 | .1 | 1.3 | 1.1 | .0 | .0 | 2.5 | |
| 12 | .0 | .0 | .5 | .2 | .0 | .0 | .7 | |
| 13-16 | .0 | .0 | .1 | .3 | .0 | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 875 |
| TOT PCT | 4.8 | 26.3 | 54.4 | 14.3 | .2 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.6 | 11.7 | 16.8 | 9.8 | 4.8 | 1.0 | .7 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 733 | 4 |
| 6-7 | .1 | 1.6 | 7.5 | 9.5 | 5.8 | 2.4 | 1.1 | .5 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 460 | 5 |
| 8-9 | .1 | .5 | 2.8 | 2.7 | 2.4 | 2.4 | 1.2 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 203 | 6 |
| 10-11 | .0 | .4 | 1.1 | 1.1 | 1.0 | 1.2 | .9 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 95 | 6 |
| 12-13 | .0 | .0 | .3 | .6 | .2 | .3 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 29 | 7 |
| >13 | .0 | .0 | .0 | .0 | .5 | .3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 17 | 8 |
| INDET | 1.3 | .7 | .4 | .2 | .1 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 53 | 3 |
| TOTAL | 49 | 297 | 464 | 385 | 238 | 130 | 73 | 24 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1610 | 5 |
| PCT | 3.0 | 14.7 | 28.8 | 23.9 | 14.8 | 8.1 | 4.5 | 1.5 | .6 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | ND SIG WEA |
| N | .1 | .0 | 1.3 | .0 | .0 | .0 | .0 | 1.4 | .4 | .3 | 10.7 | .1 | 5.8 | | .0 | 81.3 |
| NE | 1.1 | .0 | .3 | .0 | .0 | .0 | .0 | 1.4 | .0 | .0 | 29.6 | 1.1 | 10.3 | | .0 | 57.6 |
| E | .0 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.2 | .0 | .0 | 31.0 | .0 | 13.4 | | .0 | 54.4 |
| SE | .0 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.2 | .6 | .0 | 29.0 | 1.2 | 8.9 | | .0 | 59.2 |
| S | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | .0 | 22.7 | .0 | 16.1 | | .0 | 60.5 |
| SW | 1.3 | .0 | 1.4 | .0 | .0 | .0 | .0 | 2.7 | .0 | .7 | 20.7 | 1.1 | 15.1 | | .0 | 59.7 |
| W | .4 | .0 | .5 | .0 | .0 | .0 | .0 | .9 | .0 | .0 | 16.9 | .1 | 15.3 | | .0 | 66.9 |
| NW | .2 | .0 | .7 | .0 | .0 | .0 | .0 | .9 | .1 | .1 | 11.9 | .3 | 7.1 | | .0 | 79.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .0 | .0 | 40.0 | .0 | 14.5 | | .0 | 44.8 |
| TOT PCT | .3 | .0 | .8 | .0 | .0 | .0 | .0 | 1.1 | .2 | .1 | 16.3 | .3 | 9.5 | | .0 | 72.7 |
| TOT OBS: | 3993 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | ND SIG WEA |
| 00&03 | .0 | .0 | .5 | .0 | .0 | .0 | .0 | .5 | .1 | .0 | 12.1 | .0 | 12.1 | | .0 | 75.1 |
| 06&09 | .4 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.4 | .1 | .3 | 15.7 | .0 | 6.8 | | .0 | 75.7 |
| 12&15 | .2 | .1 | 1.2 | .0 | .0 | .0 | .0 | 1.6 | .2 | .0 | 21.5 | .4 | 6.6 | | .0 | 69.7 |
| 18&21 | .3 | .1 | .6 | .0 | .0 | .0 | .0 | 1.0 | .2 | .1 | 13.9 | .6 | 12.0 | | .0 | 70.4 |
| TOT PCT | .2 | * | .8 | .0 | .0 | .0 | .0 | 1.1 | .1 | .1 | 16.3 | .3 | 9.6 | | .0 | 72.3 |
| TOT OBS: | 4051 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.5 | 6.0 | 8.6 | 2.2 | .1 | .0 | | 18.4 | 13.1 | 19.7 | 10.7 | 21.5 | 16.3 | 23.7 | 18.6 | 20.1 | 16.7 |
| NE | .9 | 1.0 | .3 | .1 | .0 | .0 | | 2.3 | 6.0 | .4 | 1.4 | 1.9 | 2.8 | 3.6 | 5.9 | 2.1 | .9 |
| E | .9 | 1.0 | .2 | * | .0 | .0 | | 2.0 | 4.9 | .7 | .2 | 1.3 | 3.5 | 4.0 | 4.3 | 1.3 | 1.4 |
| SE | .8 | 1.1 | .2 | * | .0 | .0 | | 2.2 | 6.0 | 1.2 | 1.9 | 1.8 | 3.2 | 2.4 | 3.3 | 2.5 | 1.8 |
| S | .5 | 1.3 | .1 | * | .0 | .0 | | 1.9 | 5.7 | 1.9 | 1.1 | 1.4 | 1.7 | .9 | 2.2 | 3.6 | 2.0 |
| SW | .9 | 2.0 | .4 | * | .0 | .0 | | 3.3 | 6.6 | 4.0 | 2.6 | 1.7 | 3.2 | 1.9 | 2.7 | 4.6 | 5.0 |
| W | 2.3 | 10.6 | 4.5 | .4 | .0 | .0 | | 18.0 | 8.7 | 25.9 | 24.5 | 13.6 | 16.7 | 8.8 | 12.2 | 18.0 | 23.4 |
| NW | 2.9 | 15.9 | 20.6 | 5.1 | * | .0 | | 44.6 | 12.8 | 47.1 | 53.3 | 49.6 | 42.2 | 41.5 | 40.5 | 40.4 | 44.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.4 | | | | | | | 7.4 | .0 | 3.3 | 4.3 | 7.1 | 10.5 | 13.3 | 10.3 | 7.5 | 3.9 |
| TOT OBS | 814 | 1745 | 1562 | 349 | 4 | 0 | 4474 | | 10.4 | 738 | 323 | 577 | 391 | 626 | 468 | 710 | 641 |
| TOT PCT | 18.2 | 39.0 | 34.9 | 7.8 | .1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.1 | 8.4 | 5.5 | .5 | .0 | | 18.4 | 13.1 | 14.1 | 19.4 | 21.5 | 18.5 |
| NE | 1.5 | .6 | .1 | .0 | .0 | | 2.3 | 6.0 | .7 | 2.3 | 4.6 | 1.6 |
| E | 1.5 | .5 | * | .0 | .0 | | 2.0 | 4.9 | .5 | 2.2 | 4.1 | 1.3 |
| SE | 1.5 | .5 | .1 | * | .0 | | 2.2 | 6.0 | 1.4 | 2.4 | 2.8 | 2.2 |
| S | 1.4 | .5 | * | * | .0 | | 1.9 | 5.7 | 1.6 | 1.5 | 1.5 | 2.8 |
| SW | 1.9 | 1.4 | .1 | .0 | .0 | | 3.3 | 6.6 | 3.6 | 2.3 | 2.3 | 4.8 |
| W | 7.0 | 9.5 | 1.5 | .1 | .0 | | 18.0 | 8.7 | 25.5 | 14.9 | 10.3 | 20.5 |
| NW | 8.6 | 22.7 | 12.7 | .6 | .0 | | 44.6 | 12.8 | 49.0 | 46.6 | 41.0 | 42.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.4 | | | | | | 7.4 | .0 | 3.6 | 8.5 | 12.0 | 5.8 |
| TOT OBS | 1561 | 1967 | 895 | 51 | 0 | 4474 | | 10.4 | 1061 | 968 | 1094 | 1351 |
| TOT PCT | 34.9 | 44.0 | 20.0 | 1.1 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.6 | 8.1 | 39.3 | 40.1 | 8.9 | .1 | .0 | 11.5 | 100.0 | 1081 |
| 06&09 | 8.5 | 11.8 | 34.8 | 35.7 | 9.2 | .0 | .0 | 10.7 | 100.0 | 968 |
| 12&15 | 12.0 | 11.4 | 35.4 | 33.2 | 8.0 | .1 | .0 | 9.7 | 100.0 | 1094 |
| 18&21 | 5.8 | 11.8 | 44.7 | 31.7 | 5.8 | .1 | .0 | 9.8 | 100.0 | 1331 |
| TOT | 329 | 485 | 1745 | 1562 | 349 | 4 | 0 | 10.4 | | 4474 |
| PCT | 7.4 | 10.8 | 39.0 | 34.9 | 7.8 | .1 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.6 | 1.2 | 2.7 | 7.2 | | 4.3 |
| NE | 1.3 | .1 | .2 | .9 | | 3.9 |
| E | 1.1 | .1 | .4 | .7 | | 3.8 |
| SE | .8 | .2 | .3 | .7 | | 4.2 |
| S | .7 | .1 | .1 | .9 | | 4.8 |
| SW | 1.1 | .4 | .7 | 1.1 | | 4.6 |
| W | 10.2 | 1.3 | 1.9 | 4.9 | | 3.2 |
| NW | 19.6 | 2.1 | 7.0 | 13.1 | | 3.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 3.9 | .3 | 1.0 | 4.1 | | 4.4 |
| TOT OBS | 1234 | 157 | 385 | 894 | 2670 | 3.9 |
| TOT PCT | 46.2 | 5.9 | 14.4 | 33.5 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | .2 | 1.0 | 1.8 | 3.6 | 1.6 | .2 | .1 | .1 | .1 | 9.5 | |
| NE | .2 | .0 | * | .3 | .2 | .2 | * | .0 | .0 | * | 1.5 | |
| E | .2 | .0 | * | .2 | .3 | .1 | * | .0 | .0 | .0 | 1.3 | |
| SE | .2 | .0 | .1 | .1 | .3 | .1 | * | .0 | .0 | * | 1.0 | |
| S | .1 | .0 | .2 | .1 | .5 | * | .0 | * | .0 | .1 | .9 | |
| SW | .2 | .0 | .1 | .4 | .6 | .2 | * | .1 | .0 | * | 1.6 | |
| W | 1.1 | .1 | .4 | 1.5 | 2.0 | .6 | .2 | .1 | * | .1 | 12.3 | |
| NW | 2.4 | .2 | 1.3 | 4.0 | 6.9 | 2.5 | .7 | .4 | .2 | .2 | 23.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | 1.2 | .0 | .5 | 1.3 | 1.5 | .1 | .0 | * | .0 | .1 | 4.5 | |
| TOT OBS | 166 | 14 | 95 | 258 | 426 | 147 | 35 | 18 | 8 | 14 | 1489 | 2670 |
| TOT PCT | 6.2 | .5 | 3.6 | 9.7 | 16.0 | 5.5 | 1.3 | .7 | .3 | .5 | 55.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| * OR >5000 | .9 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| * OR >3500 | 1.9 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| * OR >2000 | 5.2 | 7.8 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| * OR >1000 | 12.4 | 20.6 | 23.7 | 24.1 | 24.2 | 24.2 | 24.2 | 24.2 |
| * OR >600 | 15.3 | 27.0 | 31.9 | 33.4 | 33.7 | 33.7 | 33.7 | 33.7 |
| * OR >300 | 16.0 | 29.0 | 34.9 | 36.9 | 37.3 | 37.4 | 37.4 | 37.4 |
| * OR >150 | 16.1 | 29.3 | 35.3 | 37.4 | 37.8 | 37.9 | 37.9 | 37.9 |
| * OR > 0 | 16.2 | 29.8 | 36.3 | 38.8 | 40.1 | 41.3 | 43.8 | 43.9 |
| TOTAL | 436 | 800 | 975 | 1042 | 1078 | 1109 | 1177 | 1180 |

TOTAL NUMBER OF OBS: 2685 PCT FREQ NM <5/8: 56.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 37.2 | 6.7 | 5.6 | 3.0 | 2.7 | 2.2 | 4.9 | 6.2 | 26.0 | 5.6 | 2792 |

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | * | .0 | .0 | .1 | .1 | .0 | .0 | .2 | |
| | NO PCP | .5 | .2 | .2 | .2 | .2 | .2 | .5 | 1.7 | .0 | .8 | 4.2 | |
| | TOT % | .5 | .2 | .2 | .2 | .2 | .2 | .5 | 1.7 | .0 | .8 | 4.4 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .1 | .1 | |
| | NO PCP | .4 | .2 | .1 | .0 | * | .1 | .5 | .8 | .0 | .4 | 2.5 | |
| | TOT % | .4 | .2 | .1 | .0 | * | .1 | .5 | .8 | .0 | .4 | 2.5 | |
| 1<2 | PCP | .1 | * | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| | NO PCP | .3 | .1 | .3 | .2 | .1 | .2 | .8 | 1.0 | .0 | .5 | 3.4 | |
| | TOT % | .3 | .1 | .3 | .2 | .1 | .2 | .8 | 1.0 | .0 | .5 | 3.5 | |
| 2<5 | PCP | .1 | .0 | * | .0 | .0 | * | .1 | .1 | .0 | .0 | .3 | |
| | NO PCP | .9 | .3 | .3 | .3 | .3 | .5 | 2.4 | 2.0 | .0 | 1.7 | 8.6 | |
| | TOT % | 1.0 | .3 | .3 | .3 | .3 | .5 | 2.4 | 2.1 | .0 | 1.7 | 8.8 | |
| 5<10 | PCP | .1 | .0 | .0 | .0 | .0 | * | * | .2 | .0 | .0 | .3 | |
| | NO PCP | 9.7 | .7 | .5 | .7 | .7 | 1.1 | 7.4 | 15.5 | .0 | 2.5 | 34.8 | |
| | TOT % | 9.8 | .7 | .5 | .7 | .7 | 1.1 | 7.4 | 15.7 | .0 | 2.5 | 35.1 | |
| 10+ | PCP | * | * | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .2 | |
| | NO PCP | 10.6 | .8 | .7 | .7 | .6 | 1.3 | 6.4 | 22.7 | .0 | 1.5 | 45.4 | |
| | TOT % | 10.6 | .8 | .7 | .7 | .6 | 1.3 | 6.5 | 22.8 | .0 | 1.5 | 45.6 | |
| | TOT OBS | | | | | | | | | | | | 3978 |
| | TOT PCT | 18.7 | 2.3 | 2.0 | 2.1 | 1.9 | 3.5 | 18.1 | 44.1 | .0 | 7.3 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .2 | .1 | .1 | .1 | .1 | .1 | .2 | .5 | .0 | .7 | 2.1 | |
| | 4-10 | .2 | .1 | * | .1 | * | .1 | .2 | .9 | .0 | | 1.7 | |
| | 11-21 | .1 | .0 | .0 | * | * | * | * | .4 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .5 | .2 | .2 | .2 | .2 | .2 | .5 | 1.8 | .0 | .7 | 4.4 | |
| 1/2<1 | 0-3 | .1 | .1 | * | .0 | .0 | * | .2 | .1 | .0 | .4 | .9 | |
| | 4-10 | .2 | .2 | * | .0 | .1 | .1 | .1 | .3 | .0 | | .9 | |
| | 11-21 | .2 | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .0 | | .7 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .4 | .2 | * | .0 | .1 | .1 | .5 | .8 | .0 | .4 | 2.5 | |
| 1<2 | 0-3 | .1 | .1 | .2 | .1 | * | * | .2 | .2 | .0 | .4 | 1.3 | |
| | 4-10 | .1 | * | .1 | .1 | .1 | .2 | .6 | .7 | .0 | | 1.9 | |
| | 11-21 | .1 | * | .0 | * | * | * | .1 | .3 | .0 | | .5 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | TOT % | .3 | .1 | .3 | .2 | .2 | .2 | .8 | 1.2 | .0 | .4 | 3.8 | |
| 2<5 | 0-3 | .3 | .3 | .2 | .2 | .1 | .2 | .5 | .5 | .0 | 1.7 | 4.0 | |
| | 4-10 | .3 | * | .1 | .2 | .2 | .2 | 1.7 | 1.2 | .0 | | 4.1 | |
| | 11-21 | .4 | * | .0 | .0 | .0 | * | .2 | .8 | .0 | | 1.4 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | TOT % | 1.1 | .3 | .3 | .4 | .3 | .5 | 2.4 | 2.6 | .0 | 1.7 | 9.7 | |
| 5<10 | 0-3 | .5 | .3 | .2 | .2 | .2 | .2 | 1.1 | 1.0 | .0 | 2.4 | 6.2 | |
| | 4-10 | 1.8 | .2 | .3 | .4 | .5 | .8 | 4.4 | 5.9 | .0 | | 14.2 | |
| | 11-21 | 2.5 | * | * | .1 | * | .1 | 1.7 | 6.5 | .0 | | 10.9 | |
| | 22+ | .7 | .0 | .0 | .0 | .0 | .0 | .1 | 1.8 | .0 | | 2.5 | |
| | TOT % | 5.5 | .6 | .5 | .7 | .7 | 1.1 | 7.2 | 15.2 | .0 | 2.4 | 33.9 | |
| 10+ | 0-3 | .4 | .1 | .1 | .2 | .1 | .3 | .4 | .6 | .0 | 1.7 | 3.9 | |
| | 4-10 | 3.2 | .4 | .4 | .4 | .4 | .8 | 3.8 | 7.0 | .0 | | 16.4 | |
| | 11-21 | 5.3 | .2 | .1 | .2 | * | .3 | 2.3 | 12.1 | .0 | | 20.5 | |
| | 22+ | 1.4 | .1 | * | * | * | * | .2 | 3.0 | .0 | | 4.8 | |
| | TOT % | 10.4 | .8 | .7 | .7 | .6 | 1.3 | 6.7 | 22.7 | .0 | 1.7 | 45.7 | |
| | TOT OBS | | | | | | | | | | | | 4304 |
| | TOT PCT | 18.3 | 2.3 | 2.0 | 2.1 | 2.0 | 3.4 | 18.2 | 44.3 | .0 | 7.5 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NM
34.6N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.3 | .1 | 2.3 | 10.5 | 12.0 | 4.6 | 1.4 | .4 | .4 | .7 | 36.9 | 63.1 | 694 |
| 06&09 | 7.1 | 1.1 | 3.9 | 6.5 | 10.2 | 5.1 | 1.2 | .5 | .3 | .2 | 36.2 | 63.8 | 644 |
| 12&15 | 8.9 | .5 | 3.9 | 10.9 | 17.6 | 6.0 | 1.5 | 1.0 | .2 | .7 | 51.1 | 48.9 | 615 |
| 18&21 | 4.5 | .4 | 4.4 | 9.8 | 22.1 | 5.9 | 1.2 | .8 | .3 | .6 | 49.9 | 50.1 | 778 |
| TOT | 166 | 14 | 99 | 258 | 429 | 148 | 36 | 18 | 8 | 15 | 1191 | 1940 | 2731 |
| PCT | 6.1 | .5 | 3.6 | 9.4 | 15.7 | 5.4 | 1.3 | .7 | .3 | .5 | 43.6 | 56.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.7 | 2.6 | 2.9 | 7.7 | 35.4 | 48.8 | 1040 |
| 06&09 | 5.0 | 1.7 | 3.2 | 7.9 | 33.2 | 49.0 | 942 |
| 12&15 | 7.4 | 3.7 | 4.7 | 9.9 | 30.0 | 44.3 | 1061 |
| 18&21 | 2.9 | 2.2 | 4.6 | 12.2 | 36.1 | 42.0 | 1318 |
| TOT | 192 | 111 | 171 | 420 | 1475 | 1992 | 4361 |
| PCT | 4.4 | 2.5 | 3.9 | 9.6 | 33.8 | 45.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <500YD | <600 <1 | <1000 <3 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 4.4 | 7.6 | 24.0 | 17.7 | 58.3 | 684 |
| 06&09 | 6.9 | 13.0 | 26.4 | 16.0 | 57.5 | 624 |
| 12&15 | 9.1 | 16.7 | 36.5 | 23.1 | 40.4 | 606 |
| 18&21 | 4.5 | 10.2 | 30.4 | 25.0 | 44.6 | 771 |
| TOT | 163 | 318 | 784 | 554 | 1347 | 2685 |
| PCT | 6.1 | 11.7 | 29.2 | 20.6 | 50.2 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | * | .0 | .1 | * | .0 | .0 | 4 | .2 |
| 75/79 | .0 | * | .1 | .2 | .2 | .1 | .0 | * | 18 | .7 |
| 70/74 | .0 | * | .1 | .2 | .8 | 1.8 | .9 | .2 | 106 | 4.1 |
| 65/69 | .0 | * | .0 | .4 | 1.0 | 6.0 | 10.4 | 3.6 | 555 | 21.4 |
| 60/64 | .0 | .0 | .0 | .1 | 1.6 | 7.8 | 28.0 | 15.5 | 1370 | 52.8 |
| 55/59 | .0 | .0 | .0 | .0 | .2 | 1.3 | 8.2 | 10.4 | 520 | 20.0 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | * | .2 | .7 | 22 | .8 |
| TOTAL | 0 | 3 | 6 | 20 | 95 | 447 | 1235 | 789 | 2595 | 100.0 |
| PCT | .0 | .1 | .2 | .8 | 3.7 | 17.2 | 47.6 | 30.4 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | * | .0 | * | * | .0 | * | * | * | .0 | .0 |
| | .1 | * | * | * | .1 | .0 | .2 | .1 | .0 | .1 |
| | .5 | .2 | .2 | .1 | .3 | .4 | 1.4 | .9 | .0 | .2 |
| | 3.4 | .3 | .2 | .4 | .8 | 1.3 | 5.7 | 7.9 | .0 | 1.3 |
| | 11.7 | .6 | .5 | 1.2 | .6 | 1.0 | 7.4 | 26.2 | .0 | 3.5 |
| | 3.9 | 1.0 | .6 | .4 | .3 | .2 | 1.8 | 10.4 | .0 | 1.5 |
| | .1 | .1 | * | .0 | .0 | .0 | .1 | .5 | .0 | .1 |
| | 19.7 | 2.2 | 1.6 | 2.1 | 2.0 | 3.1 | 16.6 | 46.0 | .0 | 6.7 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 73 | 70 | 63 | 58 | 56 | 54 | 63.6 | 1067 |
| 06&09 | 81 | 70 | 66 | 61 | 56 | 54 | 50 | 61.2 | 972 |
| 12&15 | 82 | 70 | 65 | 60 | 55 | 53 | 51 | 60.3 | 1097 |
| 18&21 | 82 | 76 | 71 | 64 | 57 | 55 | 54 | 63.7 | 1361 |
| TOT | 82 | 73 | 69 | 62 | 56 | 54 | 50 | 62.3 | 4497 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.3 | 3.8 | 20.7 | 52.1 | 22.1 | 84 | 702 |
| 06&09 | .0 | .9 | 2.4 | 10.5 | 45.0 | 41.2 | 87 | 582 |
| 12&15 | .0 | .5 | 1.9 | 10.8 | 45.1 | 41.6 | 88 | 618 |
| 18&21 | .0 | 1.8 | 5.9 | 24.8 | 47.6 | 19.9 | 82 | 727 |
| TOT | 0 | 30 | 96 | 493 | 1293 | 797 | 85 | 2629 |

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | * | * | .1 | * | .0 | 7 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .1 | .2 | .1 | .1 | .1 | * | 17 | .0 | .6 |
| 9/10 | .0 | .0 | .0 | .2 | .5 | .3 | .1 | * | * | 37 | .1 | 1.2 |
| 7/8 | .0 | .0 | * | .4 | 1.1 | .5 | .2 | .0 | * | 68 | .1 | 2.1 |
| 6 | .0 | .0 | .1 | .4 | .7 | .2 | .1 | .0 | .0 | 46 | * | 1.5 |
| 5 | .0 | * | .1 | 1.3 | 1.5 | .5 | .1 | .0 | .0 | 102 | .2 | 3.2 |
| 4 | .0 | .0 | .6 | 2.9 | 1.8 | .5 | .1 | * | .0 | 180 | .4 | 5.6 |
| 3 | .0 | .0 | .7 | 2.2 | 1.6 | .4 | * | .0 | .0 | 148 | .4 | 4.6 |
| 2 | .0 | .3 | 2.1 | 5.9 | 2.1 | .4 | * | .0 | .0 | 322 | 1.0 | 9.8 |
| 1 | .0 | .2 | 2.1 | 3.9 | 1.7 | .1 | .0 | .0 | .0 | 239 | .9 | 7.1 |
| 0 | .0 | .6 | 5.4 | 9.8 | 2.8 | .4 | .1 | .0 | .0 | 570 | 2.2 | 16.9 |
| -1 | .0 | .3 | 3.4 | 4.9 | 1.3 | .3 | .1 | .0 | .0 | 306 | .7 | 9.6 |
| -2 | .0 | .8 | 3.7 | 4.7 | 1.0 | .2 | .0 | .0 | .0 | 369 | 1.5 | 10.9 |
| -3 | .0 | .5 | 2.0 | 2.5 | .6 | .0 | .0 | .0 | .0 | 168 | .8 | 4.8 |
| -4 | .0 | .5 | 2.7 | 2.1 | .4 | * | .0 | .0 | .0 | 170 | .8 | 4.9 |
| -5 | * | .5 | 1.3 | 1.1 | .3 | * | .0 | .0 | .0 | 95 | .6 | 2.5 |
| -6 | .0 | .2 | .4 | .6 | .1 | .0 | .0 | .0 | .0 | 39 | .3 | 1.0 |
| -7/-8 | .0 | .3 | .7 | .7 | .2 | * | .0 | .0 | .0 | 57 | .2 | 1.7 |
| -9/-10 | .0 | .1 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | 23 | .1 | .7 |
| -11/-13 | .0 | .3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 19 | .3 | .6 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * | .0 |
| TOTAL | 1 | 138 | 774 | 1369 | 539 | 122 | 30 | 8 | 3 | 2984 | 320 | 2664 |
| PCT | * | 4.6 | 25.9 | 45.9 | 18.1 | 4.1 | 1.0 | .3 | .1 | 100.0 | 10.7 | 89.3 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | .8 | .0 | .0 | .0 | .0 | 1.4 |
| 1-2 | .4 | 3.3 | 2.3 | .0 | .0 | .0 | 5.9 |
| 3-4 | .0 | 2.4 | 5.4 | 1.3 | .0 | .0 | 9.1 |
| 5-6 | .0 | .4 | 3.9 | .6 | .0 | .0 | 4.9 |
| 7 | .0 | .2 | 1.6 | .6 | .0 | .0 | 2.4 |
| 8-9 | .0 | .0 | .5 | .3 | .0 | .0 | .7 |
| 10-11 | .0 | .0 | .2 | .5 | .0 | .0 | .7 |
| 12 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 13-16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 7.0 | 13.9 | 3.6 | .1 | .0 | 25.6 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .1 | 1.3 | .1 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .1 | .2 | * | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | * | .2 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.9 | .3 | .2 | .0 | .0 | 2.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 3-4 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .3 | .3 | .0 | .0 | .0 | .6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | * | .0 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .5 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .1 | * | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .8 | .7 | .0 | .0 | .0 | 1.8 |

PERIOD: (OVER-ALL) 1963-1973 SEPTEMBER AREA 0034 POINT MUGU NW
TABLE 18 (CONT) 34.6N 121.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .3 | .0 | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | 1.0 | .1 | .0 | .0 | .0 | 1.2 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 3-4 | .1 | .2 | .0 | .0 | .0 | .0 | .4 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .1 | .1 | .0 | .1 | .0 | .0 | .3 | * | .1 | .0 | * | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.5 | .1 | .1 | .0 | .0 | 2.1 | * | 1.1 | * | * | .0 | .0 | 1.2 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .0 | 1.6 | .1 | .0 | .0 | .0 | 1.7 | .3 | 1.2 | .0 | .0 | .0 | .0 | 1.5 | |
| 1-2 | .3 | 2.5 | .6 | .0 | .0 | .0 | 3.3 | .9 | 5.9 | 6.3 | .0 | .0 | .0 | 13.1 | |
| 3-4 | .0 | 1.5 | 1.4 | .1 | .0 | .0 | 3.0 | .3 | 4.1 | 10.3 | 2.0 | .0 | .0 | 16.6 | |
| 5-6 | .1 | .4 | .5 | .1 | .0 | .0 | 1.1 | .0 | 2.1 | 8.3 | 1.9 | .0 | .0 | 12.2 | |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 | .1 | .3 | 3.4 | 1.9 | .0 | .0 | 5.7 | |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .1 | 1.2 | 1.0 | .0 | .0 | 2.3 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 | .4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .4 | 6.0 | 2.9 | .2 | .0 | .0 | 9.. | 1.6 | 13.7 | 29.5 | 7.4 | .0 | .0 | 52.1 | 95.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.9 | 5.1 | .1 | .0 | .0 | .0 | 11.2 | |
| 1-2 | 1.. | 15.1 | 9.7 | .0 | .0 | .0 | 26.5 | |
| 3-4 | .4 | 8.4 | 17.2 | 3.5 | .0 | .0 | 29.5 | |
| 5-6 | .1 | 3.0 | 13.0 | 2.6 | .0 | .0 | 18.7 | |
| 7 | .3 | .8 | 5.3 | 2.8 | .0 | .0 | 9.1 | |
| 8-9 | .0 | .1 | 1.8 | 1.3 | .0 | .0 | 3.2 | |
| 10-11 | .0 | .0 | .3 | .8 | .0 | .0 | 1.0 | |
| 12 | .0 | .0 | .1 | .3 | .0 | .0 | .4 | |
| 13-16 | .0 | .0 | .0 | .3 | .1 | .0 | .4 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 777 |
| TOT PCT | 8.5 | 32.4 | 47.5 | 11.5 | .1 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.3 | 13.8 | 17.4 | 6.6 | 3.3 | 1.7 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 708 | 3 |
| 6-7 | .1 | 1.7 | 8.3 | 9.1 | 5.0 | 2.1 | .6 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 423 | 5 |
| 8-9 | .1 | .8 | 3.0 | 3.5 | 3.5 | 1.6 | .4 | .4 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 211 | 6 |
| 10-11 | .0 | .6 | .8 | 1.0 | .9 | 1.2 | .3 | .3 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 81 | 6 |
| 12-13 | .0 | .0 | .2 | .2 | .1 | .1 | .3 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18 | 8 |
| >13 | .0 | .0 | .0 | .2 | .2 | .1 | .1 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 14 | 9 |
| INDET | 3.8 | 1.0 | .3 | .7 | .2 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 98 | 2 |
| TOTAL | 96 | 277 | 467 | 329 | 205 | 109 | 32 | 23 | 11 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1553 | 4 |
| PCT | 6.2 | 17.8 | 30.1 | 21.2 | 13.2 | 7.0 | 2.1 | 1.5 | .7 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT MUGU NW
34.6N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .3 | .2 | 1.1 | .0 | .0 | .0 | .0 | 1.4 | .1 | .0 | 13.0 | .4 | 5.8 | | .0 | 79.4 |
| NE | .2 | .0 | .7 | .0 | .0 | .0 | .0 | .7 | .2 | .0 | 24.8 | .5 | 14.7 | | .7 | 58.4 |
| E | 1.5 | .0 | .9 | .0 | .0 | .0 | .0 | 1.5 | .3 | .0 | 27.4 | .0 | 11.7 | | .9 | 58.3 |
| SE | 1.0 | .6 | 1.8 | .0 | .0 | .0 | .0 | 3.4 | 1.7 | .0 | 20.2 | .0 | 9.9 | | .0 | 64.8 |
| S | 1.6 | 1.4 | 1.8 | .0 | .0 | .0 | .0 | 4.8 | 1.3 | .0 | 20.9 | .0 | 14.2 | | .0 | 58.8 |
| SW | 1.5 | 1.0 | 1.0 | .0 | .0 | .0 | .0 | 3.0 | .6 | .0 | 21.6 | .0 | 17.4 | | .0 | 57.5 |
| W | .5 | .4 | .4 | .0 | .0 | .0 | .0 | 1.3 | .2 | .0 | 17.7 | .3 | 16.2 | | .2 | 64.1 |
| NW | .1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 | .2 | .0 | 19.9 | .2 | 7.7 | | * | 75.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .4 | .4 | .4 | .0 | .0 | .0 | .0 | 1.1 | .4 | .0 | 44.3 | .4 | 19.3 | | .0 | 34.6 |
| TOT PCT | .4 | .3 | .7 | .0 | .0 | .0 | .0 | 1.3 | .3 | .0 | 19.0 | .3 | 10.7 | | .1 | 68.3 |
| TOT OBS: | 4309 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | .6 | .4 | .7 | .0 | .0 | .0 | .0 | 1.5 | .4 | .0 | 13.6 | .0 | 13.0 | | .1 | 71.3 |
| 06&09 | .5 | .2 | .6 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | 18.6 | .2 | 7.6 | | .1 | 72.6 |
| 12&15 | .4 | .5 | .9 | .0 | .0 | .0 | .0 | 1.7 | .4 | .0 | 23.6 | .2 | 7.5 | | .0 | 66.8 |
| 18&21 | .2 | .2 | .6 | .0 | .0 | .0 | .0 | 1.0 | .3 | .0 | 20.7 | .6 | 13.6 | | .2 | 63.6 |
| TOT PCT | .4 | .3 | .7 | .0 | .0 | .0 | .0 | 1.3 | .3 | .0 | 19.1 | .3 | 10.7 | | .1 | 68.3 |
| TOT OBS: | 4364 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.8 | 7.5 | 8.0 | 2.3 | .1 | .0 | | 19.7 | 12.7 | 16.8 | 16.0 | 25.1 | 19.8 | 24.0 | 22.0 | 18.1 | 16.1 |
| NE | 1.6 | 2.0 | .8 | .1 | * | .0 | | 4.6 | 8.8 | 1.7 | 2.7 | 4.7 | 7.1 | 7.5 | 9.8 | 3.6 | 1.7 |
| E | 1.3 | 1.7 | .8 | .1 | .0 | .0 | | 3.9 | 6.9 | 1.0 | 2.4 | 5.2 | 5.0 | 4.9 | 9.0 | 5.0 | 2.4 |
| SE | .7 | 2.0 | 1.1 | .1 | * | .0 | | 4.0 | 8.4 | 3.6 | 2.7 | 3.1 | 4.5 | 3.5 | 4.9 | 5.2 | 3.9 |
| S | 1.0 | 2.5 | 1.1 | .1 | * | .0 | | 4.7 | 8.1 | 5.1 | 4.3 | 4.5 | 3.5 | 3.9 | 3.3 | 6.0 | 6.1 |
| SW | 1.1 | 2.8 | .6 | * | * | .0 | | 4.6 | 6.7 | 4.8 | 5.2 | 2.1 | 3.7 | 2.2 | 2.9 | 6.9 | 7.7 |
| W | 2.1 | 9.0 | 3.4 | .4 | * | .0 | | 14.9 | 8.1 | 22.5 | 18.2 | 11.0 | 11.1 | 8.3 | 9.2 | 14.2 | 21.1 |
| NW | 2.6 | 14.8 | 15.0 | 4.1 | .4 | .0 | | 36.9 | 12.7 | 41.6 | 41.8 | 38.1 | 36.2 | 36.3 | 30.9 | 32.3 | 38.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.7 | | | | | | | 6.7 | .0 | 2.7 | 6.8 | 8.2 | 9.1 | 9.5 | 8.1 | 8.7 | 2.9 |
| TOT OBS | 911 | 2034 | 1408 | 343 | 32 | 0 | 4728 | | 10.0 | 843 | 384 | 595 | 397 | 673 | 507 | 762 | 627 |
| TOT PCT | 19.0 | 42.9 | 30.7 | 7.2 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.5 | 9.3 | 5.1 | .7 | * | | 19.7 | 12.7 | 16.5 | 23.0 | 23.1 | 17.2 |
| NE | 2.9 | 1.4 | .3 | * | .0 | | 4.6 | 6.8 | 2.1 | 5.7 | 8.5 | 2.8 |
| E | 2.4 | 1.2 | .4 | .0 | .0 | | 3.9 | 6.9 | 1.5 | 3.9 | 6.7 | 3.8 |
| SE | 1.9 | 1.6 | .4 | * | .0 | | 4.0 | 8.4 | 3.3 | 3.7 | 4.1 | 4.6 |
| S | 2.5 | 1.8 | .4 | .1 | * | | 4.7 | 8.1 | 4.9 | 4.1 | 3.6 | 6.0 |
| SW | 2.6 | 1.8 | .2 | .0 | * | | 4.6 | 6.7 | 5.0 | 2.8 | 2.5 | 7.3 |
| W | 7.0 | 7.0 | .9 | .1 | .0 | | 14.9 | 8.1 | 21.1 | 11.0 | 8.7 | 17.3 |
| NW | 8.3 | 18.5 | 8.8 | 1.3 | * | | 36.9 | 12.7 | 41.7 | 37.3 | 34.0 | 34.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.7 | | | | | | 6.7 | .0 | 4.0 | 8.6 | 8.9 | 6.0 |
| TOT OBS | 1857 | 2037 | 781 | 110 | 3 | 4788 | | 10.0 | 1227 | 992 | 1180 | 1389 |
| TOT PCT | 38.8 | 42.5 | 16.3 | 2.3 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1957-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.0 | 9.7 | 43.2 | 31.7 | 9.9 | 1.5 | .0 | 11.2 | 100.0 | 1227 |
| 06&09 | 8.6 | 12.0 | 37.6 | 31.6 | 10.0 | .3 | .0 | 10.5 | 100.0 | 992 |
| 12&15 | 8.9 | 14.0 | 39.5 | 32.4 | 5.1 | .2 | .0 | 9.3 | 100.0 | 1180 |
| 18&21 | 6.0 | 13.3 | 47.9 | 27.6 | 4.5 | .6 | .0 | 9.1 | 100.0 | 1389 |
| TOT | 323 | 588 | 2034 | 1468 | 343 | 32 | 0 | 10.0 | | 4788 |
| PCT | 6.7 | 12.3 | 42.5 | 30.7 | 7.2 | .7 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.2 | 1.7 | 3.4 | 4.4 | | 3.5 |
| NE | 3.1 | .2 | .8 | 1.7 | | 3.3 |
| E | 1.9 | .3 | .7 | 1.4 | | 4.0 |
| SE | 1.5 | .2 | 1.1 | 1.9 | | 4.8 |
| S | 1.6 | .4 | 1.2 | 1.9 | | 4.9 |
| SW | 1.8 | .3 | .8 | 1.4 | | 4.1 |
| W | 7.3 | 1.2 | 2.3 | 3.7 | | 3.5 |
| NW | 16.2 | 3.4 | 5.9 | 9.1 | | 3.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.8 | .3 | .7 | 4.8 | | 5.2 |
| TOT OBS | 1312 | 228 | 484 | 863 | 2887 | 3.9 |
| TOT PCT | 45.4 | 7.9 | 16.8 | 29.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .9 | .2 | .6 | 1.3 | 2.4 | 1.2 | .4 | .0 | .0 | .2 | 11.5 | |
| NE | .4 | * | .1 | .5 | .7 | .3 | * | .0 | * | .1 | 3.6 | |
| E | .5 | * | .1 | .5 | .4 | .4 | .0 | .0 | * | .1 | 2.5 | |
| SE | .3 | .0 | .1 | .4 | .6 | .5 | .1 | .0 | * | .0 | 2.4 | |
| S | .4 | .0 | * | .6 | .8 | .4 | * | .0 | .1 | * | 2.7 | |
| SW | .2 | .0 | .1 | .6 | .5 | .2 | .1 | .. | .1 | * | 2.3 | |
| W | .6 | .0 | .3 | 1.2 | 1.9 | .8 | .2 | * | .1 | .1 | 9.2 | |
| NW | 2.0 | .2 | 1.2 | 2.4 | 4.5 | 1.6 | .5 | .1 | * | .2 | 21.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | 1.7 | .1 | .6 | 1.0 | 1.3 | .5 | .1 | .0 | .0 | .1 | 3.3 | |
| TOT OBS | 197 | 15 | 92 | 247 | 379 | 171 | 43 | 5 | 9 | 21 | 1708 | 2887 |
| TOT PCT | 6.8 | .5 | 3.2 | 8.6 | 13.1 | 5.9 | 1.5 | .2 | .3 | .7 | 59.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >5000 | .6 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >3500 | 1.3 | 2.4 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| * OR >2000 | 3.8 | 7.3 | 8.6 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| * OR >1000 | 9.1 | 16.8 | 20.7 | 21.5 | 21.8 | 21.8 | 21.8 | 21.8 |
| * OR >600 | 11.5 | 21.7 | 27.1 | 29.4 | 30.4 | 30.4 | 30.5 | 30.5 |
| * OR >300 | 12.0 | 23.2 | 29.1 | 32.0 | 33.4 | 33.5 | 33.6 | 33.6 |
| * OR >150 | 12.1 | 23.4 | 29.5 | 32.5 | 33.9 | 34.0 | 34.1 | 34.1 |
| * OR > 0 | 12.1 | 23.8 | 30.3 | 33.9 | 36.6 | 37.7 | 40.5 | 40.8 |
| TOTAL | 352 | 690 | 877 | 983 | 1062 | 1093 | 1173 | 1184 |

TOTAL NUMBER OF OBS: 2899 PCT FREQ NH <5/8: 59.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 37.0 | 6.9 | 7.9 | 4.3 | 2.9 | 3.0 | 5.0 | 5.6 | 21.3 | 6.1 | 2982 |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT MUGU NW
34.6N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | * | |
| <1/2 | NO PCP | .7 | .3 | .4 | .2 | .2 | .2 | .5 | 1.5 | .0 | .9 | 4.9 | |
| | TOT % | .7 | .3 | .4 | .2 | .2 | .2 | .5 | 1.5 | .0 | .9 | 4.9 | |
| | PCP | .0 | .0 | .0 | * | * | * | .0 | .0 | .0 | .0 | * | |
| 1/2<1 | NO PCP | .7 | .2 | .2 | .1 | .2 | .1 | .3 | 1.1 | .0 | .6 | 3.6 | |
| | TOT % | .7 | .2 | .2 | .2 | .2 | .2 | .3 | 1.1 | .0 | .6 | 3.7 | |
| | PCP | * | .0 | * | * | .0 | * | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .4 | .4 | .2 | .2 | .2 | .3 | .8 | .8 | .0 | .7 | 4.0 | |
| | TOT % | .4 | .4 | .2 | .2 | .2 | .3 | .8 | .9 | .0 | .7 | 4.2 | |
| | PCP | * | * | .0 | .1 | .1 | * | .1 | .1 | .0 | * | .4 | |
| 2<5 | NO PCP | .9 | .8 | .4 | .5 | .5 | .5 | 2.0 | 2.5 | .0 | 1.6 | 9.7 | |
| | TOT % | 1.0 | .9 | .4 | .5 | .6 | .6 | 2.0 | 2.6 | .0 | 1.6 | 10.0 | |
| | PCP | .1 | * | * | * | .1 | * | .1 | .1 | .0 | .0 | .5 | |
| 5<10 | NO PCP | 5.9 | 1.5 | 1.6 | 1.5 | 1.8 | 1.8 | 5.5 | 11.3 | .0 | 1.4 | 32.3 | |
| | TOT % | 6.0 | 1.6 | 1.6 | 1.6 | 1.9 | 1.9 | 5.5 | 11.3 | .0 | 1.4 | 32.8 | |
| | PCP | .1 | .0 | * | * | * | .0 | * | * | .0 | * | .2 | |
| 10+ | NO PCP | 11.2 | 1.7 | 1.1 | 1.4 | 1.7 | 1.5 | 5.6 | 18.8 | .0 | 1.3 | 44.3 | |
| | TOT % | 11.3 | 1.7 | 1.2 | 1.4 | 1.7 | 1.5 | 5.6 | 18.8 | .0 | 1.3 | 44.5 | |
| | TOT OBS | | | | | | | | | | | | 4300 |
| | TOT PCT | 20.1 | 4.8 | 4.0 | 4.1 | 4.8 | 4.6 | 14.8 | 36.2 | .0 | 6.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .2 | .2 | .2 | .1 | .1 | .1 | .1 | .3 | .0 | .8 | 2.1 | |
| <1/2 | 4-10 | .3 | .1 | .1 | .1 | * | .1 | .4 | .8 | .0 | | 1.9 | |
| | 11-21 | .1 | * | .1 | .1 | .1 | * | .1 | .4 | .0 | | .8 | |
| | 22+ | * | .0 | * | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .7 | .3 | .4 | .2 | .2 | .2 | .5 | 1.6 | .0 | .8 | 5.0 | |
| | 0-3 | .1 | .2 | .1 | * | .1 | .1 | .1 | .1 | .0 | .6 | 1.4 | |
| 1/2<1 | 4-10 | .3 | * | .1 | .1 | .1 | * | .1 | .5 | .0 | | 1.1 | |
| | 11-21 | .3 | * | * | * | .0 | .0 | .1 | .4 | .0 | | .8 | |
| | 22+ | .1 | .0 | * | * | * | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .7 | .2 | .2 | .1 | .2 | .1 | .3 | 1.0 | .0 | .6 | 3.5 | |
| | 0-3 | .1 | .3 | .2 | .1 | .1 | .1 | .3 | .1 | .0 | .7 | 1.9 | |
| 1<2 | 4-10 | .2 | * | * | .1 | .1 | .2 | .4 | .5 | .0 | | 1.6 | |
| | 11-21 | .1 | * | * | * | * | * | .1 | .3 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | TOT % | .4 | .3 | .2 | .2 | .2 | .3 | .8 | 1.0 | .0 | .7 | 4.2 | |
| | 0-3 | .3 | .5 | .3 | .2 | .2 | .3 | .4 | .5 | .0 | 1.6 | 4.1 | |
| 2<5 | 4-10 | .5 | .3 | .2 | .2 | .3 | .3 | 1.5 | 1.4 | .0 | | 4.6 | |
| | 11-21 | .3 | * | .0 | .1 | .1 | * | .2 | .7 | .0 | | 1.4 | |
| | 22+ | * | * | .0 | * | * | .0 | * | .2 | .0 | | .3 | |
| | TOT % | 1.0 | .8 | .5 | .5 | .6 | .6 | 2.1 | 2.7 | .0 | 1.6 | 10.4 | |
| | 0-3 | .6 | .5 | .4 | .1 | .2 | .4 | .8 | .6 | .0 | 1.4 | 5.1 | |
| 5<10 | 4-10 | 2.7 | .7 | .8 | .6 | 1.0 | 1.1 | 3.3 | 4.4 | .0 | | 14.6 | |
| | 11-21 | 2.1 | .2 | .4 | .7 | .3 | .3 | 1.1 | 5.3 | .0 | | 10.6 | |
| | 22+ | .4 | * | * | .1 | .1 | * | .2 | 1.0 | .0 | | 1.8 | |
| | TOT % | 5.8 | 1.5 | 1.6 | 1.5 | 1.8 | 1.8 | 5.4 | 11.3 | .0 | 1.4 | 32.1 | |
| | 0-3 | .6 | .1 | .2 | .2 | .2 | .2 | .4 | .7 | .0 | 1.6 | 4.1 | |
| 10+ | 4-10 | 3.5 | 1.0 | .6 | .9 | .9 | 1.1 | 3.3 | 7.2 | .0 | | 18.6 | |
| | 11-21 | 5.1 | .6 | .3 | .2 | .4 | .2 | 1.8 | 8.0 | .0 | | 16.6 | |
| | 22+ | 1.9 | .1 | * | * | * | * | .2 | 3.2 | .0 | | 5.5 | |
| | TOT % | 11.1 | 1.7 | 1.2 | 1.3 | 1.6 | 1.5 | 5.7 | 19.1 | .0 | 1.6 | 44.8 | |
| | TOT OBS | | | | | | | | | | | | 4605 |
| | TOT PCT | 19.7 | 4.7 | 4.0 | 4.0 | 4.7 | 4.5 | 14.9 | 36.7 | .0 | 6.7 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT MUGU NW
34.0N 12'.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.6 | .5 | 2.4 | 8.8 | 13.2 | 4.2 | 1.4 | .2 | .1 | .7 | 36.1 | 63.9 | 806 |
| 06&09 | 6.6 | .6 | 3.2 | 5.7 | 12.4 | 6.0 | 1.3 | .1 | .4 | .4 | 37.0 | 63.0 | 679 |
| 12&15 | 11.6 | .6 | 3.6 | 9.3 | 10.4 | 8.3 | .9 | .3 | .5 | .8 | 46.2 | 53.8 | 636 |
| 18&21 | 5.1 | .4 | 3.4 | 9.9 | 15.2 | 5.7 | 2.1 | .1 | .2 | .8 | 42.9 | 57.1 | 828 |
| TOT | 198 | 15 | 92 | 251 | 382 | 175 | 43 | 5 | 9 | 21 | 1191 | 1758 | 2949 |
| PCT | 6.7 | .5 | 3.1 | 8.5 | 13.0 | 5.9 | 1.5 | .2 | .3 | .7 | 40.4 | 59.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.3 | 3.2 | 3.6 | 9.4 | 37.2 | 44.4 | 1200 |
| 06&09 | 5.4 | 3.0 | 3.9 | 9.7 | 30.9 | 47.1 | 985 |
| 12&15 | 9.2 | 4.2 | 4.5 | 9.4 | 28.4 | 44.3 | 1143 |
| 18&21 | 3.7 | 3.5 | 5.1 | 12.5 | 32.0 | 43.1 | 1333 |
| TOT | 234 | 163 | 200 | 484 | 1502 | 2078 | 4661 |
| PCT | 5.0 | 3.5 | 4.3 | 10.4 | 32.2 | 44.6 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 4.6 | 8.7 | 27.6 | 16.6 | 55.9 | 791 |
| 06&09 | 6.6 | 11.8 | 28.6 | 16.5 | 54.9 | 667 |
| 12&15 | 11.8 | 18.5 | 36.7 | 16.5 | 46.8 | 626 |
| 18&21 | 5.2 | 10.7 | 33.1 | 17.4 | 49.4 | 815 |
| TOT | 196 | 351 | 909 | 486 | 1504 | 2899 |
| PCT | 6.8 | 12.1 | 31.4 | 16.8 | 51.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .2 | .0 | .0 | .0 | * | .0 | .0 | .0 | 6 | .2 |
| 75/79 | .1 | * | .1 | .3 | * | * | .0 | .0 | 18 | .7 |
| 70/74 | .1 | .1 | .2 | .2 | .6 | .7 | .6 | .1 | 75 | 2.7 |
| 65/69 | .1 | * | .1 | .5 | 1.4 | 4.7 | 6.6 | 3.1 | 461 | 16.7 |
| 60/64 | .0 | .2 | * | .3 | 2.8 | 10.3 | 22.4 | 13.1 | 1359 | 49.2 |
| 55/59 | .0 | .0 | * | .2 | .4 | 2.3 | 11.2 | 13.1 | 751 | 27.2 |
| 50/54 | .0 | * | .2 | .1 | .2 | .4 | .7 | 1.6 | 86 | 3.1 |
| 45/49 | .0 | .0 | .0 | * | * | * | * | .1 | 6 | .2 |
| TOTAL | 17 | 11 | 18 | 44 | 159 | 510 | 1147 | 856 | 2762 | 100.0 |
| PCT | .6 | .4 | .7 | 1.6 | 5.8 | 18.5 | 41.5 | 31.0 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .1 | .0 | .0 | .0 | * | .0 | .0 | * |
| .1 | .1 | .1 | * | * | * | .1 | .1 | .0 | * |
| .3 | .1 | .1 | .3 | .4 | .2 | .6 | .6 | .0 | .3 |
| 2.3 | .6 | .7 | .9 | 1.6 | 1.3 | 4.0 | 4.5 | .0 | .7 |
| 9.8 | 1.7 | 1.9 | 2.7 | 2.6 | 1.9 | 7.3 | 19.4 | .0 | 2.0 |
| 6.4 | 1.5 | 1.0 | .6 | .3 | .6 | 2.4 | 11.8 | .0 | 3.5 |
| .6 | .8 | .3 | * | * | * | .1 | .7 | .0 | .5 |
| * | .1 | * | .0 | * | * | .0 | * | .0 | .0 |
| 19.6 | 4.8 | 4.2 | 4.6 | 5.0 | 4.1 | 14.5 | 37.2 | .0 | 6.0 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 73 | 69 | 62 | 57 | 54 | 49 | 62.5 | 1229 |
| 06&09 | 82 | 68 | 65 | 60 | 55 | 52 | 50 | 60.2 | 997 |
| 12&15 | 81 | 71 | 65 | 60 | 53 | 51 | 48 | 59.5 | 1192 |
| 18&21 | 83 | 75 | 70 | 63 | 57 | 54 | 46 | 62.8 | 1389 |
| TOT | 83 | 73 | 68 | 61 | 55 | 52 | 46 | 61.4 | 4807 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .3 | 2.2 | 7.6 | 19.7 | 43.7 | 26.6 | 83 | 788 |
| 06&09 | .5 | 1.9 | 2.9 | 12.1 | 40.6 | 42.0 | 86 | 593 |
| 12&15 | .9 | 2.7 | 3.3 | 12.6 | 39.7 | 40.8 | 86 | 665 |
| 18&21 | .8 | 3.6 | 8.4 | 27.4 | 40.7 | 19.0 | 81 | 751 |
| TOT | 17 | 73 | 162 | 517 | 1135 | 873 | 84 | 2797 |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .1 | 5 | .0 | .2 |
| 14/16 | .0 | .0 | .0 | .0 | .1 | .1 | .1 | .1 | .0 | 10 | * | .3 |
| 11/13 | .0 | .0 | .0 | .1 | .2 | .2 | .3 | .1 | .0 | 25 | .0 | .8 |
| 9/10 | .0 | .0 | .0 | .1 | .2 | .3 | .2 | .0 | .0 | 24 | .1 | .7 |
| 7/8 | .0 | .0 | .1 | .3 | .7 | .5 | .1 | .0 | .0 | 57 | .1 | 1.6 |
| 6 | .0 | .0 | .1 | .3 | .7 | .2 | .0 | .0 | .0 | 45 | .2 | 1.2 |
| 5 | .0 | .0 | .2 | 1.1 | 1.0 | .5 | * | .0 | .0 | 88 | .2 | 2.5 |
| 4 | .0 | * | .7 | 2.4 | 1.9 | .2 | .0 | .0 | .0 | 170 | .6 | 4.6 |
| 3 | .0 | .1 | .8 | 1.6 | 1.4 | .2 | * | .0 | .0 | 133 | .4 | 3.7 |
| 2 | .0 | .1 | 2.1 | 5.4 | 2.2 | .2 | .0 | .0 | .0 | 322 | .9 | 9.0 |
| 1 | .0 | .1 | 2.6 | 4.5 | 1.8 | * | .0 | .0 | .0 | 289 | .9 | 8.0 |
| 0 | .0 | .6 | 5.3 | 8.1 | 1.8 | .2 | * | .0 | .0 | 519 | 2.1 | 14.0 |
| -1 | .0 | .9 | 4.5 | 4.9 | .8 | .1 | .0 | .0 | .0 | 361 | 1.4 | 9.8 |
| -2 | .1 | 1.2 | 5.5 | 4.6 | .6 | * | .0 | .0 | .0 | 390 | 2.2 | 9.9 |
| -3 | .0 | .6 | 3.5 | 3.7 | .3 | .0 | .0 | .0 | .0 | 263 | 1.0 | 7.1 |
| -4 | .1 | 1.1 | 3.5 | 1.7 | .1 | .0 | .0 | .0 | .0 | 212 | 1.3 | 5.3 |
| -5 | * | .8 | 2.3 | 1.5 | .1 | .0 | .0 | .0 | .0 | 152 | .8 | 3.9 |
| -6 | * | .5 | 1.3 | .7 | .1 | .0 | .0 | .0 | .0 | 82 | .3 | 2.2 |
| -7/-8 | .0 | .6 | 1.2 | .4 | .0 | .0 | .0 | .0 | .0 | 73 | .4 | 1.9 |
| -9/-10 | .0 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | 12 | .1 | .3 |
| -11/-13 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * | .0 |
| -14/-16 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| TOTAL | 9 | 221 | 1091 | 1342 | 452 | 89 | 25 | 5 | 2 | 3236 | 421 | 2815 |
| PCT | .3 | 6.8 | 33.7 | 41.5 | 14.0 | 2.8 | .8 | .2 | .1 | 100.0 | 13.0 | 87.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .7 | 1.8 | .0 | .0 | .0 | .0 | 2.6 |
| 1-2 | .2 | 5.5 | 2.7 | .0 | .0 | .0 | 8.4 |
| 3-4 | .0 | 2.1 | 4.8 | .8 | .0 | .0 | 7.1 |
| 5-6 | .0 | .5 | 3.2 | .8 | .1 | .0 | 4.6 |
| 7 | .0 | .2 | 1.1 | .6 | .0 | .0 | 2.0 |
| 8-9 | .0 | .0 | .6 | .3 | .0 | .0 | .9 |
| 10-11 | .0 | .0 | .1 | .3 | .1 | .0 | .5 |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .1 | .1 | .1 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.0 | 10.1 | 12.2 | 2.9 | .3 | .0 | 26.5 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .7 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | .6 | .5 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .5 | .3 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | .0 | .3 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.8 | 1.4 | .1 | .0 | .0 | 3.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | .7 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .0 | .3 | .2 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .1 | .4 | .0 | .0 | .0 | .5 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 1.2 | .7 | .0 | .0 | .0 | 2.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | .5 | 1.8 | .0 | .0 | .0 | 2.4 |
| 3-4 | .0 | .5 | .2 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.5 | 2.3 | .1 | .0 | .0 | 4.1 |

PERIOD: (OVER-ALL) 1963-1979

OCTOBER

TABLE 18 (CONT)

AREA 0034 POINT HUGU NW
34.6N 121.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .7 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .0 | .9 | 1.0 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .1 | .4 | .2 | .0 | .0 | .7 |
| 5-6 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.8 | 1.5 | .2 | .0 | .0 | 3.7 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .8 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .1 | 1.0 | .1 | .0 | .0 | .0 | 1.3 |
| 3-4 | * | .4 | .0 | * | .0 | .0 | .4 |
| 5-6 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 7 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.7 | .2 | * | .0 | .0 | 3.2 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 2.0 | .2 | .0 | .0 | .0 | 2.3 |
| 1-2 | .3 | 2.3 | 1.1 | .0 | .0 | .0 | 3.7 |
| 3-4 | .2 | 1.6 | 1.2 | .0 | .0 | .0 | 2.9 |
| 5-6 | .0 | .1 | .7 | .0 | .0 | .0 | .8 |
| 7 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 6.0 | 3.5 | .1 | .0 | .0 | 10.2 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .3 | 3.2 | .6 | .0 | .0 | .0 | 4.1 | |
| 1-2 | .3 | 6.7 | 5.0 | .0 | .0 | .0 | 11.9 | |
| 3-4 | .4 | 4.7 | 8.7 | 1.0 | .0 | .0 | 14.8 | |
| 5-6 | .0 | .6 | 4.4 | 1.2 | * | .0 | 6.2 | |
| 7 | .0 | .1 | 1.8 | 1.2 | .4 | .0 | 3.5 | |
| 8-9 | .0 | .0 | .5 | .7 | .1 | .0 | 1.3 | |
| 10-11 | .0 | * | .2 | .2 | .0 | .0 | .4 | |
| 12 | .0 | .0 | * | .1 | .2 | .0 | .4 | |
| 13-16 | .0 | .0 | * | .1 | * | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .9 | 15.3 | 21.3 | 4.5 | .8 | .0 | 42.8 | 96.2 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.8 | 10.5 | .8 | .0 | .0 | .0 | 17.1 | |
| 1-2 | 1.3 | 17.7 | 12.4 | .0 | .0 | .0 | 31.4 | |
| 3-4 | .7 | 9.9 | 15.4 | 2.0 | .0 | .0 | 28.0 | |
| 5-6 | .0 | 1.5 | 9.1 | 2.1 | .1 | .0 | 12.9 | |
| 7 | .0 | .6 | 3.3 | 2.0 | .4 | .0 | 6.3 | |
| 8-9 | .0 | .0 | 1.1 | 1.0 | .1 | .0 | 2.1 | |
| 10-11 | .0 | .1 | .4 | .5 | .1 | .0 | 1.1 | |
| 12 | .0 | .0 | .1 | .1 | .2 | .0 | .5 | |
| 13-16 | .0 | .0 | .2 | .2 | .1 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.8 | 40.3 | 42.9 | 8.0 | 1.1 | .0 | 100.0 | 842 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 4.3 | 14.4 | 15.6 | 6.9 | 1.5 | .9 | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 772 | 3 |
| 6-7 | .1 | 2.5 | 6.0 | 7.1 | 4.6 | 2.5 | 1.0 | .6 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 432 | 5 |
| 8-9 | .0 | 1.4 | 3.3 | 2.5 | 4.0 | 2.2 | .8 | .4 | .5 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 264 | 6 |
| 10-11 | .0 | .4 | .7 | 1.0 | .9 | 1.1 | .7 | .5 | .3 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 107 | 8 |
| 12-13 | .0 | .0 | .3 | .5 | .6 | .5 | .7 | .3 | .0 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 57 | 8 |
| >13 | .0 | .0 | .0 | .1 | .1 | .1 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 8 | 9 |
| INDET | 3.4 | 1.6 | .5 | .3 | .1 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 105 | 1 |
| TOTAL | 136 | 355 | 461 | 321 | 204 | 127 | 65 | 41 | 22 | 8 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1745 | 4 |
| PCT | 7.8 | 20.3 | 26.4 | 18.4 | 11.7 | 7.3 | 3.7 | 2.3 | 1.3 | .5 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT MUGU NW
34.7N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .5 | .1 | .7 | .0 | .0 | .0 | .0 | 1.3 | .4 | .2 | 8.1 | .0 | 4.3 | .1 | | 85.6 |
| NE | 1.6 | .0 | 2.3 | .0 | .0 | .0 | .3 | 4.2 | .7 | .0 | 12.3 | .3 | 8.4 | .2 | | 73.9 |
| E | 4.5 | 1.8 | 1.0 | .0 | .0 | .0 | .0 | 7.3 | 1.4 | .0 | 14.8 | .0 | 6.4 | .8 | | 69.3 |
| SE | 5.8 | 2.3 | 3.4 | .0 | .0 | .0 | .0 | 11.0 | 4.4 | .0 | 9.8 | .6 | 7.8 | .0 | | 66.4 |
| S | 6.3 | 1.2 | 3.3 | .0 | .0 | .0 | .0 | 10.9 | 7.3 | .0 | 10.5 | .5 | 6.3 | .0 | | 64.5 |
| SW | 3.0 | .3 | 2.9 | .0 | .0 | .0 | .0 | 6.2 | 2.3 | .0 | 11.3 | .6 | 5.8 | .0 | | 73.8 |
| W | .3 | 1.2 | 1.1 | .0 | .0 | .0 | .0 | 2.6 | 1.0 | .2 | 7.3 | .2 | 9.6 | .0 | | 79.3 |
| NW | .4 | .5 | .6 | .0 | .0 | .0 | .0 | 1.5 | .5 | .2 | 8.8 | .1 | 4.5 | .0 | | 84.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | .8 | .4 | 25.6 | .4 | 13.6 | .0 | | 58.9 |
| TOT PCT | 1.4 | .6 | 1.2 | .0 | .0 | .0 | * | 3.1 | 1.2 | .2 | 10.4 | .2 | 6.3 | .1 | | 78.6 |
| TOT OBS: | 3995 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | 1.7 | .5 | 1.1 | .0 | .0 | .0 | .0 | 3.2 | 1.1 | .3 | 8.6 | .2 | 7.1 | .1 | | 79.5 |
| 06&09 | 1.1 | .4 | 1.2 | .0 | .0 | .0 | .0 | 2.6 | 1.4 | .2 | 12.2 | .2 | 5.5 | .0 | | 77.9 |
| 12&15 | 1.7 | .9 | 1.5 | .0 | .0 | .0 | .1 | 4.2 | 1.8 | .1 | 12.2 | .3 | 4.4 | .0 | | 77.3 |
| 18&21 | 1.0 | .8 | .9 | .0 | .0 | .0 | .0 | 2.7 | 1.0 | .0 | 9.1 | .0 | 7.7 | .2 | | 79.3 |
| TOT PCT | 1.4 | .6 | 1.2 | .0 | .0 | .0 | * | 3.2 | 1.2 | .1 | 10.4 | .2 | 6.3 | .1 | | 78.6 |
| TOT OBS: | 4045 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.9 | 8.6 | 8.3 | 2.9 | .2 | .0 | | 21.9 | 12.7 | 18.3 | 21.5 | 22.8 | 25.4 | 22.6 | 23.7 | 21.6 | 21.2 |
| NE | 2.0 | 3.5 | 1.7 | .3 | * | .0 | | 7.5 | 8.2 | 3.4 | 5.4 | 7.6 | 8.3 | 11.7 | 12.5 | 9.2 | 3.7 |
| E | 1.5 | 2.3 | .7 | .2 | * | .0 | | 4.7 | 6.9 | 2.2 | 2.2 | 3.9 | 6.6 | 5.3 | 8.8 | 6.7 | 3.3 |
| SE | .9 | 2.2 | 1.0 | .4 | .1 | .0 | | 4.6 | 10.6 | 4.2 | 2.6 | 4.5 | 3.1 | 4.9 | 5.0 | 6.0 | 5.2 |
| S | .9 | 2.2 | 1.6 | .3 | .0 | .0 | | 5.0 | 9.9 | 5.2 | 3.7 | 5.9 | 3.0 | 5.1 | 3.6 | 5.4 | 6.4 |
| SW | .5 | 2.8 | 1.1 | .1 | .0 | .0 | | 4.6 | 8.8 | 5.1 | 3.1 | 4.8 | 4.1 | 4.4 | 3.2 | 4.3 | 6.3 |
| W | 1.5 | 6.4 | 3.4 | .4 | .0 | .0 | | 11.6 | 9.1 | 17.3 | 11.7 | 8.9 | 10.2 | 8.9 | 8.7 | 10.2 | 14.1 |
| NW | 2.1 | 13.1 | 13.9 | 3.7 | .3 | .0 | | 32.9 | 12.7 | 39.8 | 40.4 | 34.8 | 33.5 | 28.5 | 25.9 | 26.5 | 34.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.1 | | | | | | | 7.1 | .0 | 4.6 | 9.5 | 6.8 | 5.7 | 8.6 | 6.7 | 10.0 | 5.6 |
| TOT OBS | 817 | 1825 | 1411 | 365 | 29 | 0 | 4447 | | 10.3 | 805 | 349 | 557 | 350 | 629 | 436 | 710 | 611 |
| TOT PCT | 18.4 | 41.0 | 31.7 | 8.2 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.4 | 10.3 | 5.3 | 1.0 | .0 | | 21.9 | 12.7 | 19.3 | 23.8 | 23.9 | 21.4 |
| NE | 4.0 | 2.7 | .7 | .1 | .0 | | 7.5 | 8.2 | 4.0 | 7.9 | 12.0 | 6.6 |
| E | 3.0 | 1.4 | .4 | * | .0 | | 4.7 | 6.9 | 2.2 | 4.9 | 6.7 | 5.1 |
| SE | 1.9 | 1.8 | .6 | .3 | * | | 4.6 | 10.6 | 3.7 | 4.0 | 4.9 | 5.6 |
| S | 2.0 | 2.0 | .9 | .1 | .0 | | 5.0 | 9.9 | 4.7 | 4.8 | 4.5 | 5.9 |
| SW | 2.0 | 2.1 | .5 | .0 | .0 | | 4.6 | 8.8 | 4.5 | 4.5 | 3.9 | 5.2 |
| W | 4.7 | 5.7 | 1.2 | .1 | .0 | | 11.6 | 9.1 | 15.6 | 9.4 | 8.8 | 12.0 |
| NW | 7.1 | 16.6 | 7.8 | 1.3 | .1 | | 32.9 | 12.7 | 40.0 | 34.3 | 27.4 | 30.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.1 | | | | | | 7.1 | .0 | 6.1 | 6.4 | 7.8 | 7.9 |
| TOT OBS | 1650 | 1891 | 775 | 127 | 4 | 4447 | | 10.3 | 1154 | 907 | 1065 | 1321 |
| TOT PCT | 37.1 | 42.5 | 17.4 | 2.9 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT MUGU NW
34.7N 121.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 6.1 | 8.2 | 38.2 | 37.2 | 9.5 | .8 | .0 | 11.5 | 100.0 | 1154 |
| 06&09 | 6.4 | 12.3 | 39.3 | 32.9 | 8.5 | .6 | .0 | 10.5 | 100.0 | 907 |
| 12&15 | 7.8 | 13.1 | 43.3 | 27.8 | 7.6 | .4 | .0 | 9.7 | 100.0 | 1065 |
| 18&21 | 7.9 | 11.7 | 42.9 | 29.4 | 7.3 | .8 | .0 | 9.8 | 100.0 | 1321 |
| TOT | 316 | 501 | 1825 | 1411 | 365 | 29 | 0 | 10.3 | | 4447 |
| PCT | 7.1 | 11.3 | 41.0 | 31.7 | 8.2 | .7 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 11.4 | 3.1 | 3.3 | 3.4 | | 3.0 |
| NE | 5.9 | .7 | 1.2 | 1.7 | | 2.6 |
| E | 2.7 | .4 | .8 | 1.5 | | 3.6 |
| SE | 1.0 | .5 | .7 | 2.0 | | 5.3 |
| S | 1.1 | .4 | 1.8 | 2.2 | | 5.6 |
| SW | 1.3 | .6 | .9 | 1.2 | | 4.6 |
| W | 5.7 | 1.2 | 2.7 | 2.0 | | 3.4 |
| NW | 15.8 | 3.7 | 6.2 | 4.8 | | 3.2 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 4.3 | .6 | 1.2 | 1.9 | | 3.2 |
| TOT OBS | 1282 | 292 | 492 | 543 | 2609 | 3.4 |
| TOT PCT | 49.1 | 11.2 | 18.9 | 20.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | * | .3 | 1.0 | 2.1 | 1.0 | .2 | .1 | .0 | .3 | 15.7 | |
| NE | .2 | .1 | .1 | .6 | .8 | .4 | * | * | .0 | .1 | 7.1 | |
| E | .2 | .0 | .1 | .3 | .5 | .3 | .2 | .0 | .1 | .2 | 3.6 | |
| SE | .2 | .0 | .1 | .3 | .8 | .4 | .1 | .1 | * | .1 | 2.1 | |
| S | .4 | * | .3 | .4 | .9 | .9 | .2 | .0 | .1 | .1 | 2.2 | |
| SW | .2 | * | .2 | .3 | .5 | .5 | * | * | .0 | * | 2.2 | |
| W | .3 | * | .1 | .5 | 1.1 | .7 | .2 | .1 | .0 | .1 | 8.3 | |
| NW | 1.3 | .0 | .7 | 1.5 | 2.3 | 1.7 | .4 | .1 | .2 | .5 | 22.0 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .9 | .0 | * | .3 | .5 | .2 | * | .0 | .1 | .3 | 5.6 | |
| TOT OBS | 108 | 6 | 52 | 141 | 247 | 159 | 33 | 13 | 12 | 43 | 1795 | 2609 |
| TOT PCT | 4.1 | .2 | 2.0 | 5.4 | 9.5 | 6.1 | 1.3 | .5 | .5 | 1.6 | 68.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .9 | 1.5 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 |
| * OR >5000 | 1.2 | 1.9 | 2.4 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 |
| * OR >3500 | 2.0 | 3.1 | 3.7 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 |
| * OR >2000 | 5.3 | 8.2 | 9.6 | 9.7 | 9.8 | 9.8 | 9.9 | 9.9 |
| * OR >1000 | 10.2 | 16.2 | 18.6 | 19.0 | 19.2 | 19.2 | 19.4 | 19.4 |
| * OR >600 | 12.9 | 20.5 | 23.6 | 24.3 | 24.6 | 24.7 | 24.8 | 24.8 |
| * OR >300 | 13.6 | 21.9 | 25.2 | 26.1 | 26.5 | 26.6 | 26.7 | 26.7 |
| * OR >150 | 13.6 | 22.0 | 25.4 | 26.3 | 26.7 | 26.8 | 27.0 | 27.0 |
| * OR > 0 | 13.9 | 22.4 | 26.0 | 27.0 | 28.0 | 28.7 | 30.4 | 31.0 |
| TOTAL | 365 | 589 | 684 | 710 | 737 | 756 | 799 | 816 |

TOTAL NUMBER OF OBS: 2630

PCT FREQ NH <5/8: 69.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 40.9 | 8.6 | 9.2 | 5.5 | 4.2 | 3.4 | 5.8 | 5.2 | 13.7 | 3.4 | 2724 |

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT HUGU NW
34.7N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .1 | |
| <1/2 | NO PCP | .7 | .2 | .2 | .1 | .1 | .2 | .2 | .9 | .0 | .7 | 3.4 | |
| | TOT % | .7 | .2 | .2 | .1 | .2 | .2 | .2 | .9 | .0 | .7 | 3.5 | |
| | PCP | .0 | * | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .4 | .1 | .1 | * | .2 | .1 | .1 | .6 | .0 | .1 | 1.6 | |
| | TOT % | .4 | .1 | .1 | .1 | .2 | .1 | .1 | .6 | .0 | .1 | 1.8 | |
| | PCP | * | * | * | .1 | .1 | * | .0 | * | .0 | * | .3 | |
| 1<2 | NO PCP | .3 | .2 | .1 | .2 | .1 | * | .2 | .4 | .0 | .4 | 1.9 | |
| | TOT % | .3 | .3 | .2 | .2 | .1 | .1 | .2 | .4 | .0 | .4 | 2.2 | |
| | PCP | .1 | .1 | .2 | .1 | .1 | * | .1 | .1 | .0 | .0 | .8 | |
| 2<5 | NO PCP | .7 | .8 | .5 | .3 | .4 | .3 | .8 | 1.3 | .0 | .8 | 6.0 | |
| | TOT % | .7 | .9 | .7 | .4 | .5 | .4 | .9 | 1.4 | .0 | .8 | 6.7 | |
| | PCP | .1 | .1 | .1 | .2 | .2 | .1 | .2 | .2 | .0 | .0 | 1.2 | |
| 5<10 | NO PCP | 5.6 | 2.5 | 1.5 | 1.2 | 1.2 | 1.2 | 3.4 | 8.3 | .0 | 1.4 | 26.1 | |
| | TOT % | 5.7 | 2.6 | 1.6 | 1.4 | 1.4 | 1.3 | 3.5 | 8.5 | .0 | 1.4 | 27.3 | |
| | PCP | .1 | .1 | * | .1 | .1 | .1 | .1 | .1 | .0 | .0 | .6 | |
| 10+ | NO PCP | 14.3 | 3.9 | 2.2 | 2.0 | 2.6 | 2.4 | 6.8 | 20.7 | .0 | 3.1 | 58.0 | |
| | TOT % | 14.4 | 4.0 | 2.2 | 2.1 | 2.7 | 2.5 | 6.8 | 20.9 | .0 | 3.1 | 58.6 | |
| | TOT OBS | | | | | | | | | | | | 3991 |
| | TOT PCT | 22.3 | 8.0 | 4.9 | 4.4 | 5.1 | 4.5 | 11.8 | 32.6 | .0 | 6.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | .1 | .2 | .1 | * | * | .1 | .1 | .0 | .7 | 1.5 | |
| <1/2 | 4-10 | .3 | .1 | * | * | * | .2 | .1 | .4 | .0 | | 1.2 | |
| | 11-21 | .3 | * | * | .0 | * | .0 | * | .3 | .0 | | .7 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .7 | .2 | .2 | .1 | .1 | .2 | .2 | .9 | .0 | .7 | 3.5 | |
| | 0-3 | * | .1 | * | * | .1 | * | .1 | .1 | .0 | .1 | .5 | |
| 1/2<1 | 4-10 | .2 | * | * | * | * | .0 | * | .2 | .0 | | .6 | |
| | 11-21 | .2 | .0 | * | * | .1 | * | * | .2 | .0 | | .6 | |
| | 22+ | .0 | .0 | * | .0 | .0 | .0 | * | .1 | .0 | | .1 | |
| | TOT % | .4 | .1 | .1 | .1 | .2 | .1 | .1 | .6 | .0 | .1 | 1.8 | |
| | 0-3 | .1 | .1 | .1 | .1 | .1 | .0 | * | .1 | .0 | .4 | .8 | |
| 1<2 | 4-10 | .1 | .1 | .1 | .1 | .1 | * | .1 | .3 | .0 | | .9 | |
| | 11-21 | .2 | * | * | * | * | * | * | .2 | .0 | | .6 | |
| | 22+ | * | * | * | * | * | .0 | * | * | .0 | | .1 | |
| | TOT % | .4 | .2 | .2 | .2 | .2 | .1 | .2 | .6 | .0 | .4 | 2.4 | |
| | 0-3 | .2 | .5 | .3 | .1 | .1 | .1 | .2 | .3 | .0 | .8 | 2.5 | |
| 2<5 | 4-10 | .4 | .3 | .3 | .2 | .2 | .3 | .6 | .9 | .0 | | 3.2 | |
| | 11-21 | .3 | .1 | .1 | .1 | .1 | .1 | .1 | .4 | .0 | | 1.2 | |
| | 22+ | .1 | * | * | .1 | .1 | * | * | .1 | .0 | | .4 | |
| | TOT % | .9 | .9 | .7 | .5 | .5 | .5 | .9 | 1.7 | .0 | .8 | 7.4 | |
| | 0-3 | .6 | .7 | .5 | .2 | .2 | .1 | .5 | .7 | .0 | 1.4 | 5.0 | |
| 5<10 | 4-10 | 2.1 | 1.1 | .7 | .6 | .7 | .7 | 1.7 | 3.3 | .0 | | 11.0 | |
| | 11-21 | 2.1 | .5 | .3 | .4 | .3 | .3 | .9 | 3.3 | .0 | | 8.1 | |
| | 22+ | .7 | .1 | * | .2 | .1 | * | .1 | .9 | .0 | | 2.2 | |
| | TOT % | 5.5 | 2.5 | 1.5 | 1.4 | 1.3 | 1.2 | 3.3 | 8.2 | .0 | 1.4 | 26.3 | |
| | 0-3 | 1.0 | .7 | .6 | .4 | .3 | .2 | .6 | .7 | .0 | 3.6 | 8.0 | |
| 10+ | 4-10 | 5.5 | 1.9 | 1.2 | 1.2 | 1.2 | 1.5 | 3.9 | 7.9 | .0 | | 24.2 | |
| | 11-21 | 5.5 | 1.1 | .3 | .5 | 1.1 | .6 | 2.3 | 9.3 | .0 | | 20.7 | |
| | 22+ | 2.3 | .2 | .1 | .2 | .1 | .1 | .1 | 2.7 | .0 | | 5.7 | |
| | TOT % | 14.2 | 3.9 | 2.2 | 2.2 | 2.7 | 2.5 | 6.8 | 20.6 | .0 | 3.6 | 58.7 | |
| | TOT OBS | | | | | | | | | | | | 4249 |
| | TOT PCT | 22.1 | 7.8 | 4.8 | 4.5 | 5.0 | 4.5 | 11.6 | 32.6 | .0 | 7.0 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT HUGU NW
34.7N 121.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.9 | .1 | 1.7 | 5.4 | 7.8 | 4.2 | .8 | .8 | .6 | 2.1 | 27.5 | 72.5 | 716 |
| 06&09 | 5.4 | .2 | 1.6 | 5.5 | 7.3 | 4.7 | 1.1 | .3 | .2 | 1.1 | 27.5 | 72.5 | 914 |
| 12&15 | 4.7 | .3 | 2.2 | 4.3 | 12.0 | 7.3 | 1.8 | .2 | .0 | 1.2 | 34.1 | 65.9 | 599 |
| 18&21 | 2.5 | .3 | 2.3 | 5.8 | 9.9 | 7.7 | 1.2 | .5 | .9 | 2.0 | 33.2 | 66.8 | 754 |
| TOT | 108 | 6 | 52 | 143 | 248 | 161 | 33 | 13 | 12 | 44 | 820 | 1863 | 2683 |
| PCT | 4.0 | .2 | 1.9 | 5.3 | 9.2 | 6.0 | 1.2 | .5 | .4 | 1.6 | 30.6 | 69.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.8 | 2.0 | 2.0 | 7.5 | 25.8 | 60.1 | 1124 |
| 06&09 | 4.0 | 1.0 | 2.8 | 7.7 | 26.7 | 57.8 | 896 |
| 12&15 | 4.4 | 1.8 | 2.6 | 7.6 | 27.0 | 56.5 | 1028 |
| 18&21 | 3.0 | 2.1 | 2.2 | 6.6 | 26.0 | 60.0 | 1253 |
| TOT | 150 | 76 | 102 | 314 | 1133 | 2526 | 4301 |
| PCT | 3.5 | 1.8 | 2.4 | 7.3 | 26.3 | 58.7 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.9 | 6.6 | 20.6 | 13.7 | 65.8 | 695 |
| 06&09 | 5.5 | 7.7 | 21.2 | 12.5 | 66.2 | 598 |
| 12&15 | 4.7 | 8.6 | 20.2 | 18.3 | 61.5 | 590 |
| 18&21 | 2.5 | 6.8 | 18.6 | 19.7 | 61.7 | 747 |
| TOT | 107 | 194 | 528 | 425 | 1677 | 2630 |
| PCT | 4.1 | 7.4 | 20.1 | 16.2 | 63.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3 | .1 |
| 75/79 | * | * | * | .2 | * | * | .0 | .0 | 10 | .4 |
| 70/74 | .2 | .1 | .1 | .2 | .2 | .4 | .1 | .0 | 31 | 1.2 |
| 65/69 | .1 | .3 | .2 | .7 | 1.2 | 2.2 | 2.1 | .8 | 197 | 7.7 |
| 60/64 | * | .3 | .3 | 1.3 | 4.2 | 9.9 | 14.6 | 6.9 | 960 | 37.6 |
| 55/59 | * | .1 | .2 | 1.0 | 4.2 | 10.8 | 17.3 | 12.0 | 1165 | 45.6 |
| 50/54 | .0 | * | * | .2 | .8 | 1.0 | 2.0 | 2.2 | 158 | 6.1 |
| 45/49 | .0 | * | .0 | .1 | * | .1 | .4 | .3 | 22 | .9 |
| 40/44 | .0 | .0 | .0 | * | * | .1 | .1 | .1 | 9 | .4 |
| TOTAL | 15 | 24 | 23 | 94 | 269 | 626 | 934 | 568 | 2553 | 100.0 |
| PCT | .6 | .9 | .9 | 3.7 | 10.5 | 24.5 | 36.6 | 22.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| * | .1 | * | .1 | * | .0 | .0 | .0 | .0 | .1 |
| .2 | .2 | .2 | .1 | .1 | .1 | .1 | .2 | .0 | * |
| 1.3 | .6 | .5 | .4 | .4 | .7 | 1.0 | 2.2 | .0 | .5 |
| 6.4 | 2.2 | 1.6 | 2.0 | 3.4 | 2.4 | 5.9 | 11.7 | .0 | 2.1 |
| 1..4 | 3.0 | 1.7 | 1.8 | 1.3 | 1.7 | 4.6 | 17.7 | .0 | 4.6 |
| 1.4 | 1.0 | .4 | .3 | .2 | .2 | .4 | 1.9 | .0 | .4 |
| .2 | .4 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .1 |
| * | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20.9 | 7.8 | 4.5 | 4.6 | 5.4 | 5.2 | 12.1 | 33.7 | .0 | 5.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 72 | 67 | 60 | 55 | 53 | 50 | 60.3 | 1165 |
| 06&09 | 74 | 68 | 64 | 58 | 52 | 47 | 44 | 57.8 | 918 |
| 12&15 | 74 | 66 | 63 | 57 | 51 | 43 | 40 | 57.4 | 1073 |
| 18&21 | 84 | 75 | 67 | 60 | 55 | 52 | 48 | 60.7 | 1322 |
| TOT | 84 | 71 | 66 | 59 | 53 | 48 | 40 | 59.2 | 4478 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 3.9 | 11.2 | 28.7 | 38.1 | 18.2 | 80 | 743 |
| 06&09 | .6 | 3.3 | 7.0 | 18.5 | 40.0 | 30.6 | 83 | 545 |
| 12&15 | .5 | 5.0 | 7.2 | 23.2 | 35.1 | 29.0 | 82 | 599 |
| 18&21 | 1.3 | 9.3 | 15.4 | 25.5 | 34.0 | 14.5 | 77 | 702 |
| TOT | 15 | 142 | 272 | 692 | 950 | 578 | 80 | 2589 |

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT HUGU NW
34.7N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | 7 | * | .2 |
| 11/13 | .0 | .0 | .0 | .1 | .1 | .2 | .1 | .1 | .0 | 16 | .0 | .5 |
| 9/10 | .0 | .0 | .0 | .1 | .3 | .4 | .1 | * | .0 | 28 | .1 | .8 |
| 7/8 | .0 | .0 | .0 | .2 | .9 | .6 | .2 | .0 | .0 | 59 | .1 | 1.8 |
| 6 | .0 | .0 | * | .2 | .5 | .6 | .1 | .0 | .0 | 46 | .1 | 1.4 |
| 5 | .0 | * | .1 | .7 | 1.2 | .7 | .1 | .0 | .0 | 89 | .3 | 2.6 |
| 4 | .0 | * | .3 | 1.2 | 2.8 | 1.0 | .1 | .0 | .0 | 168 | .3 | 5.1 |
| 3 | .0 | .0 | .1 | 1.6 | 2.7 | .8 | .1 | .0 | .0 | 164 | .4 | 4.9 |
| 2 | .0 | .1 | .8 | 4.0 | 4.5 | .5 | .1 | .0 | .0 | 311 | 1.0 | 8.9 |
| 1 | .0 | .1 | .7 | 3.7 | 3.5 | .4 | .0 | * | .0 | 259 | .5 | 7.8 |
| 0 | .0 | .1 | 1.9 | 8.4 | 4.7 | .2 | .0 | .0 | .0 | 477 | 1.6 | 13.6 |
| -1 | .0 | .1 | 1.5 | 5.9 | 2.4 | .2 | .0 | .0 | .0 | 312 | .6 | 9.4 |
| -2 | * | .1 | 3.4 | 7.5 | 1.7 | * | .0 | .0 | .0 | 401 | 1.5 | 11.4 |
| -3 | .0 | .1 | 1.8 | 4.3 | .9 | .0 | * | .0 | .0 | 223 | 1.0 | 6.2 |
| -4 | * | .4 | 2.6 | 3.7 | .4 | .0 | .0 | .0 | .0 | 224 | .8 | 6.4 |
| -5 | .0 | .3 | 1.7 | 2.0 | .2 | .0 | .0 | .0 | .0 | 132 | .4 | 3.9 |
| -6 | .0 | .3 | 1.5 | 1.2 | * | .0 | .0 | .0 | .0 | 93 | .5 | 2.5 |
| -7/-8 | .0 | .3 | 1.1 | .6 | .1 | * | .0 | .0 | .0 | 69 | .2 | 2.0 |
| -9/-10 | .0 | .2 | .3 | .4 | * | .0 | .0 | .0 | .0 | 25 | .2 | .6 |
| -11/-13 | .1 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 15 | * | .4 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 4 | 70 | 564 | 1431 | 838 | 175 | 27 | 12 | 1 | 3122 | 296 | 2826 |
| PCT | .1 | 2.2 | 18.1 | 45.8 | 26.8 | 5.6 | .9 | .4 | * | 100.0 | 9.5 | 90.5 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.2 | .0 | .0 | .0 | .0 | 1.7 |
| 1-2 | .0 | 4.7 | 2.2 | .0 | .0 | .0 | 6.9 |
| 3-4 | .0 | .9 | 3.5 | .6 | .0 | .0 | 5.0 |
| 5-6 | .0 | .5 | 1.4 | .5 | .1 | .0 | 2.5 |
| 7 | .0 | .4 | 1.1 | 1.2 | .0 | .0 | 2.7 |
| 8-9 | .0 | .1 | .4 | .3 | .1 | .0 | .8 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 7.8 | 8.8 | 3.0 | .2 | .0 | 20.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .6 | .0 | .0 | .0 | .0 | .8 |
| 1-2 | .1 | 1.0 | .6 | .0 | .0 | .0 | 1.8 |
| 3-4 | .1 | 1.3 | .6 | .1 | .0 | .0 | 2.2 |
| 5-6 | .0 | .5 | .7 | .1 | .0 | .0 | 1.4 |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | * | .0 | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 3.4 | 2.1 | .4 | .0 | .0 | 6.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .4 | 1.6 | .0 | .0 | .0 | .0 | 2.0 |
| 3-4 | .1 | .3 | .2 | .2 | .0 | .0 | .9 |
| 5-6 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 7 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 2.2 | .5 | .3 | .1 | .0 | 3.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .1 | .0 | .0 | .0 | 1.2 |
| 1-2 | .4 | .7 | .1 | .0 | .0 | .0 | 1.2 |
| 3-4 | .0 | .4 | .5 | .1 | .0 | .0 | 1.0 |
| 5-6 | .0 | .1 | .5 | .2 | * | .0 | .8 |
| 7 | .0 | .0 | .6 | .0 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .1 | .0 | .1 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.3 | 1.7 | .4 | .3 | .0 | 5.3 |

PERIOD: (OVER-ALL) 1963-1979

NOVEMBER

AREA 0034 POINT MUGU NW
34.7N 121.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .5 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 1.4 | 1.0 | .0 | .0 | .0 | 2.5 |
| 3-4 | .0 | .6 | .8 | .2 | .0 | .0 | 1.6 |
| 5-6 | .0 | .2 | .7 | .1 | .0 | .0 | 1.1 |
| 7 | .0 | .0 | .4 | .0 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.7 | 3.2 | .3 | .0 | .0 | 6.5 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.3 | .0 | .0 | .0 | .0 | 1.5 |
| 1-2 | .1 | 1.5 | .6 | .0 | .0 | .0 | 2.3 |
| 3-4 | .0 | .4 | .2 | .2 | .0 | .0 | .7 |
| 5-6 | .0 | .7 | * | .0 | .0 | .0 | .7 |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .3 |
| 10-11 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 4.1 | 1.2 | .2 | .0 | .0 | 5.7 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | 1.5 | .0 | .0 | .0 | .0 | 2.0 |
| 1-2 | .3 | 3.4 | 1.0 | .0 | .0 | .0 | 4.7 |
| 3-4 | .0 | .8 | 1.8 | .0 | .0 | .0 | 2.6 |
| 5-6 | .0 | .4 | .7 | .1 | .0 | .0 | 1.3 |
| 7 | .0 | .1 | .4 | .0 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 6.2 | 4.2 | .2 | .0 | .0 | 11.5 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .3 | 2.3 | .0 | .0 | .0 | .0 | 2.7 | |
| 1-2 | .3 | 7.4 | 5.0 | .0 | .0 | .0 | 12.7 | |
| 3-4 | .0 | 2.7 | 5.7 | .2 | .0 | .0 | 8.6 | |
| 5-6 | .0 | .7 | 3.6 | 1.1 | .2 | .0 | 5.6 | |
| 7 | .0 | .3 | 1.9 | .9 | .0 | .0 | 3.1 | |
| 8-9 | .0 | .2 | .7 | .4 | * | .0 | 1.3 | |
| 10-11 | .0 | .0 | * | .3 | .0 | .0 | .3 | |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .1 | .3 | .0 | .0 | .4 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 13.6 | 17.1 | 3.4 | .2 | .0 | 34.9 | 94.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 8.0 | 8.8 | .1 | .0 | .0 | .0 | 16.9 | |
| 1-2 | 2.0 | 21.7 | 10.4 | .0 | .0 | .0 | 34.1 | |
| 3-4 | .3 | 7.3 | 13.3 | 1.6 | .0 | .0 | 22.5 | |
| 5-6 | .0 | 3.2 | 7.6 | 2.1 | .4 | .0 | 13.3 | |
| 7 | .0 | .8 | 4.9 | 2.3 | .0 | .0 | 8.0 | |
| 8-9 | .0 | .4 | 1.5 | .8 | .1 | .0 | 2.8 | |
| 10-11 | .0 | .1 | .4 | .7 | .0 | .0 | 1.2 | |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 13-16 | .0 | .0 | .1 | .5 | .1 | .0 | .8 | |
| 17-19 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 751 |
| TOT PCT | 10.3 | 42.3 | 38.5 | 8.1 | .8 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 3.4 | 14.3 | 11.5 | 6.3 | 2.0 | 1.3 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 650 | 3 |
| 6-7 | .1 | 2.2 | 5.9 | 8.5 | 4.5 | 2.8 | 1.3 | .5 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 438 | 5 |
| 8-9 | .0 | 1.1 | 1.8 | 2.9 | 4.6 | 2.4 | 1.0 | .7 | 1.1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 263 | 7 |
| 10-11 | .0 | .6 | 1.1 | 1.6 | 1.1 | 1.1 | .7 | .2 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 117 | 6 |
| 12-13 | .0 | .0 | .6 | .7 | .4 | .4 | .2 | .3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 49 | 7 |
| >13 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | .1 | .2 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 15 | 12 |
| INDET | 4.7 | 1.1 | 1.2 | .7 | .4 | .1 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 139 | 2 |
| TOTAL | 136 | 327 | 370 | 345 | 219 | 136 | 59 | 32 | 35 | 7 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1671 | 5 |
| PCT | 8.1 | 19.6 | 22.1 | 20.6 | 13.1 | 8.1 | 3.5 | 1.9 | 2.1 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .7 | .1 | .2 | .0 | .0 | .0 | .0 | .9 | .4 | .1 | 7.2 | .1 | 3.4 | | .0 | 87.9 |
| NE | 1.3 | .6 | 1.1 | .0 | .0 | .0 | .0 | 3.1 | .4 | .0 | 4.5 | .0 | 4.7 | | .2 | 87.2 |
| E | 5.5 | .6 | 2.2 | .0 | .0 | .0 | .0 | 8.0 | .4 | .0 | 7.5 | .0 | 3.2 | | .7 | 80.1 |
| SE | 10.8 | 1.2 | 5.2 | .0 | .0 | .0 | .0 | 16.5 | 1.6 | .0 | 8.9 | .6 | 4.5 | | .0 | 67.8 |
| S | 10.0 | 6.5 | 4.4 | .0 | .0 | .0 | .0 | 19.5 | 3.0 | .0 | 11.6 | .3 | 5.8 | | .0 | 59.7 |
| SW | 2.6 | 2.2 | 4.8 | .0 | .0 | .0 | .0 | 9.4 | 2.1 | .6 | 9.4 | .0 | 7.8 | | .0 | 70.8 |
| W | 2.2 | 1.3 | 1.1 | .0 | .0 | .0 | .0 | 4.5 | .6 | .0 | 8.4 | .0 | 6.0 | | .0 | 80.5 |
| NW | 1.1 | .2 | .5 | .0 | .0 | .0 | .0 | 1.5 | .8 | * | 8.1 | .6 | 3.6 | | .1 | 85.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | 2.1 | .0 | 1.6 | .0 | .0 | .0 | .0 | 3.7 | .5 | .0 | 12.2 | 1.1 | 4.2 | | .0 | 78.3 |
| TOT PCT | 2.8 | 1.0 | 1.6 | .0 | .0 | .0 | .0 | 5.1 | .9 | .1 | 8.2 | .3 | 4.4 | | .1 | 81.1 |
| TOT OBS: | 3200 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | 2.4 | 1.3 | 1.1 | .0 | .0 | .0 | .0 | 4.7 | .3 | .0 | 7.6 | .3 | 3.5 | | .0 | 81.5 |
| 06&09 | 2.8 | .2 | 1.4 | .0 | .0 | .0 | .0 | 4.0 | .9 | .3 | 6.0 | .2 | 2.6 | | .0 | 86.0 |
| 12&15 | 2.4 | 1.0 | 2.3 | .0 | .0 | .0 | .0 | 5.4 | 1.3 | .0 | 8.5 | .4 | 2.3 | | .0 | 82.1 |
| 18&21 | 3.3 | 1.2 | 1.5 | .0 | .0 | .0 | .0 | 5.6 | 1.1 | .0 | 9.2 | .3 | 5.7 | | .3 | 77.7 |
| TOT PCT | 2.8 | 1.0 | 1.5 | .0 | .0 | .0 | .0 | 5.0 | .9 | .1 | 8.1 | .3 | 4.4 | | .1 | 81.2 |
| TOT OBS: | 3236 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 2.2 | 7.8 | 8.1 | 2.2 | .1 | .0 | | 20.4 | 12.1 | 18.1 | 16.5 | 24.5 | 20.1 | 24.5 | 22.4 | 20.9 | 17.7 |
| NE | 2.4 | 4.6 | 2.1 | .3 | .0 | .0 | | 9.3 | 7.9 | 4.5 | 6.5 | 10.3 | 11.5 | 9.5 | 18.5 | 12.0 | 5.9 |
| E | 1.7 | 3.7 | 1.3 | .3 | * | .0 | | 7.0 | 8.4 | 4.0 | 8.4 | 6.6 | 5.5 | 8.0 | 8.5 | 8.6 | 7.4 |
| SE | .9 | 2.9 | 2.1 | .4 | .1 | .0 | | 6.4 | 10.5 | 6.8 | 6.0 | 5.1 | 5.5 | 5.1 | 7.2 | 5.5 | 8.8 |
| S | .9 | 2.5 | 2.0 | .9 | .1 | .0 | | 6.5 | 12.5 | 6.9 | 4.5 | 5.6 | 5.9 | 5.9 | 7.3 | 5.9 | 8.6 |
| SW | 1.0 | 2.5 | 1.3 | .2 | .0 | .0 | | 5.1 | 8.9 | 4.7 | 3.8 | 5.0 | 4.3 | 4.8 | 4.1 | 4.8 | 7.8 |
| W | 2.0 | 6.4 | 2.8 | .6 | * | .0 | | 11.9 | 9.2 | 17.6 | 10.6 | 8.7 | 10.1 | 7.9 | 7.5 | 10.5 | 15.2 |
| NW | 1.6 | 10.7 | 10.7 | 3.1 | .2 | .0 | | 26.3 | 12.7 | 31.8 | 36.1 | 29.3 | 28.3 | 25.6 | 18.5 | 21.2 | 23.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.0 | | | | | | | 7.0 | .0 | 5.6 | 7.6 | 5.1 | 8.9 | 8.6 | 6.0 | 10.5 | 4.4 |
| TOT OBS | 725 | 1518 | 1121 | 300 | 23 | 0 | 3687 | | 10.2 | 716 | 275 | 375 | 270 | 454 | 382 | 645 | 570 |
| TOT PCT | 19.7 | 41.2 | 30.4 | 8.1 | .6 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 5.4 | 9.8 | 4.6 | .7 | .0 | | 20.4 | 12.1 | 17.6 | 22.6 | 23.5 | 19.4 |
| NE | 4.8 | 3.7 | .8 | * | .0 | | 9.3 | 7.9 | 5.0 | 10.8 | 13.6 | 9.1 |
| E | 3.4 | 2.9 | .6 | .2 | .0 | | 7.0 | 8.4 | 5.2 | 6.1 | 8.3 | 8.0 |
| SE | 2.2 | 3.1 | .9 | .2 | .0 | | 6.4 | 10.5 | 6.6 | 5.2 | 6.1 | 7.1 |
| S | 2.0 | 2.6 | 1.4 | .4 | .0 | | 6.5 | 12.5 | 6.3 | 5.7 | 6.6 | 7.1 |
| SW | 2.4 | 2.0 | .6 | .1 | .0 | | 5.1 | 8.9 | 4.5 | 4.7 | 4.5 | 5.2 |
| W | 4.9 | 5.4 | 1.4 | .2 | * | | 11.9 | 9.2 | 15.6 | 9.3 | 7.7 | 13.2 |
| NW | 5.5 | 13.1 | 6.7 | 1.0 | .0 | | 26.3 | 12.7 | 33.0 | 28.9 | 22.3 | 22.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 7.0 | | | | | | 7.0 | .0 | 6.2 | 6.7 | 7.4 | 7.7 |
| TOT OBS | 1389 | 1570 | 626 | 101 | 1 | 3687 | | 10.2 | 991 | 645 | 336 | 1215 |
| TOT PCT | 37.7 | 42.6 | 17.0 | 2.7 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

TABLE 4

AREA 0034 POINT HUGU NW
34.3N 121.3W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 6.2 | 11.1 | 40.4 | 31.7 | 10.0 | .7 | .0 | 10.8 | 100.0 | 991 |
| 06&09 | 6.7 | 12.1 | 39.8 | 33.0 | 8.1 | .3 | .0 | 10.5 | 100.0 | 645 |
| 12&15 | 7.4 | 13.2 | 43.9 | 27.6 | 6.8 | 1.1 | .0 | 9.8 | 100.0 | 826 |
| 18&21 | 7.7 | 13.8 | 40.7 | 29.9 | 7.6 | .4 | .0 | 9.8 | 100.0 | 1215 |
| TOT | 259 | 466 | 1518 | 1121 | 300 | 23 | 0 | 10.2 | | 3687 |
| PCT | 7.0 | 12.6 | 41.2 | 30.4 | 8.1 | .6 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 11.3 | 3.6 | 4.8 | 2.8 | | 3.1 |
| NE | 7.2 | .7 | 1.3 | 1.4 | | 2.4 |
| E | 3.5 | .8 | 1.5 | 1.7 | | 3.6 |
| SE | 1.0 | .3 | 1.1 | 2.4 | | 5.7 |
| S | .9 | .3 | 1.3 | 2.9 | | 6.1 |
| SW | 1.1 | .6 | 1.4 | 1.7 | | 5.2 |
| W | 5.0 | 1.3 | 2.3 | 1.7 | | 3.5 |
| NW | 14.0 | 3.7 | 5.4 | 3.3 | | 3.1 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 4.3 | .6 | 1.5 | 1.3 | | 3.0 |
| TOT OBS | 878 | 217 | 376 | 346 | 1817 | 3.5 |
| TOT PCT | 48.3 | 11.9 | 20.7 | 19.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .1 | .1 | .3 | 1.2 | 1.7 | 1.3 | .2 | .1 | .1 | .2 | 17.1 | |
| NE | .1 | .0 | * | .1 | .3 | .3 | .3 | * | .0 | .2 | 9.1 | |
| E | .1 | .0 | .1 | .1 | .6 | .5 | .4 | .0 | .0 | .3 | 5.5 | |
| SE | .3 | .1 | .3 | .6 | .4 | .5 | .2 | .1 | * | .2 | 2.1 | |
| S | .3 | .1 | .5 | .6 | .9 | .2 | .2 | * | * | .1 | 2.3 | |
| SW | .5 | .0 | .2 | .3 | .8 | .4 | .1 | * | * | * | 2.4 | |
| W | .2 | .1 | .1 | .5 | .8 | .6 | .1 | * | .1 | .2 | 7.5 | |
| NW | .4 | .1 | .4 | 1.2 | 2.4 | 1.0 | .3 | .1 | .1 | .2 | 20.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | .0 | .0 | .2 | .4 | .3 | .1 | .1 | .1 | .3 | 6.1 | |
| TOT OBS | 39 | 10 | 35 | 89 | 153 | 96 | 35 | 8 | 7 | 32 | 1319 | 1817 |
| TOT PCT | 2.1 | .6 | 1.9 | 4.9 | 8.4 | 5.3 | 1.9 | .4 | .4 | 1.8 | 72.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.1 | 1.9 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| * OR >5000 | 1.4 | 2.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| * OR >3500 | 2.1 | 4.1 | 4.4 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| * OR >2000 | 5.6 | 8.7 | 9.6 | 9.7 | 9.8 | 9.8 | 9.8 | 9.8 |
| * OR >1000 | 11.3 | 16.1 | 18.0 | 18.2 | 18.3 | 18.3 | 18.3 | 18.3 |
| * OR >600 | 13.7 | 19.8 | 22.4 | 22.9 | 23.1 | 23.1 | 23.1 | 23.1 |
| * OR >300 | 14.3 | 20.8 | 24.0 | 24.7 | 24.9 | 25.0 | 25.0 | 25.0 |
| * OR >150 | 14.4 | 21.1 | 24.4 | 25.1 | 25.5 | 25.5 | 25.5 | 25.5 |
| * OR > 0 | 14.4 | 21.3 | 25.0 | 26.1 | 26.7 | 27.0 | 27.5 | 27.7 |
| TOTAL | 265 | 392 | 459 | 479 | 491 | 496 | 506 | 508 |

TOTAL NUMBER OF OBS: 1837 PCT FREQ NM <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 39.4 | 10.2 | 10.4 | 6.4 | 4.9 | 3.7 | 4.8 | 5.2 | 13.0 | 2.0 | 1926 |

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | * | .1 | * | * | .0 | .0 | .0 | .0 | .2 | |
| | NO PCP | .4 | .2 | .1 | .2 | .2 | .1 | .2 | .4 | .0 | .3 | 2.1 | |
| | TOT % | .4 | .2 | .1 | .3 | .2 | .2 | .2 | .4 | .0 | .3 | 2.3 | |
| 1/2<1 | PCP | .0 | .1 | .1 | * | .1 | * | .0 | * | .0 | * | .3 | |
| | NO PCP | .6 | .1 | .1 | .1 | .2 | .1 | .2 | .3 | .0 | * | 1.7 | |
| | TOT % | .6 | .1 | .1 | .1 | .3 | .2 | .2 | .3 | .0 | .1 | 2.0 | |
| 1<2 | PCP | * | .1 | .2 | .1 | .1 | .1 | .1 | * | .0 | * | .8 | |
| | NO PCP | .2 | * | .1 | .2 | .2 | .2 | .4 | .2 | .0 | .1 | 1.5 | |
| | TOT % | .2 | .1 | .2 | .3 | .4 | .2 | .4 | .2 | .0 | .2 | 2.3 | |
| 2<5 | PCP | .1 | * | .1 | .3 | .4 | .1 | .1 | .1 | .0 | .1 | 1.3 | |
| | NO PCP | .3 | .5 | .6 | .4 | .5 | .3 | .6 | .6 | .0 | .4 | 4.4 | |
| | TOT % | .4 | .6 | .7 | .7 | .9 | .4 | .7 | .9 | .0 | .5 | 5.7 | |
| 5<10 | PCP | * | .1 | .1 | .4 | .6 | .2 | .3 | .1 | .0 | .1 | 1.9 | |
| | NO PCP | 4.1 | 3.0 | 1.8 | 1.4 | 1.8 | 1.2 | 2.9 | 5.2 | .0 | 1.3 | 22.8 | |
| | TOT % | 4.1 | 3.1 | 1.9 | 1.8 | 2.5 | 1.5 | 3.2 | 5.3 | .0 | 1.4 | 24.7 | |
| 10+ | PCP | * | .0 | .1 | .2 | * | .1 | .2 | .1 | .0 | .0 | .7 | |
| | NO PCP | 15.3 | 5.6 | 3.8 | 2.9 | 2.4 | 2.9 | 7.4 | 18.6 | .0 | 3.5 | 62.4 | |
| | TOT % | 15.3 | 5.6 | 3.9 | 3.1 | 2.5 | 3.0 | 7.5 | 18.7 | .0 | 3.5 | 63.0 | |
| | TOT OBS | | | | | | | | | | | | 3196 |
| | TOT PCT | 21.0 | 9.7 | 7.0 | 6.3 | 6.7 | 5.3 | 12.2 | 25.8 | .0 | 5.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | .1 | .1 | .1 | * | .1 | .1 | * | .0 | .3 | .8 | |
| | 4-10 | .1 | .1 | * | .1 | .1 | .1 | .1 | .2 | .0 | | .9 | |
| | 11-21 | .2 | .1 | .1 | * | .1 | * | * | .1 | .0 | | .7 | |
| | 22+ | .0 | .0 | .0 | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .4 | .2 | .2 | .3 | .3 | .2 | .2 | .4 | .0 | .3 | 2.4 | |
| 1/2<1 | 0-3 | .1 | * | .1 | * | * | * | .1 | .1 | .0 | .1 | .4 | |
| | 4-10 | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .0 | | .9 | |
| | 11-21 | .2 | * | .0 | * | .2 | * | * | .1 | .0 | | .5 | |
| | 22+ | .1 | .0 | .0 | * | * | * | .0 | * | .0 | | .2 | |
| | TOT % | .6 | .1 | .2 | .1 | .3 | .2 | .1 | .3 | .0 | .1 | 2.0 | |
| 1<2 | 0-3 | * | .1 | .1 | .1 | .1 | .1 | .2 | .1 | .0 | .2 | 1.0 | |
| | 4-10 | .1 | * | .1 | .3 | .1 | * | .2 | .1 | .0 | | .8 | |
| | 11-21 | * | * | * | .1 | .2 | .0 | .1 | .1 | .0 | | .5 | |
| | 22+ | .0 | * | * | .1 | .1 | * | .0 | .0 | .0 | | .3 | |
| | TOT % | .2 | .1 | .3 | .5 | .4 | .2 | .4 | .3 | .0 | .2 | 2.6 | |
| 2<5 | 0-3 | .1 | .2 | .2 | .1 | .2 | .1 | .1 | .1 | .0 | .5 | 1.6 | |
| | 4-10 | .3 | .4 | .3 | .2 | .3 | .1 | .5 | .4 | .0 | | 2.5 | |
| | 11-21 | .2 | * | .1 | .3 | .2 | .1 | .1 | .4 | .0 | | 1.5 | |
| | 22+ | * | * | .1 | .1 | .2 | .0 | .0 | .1 | .0 | | .6 | |
| | TOT % | .6 | .6 | .7 | .7 | 1.0 | .4 | .7 | 1.1 | .0 | .5 | 6.2 | |
| 5<10 | 0-3 | .7 | 1.2 | .6 | .2 | .2 | .2 | .7 | .4 | .0 | 1.5 | 5.6 | |
| | 4-10 | 1.4 | 1.1 | 1.0 | .8 | .8 | .8 | 1.4 | 2.1 | .0 | | 9.2 | |
| | 11-21 | 1.3 | .6 | .2 | .6 | .8 | .4 | .8 | 1.9 | .0 | | 6.4 | |
| | 22+ | .4 | * | .1 | .1 | .5 | .1 | .2 | .7 | .0 | | 2.2 | |
| | TOT % | 3.8 | 2.9 | 1.8 | 1.7 | 2.3 | 1.4 | 3.0 | 5.1 | .0 | 1.5 | 23.4 | |
| 10+ | 0-3 | 1.2 | .9 | .7 | .4 | .3 | .6 | .9 | .9 | .0 | 4.4 | 10.4 | |
| | 4-10 | 5.8 | 3.1 | 2.2 | 1.5 | 1.2 | 1.4 | 4.4 | 7.5 | .0 | | 27.0 | |
| | 11-21 | 6.1 | 1.4 | .9 | 1.1 | .7 | .7 | 1.8 | 7.9 | .0 | | 20.6 | |
| | 22+ | 1.7 | .2 | .2 | .1 | .1 | .1 | .5 | 2.4 | .0 | | 5.4 | |
| | TOT % | 14.9 | 5.6 | 4.0 | 3.0 | 2.3 | 2.8 | 7.6 | 18.7 | .0 | 4.4 | 63.3 | |
| | TOT OBS | | | | | | | | | | | | 3494 |
| | TOT PCT | 20.4 | 9.6 | 7.1 | 6.4 | 6.5 | 5.1 | 12.1 | 25.9 | .0 | 6.9 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.3 | .8 | 2.8 | 4.9 | 8.3 | 6.0 | 2.1 | .6 | .0 | 2.3 | 30.1 | 69.9 | 529 |
| 06&09 | 2.3 | .3 | .5 | 4.8 | 4.8 | 4.8 | 1.5 | .3 | .0 | 1.0 | 20.2 | 79.8 | 396 |
| 12&15 | 1.8 | .8 | 1.8 | 4.8 | 7.3 | 5.0 | 1.8 | .3 | .8 | 1.0 | 25.1 | 74.9 | 399 |
| 18&21 | 2.0 | .4 | 2.0 | 4.5 | 11.5 | 4.8 | 2.0 | .5 | .7 | 2.2 | 30.5 | 69.5 | 558 |
| TOT | 39 | 10 | 35 | 89 | 156 | 98 | 35 | 8 | 7 | 32 | 509 | 1373 | 1882 |
| PCT | 2.1 | .5 | 1.9 | 4.7 | 8.3 | 5.2 | 1.9 | .4 | .4 | 1.7 | 27.0 | 73.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.5 | 1.8 | 2.7 | 7.1 | 23.8 | 62.1 | 954 |
| 06&09 | 1.7 | 1.6 | 1.6 | 4.7 | 24.2 | 66.2 | 633 |
| 12&15 | 3.2 | 2.1 | 2.6 | 4.5 | 26.7 | 60.8 | 801 |
| 18&21 | 2.0 | 2.4 | 3.1 | 7.4 | 20.3 | 64.8 | 1142 |
| TOT | 84 | 71 | 92 | 219 | 826 | 2238 | 3530 |
| PCT | 2.4 | 2.0 | 2.6 | 6.2 | 23.4 | 63.4 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.3 | 6.3 | 15.0 | 18.0 | 67.0 | 512 |
| 06&09 | 2.3 | 3.3 | 10.7 | 10.5 | 78.8 | 392 |
| 12&15 | 1.8 | 4.6 | 11.6 | 15.2 | 73.2 | 388 |
| 18&21 | 2.0 | 5.9 | 15.2 | 19.1 | 65.7 | 549 |
| TOT | 39 | 95 | 247 | 296 | 1294 | 1837 |
| PCT | 2.1 | 5.2 | 13.4 | 16.1 | 70.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 5 | .2 |
| 70/74 | .3 | .1 | .2 | .3 | .2 | .1 | .1 | .0 | 28 | 1.3 |
| 65/69 | .2 | .3 | .6 | .5 | 1.0 | 1.0 | .4 | .1 | 89 | 4.1 |
| 60/64 | .1 | .5 | .4 | 1.2 | 4.2 | 6.5 | 8.3 | 3.1 | 526 | 24.3 |
| 55/59 | .1 | .4 | .7 | 1.8 | 6.4 | 11.7 | 16.7 | 11.3 | 1063 | 49.1 |
| 50/54 | .1 | .1 | .5 | 1.8 | 4.2 | 4.4 | 4.6 | 2.9 | 402 | 18.6 |
| 45/49 | .0 | .0 | .0 | .2 | .5 | .4 | .6 | .3 | 43 | 2.0 |
| 40/44 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | .1 | 9 | .4 |
| TOTAL | 19 | 32 | 52 | 125 | 357 | 524 | 669 | 387 | 2165 | 100.0 |
| PCT | .9 | 1.5 | 2.4 | 5.8 | 16.5 | 24.2 | 30.9 | 17.9 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .1 | * | .0 | .0 | .0 | .0 | * | .0 | .0 |
| .1 | .3 | .2 | * | .0 | .1 | * | .4 | .0 | .1 |
| .4 | .4 | .3 | .1 | .4 | .5 | .9 | .8 | .0 | .3 |
| 2.9 | 2.0 | 1.6 | 1.9 | 2.7 | 1.8 | 4.5 | 5.6 | .0 | 1.3 |
| 10.8 | 2.9 | 3.0 | 3.3 | 2.7 | 2.6 | 5.9 | 15.8 | .0 | 2.0 |
| 5.2 | 1.7 | 1.1 | .7 | .7 | .4 | 1.6 | 5.6 | .0 | 1.5 |
| .4 | .8 | .3 | .1 | * | * | * | .2 | .0 | .2 |
| * | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 |
| 19.7 | 8.5 | 6.7 | 6.2 | 6.6 | 5.4 | 13.0 | 28.5 | .0 | 5.5 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 78 | 70 | 65 | 58 | 52 | 50 | 46 | 58.5 | 998 |
| 06&09 | 75 | 65 | 62 | 56 | 50 | 46 | 44 | 56.0 | 654 |
| 12&15 | 70 | 65 | 62 | 56 | 48 | 43 | 41 | 55.6 | 844 |
| 18&21 | 78 | 73 | 66 | 58 | 52 | 49 | 45 | 58.5 | 1211 |
| TOT | 78 | 70 | 64 | 57 | 51 | 46 | 41 | 57.4 | 3707 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .6 | 9.4 | 15.4 | 25.3 | 31.7 | 17.6 | 78 | 663 |
| 06&09 | .6 | 7.5 | 11.9 | 24.4 | 37.1 | 18.6 | 79 | 381 |
| 12&15 | .4 | 7.4 | 15.2 | 22.4 | 30.7 | 23.9 | 79 | 473 |
| 18&21 | 1.6 | 12.6 | 20.5 | 24.9 | 27.3 | 13.2 | 74 | 699 |
| TOT | 19 | 212 | 360 | 536 | 680 | 389 | 77 | 2196 |

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | 3 | .0 | .1 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | * | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | * | 4 | * | .1 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | * | .1 | .2 | 10 | .0 | .4 |
| 9/10 | .0 | .0 | .0 | * | * | .1 | .3 | .3 | .0 | 19 | .0 | .8 |
| 7/8 | .0 | .0 | .0 | .1 | .2 | 1.2 | .8 | .3 | .0 | 59 | .4 | 2.1 |
| 6 | .0 | .0 | .0 | * | .4 | .7 | .2 | * | .0 | 33 | .2 | 1.3 |
| 5 | .0 | .0 | .0 | .1 | .3 | 1.3 | .3 | .0 | .0 | 45 | .1 | 1.8 |
| 4 | .0 | .0 | .0 | .3 | 1.8 | 2.3 | .2 | .0 | .0 | 107 | .1 | 4.5 |
| 3 | .0 | .0 | .0 | .4 | 2.4 | 1.6 | .2 | .0 | .0 | 105 | .3 | 4.2 |
| 2 | .0 | .0 | .2 | 1.9 | 5.1 | 2.3 | .0 | .0 | * | 221 | .8 | 8.7 |
| 1 | .0 | .0 | .1 | 1.6 | 4.3 | 1.7 | .1 | .0 | .0 | 179 | .8 | 7.0 |
| 0 | .0 | .0 | .4 | 6.2 | 7.8 | 2.0 | * | .0 | .0 | 381 | 1.7 | 14.8 |
| -1 | .0 | .0 | .3 | 4.3 | 5.0 | .7 | .0 | .0 | .0 | 237 | .7 | 9.5 |
| -2 | .0 | .0 | .8 | 6.5 | 4.9 | .7 | * | .0 | .0 | 300 | 1.5 | 11.5 |
| -3 | .0 | * | .7 | 4.7 | 2.6 | .3 | .0 | .0 | .0 | 192 | .6 | 7.7 |
| -4 | .0 | .0 | 1.3 | 3.2 | 1.6 | .3 | .0 | .0 | .0 | 147 | .3 | 6.0 |
| -5 | .0 | .1 | 1.1 | 2.5 | .9 | .2 | .0 | * | .0 | 116 | .3 | 4.7 |
| -6 | .0 | .0 | .8 | 1.5 | .3 | .2 | .0 | .0 | .0 | 65 | .1 | 2.7 |
| -7/-8 | .0 | .1 | 1.0 | 1.1 | .3 | .1 | .0 | .0 | .0 | 60 | .2 | 2.4 |
| -9/-10 | * | .1 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | 15 | .0 | .6 |
| -11/-13 | .0 | .1 | .2 | .1 | * | .1 | .0 | .0 | .0 | 13 | .1 | .4 |
| -14/-16 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 2 | 13 | 165 | 803 | 884 | 363 | 57 | 20 | 9 | 2316 | 193 | 2123 |
| PCT | .1 | .6 | 7.1 | 34.7 | 38.2 | 15.7 | 2.5 | .9 | .4 | 100.0 | 8.3 | 91.7 |

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .7 | 1.6 | .0 | .0 | .0 | .0 | 2.3 |
| 1-2 | .1 | 3.3 | 1.9 | .0 | .0 | .0 | 5.4 |
| 3-4 | .0 | 2.1 | 4.6 | .5 | .0 | .0 | 7.1 |
| 5-6 | .0 | .3 | 3.4 | .6 | .0 | .0 | 4.2 |
| 7 | .0 | .0 | 1.3 | .6 | .1 | .0 | 2.1 |
| 8-9 | .0 | .3 | 1.1 | .6 | .0 | .0 | 1.9 |
| 10-11 | .0 | .0 | .1 | .4 | .0 | .0 | .5 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 7.5 | 12.5 | 2.9 | .2 | .0 | 23.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .6 | .2 | .0 | .0 | .0 | .8 |
| 1-2 | .0 | .6 | .2 | .0 | .0 | .0 | .8 |
| 3-4 | .0 | .6 | .6 | .3 | .0 | .0 | 1.5 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | * | 1.9 | 1.2 | .3 | .0 | .0 | 3.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .5 | .9 | .3 | .0 | .0 | .0 | 1.7 |
| 3-4 | .2 | .6 | .3 | .0 | .0 | .0 | 1.0 |
| 5-6 | .0 | .2 | .5 | .0 | .0 | .0 | .7 |
| 7 | .2 | .0 | .0 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | 1.1 | 2.4 | 1.1 | .0 | .0 | .0 | 4.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .3 | .2 | .0 | .0 | .0 | .8 |
| 1-2 | .0 | .8 | .9 | .0 | .0 | .0 | 1.7 |
| 3-4 | .0 | .6 | .8 | .0 | .0 | .0 | 1.4 |
| 5-6 | .0 | .0 | .3 | * | .0 | .0 | .4 |
| 7 | .0 | * | .2 | .2 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.7 | 2.4 | .2 | .0 | .0 | 4.6 |

PERIOD: (OVER-ALL) 1963-1972 DECEMBER AREA 0034 POINT MUGU NW

TABLE 18 (CONT) 34.5N 121.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .7 | .2 | .0 | .0 | .0 | 1.0 |
| 1-2 | .0 | .7 | .4 | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .7 | .5 | .2 | .0 | .0 | 1.3 |
| 5-6 | .0 | .0 | .8 | .3 | .0 | .0 | 1.1 |
| 7 | .0 | .1 | .3 | .3 | .2 | .0 | .9 |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.1 | 2.3 | .8 | .2 | .0 | 5.5 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | .8 | .2 | .0 | .0 | .0 | 1.6 |
| 1-2 | .3 | 1.7 | .8 | .0 | .0 | .0 | 2.9 |
| 3-4 | .0 | .9 | .7 | .2 | .0 | .0 | 1.7 |
| 5-6 | .0 | .2 | .1 | * | .0 | .0 | .3 |
| 7 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .9 | 3.7 | 2.1 | .2 | .0 | .0 | 6.9 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | .7 | .0 | .0 | .0 | .0 | 1.3 |
| 1-2 | .0 | 2.4 | .3 | .0 | .0 | .0 | 2.7 |
| 3-4 | .0 | 1.3 | .9 | .3 | .0 | .0 | 2.5 |
| 5-6 | .0 | .8 | 1.3 | .1 | .0 | .0 | 2.2 |
| 7 | .0 | .3 | .5 | .4 | .1 | .0 | 1.3 |
| 8-9 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .2 | .2 | .0 | .0 | .3 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 5.5 | 3.3 | 1.0 | .1 | .0 | 10.5 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .5 | 3.0 | .3 | .0 | .0 | .0 | 3.8 | |
| 1-2 | .5 | 3.7 | 2.1 | .0 | .0 | .0 | 6.3 | |
| 3-4 | .0 | 2.5 | 6.7 | 1.5 | .0 | .0 | 10.9 | |
| 5-6 | .0 | 1.3 | 5.4 | .7 | .0 | .0 | 7.4 | |
| 7 | .0 | .4 | 2.7 | 1.4 | .2 | .0 | 4.7 | |
| 8-9 | .0 | * | 1.5 | .2 | .0 | .0 | 1.7 | |
| 10-11 | .0 | .0 | 1.0 | 1.1 | .0 | .0 | 2.1 | |
| 12 | .0 | .0 | .0 | .5 | .0 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .0 | * | .0 | * | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.0 | 11.0 | 19.6 | 5.5 | .3 | .0 | 37.4 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.4 | 8.5 | .9 | .0 | .0 | .0 | 15.8 | |
| 1-2 | 2.3 | 14.2 | 6.7 | .0 | .0 | .0 | 23.3 | |
| 3-4 | .2 | 9.1 | 14.9 | 3.0 | .0 | .0 | 27.1 | |
| 5-6 | .0 | 2.7 | 11.9 | 1.7 | .0 | .0 | 16.3 | |
| 7 | .2 | .9 | 5.2 | 2.8 | .6 | .0 | 9.7 | |
| 8-9 | .0 | .3 | 2.8 | .8 | .0 | .0 | 3.9 | |
| 10-11 | .0 | .0 | 1.3 | 1.6 | .0 | .0 | 2.8 | |
| 12 | .0 | .0 | .2 | .6 | .0 | .0 | .8 | |
| 13-16 | .0 | .0 | .0 | .0 | .2 | .0 | .2 | |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 9.1 | 35.7 | 43.8 | 10.6 | .8 | .0 | 100.0 | 639 |

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.8 | 9.1 | 13.8 | 6.2 | 2.7 | 1.5 | .5 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 473 | 4 |
| 6-7 | .2 | 1.2 | 4.7 | 5.6 | 4.0 | 2.5 | 1.3 | 1.1 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 265 | 6 |
| 8-9 | .1 | .9 | 2.0 | 2.4 | 3.6 | 3.0 | 1.9 | 1.2 | 1.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 210 | 7 |
| 10-11 | .0 | .5 | 1.0 | .9 | 1.6 | 1.6 | 1.6 | .5 | .6 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 113 | 8 |
| 12-13 | .0 | .0 | 2.0 | .7 | .7 | .4 | .6 | .4 | .4 | .2 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 71 | 7 |
| >13 | .0 | .0 | .0 | .5 | .5 | .2 | .5 | .3 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 28 | 9 |
| INDET | 4.1 | 1.6 | 1.3 | .9 | .6 | .2 | .5 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 119 | 3 |
| TOTAL | 91 | 170 | 317 | 220 | 174 | 119 | 87 | 48 | 37 | 7 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1279 | 5 |
| PCT | 7.1 | 13.3 | 24.8 | 17.2 | 13.6 | 9.3 | 6.8 | 3.8 | 2.9 | .5 | .5 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .2 | 1.0 | .0 | .0 | .0 | * | 1.6 | .4 | .1 | 8.0 | .2 | 4.5 | * | | 85.3 |
| NE | 1.2 | .2 | 1.4 | .0 | .0 | .0 | * | 2.7 | .5 | .0 | 16.3 | .5 | 9.4 | .1 | | 70.6 |
| E | 3.4 | .7 | 2.8 | .0 | .0 | .0 | * | 6.0 | .9 | .0 | 21.7 | .3 | 10.1 | .2 | | 60.8 |
| SE | 4.8 | .9 | 3.6 | .0 | .0 | .0 | .0 | 8.6 | 1.4 | .0 | 20.7 | .4 | 9.5 | .0 | | 59.4 |
| S | 4.2 | 1.5 | 3.1 | .0 | .0 | .0 | .0 | 8.2 | 1.9 | .0 | 18.2 | .3 | 11.9 | * | | 59.5 |
| SW | 2.1 | 1.0 | 2.9 | .0 | .0 | .0 | .0 | 5.8 | 1.1 | .2 | 16.5 | .3 | 13.1 | .1 | | 62.9 |
| W | .8 | .6 | 1.0 | .0 | .0 | .0 | * | 2.2 | .5 | .1 | 12.3 | .2 | 11.9 | .1 | | 72.7 |
| NW | .5 | .3 | .9 | .0 | .0 | .0 | * | 1.5 | .5 | * | 9.1 | .2 | 5.5 | .1 | | 83.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.0 | .1 | 1.3 | .0 | .0 | .0 | .0 | 2.4 | .4 | * | 26.9 | .3 | 14.4 | .0 | | 55.6 |
| TOT PCT | 1.3 | .5 | 1.4 | .0 | .0 | .0 | * | 3.0 | .6 | .1 | 12.1 | .2 | 8.1 | .1 | | 75.8 |
| TOT OBS: 50277 | | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.1 | .5 | 1.1 | .0 | .0 | .0 | .0 | 2.5 | .5 | * | 8.9 | .2 | 9.5 | .1 | | 78.4 |
| 06&09 | 1.3 | .3 | 1.4 | .0 | .0 | .0 | * | 2.9 | .7 | .1 | 10.9 | .2 | 5.6 | .1 | | 79.6 |
| 12&15 | 1.5 | .6 | 2.2 | .0 | .0 | .0 | * | 4.1 | .8 | .1 | 14.9 | .2 | 5.7 | * | | 74.3 |
| 18&21 | 1.2 | .4 | 1.1 | .0 | .0 | .0 | * | 2.5 | .6 | * | 13.3 | .3 | 10.7 | .1 | | 72.4 |
| TOT PCT | 1.3 | .5 | 1.4 | .0 | .0 | .0 | * | 3.0 | .6 | .1 | 12.1 | .2 | 8.1 | .1 | | 75.8 |
| TOT OBS: 50769 | | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.4 | 5.6 | 7.7 | 2.8 | .2 | .0 | | 17.7 | 13.9 | 15.8 | 13.5 | 20.5 | 17.6 | 21.6 | 19.1 | 18.0 | 14.8 |
| NE | 1.4 | 2.3 | .9 | .1 | * | .0 | | 4.7 | 7.0 | 1.7 | 2.6 | 4.6 | 5.8 | 7.0 | 8.9 | 5.6 | 2.3 |
| E | 1.0 | 1.8 | .6 | .1 | * | .0 | | 3.6 | 6.4 | 1.5 | 2.5 | 2.9 | 4.1 | 4.4 | 6.3 | 4.4 | 3.1 |
| SE | .8 | 2.1 | .9 | .2 | * | .0 | | 4.1 | 8.1 | 3.2 | 3.0 | 3.3 | 4.5 | 3.5 | 5.4 | 4.5 | 4.9 |
| S | 1.0 | 2.2 | 1.1 | .3 | * | .0 | | 4.6 | 8.0 | 4.7 | 3.6 | 4.2 | 3.6 | 3.7 | 3.9 | 5.8 | 6.1 |
| SW | 1.0 | 2.8 | .9 | .1 | * | .0 | | 4.9 | 7.7 | 5.3 | 4.3 | 3.4 | 4.1 | 3.3 | 3.8 | 6.0 | 7.3 |
| W | 2.1 | 9.0 | 4.8 | .7 | * | .0 | | 16.6 | 9.4 | 24.0 | 21.1 | 13.5 | 14.1 | 10.4 | 10.9 | 16.2 | 20.5 |
| NW | 2.0 | 12.2 | 17.3 | 5.8 | .3 | .0 | | 37.7 | 13.9 | 40.8 | 45.0 | 41.8 | 38.8 | 36.4 | 33.7 | 31.0 | 37.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.2 | | | | | | | 6.2 | .0 | 3.0 | 4.5 | 5.7 | 7.6 | 9.7 | 8.0 | 8.4 | 3.2 |
| TOT OBS | | | | | | | 55930 | | 11.0 | 9440 | 4179 | 6850 | 4488 | 7674 | 6010 | 9171 | 8118 |
| TOT PCT | 17.0 | 38.0 | 34.2 | 10.1 | .6 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.7 | 7.7 | 5.5 | .8 | * | | 17.7 | 13.9 | 15.1 | 19.3 | 20.5 | 16.5 |
| NE | 2.8 | 1.5 | .4 | * | .0 | | 4.7 | 7.0 | 2.0 | 5.1 | 7.9 | 4.0 |
| E | 2.1 | 1.2 | .3 | * | .0 | | 3.6 | 6.4 | 1.8 | 3.3 | 5.2 | 3.8 |
| SE | 1.9 | 1.7 | .4 | .1 | * | | 4.1 | 8.1 | 3.1 | 3.8 | 4.3 | 4.7 |
| S | 2.2 | 1.7 | .6 | .1 | * | | 4.6 | 8.0 | 4.3 | 4.0 | 3.8 | 6.0 |
| SW | 2.5 | 2.0 | .4 | * | * | | 4.9 | 7.7 | 5.0 | 2.7 | 3.5 | 6.7 |
| W | 6.2 | 8.4 | 1.9 | .2 | * | | 16.6 | 9.4 | 23.1 | 13.8 | 10.6 | 18.2 |
| NW | 6.4 | 17.7 | 11.8 | 1.7 | * | | 37.7 | 13.9 | 42.1 | 40.7 | 33.2 | 34.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 6.2 | | | | | | 6.2 | .0 | 3.4 | 6.5 | 8.9 | 6.0 |
| TOT OBS | | | | | | 55930 | | 11.0 | 13619 | 11338 | 13684 | 17289 |
| TOT PCT | 33.9 | 41.9 | 21.1 | 3.1 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

ANNUAL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.4 | 7.9 | 37.2 | 38.2 | 12.3 | .9 | .0 | 12.3 | 100.0 | 13619 |
| 06&09 | 6.5 | 10.3 | 34.9 | 36.0 | 11.7 | .6 | .0 | 11.6 | 100.0 | 11338 |
| 12&15 | 8.9 | 12.6 | 36.7 | 32.1 | 9.2 | .5 | .0 | 10.3 | 100.0 | 13684 |
| 18&21 | 6.0 | 12.0 | 41.8 | 31.5 | 8.1 | .5 | .0 | 10.3 | 100.0 | 17289 |
| TOT | | | | | | | | 11.0 | | 55930 |
| PCT | 6.2 | 10.8 | 38.0 | 34.2 | 10.1 | .6 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.3 | 2.0 | 3.5 | 5.0 | | 3.9 |
| NE | 3.5 | .4 | .7 | 1.2 | | 3.3 |
| E | 1.7 | .3 | .6 | 1.1 | | 4.2 |
| SE | .8 | .3 | .7 | 1.8 | | 5.6 |
| S | 1.0 | .3 | 1.1 | 2.0 | | 5.6 |
| SW | 1.4 | .4 | 1.1 | 1.6 | | 4.8 |
| W | 8.0 | 1.4 | 2.9 | 4.2 | | 3.6 |
| NW | 15.7 | 3.3 | 6.3 | 10.0 | | 3.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 3.2 | .4 | .9 | 3.0 | | 4.2 |
| TOT OBS | | | | | 31386 | 4.0 |
| TOT PCT | 43.6 | 8.7 | 17.9 | 29.8 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | .1 | .6 | 1.5 | 2.8 | 1.4 | .3 | .1 | * | .1 | 11.3 | |
| NE | .1 | * | .1 | .2 | .5 | .3 | .1 | * | * | .1 | 4.3 | |
| E | .2 | * | .1 | .2 | .4 | .3 | .1 | * | * | .1 | 2.3 | |
| SE | .3 | * | .1 | .4 | .7 | .4 | .1 | * | * | .1 | 1.5 | |
| S | .3 | * | .2 | .5 | .9 | .4 | .1 | * | * | .1 | 1.9 | |
| SW | .2 | * | .1 | .4 | .8 | .4 | .1 | * | * | * | 2.3 | |
| W | .6 | * | .4 | 1.1 | 2.1 | 1.0 | .2 | .1 | .1 | .2 | 10.7 | |
| NW | 1.4 | .1 | 1.0 | 2.9 | 5.3 | 2.4 | .6 | .2 | .1 | .2 | 21.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .8 | * | .3 | .6 | 1.1 | .4 | .1 | * | * | .1 | 4.0 | |
| TOT OBS | | | | | | | | | | | | 31386 |
| TOT PCT | 4.4 | .4 | 2.8 | 7.8 | 14.5 | 6.9 | 1.8 | .5 | .4 | 1.0 | 59.4 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .7 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| * OR >5000 | 1.0 | 1.7 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| * OR >3500 | 1.9 | 3.3 | 3.6 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| * OR >2000 | 5.6 | 9.5 | 10.4 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| * OR >1000 | 12.8 | 21.0 | 24.1 | 24.9 | 25.1 | 25.1 | 25.1 | 25.1 |
| * OR >600 | 15.8 | 26.6 | 30.9 | 32.4 | 32.8 | 32.9 | 32.9 | 32.9 |
| * OR >300 | 16.5 | 28.2 | 33.1 | 35.0 | 35.6 | 35.6 | 35.7 | 35.7 |
| * OR >150 | 16.6 | 28.4 | 33.4 | 35.4 | 35.9 | 36.0 | 36.1 | 36.1 |
| * OR > 0 | 16.7 | 28.8 | 34.2 | 36.6 | 38.1 | 38.9 | 40.2 | 40.4 |

TOTAL NUMBER OF OBS: 31543 PCT FREQ NH <5/8: 59.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 35.7 | 7.4 | 7.7 | 4.6 | 3.4 | 3.2 | 5.6 | 5.6 | 22.9 | 3.8 | 32785 |

ANNUAL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | * | * | * | * | * | * | * | * | .0 | * | .1 | |
| | NO PCP | .3 | .1 | .1 | .2 | .2 | .2 | .3 | .8 | .0 | .5 | 2.7 | |
| | TOT % | .3 | .1 | .2 | .2 | .2 | .2 | .3 | .9 | .0 | .5 | 2.8 | |
| 1/2<1 | PCP | * | * | * | .1 | * | * | * | * | .0 | * | .2 | |
| | NO PCP | .3 | .1 | .1 | .1 | .1 | .1 | .3 | .5 | .0 | .2 | 1.9 | |
| | TOT % | .3 | .1 | .1 | .2 | .2 | .1 | .3 | .6 | .0 | .2 | 2.1 | |
| 1<2 | PCP | * | * | * | .1 | .1 | * | * | * | .0 | * | .3 | |
| | NO PCP | .2 | .2 | .1 | .2 | .2 | .2 | .6 | .5 | .0 | .3 | 2.6 | |
| | TOT % | .2 | .2 | .2 | .3 | .3 | .3 | .6 | .6 | .0 | .4 | 2.9 | |
| 2<5 | PCP | .1 | .1 | .1 | .1 | .2 | .1 | .1 | .1 | .0 | * | .7 | |
| | NO PCP | .7 | .4 | .3 | .4 | .4 | .5 | 1.8 | 1.8 | .0 | 1.0 | 7.3 | |
| | TOT % | .8 | .5 | .4 | .5 | .6 | .6 | 1.8 | 1.9 | .0 | 1.0 | 8.1 | |
| 5<10 | PCP | .1 | .1 | .1 | .1 | .2 | .1 | .2 | .2 | .0 | * | 1.2 | |
| | NO PCP | 4.7 | 1.5 | 1.1 | 1.1 | 1.4 | 1.6 | 5.7 | 10.4 | .0 | 1.7 | 29.1 | |
| | TOT % | 4.8 | 1.6 | 1.1 | 1.3 | 1.6 | 1.7 | 5.9 | 10.7 | .0 | 1.8 | 30.3 | |
| 10+ | PCP | * | * | * | .1 | * | * | .1 | .1 | .0 | * | .4 | |
| | NO PCP | 11.5 | 2.5 | 1.6 | 1.6 | 1.9 | 2.1 | 7.8 | 22.4 | .0 | 2.0 | 53.4 | |
| | TOT % | 11.6 | 2.5 | 1.6 | 1.7 | 2.0 | 2.2 | 7.9 | 22.5 | .0 | 2.0 | 53.8 | |
| | TOT OBS | | | | | | | | | | | | 50200 |
| | TOT PCT | 18.0 | 4.9 | 3.6 | 4.0 | 4.8 | 5.0 | 16.8 | 37.0 | .0 | 5.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | .1 | * | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .5 | 1.1 | |
| | 4-10 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .5 | .0 | | 1.2 | |
| | 11-21 | .1 | * | * | * | * | * | .1 | .3 | .0 | | .6 | |
| | 22+ | * | .0 | * | * | * | .0 | * | * | .0 | | .1 | |
| | TOT % | .3 | .1 | .2 | .2 | .2 | .2 | .4 | 1.0 | .0 | .5 | 3.0 | |
| 1/2<1 | 0-3 | * | * | * | * | .1 | .1 | .1 | .1 | .0 | .2 | .7 | |
| | 4-10 | .1 | * | * | .1 | .1 | .1 | .1 | .2 | .0 | | .7 | |
| | 11-21 | .1 | * | * | * | * | * | .1 | .2 | .0 | | .5 | |
| | 22+ | * | .0 | * | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .3 | .1 | .1 | .2 | .2 | .1 | .3 | .6 | .0 | .2 | 2.1 | |
| 1<2 | 0-3 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .4 | 1.1 | |
| | 4-10 | .1 | .1 | .1 | .1 | .1 | .1 | .4 | .3 | .0 | | 1.3 | |
| | 11-21 | .1 | * | * | * | * | * | .1 | .2 | .0 | | .5 | |
| | 22+ | * | * | * | * | * | * | * | .1 | .0 | | .1 | |
| | TOT % | .2 | .2 | .2 | .3 | .3 | .3 | .6 | .7 | .0 | .4 | 3.1 | |
| 2<5 | 0-3 | .2 | .2 | .2 | .1 | .2 | .2 | .4 | .3 | .0 | 1.0 | 2.8 | |
| | 4-10 | .3 | .2 | .2 | .2 | .3 | .4 | 1.2 | 1.0 | .0 | | 3.8 | |
| | 11-21 | .3 | * | * | .1 | .1 | .1 | .3 | .8 | .0 | | 1.7 | |
| | 22+ | .1 | * | * | * | .1 | * | * | .2 | .0 | | .4 | |
| | TOT % | .8 | .5 | .4 | .5 | .6 | .6 | 1.9 | 2.3 | .0 | 1.0 | 8.7 | |
| 5<10 | 0-3 | .5 | .6 | .3 | .2 | .3 | .3 | .8 | .6 | .0 | 1.8 | 5.4 | |
| | 4-10 | 1.4 | .7 | .6 | .6 | .7 | .9 | 3.1 | 3.4 | .0 | | 11.4 | |
| | 11-21 | 1.9 | .2 | .2 | .3 | .3 | .3 | 1.3 | 4.7 | .0 | | 9.5 | |
| | 22+ | .8 | * | * | .1 | .1 | * | .2 | 1.7 | .0 | | 3.0 | |
| | TOT % | 4.6 | 1.5 | 1.1 | 1.2 | 1.5 | 1.6 | 5.6 | 10.4 | .0 | 1.8 | 29.2 | |
| 10+ | 0-3 | .6 | .4 | .3 | .3 | .3 | .3 | .6 | .7 | .0 | 2.3 | 5.9 | |
| | 4-10 | 3.5 | 1.3 | .9 | 1.0 | 1.0 | 1.2 | 4.1 | 6.6 | .0 | | 19.6 | |
| | 11-21 | 5.2 | .6 | .3 | .4 | .6 | .5 | 2.8 | 10 9 | .0 | | 21.4 | |
| | 22+ | 2.0 | .1 | .1 | .1 | .1 | .1 | .5 | 4.2 | .0 | | 7.0 | |
| | TOT % | 11.4 | 2.5 | 1.6 | 1.7 | 1.9 | 2.1 | 8.0 | 22.4 | .0 | 2.3 | 53.9 | |
| | TOT OBS | | | | | | | | | | | | 53951 |
| | TOT PCT | 17.7 | 4.8 | 3.6 | 4.0 | 4.7 | 4.9 | 16.8 | 37.4 | .0 | 6.2 | 100.0 | |

ANNUAL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.1 | .4 | 2.4 | 7.4 | 13.2 | 6.7 | 1.7 | .6 | .3 | 1.1 | 37.0 | 63.0 | 8244 |
| 06&09 | 4.5 | .4 | 2.2 | 6.0 | 12.3 | 6.2 | 1.5 | .3 | .3 | .7 | 34.4 | 65.6 | 7455 |
| 12&15 | 6.4 | .4 | 3.3 | 8.4 | 15.1 | 7.6 | 1.7 | .5 | .4 | .9 | 44.7 | 55.3 | 7357 |
| 18&21 | 3.6 | .4 | 3.1 | 8.7 | 16.3 | 7.0 | 2.0 | .5 | .6 | 1.2 | 43.4 | 56.6 | 9066 |
| TOT | | | | | | | | | | | | | 32122 |
| PCT | 4.3 | .4 | 2.8 | 7.7 | 14.3 | 6.8 | 1.8 | .5 | .4 | 1.0 | 40.0 | 60.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 1.9 | 1.9 | 2.4 | 7.8 | 30.1 | 56.0 | 13270 |
| 06&09 | 3.1 | 1.6 | 2.4 | 7.2 | 29.4 | 56.2 | 11185 |
| 12&15 | 4.7 | 2.8 | 3.6 | 8.3 | 28.6 | 52.1 | 13246 |
| 18&21 | 2.5 | 2.0 | 3.0 | 10.7 | 28.9 | 52.0 | 16757 |
| TOT | | | | | | | 54458 |
| PCT | 3.0 | 2.1 | 3.1 | 8.7 | 29.2 | 53.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.2 | 6.6 | 20.8 | 20.9 | 58.3 | 8061 |
| 06&09 | 4.4 | 7.6 | 20.4 | 18.2 | 61.4 | 7339 |
| 12&15 | 6.4 | 11.5 | 26.7 | 21.9 | 51.3 | 7239 |
| 18&21 | 3.6 | 8.3 | 25.5 | 22.6 | 51.9 | 8904 |
| TOT | | | | | | 31543 |
| PCT | 4.4 | 8.4 | 23.4 | 21.0 | 55.6 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | * | .0 | * | * | .0 | .0 | | .1 |
| 75/79 | * | * | * | .1 | .1 | .1 | * | * | | .3 |
| 70/74 | .1 | .1 | .1 | .2 | .4 | .6 | .3 | .1 | | 1.8 |
| 65/69 | .1 | .1 | .2 | .4 | 1.0 | 2.6 | 3.1 | 1.1 | | 8.6 |
| 60/64 | .1 | .2 | .2 | .7 | 2.7 | 7.0 | 12.7 | 6.4 | | 29.8 |
| 55/59 | * | .1 | .3 | .8 | 2.6 | 8.2 | 17.1 | 11.5 | | 40.6 |
| 50/54 | * | .1 | .2 | .6 | 2.2 | 3.1 | 6.3 | 4.2 | | 16.8 |
| 45/49 | .0 | * | .1 | .2 | .3 | .3 | .5 | .3 | | 1.7 |
| 40/44 | .0 | * | * | * | .1 | .1 | .1 | * | | .3 |
| 35/39 | .0 | .0 | .0 | * | * | * | * | .0 | | * |
| 30/34 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * |
| TOTAL | | | | | | | | | 33024 | 100.0 |
| PCT | .4 | .6 | 1.0 | 2.9 | 9.4 | 22.0 | 40.0 | 23.6 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | * | * | .0 | * | * | * | .0 | * |
| * | * | * | * | * | * | .1 | .1 | .0 | * |
| .2 | .1 | .1 | .1 | .2 | .2 | .5 | .3 | .0 | .1 |
| 1.0 | .3 | .2 | .3 | .5 | .8 | 2.3 | 2.5 | .0 | .6 |
| 4.9 | .9 | .9 | 1.2 | 1.6 | 1.6 | 5.8 | 11.2 | .0 | 1.6 |
| 7.7 | 1.6 | 1.3 | 1.7 | 1.9 | 1.7 | 5.9 | 16.7 | .0 | 2.1 |
| 3.7 | 1.1 | .7 | .5 | .7 | .6 | 1.9 | 6.8 | .0 | .8 |
| .4 | .5 | .2 | * | * | * | .1 | .4 | .0 | .1 |
| .1 | .2 | * | * | .0 | * | * | * | .0 | * |
| * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 |
| * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 18.1 | 4.7 | 3.4 | 3.8 | 4.9 | 5.0 | 16.6 | 38.1 | .0 | 5.4 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 85 | 71 | 67 | 59 | 54 | 52 | 37 | 59.8 | 13649 |
| 06&09 | 82 | 66 | 63 | 57 | 52 | 49 | 40 | 57.4 | 11393 |
| 12&15 | 84 | 66 | 62 | 57 | 50 | 47 | 34 | 56.6 | 13762 |
| 18&21 | 84 | 73 | 68 | 60 | 54 | 51 | 41 | 60.0 | 17330 |
| TOT | 85 | 70 | 66 | 58 | 52 | 49 | 34 | 58.6 | 56134 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .2 | 4.0 | 10.5 | 26.1 | 41.3 | 17.9 | 81 | 8991 |
| 06&09 | .2 | 2.7 | 5.7 | 16.7 | 43.3 | 31.3 | 85 | 6747 |
| 12&15 | .3 | 3.4 | 6.5 | 15.7 | 40.3 | 33.7 | 85 | 7747 |
| 18&21 | .8 | 7.0 | 13.1 | 27.1 | 36.8 | 15.2 | 78 | 9881 |
| TOT | 131 | 1434 | 3058 | 7336 | 13478 | 7929 | 82 | 33366 |

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | 2 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | 13 | * | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | 27 | * | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | .1 | * | .0 | 100 | * | .3 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .1 | .2 | .1 | .1 | * | * | 232 | * | .6 |
| 9/10 | .0 | .0 | .0 | .0 | * | .1 | .3 | .4 | .2 | * | * | * | 388 | .1 | 1.0 |
| 7/8 | .0 | .0 | .0 | * | .1 | .4 | 1.0 | .6 | .2 | * | * | * | 869 | .2 | 2.2 |
| 6 | .0 | .0 | .0 | * | .1 | .4 | .6 | .3 | .1 | * | * | .0 | 574 | .1 | 1.5 |
| 5 | .0 | .0 | .0 | * | .3 | .9 | 1.4 | .5 | .1 | * | * | .0 | 1220 | .2 | 3.1 |
| 4 | .0 | .0 | .0 | .1 | .7 | 2.1 | 2.2 | .7 | .1 | * | * | .0 | 2124 | .5 | 5.3 |
| 3 | .0 | .0 | .0 | * | .6 | 2.0 | 1.4 | .5 | .1 | * | .0 | .0 | 1721 | .3 | 4.4 |
| 2 | .0 | .0 | * | .2 | 2.2 | 4.4 | 3.2 | .6 | .1 | * | * | .0 | 3872 | 1.1 | 9.5 |
| 1 | .0 | .0 | .0 | .2 | 2.3 | 3.4 | 2.0 | .5 | * | * | * | .0 | 3057 | .7 | 7.7 |
| 0 | .0 | .0 | * | .9 | 5.6 | 6.4 | 3.6 | .7 | .1 | * | * | .0 | 6274 | 1.9 | 15.4 |
| -1 | .0 | .0 | * | .6 | 3.8 | 3.7 | 1.7 | .3 | * | * | * | .0 | 3665 | .8 | 9.3 |
| -2 | .0 | .0 | .1 | 1.6 | 4.8 | 4.1 | 1.8 | .2 | * | * | .0 | .0 | 4530 | 1.3 | 11.3 |
| -3 | .0 | .0 | * | 1.0 | 2.5 | 2.0 | .9 | .1 | * | * | .0 | .0 | 2328 | .6 | 5.9 |
| -4 | .0 | * | .1 | 1.3 | 2.1 | 1.8 | .6 | .1 | * | * | * | .0 | 2180 | .6 | 5.5 |
| -5 | .0 | * | .1 | .8 | 1.2 | 1.0 | .4 | * | * | .0 | .0 | .0 | 1238 | .4 | 3.1 |
| -6 | .0 | .0 | .1 | .5 | .7 | .5 | .2 | * | .0 | .0 | .0 | .0 | 705 | .2 | 1.8 |
| -7/-8 | .0 | * | .1 | .5 | .5 | .4 | .2 | * | * | .0 | .0 | .0 | 643 | .2 | 1.6 |
| -9/-10 | .0 | * | .1 | .2 | .2 | .2 | * | * | * | .0 | .0 | .0 | 248 | .1 | .6 |
| -11/-13 | .0 | * | .1 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | 121 | .1 | .3 |
| -14/-16 | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 23 | * | .1 |
| -17/-19 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 5 | .0 | * |
| TOTAL | | | | | | | | | | | | | 36159 | | |
| PCT | * | * | .7 | 7.8 | 27.8 | 33.9 | 21.8 | 5.9 | 1.4 | .4 | .1 | * | 100.0 | 9.4 | 90.6 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.0 | * | .0 | .0 | .0 | 1.4 |
| 1-2 | .2 | 3.0 | 2.1 | .0 | .0 | .0 | 5.2 |
| 3-4 | * | 1.8 | 4.4 | .8 | .0 | .0 | 7.0 |
| 5-6 | * | .4 | 2.9 | .9 | * | .0 | 4.2 |
| 7 | .0 | .2 | 1.4 | .9 | * | .0 | 2.5 |
| 8-9 | .0 | .1 | .5 | .6 | * | .0 | 1.2 |
| 10-11 | .0 | .0 | .2 | .4 | .1 | .0 | .7 |
| 12 | .0 | .0 | .1 | .1 | * | .0 | .2 |
| 13-16 | .0 | .0 | * | .2 | * | .0 | .3 |
| 17-19 | .0 | .0 | * | * | * | .0 | .1 |
| 20-22 | .0 | .0 | * | .0 | .0 | .0 | * |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 6.4 | 11.7 | 4.0 | .2 | .0 | 22.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | * | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .7 | .3 | .0 | .0 | .0 | 1.0 |
| 3-4 | * | .4 | .3 | .1 | .0 | .0 | .8 |
| 5-6 | .0 | .1 | .3 | * | .0 | .0 | .4 |
| 7 | .0 | * | .1 | * | .0 | .0 | .1 |
| 8-9 | .0 | * | * | * | .0 | .0 | * |
| 10-11 | .0 | * | * | * | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * |
| 17-19 | .0 | .0 | * | * | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.5 | 1.0 | .1 | .0 | .0 | 2.9 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .6 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | * | .2 | .1 | * | .0 | .0 | .3 |
| 5-6 | .0 | * | .1 | * | * | .0 | .1 |
| 7 | * | .0 | * | * | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.1 | .4 | .1 | * | .0 | 1.9 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | * | .0 | .0 | .0 | .6 |
| 1-2 | .1 | .8 | .4 | .0 | .0 | .0 | 1.3 |
| 3-4 | * | .3 | .4 | .1 | .0 | .0 | .7 |
| 5-6 | .0 | * | .2 | .1 | * | .0 | .3 |
| 7 | * | .0 | .1 | * | * | .0 | .2 |
| 8-9 | .0 | .0 | * | * | .0 | .0 | * |
| 10-11 | .0 | .0 | * | * | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | * | .0 | * |
| 13-16 | .0 | .0 | .0 | * | * | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | * | .0 | * |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.5 | 1.2 | .2 | .1 | .0 | 3.2 |

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0034 POINT MUGU NW
34.6N 121.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .5 | * | .0 | .0 | .0 | .7 | .2 | .5 | * | .0 | .0 | .0 | .7 |
| 1-2 | .1 | 1.0 | .5 | .0 | .0 | .0 | 1.6 | .1 | 1.0 | .4 | .0 | .0 | .0 | 1.5 |
| 3-4 | * | .4 | .6 | .1 | .0 | .0 | 1.1 | * | .4 | .4 | .1 | .0 | .0 | .8 |
| 5-6 | .0 | .1 | .3 | .1 | .0 | .0 | .6 | .0 | .1 | .1 | * | .0 | .0 | .3 |
| 7 | * | * | .1 | .1 | * | .0 | .2 | * | * | .1 | * | .0 | .0 | .2 |
| 8-9 | .0 | * | * | * | .0 | .0 | .1 | .0 | * | * | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | * | .0 | * | * | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.0 | 1.7 | .3 | * | .0 | 4.4 | .4 | 2.1 | 1.1 | .1 | .0 | .0 | 3.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 1.1 | .1 | .0 | .0 | .0 | 1.4 | .4 | 1.6 | .1 | .0 | .0 | .0 | 2.2 | |
| 1-2 | .3 | 2.7 | 1.1 | .0 | .0 | .0 | 4.1 | .4 | 5.6 | 4.8 | .0 | .0 | .0 | 10.8 | |
| 3-4 | * | 1.2 | 1.5 | .2 | .0 | .0 | 3.0 | .1 | 3.2 | 9.0 | 1.8 | .0 | .0 | 14.2 | |
| 5-6 | * | .3 | .8 | .2 | .0 | .0 | 1.3 | * | .9 | 5.7 | 2.1 | .1 | .0 | 8.8 | |
| 7 | .0 | * | .5 | .2 | * | .0 | .7 | * | .2 | 3.1 | 1.9 | .2 | .0 | 5.5 | |
| 8-9 | .0 | * | .1 | .1 | * | .0 | .2 | .0 | * | 1.4 | 1.2 | .1 | .0 | 2.7 | |
| 10-11 | .0 | * | .1 | .1 | .0 | .0 | .2 | .0 | * | .4 | .9 | .1 | .0 | 1.4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .3 | .1 | .0 | .5 | |
| 13-16 | .0 | .0 | * | * | .0 | .0 | * | .0 | .0 | * | .3 | .1 | .0 | .4 | |
| 17-19 | .0 | .0 | .0 | 0 | * | .0 | * | .0 | .0 | * | * | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 5.4 | 4.2 | .7 | * | .0 | 11.0 | .9 | 11.7 | 24.7 | 8.6 | .7 | .0 | 46.7 | 96.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.5 | 5.9 | .3 | .0 | .0 | .0 | 11.8 | |
| 1-2 | 1.7 | 15.3 | 9.7 | .0 | .0 | .0 | 26.6 | |
| 3-4 | .3 | 7.7 | 16.7 | 3.1 | .0 | .0 | 27.8 | |
| 5-6 | * | 2.0 | 10.3 | 3.4 | .1 | .0 | 15.9 | |
| 7 | .1 | .6 | 5.4 | 3.1 | .3 | .0 | 9.6 | |
| 8-9 | .0 | .2 | 2.1 | 1.9 | .1 | .0 | 4.4 | |
| 10-11 | .0 | .1 | .8 | 1.4 | .1 | .0 | 2.4 | |
| 12 | .0 | * | .2 | .4 | .1 | .0 | .8 | |
| 13-16 | .0 | .0 | .1 | .6 | .1 | .0 | .8 | |
| 17-19 | .0 | .0 | .1 | * | .1 | .0 | .2 | |
| 20-22 | .0 | .0 | * | * | * | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 9428 |
| TOT PCT | 7.6 | 31.6 | 45.7 | 14.1 | 1.0 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.4 | 11.4 | 14.5 | 7.2 | 3.2 | 1.3 | .5 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7839 | 4 |
| 6-7 | .1 | 1.7 | 6.2 | 7.8 | 5.2 | 2.8 | 1.4 | .7 | .4 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5079 | 6 |
| 8-9 | * | .8 | 2.5 | 2.9 | 3.4 | 2.4 | 1.5 | .8 | .7 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2858 | 7 |
| 10-11 | .0 | .5 | 1.0 | 1.1 | 1.2 | 1.3 | .8 | .5 | .5 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 1294 | 7 |
| 12-13 | .0 | .0 | .6 | .5 | .4 | .4 | .3 | .3 | .2 | .1 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 528 | 8 |
| >13 | .0 | .0 | .0 | .2 | .3 | .2 | .2 | .2 | .2 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 224 | 10 |
| INDET | 3.0 | 1.1 | .9 | .6 | .3 | .2 | .1 | .1 | * | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1189 | 2 |
| TOTAL | | | | | | | | | | | | | | | | | | | | 19011 | 5 |
| PCT | 5.6 | 15.5 | 25.7 | 20.3 | 14.0 | 8.5 | 4.9 | 2.6 | 2.2 | .4 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU , V
34.0N 121.2W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

| SEA TMP DEG F | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN | PCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 95/96 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 93/94 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 91/92 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 89/90 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 87/88 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 85/86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 83/84 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 81/82 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | 2 | * |
| 79/80 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | * |
| 77/78 | .0 | .0 | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | .0 | 8 | * |
| 75/76 | .0 | .0 | .0 | .0 | * | .0 | .1 | .3 | .1 | .0 | .0 | * | 18 | * |
| 73/74 | .0 | .0 | * | .0 | * | .1 | .2 | .3 | .6 | .1 | .1 | .1 | 51 | .1 |
| 71/72 | .1 | .0 | * | * | .0 | .2 | .5 | .6 | .9 | .3 | .0 | .0 | 94 | .2 |
| 69/70 | .1 | .0 | .1 | .1 | .2 | .1 | 1.2 | 1.6 | 2.1 | 1.0 | .3 | .1 | 251 | .6 |
| 67/68 | .1 | .1 | .1 | .1 | .2 | .8 | 2.5 | 3.9 | 6.4 | 3.8 | .8 | .5 | 696 | 1.7 |
| 65/66 | .2 | .1 | .2 | .4 | .6 | 1.9 | 4.3 | 7.3 | 10.7 | 12.0 | 2.4 | .7 | 1479 | 3.5 |
| 63/64 | .8 | .4 | .7 | 1.0 | 2.3 | 6.1 | 11.7 | 18.2 | 22.9 | 22.5 | 11.3 | 3.6 | 3678 | 8.8 |
| 61/62 | 3.0 | 1.8 | 2.3 | 2.7 | 6.1 | 10.2 | 18.8 | 21.1 | 22.5 | 23.6 | 21.2 | 11.4 | 5175 | 12.4 |
| 59/60 | 10.9 | 7.6 | 8.1 | 8.4 | 12.0 | 19.5 | 22.4 | 21.9 | 18.5 | 19.4 | 28.6 | 21.1 | 6985 | 16.7 |
| 57/58 | 24.5 | 22.4 | 20.8 | 19.8 | 22.8 | 24.4 | 18.8 | 15.2 | 9.6 | 11.5 | 19.7 | 28.0 | 8165 | 19.6 |
| 55/56 | 35.0 | 34.9 | 28.7 | 28.4 | 24.3 | 20.8 | 12.9 | 6.6 | 4.5 | 4.2 | 8.7 | 23.5 | 7889 | 18.9 |
| 53/54 | 17.9 | 22.3 | 23.6 | 22.8 | 18.8 | 11.2 | 5.0 | 1.9 | 1.0 | 1.2 | 4.3 | 8.1 | 4680 | 11.2 |
| 51/52 | 5.1 | 7.7 | 11.8 | 11.2 | 9.4 | 3.5 | 1.2 | .7 | .2 | .3 | 1.0 | 1.9 | 1835 | 4.4 |
| 49/50 | 1.4 | 2.2 | 2.5 | 4.1 | 2.3 | .8 | .2 | .1 | * | .1 | .4 | .6 | 501 | 1.2 |
| 47/48 | .9 | .3 | .7 | .8 | .9 | .3 | .0 | * | .0 | .0 | .2 | .2 | 143 | .3 |
| 45/46 | .2 | .2 | .2 | .3 | .2 | .2 | .1 | * | .0 | .0 | .1 | .1 | 54 | .1 |
| 43/44 | * | * | .1 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | * | 7 | * |
| 41/42 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2 | * |
| 39/40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 37/38 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 35/36 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 33/34 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 31/32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 29/30 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 27/28 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| <27 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| TOTAL | 3176 | 3066 | 3459 | 3447 | 3512 | 3933 | 3930 | 3655 | 3460 | 3704 | 3571 | 2801 | 41714 | 100.0 |
| MEAN | 56.0 | 55.5 | 55.3 | 55.3 | 56.1 | 57.7 | 59.7 | 61.0 | 62.0 | 61.5 | 59.4 | 57.7 | 58.1 | |

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

| MO | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 1019 | 1019 | 1020 | 1019 | 1020 | 1020 | 1021 | 1019 | 1020 | 3823 |
| FEB | 1019 | 1019 | 1019 | 1019 | 1019 | 1019 | 1020 | 1019 | 1019 | 3885 |
| MAR | 1018 | 1017 | 1019 | 1017 | 1018 | 1017 | 1019 | 1018 | 1018 | 4431 |
| APR | 1016 | 1016 | 1017 | 1017 | 1017 | 1017 | 1018 | 1017 | 1017 | 4709 |
| MAY | 1016 | 1015 | 1017 | 1015 | 1016 | 1016 | 1017 | 1016 | 1016 | 4645 |
| JUN | 1015 | 1014 | 1015 | 1014 | 1014 | 1015 | 1016 | 1015 | 1015 | 4886 |
| JUL | 1014 | 1014 | 1015 | 1014 | 1014 | 1014 | 1016 | 1015 | 1015 | 4750 |
| AUG | 1014 | 1014 | 1015 | 1014 | 1014 | 1014 | 1015 | 1015 | 1015 | 4248 |
| SEP | 1013 | 1013 | 1014 | 1013 | 1013 | 1014 | 1015 | 1014 | 1014 | 4051 |
| OCT | 1015 | 1016 | 1016 | 1016 | 1016 | 1016 | 1017 | 1016 | 1016 | 4286 |
| NOV | 1017 | 1018 | 1018 | 1018 | 1018 | 1018 | 1019 | 1018 | 1018 | 3996 |
| DEC | 1018 | 1018 | 1020 | 1018 | 1019 | 1018 | 1020 | 1018 | 1019 | 3224 |
| ANN | 1016 | 1016 | 1017 | 1016 | 1017 | 1017 | 1018 | 1017 | 1017 | 50934 |
| OBS | 8641 | 3502 | 6826 | 3794 | 6897 | 5095 | 9161 | 7018 | | |

PERCENTILES

| MO | MIN | 1% | 5% | 25% | 50% | 75% | 95% | 99% | MAX |
|---|---|---|---|---|---|---|---|---|---|
| JAN | 997 | 1005 | 1011 | 1017 | 1020 | 1023 | 1027 | 1029 | 1035 |
| FEB | 998 | 1005 | 1010 | 1016 | 1020 | 1022 | 1027 | 1030 | 1035 |
| MAR | 996 | 1004 | 1010 | 1015 | 1018 | 1021 | 1025 | 1028 | 1033 |
| APR | 996 | 1007 | 1011 | 1015 | 1017 | 1019 | 1023 | 1026 | 1032 |
| MAY | 997 | 1008 | 1011 | 1014 | 1016 | 1018 | 1022 | 1024 | 1029 |
| JUN | 994 | 1006 | 1009 | 1013 | 1015 | 1017 | 1020 | 1023 | 1027 |
| JUL | 996 | 1006 | 1009 | 1013 | 1015 | 1016 | 1019 | 1021 | 1027 |
| AUG | 1001 | 1006 | 1010 | 1013 | 1015 | 1017 | 1019 | 1021 | 1026 |
| SEP | 999 | 1006 | 1009 | 1012 | 1014 | 1016 | 1019 | 1021 | 1027 |
| OCT | 1000 | 1007 | 1010 | 1014 | 1016 | 1018 | 1021 | 1023 | 1031 |
| NOV | 997 | 1006 | 1011 | 1016 | 1018 | 1021 | 1024 | 1027 | 1032 |
| DEC | 999 | 1005 | 1010 | 1016 | 1019 | 1022 | 1026 | 1029 | 1034 |

JANUARY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1857-1974

AREA 0035 SAN FRANCISCO
37.0N 123.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .9 | .7 | .9 | .0 | .0 | .0 | .0 | 2.3 | .8 | .0 | 6.5 | .3 | 2.7 | | .1 | 87.2 |
| NE | 1.5 | .0 | .5 | .0 | .0 | .0 | .0 | 2.0 | .9 | .0 | 11.7 | .1 | 5.2 | | .0 | 80.2 |
| E | 3.3 | .8 | 1.6 | .0 | .0 | .0 | .0 | 5.5 | 1.4 | .0 | 11.4 | .0 | 7.0 | | .0 | 74.7 |
| SE | 13.9 | 2.7 | 7.6 | .0 | .0 | .0 | .0 | 23.0 | 3.7 | .0 | 14.5 | .3 | 4.3 | | .0 | 53.9 |
| S | 12.7 | 4.3 | 9.7 | .0 | .0 | .0 | .2 | 25.9 | 5.0 | .5 | 9.3 | .5 | 2.1 | | .0 | 57.0 |
| SW | 8.1 | 3.8 | 6.0 | .0 | .0 | .0 | .1 | 17.7 | 4.3 | .1 | 10.0 | .5 | 2.4 | | .0 | 65.2 |
| W | 4.6 | 1.9 | 3.7 | .0 | .0 | .0 | .3 | 10.1 | 3.0 | .2 | 7.3 | .0 | 3.9 | | .0 | 75.8 |
| NW | 1.6 | 1.5 | 1.8 | .0 | .0 | .0 | .0 | 4.8 | 1.9 | .2 | 6.8 | .1 | 2.9 | | .0 | 83.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .6 | .6 | .0 | .0 | .0 | .0 | .0 | 1.2 | 3.0 | .0 | 22.9 | 1.2 | 10.8 | | .0 | 60.8 |
| TOT PCT | 5.0 | 1.9 | 3.6 | .0 | .0 | .0 | .1 | 10.2 | 2.5 | .2 | 9.3 | .3 | 3.6 | | * | 74.0 |
| TOT OBS: | 4537 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 5.2 | 2.2 | 3.9 | .0 | .0 | .0 | .1 | 10.7 | 2.5 | .2 | 9.2 | .3 | 4.6 | | .1 | 72.6 |
| 06&09 | 5.8 | 1.5 | 4.1 | .0 | .0 | .0 | .0 | 10.8 | 2.9 | .2 | 6.9 | .2 | 2.2 | | .0 | 77.0 |
| 12&15 | 5.1 | 2.0 | 3.3 | .0 | .0 | .0 | .2 | 10.6 | 2.6 | .2 | 10.2 | .6 | 2.0 | | .0 | 73.9 |
| 18&21 | 3.8 | 1.8 | 3.3 | .0 | .0 | .0 | .0 | 8.6 | 2.0 | .1 | 12.1 | .0 | 5.6 | | .0 | 71.6 |
| TOT PCT | 5.0 | 1.9 | 3.6 | .0 | .0 | .0 | .1 | 10.2 | 2.5 | .2 | 9.6 | .3 | 3.6 | | * | 73.8 |
| TOT OBS: | 4627 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.2 | 5.9 | 8.9 | 3.2 | .5 | .0 | | 19.8 | 14.7 | 21.2 | 17.9 | 23.1 | 18.2 | 18.5 | 18.1 | 20.8 | 16.3 |
| NE | .6 | 3.5 | 2.8 | .5 | * | .0 | | 7.4 | 11.3 | 6.3 | 5.5 | 5.9 | 5.6 | 8.1 | 8.3 | 9.8 | 9.6 |
| E | .8 | 3.0 | 2.0 | .3 | * | .0 | | 6.1 | 10.0 | 4.6 | 4.3 | 5.1 | 5.4 | 4.9 | 7.1 | 9.9 | 8.4 |
| SE | .8 | 2.8 | 2.9 | 1.2 | .3 | .0 | | 8.0 | 13.7 | 7.2 | 8.9 | 6.9 | 7.8 | 7.3 | 10.1 | 8.6 | 9.8 |
| S | 1.0 | 4.3 | 6.0 | 2.5 | .5 | .0 | | 14.3 | 14.9 | 15.5 | 13.2 | 13.5 | 14.8 | 14.5 | 16.8 | 12.2 | 15.2 |
| SW | 1.0 | 3.6 | 3.4 | .9 | .1 | .0 | | 9.1 | 12.1 | 8.1 | 9.7 | 8.6 | 9.4 | 10.0 | 11.6 | 8.3 | 8.8 |
| W | 1.1 | 3.9 | 3.9 | .7 | .0 | .0 | | 9.6 | 11.5 | 9.4 | 8.6 | 10.5 | 7.4 | 10.6 | 7.9 | 10.1 | 8.9 |
| NW | 1.1 | 7.4 | 9.6 | 3.2 | .4 | * | | 21.6 | 14.2 | 23.5 | 27.6 | 22.6 | 25.9 | 21.8 | 16.0 | 17.1 | 18.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.2 | | | | | | | 4.2 | .0 | 4.1 | 4.5 | 3.9 | 5.4 | 4.3 | 4.1 | 3.4 | 4.3 |
| TOT OBS | 592 | 1739 | 1998 | 629 | 93 | 1 | 5052 | | 12.8 | 964 | 403 | 862 | 349 | 933 | 343 | 736 | 462 |
| TOT PCT | 11.7 | 34.4 | 39.5 | 12.5 | 1.8 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.5 | 9.0 | 5.7 | 1.6 | * | | 19.8 | 14.7 | 20.2 | 21.7 | 18.4 | 19.1 |
| NE | 1.8 | 4.2 | 1.3 | .1 | .0 | | 7.4 | 11.3 | 6.1 | 5.8 | 8.2 | 9.7 |
| E | 1.9 | 3.3 | .8 | * | .0 | | 6.1 | 10.0 | 4.5 | 5.2 | 5.5 | 9.3 |
| SE | 2.1 | 3.3 | 2.0 | .5 | .1 | | 8.0 | 13.7 | 7.7 | 7.1 | 8.1 | 9.0 |
| S | 2.8 | 6.0 | 4.2 | 1.1 | .2 | | 14.3 | 14.9 | 14.8 | 13.9 | 15.1 | 13.4 |
| SW | 2.6 | 4.0 | 2.1 | .3 | * | | 9.1 | 12.1 | 8.6 | 8.8 | 10.4 | 8.5 |
| W | 2.4 | 4.9 | 2.0 | .2 | .0 | | 9.6 | 11.5 | 9.2 | 9.6 | 9.9 | 9.6 |
| NW | 3.5 | 10.6 | 6.2 | 1.3 | * | | 21.6 | 14.2 | 24.7 | 23.5 | 20.2 | 17.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.2 | | | | | | 4.2 | .0 | 4.2 | 4.4 | 4.2 | 3.8 |
| TOT OBS | 1253 | 2294 | 1223 | 262 | 21 | 5052 | | 12.8 | 1367 | 1211 | 1276 | 1198 |
| TOT PCT | 24.8 | 45.4 | 24.2 | 5.2 | .4 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JANUARY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1857-1974

AREA 0035 SAN FRANCISCO
37.0N 123.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.2 | 7.5 | 34.5 | 37.2 | 14.9 | 1.7 | .0 | 12.9 | 100.0 | 1367 |
| 06&09 | 4.4 | 6.0 | 34.7 | 41.3 | 11.2 | 2.3 | .1 | 13.1 | 100.0 | 1211 |
| 12&15 | 4.2 | 8.5 | 33.2 | 40.6 | 11.7 | 1.5 | .0 | 12.6 | 100.0 | 1276 |
| 18&21 | 3.8 | 8.2 | 35.3 | 39.1 | 11.7 | 1.9 | .0 | 12.7 | 100.0 | 1198 |
| TOT | 210 | 382 | 1739 | 1998 | 629 | 93 | 1 | 12.8 | | 5052 |
| PCT | 4.2 | 7.6 | 34.4 | 39.5 | 12.5 | 1.8 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.3 | 3.6 | 5.4 | 3.7 | | 3.8 |
| NE | 4.1 | .9 | 1.3 | 1.3 | | 3.0 |
| E | 2.6 | .6 | 1.0 | 1.6 | | 3.8 |
| SE | 1.0 | .4 | 1.4 | 5.2 | | 6.5 |
| S | 1.1 | .8 | 2.9 | 9.6 | | 6.8 |
| SW | 1.3 | .8 | 2.4 | 4.2 | | 6.1 |
| W | 2.3 | 1.3 | 3.4 | 3.0 | | 5.1 |
| NW | 7.9 | 3.2 | 5.1 | 4.1 | | 4.0 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.6 | .7 | .6 | 1.2 | | 4.0 |
| TOT OBS | 959 | 387 | 747 | 1065 | 3158 | 4.8 |
| TOT PCT | 30.4 | 12.3 | 23.7 | 33.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | * | .4 | 1.1 | 2.5 | 1.5 | .5 | .1 | .1 | .2 | 14.2 | |
| NE | .3 | * | .1 | .2 | .5 | .4 | .1 | * | * | .2 | 5.8 | |
| E | .1 | .0 | * | .2 | .5 | .3 | .3 | .1 | .1 | .2 | 4.1 | |
| SE | .4 | * | .3 | .9 | 1.8 | 1.3 | .5 | .3 | .1 | .2 | 2.2 | |
| S | .8 | .2 | .6 | 2.3 | 3.4 | 2.2 | 1.3 | .4 | * | .2 | 3.0 | |
| SW | .3 | .1 | .2 | .9 | 2.3 | 1.0 | .5 | * | .2 | .1 | 3.1 | |
| W | .4 | .1 | .2 | .8 | 1.6 | 1.1 | .6 | * | * | .0 | 5.1 | |
| NW | .5 | .1 | .4 | 1.2 | 2.9 | 1.3 | .6 | * | * | .1 | 13.1 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | * | .1 | .3 | .3 | .2 | .1 | .1 | .1 | .1 | 2.5 | |
| TOT OBS | 114 | 20 | 74 | 233 | 500 | 287 | 141 | 32 | 19 | 38 | 1680 | 3158 |
| TOT PCT | 3.6 | .6 | 2.3 | 8.0 | 15.8 | 9.1 | 4.5 | 1.0 | .6 | 1.2 | 53.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | 1.0 | 1.5 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| * OR >9000 | 1.4 | 2.5 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| * OR >3500 | 3.6 | 6.4 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| * OR >2000 | 8.6 | 14.9 | 16.2 | 16.3 | 16.4 | 16.4 | 16.4 | 16.4 |
| * OR >1000 | 17.6 | 28.6 | 31.3 | 31.7 | 32.0 | 32.1 | 32.1 | 32.1 |
| * OR >600 | 21.2 | 35.1 | 38.6 | 39.3 | 39.9 | 40.0 | 40.0 | 40.1 |
| * OR >300 | 21.9 | 36.5 | 40.4 | 41.5 | 42.1 | 42.3 | 42.4 | 42.4 |
| * OR >150 | 22.0 | 36.9 | 40.8 | 41.9 | 42.6 | 42.9 | 43.0 | 43.1 |
| * OR > 0 | 22.2 | 37.6 | 42.0 | 43.5 | 44.6 | 45.3 | 46.3 | 46.6 |
| TOTAL | 706 | 1195 | 1335 | 1383 | 1419 | 1441 | 1472 | 1481 |

TOTAL NUMBER OF OBS: 3180

PCT FREQ NH <5/8: 53.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 24.0 | 7.5 | 9.8 | 6.7 | 5.1 | 5.4 | 7.0 | 7.3 | 24.1 | 3.0 | 3297 |

JANUARY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1857-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | * | .1 | .2 | .2 | * | .1 | .0 | .0 | .6 | |
| <1/2 | NO PCP | .3 | .2 | .1 | .3 | .4 | .2 | .2 | .4 | .0 | .4 | 2.5 | |
| | TOT % | .3 | .2 | .1 | .4 | .6 | .3 | .3 | .5 | .0 | .4 | 3.2 | |
| | PCP | .0 | .0 | * | .1 | .2 | * | * | * | .0 | .0 | .4 | |
| 1/2<1 | NO PCP | .4 | .2 | .2 | .3 | .4 | .3 | .2 | .3 | .0 | .1 | 2.5 | |
| | TOT % | .4 | .2 | .3 | .4 | .6 | .4 | .2 | .4 | .0 | .1 | 2.9 | |
| | PCP | * | * | .0 | .2 | .3 | .1 | .1 | .0 | .0 | .0 | .7 | |
| 1<2 | NO PCP | .1 | * | .1 | .2 | .2 | .1 | .1 | .2 | .0 | .2 | 1.2 | |
| | TOT % | .1 | * | .1 | .4 | .5 | .2 | .2 | .2 | .0 | .2 | 1.9 | |
| | PCP | .1 | .0 | * | .4 | 1.0 | .4 | .2 | .1 | .0 | .0 | 2.2 | |
| 2<5 | NO PCP | .5 | .2 | .2 | .5 | .6 | .3 | .3 | .4 | .0 | .5 | 3.5 | |
| | TOT % | .6 | .2 | .2 | .9 | 1.5 | .7 | .5 | .5 | .0 | .5 | 5.7 | |
| | PCP | .2 | .1 | .2 | .9 | 1.7 | .8 | .5 | .4 | .0 | * | 4.8 | |
| 5<10 | NO PCP | 4.5 | 1.7 | 1.8 | 2.3 | 3.9 | 2.7 | 2.7 | 5.0 | .0 | 1.0 | 25.7 | |
| | TOT % | 4.7 | 1.9 | 2.0 | 3.2 | 5.6 | 3.5 | 3.2 | 5.5 | .0 | 1.0 | 30.5 | |
| | PCP | .2 | .0 | .1 | .2 | .4 | .1 | .2 | .4 | .0 | * | 1.5 | |
| 10+ | NO PCP | 14.0 | 5.0 | 3.3 | 2.6 | 5.3 | 3.8 | 5.3 | 13.4 | .0 | 1.5 | 54.3 | |
| | TOT % | 14.2 | 5.0 | 3.4 | 2.8 | 5.7 | 3.9 | 5.5 | 13.7 | .0 | 1.5 | 55.8 | |
| | TOT OBS | | | | | | | | | | | | 4530 |
| | TOT PCT | 20.4 | 7.6 | 6.1 | 8.1 | 14.5 | 9.0 | 9.8 | 20.8 | .0 | 3.6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | * | * | .1 | .1 | * | .1 | .0 | .4 | .9 | |
| <1/2 | 4-10 | .1 | .1 | * | .2 | .3 | .1 | .2 | .2 | .0 | | 1.2 | |
| | 11-21 | .2 | .1 | .1 | .2 | .2 | .1 | .1 | .2 | .0 | | 1.1 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | | * | |
| | TOT % | .4 | .2 | .1 | .4 | .6 | .4 | .3 | .5 | .0 | .4 | 3.2 | |
| | 0-3 | .1 | .0 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .1 | .5 | |
| 1/2<1 | 4-10 | .1 | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .0 | | 1.1 | |
| | 11-21 | .1 | * | .1 | .1 | .3 | .2 | * | .2 | .0 | | 1.0 | |
| | 22+ | .1 | .0 | .0 | .1 | .1 | * | .0 | .1 | .0 | | .4 | |
| | TOT % | .4 | .2 | .3 | .4 | .6 | .4 | .2 | .4 | .0 | .1 | 2.9 | |
| | 0-3 | * | .0 | * | .1 | .1 | * | .0 | .0 | .0 | .1 | .3 | |
| 1<2 | 4-10 | .1 | * | .1 | * | .2 | .1 | .1 | .1 | .0 | | .6 | |
| | 11-21 | * | * | * | .1 | .2 | .1 | .1 | .1 | .0 | | .7 | |
| | 22+ | .0 | .0 | .0 | .2 | .1 | * | .0 | .0 | .0 | | .3 | |
| | TOT % | .1 | * | .1 | .3 | .6 | .2 | .2 | .2 | .0 | .1 | 1.9 | |
| | 0-3 | * | * | .1 | .2 | .1 | .1 | .1 | * | .0 | .5 | 1.1 | |
| 2<5 | 4-10 | .3 | .1 | .1 | .3 | .4 | .3 | .3 | .3 | .0 | | 2.0 | |
| | 11-21 | .2 | .1 | .1 | .2 | .6 | .2 | .2 | .2 | .0 | | 1.8 | |
| | 22+ | .1 | * | * | .2 | .6 | .1 | .1 | .1 | .0 | | 1.1 | |
| | TOT % | .6 | .2 | .3 | .9 | 1.7 | .7 | .6 | .5 | .0 | .5 | 6.0 | |
| | 0-3 | .4 | .2 | .2 | .3 | .5 | .4 | .4 | .3 | .0 | 1.0 | 3.6 | |
| 5<10 | 4-10 | 1.2 | .8 | .9 | 1.1 | 1.4 | 1.3 | 1.2 | 1.8 | .0 | | 9.6 | |
| | 11-21 | 2.3 | .7 | .7 | 1.0 | 2.2 | 1.1 | 1.2 | 2.2 | .0 | | 11.5 | |
| | 22+ | .7 | .1 | .1 | .6 | 1.3 | .6 | .2 | 1.1 | .0 | | 4.9 | |
| | TOT % | 4.6 | 1.8 | 1.9 | 3.1 | 5.4 | 3.4 | 3.1 | 5.4 | .0 | 1.0 | 29.6 | |
| | 0-3 | .6 | .3 | .4 | .2 | .2 | .3 | .4 | .6 | .0 | 2.0 | 4.9 | |
| 10+ | 4-10 | 4.0 | 2.2 | 1.7 | 1.0 | 2.1 | 1.8 | 2.2 | 4.5 | .0 | | 19.6 | |
| | 11-21 | 6.4 | 2.1 | 1.1 | 1.2 | 2.6 | 1.7 | 2.4 | 6.7 | .0 | | 24.0 | |
| | 22+ | 3.0 | .4 | .1 | .4 | .9 | .3 | .4 | 2.3 | .0 | | 7.9 | |
| | TOT % | 14.0 | 5.1 | 3.3 | 2.8 | 5.8 | 4.0 | 5.4 | 14.0 | .0 | 2.0 | 56.4 | |
| | TOT OBS | | | | | | | | | | | | 4753 |
| | TOT PCT | 20.1 | 7.5 | 6.0 | 8.0 | 14.6 | 9.1 | 9.7 | 21.0 | .0 | 4.0 | 100.0 | |

JANUARY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1857-1974

AREA 0035 SAN FRANCISCO
37.0N 123.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.4 | 1.2 | 2.6 | 9.9 | 15.9 | 8.9 | 4.4 | .6 | 1.2 | 1.4 | 48.6 | 51.4 | 832 |
| 06&09 | 2.4 | .7 | 1.7 | 7.3 | 14.7 | 10.4 | 3.6 | 1.2 | .3 | 1.3 | 43.6 | 56.4 | 865 |
| 12&15 | 5.0 | .4 | 2.8 | 6.7 | 16.2 | 8.9 | 4.9 | .9 | .1 | .9 | 47.0 | 53.0 | 773 |
| 18&21 | 4.4 | .1 | 2.1 | 7.4 | 15.5 | 7.3 | 4.9 | 1.3 | .7 | 1.0 | 44.7 | 55.3 | 769 |
| TOT | 114 | 20 | 75 | 254 | 503 | 289 | 144 | 32 | 19 | 38 | 1488 | 1751 | 3239 |
| PCT | 3.5 | .6 | 2.3 | 7.8 | 15.5 | 8.9 | 4.4 | 1.0 | .6 | 1.2 | 45.9 | 54.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 3.2 | 3.5 | 1.6 | 6.7 | 32.4 | 52.5 | 1308 |
| 06&09 | 1.9 | 2.3 | 1.5 | 5.0 | 27.6 | 61.7 | 1183 |
| 12&15 | 4.2 | 2.7 | 2.1 | 6.3 | 29.2 | 55.6 | 1240 |
| 18&21 | 4.0 | 4.0 | 2.5 | 5.6 | 29.6 | 54.4 | 1113 |
| TOT | 161 | 151 | 93 | 287 | 1441 | 2711 | 4844 |
| PCT | 3.3 | 3.1 | 1.9 | 5.9 | 29.7 | 56.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.4 | 8.1 | 22.6 | 29.6 | 47.8 | 818 |
| 06&09 | 2.6 | 5.9 | 17.5 | 28.7 | 53.9 | 848 |
| 12&15 | 5.0 | 9.2 | 20.7 | 28.7 | 50.7 | 760 |
| 18&21 | 4.5 | 8.9 | 20.8 | 27.5 | 51.7 | 754 |
| TOT | 114 | 253 | 647 | 910 | 1623 | 3180 |
| PCT | 3.6 | 8.0 | 20.3 | 28.6 | 51.0 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | 2 | .1 |
| 65/69 | .0 | .0 | * | * | * | .2 | .2 | * | 16 | .5 |
| 60/64 | .0 | .1 | .1 | .2 | .7 | .9 | .9 | .6 | 108 | 3.5 |
| 55/59 | .0 | * | .1 | .6 | 2.1 | 7.0 | 12.0 | 10.9 | 1013 | 32.8 |
| 50/54 | .0 | .3 | .3 | 1.8 | 7.4 | 8.8 | 18.5 | 12.3 | 1526 | 49.4 |
| 45/49 | .0 | .2 | .4 | .9 | 1.3 | 2.4 | 3.6 | 3.3 | 373 | 12.1 |
| 40/44 | .0 | .0 | .4 | .3 | .2 | .2 | .2 | .3 | 46 | 1.5 |
| 35/39 | .0 | .0 | .0 | .1 | .0 | * | * | * | 7 | .2 |
| TOTAL | 0 | 16 | 42 | 122 | 364 | 601 | 1094 | 852 | 3091 | 100.0 |
| PCT | .0 | .5 | 1.4 | 3.9 | 11.8 | 19.4 | 35.4 | 27.6 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | * | * | .0 | .0 | .0 | .0 | * | .0 | .0 |
| .1 | .1 | * | .0 | .1 | * | .1 | * | .0 | .1 |
| .8 | .2 | .1 | .2 | .7 | .4 | .5 | .5 | .0 | .2 |
| 4.6 | 1.6 | 1.4 | 3.3 | 7.1 | 4.3 | 3.4 | 5.4 | .0 | 1.7 |
| 12.9 | 3.4 | 2.2 | 3.4 | 5.5 | 3.5 | 4.8 | 12.2 | .0 | 1.4 |
| 2.9 | 1.5 | 1.0 | .8 | .6 | .4 | 1.0 | 3.2 | .0 | .6 |
| .3 | .6 | .1 | .1 | * | * | .2 | .2 | .0 | .0 |
| * | .1 | * | * | .0 | .0 | .0 | * | .0 | .0 |
| 21.7 | 7.5 | 4.9 | 7.8 | 14.0 | 8.6 | 9.9 | 21.5 | .0 | 3.9 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 74 | 64 | 60 | 54 | 48 | 43 | 40 | 54.0 | 1393 |
| 06&09 | 68 | 61 | 58 | 53 | 46 | 42 | 38 | 52.8 | 1227 |
| 12&15 | 71 | 60 | 58 | 52 | 45 | 42 | 38 | 52.2 | 1303 |
| 18&21 | 75 | 65 | 61 | 54 | 46 | 40 | 35 | 53.6 | 1200 |
| TOT | 75 | 63 | 59 | 53 | 46 | 41 | 35 | 53.2 | 5123 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 6.6 | 13.8 | 21.6 | 34.7 | 23.2 | 80 | 818 |
| 06&09 | .0 | 4.1 | 11.4 | 16.6 | 37.9 | 30.0 | 83 | 809 |
| 12&15 | .0 | 5.5 | 9.1 | 16.4 | 37.3 | 31.6 | 83 | 798 |
| 18&21 | .0 | 7.1 | 12.9 | 23.6 | 31.4 | 25.0 | 80 | 704 |
| TOT | 0 | 181 | 369 | 608 | 1110 | 861 | 82 | 3129 |

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1857-1974

TABLE 17

AREA 0035 SAN FRANCISCO
37.0N 123.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 33 36 | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .1 | * | * | 5 | .0 | .1 |
| 11/13 | .0 | .0 | .0 | .0 | .0 | * | .2 | * | .1 | .1 | .0 | 13 | .0 | .3 |
| 9/10 | .0 | .0 | .0 | .0 | .0 | * | .1 | .2 | .1 | * | .0 | 18 | .1 | .4 |
| 7/8 | .0 | .0 | .0 | .0 | * | .2 | .3 | .6 | * | .0 | .0 | 48 | .1 | 1.1 |
| 6 | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .3 | * | .0 | .0 | 37 | * | .9 |
| 5 | .0 | .0 | .0 | .0 | .1 | .4 | 1.4 | .4 | * | .0 | .0 | 88 | .3 | 2.0 |
| 4 | .0 | .0 | .0 | .0 | .2 | .9 | 1.8 | .3 | .0 | .0 | .0 | 120 | .3 | 2.8 |
| 3 | .0 | .0 | .0 | .0 | .1 | 1.8 | 2.1 | .1 | .0 | .0 | .0 | 158 | .5 | 3.6 |
| 2 | .0 | .0 | .0 | .1 | .5 | 3.5 | 2.5 | .1 | .0 | .0 | .0 | 255 | .7 | 5.9 |
| 1 | .0 | .0 | .0 | .0 | .8 | 5.9 | 2.3 | .2 | .0 | .0 | .0 | 357 | 1.4 | 7.8 |
| 0 | .0 | .0 | .0 | .1 | 2.7 | 8.7 | 2.6 | * | .0 | .0 | .0 | 543 | 1.8 | 12.7 |
| -1 | .0 | .0 | .0 | .1 | 3.2 | 6.3 | .8 | .1 | .0 | .0 | .0 | 403 | 1.1 | 9.3 |
| -2 | .0 | .0 | .0 | .7 | 5.5 | 5.4 | .8 | .0 | .0 | .0 | .0 | 479 | 1.4 | 11.0 |
| -3 | .0 | .0 | .0 | .7 | 4.6 | 3.4 | .2 | .0 | .0 | .0 | .0 | 344 | .5 | 8.4 |
| -4 | .0 | .0 | .0 | 1.3 | 5.2 | 2.5 | .3 | .0 | .0 | .0 | .0 | 356 | .4 | 8.9 |
| -5 | .0 | .0 | .0 | .8 | 3.5 | 1.2 | .2 | .0 | .0 | .0 | .0 | 214 | .2 | 5.4 |
| -6 | .0 | .0 | .1 | 1.2 | 1.9 | .4 | .1 | .0 | .0 | .0 | .0 | 141 | .3 | 3.4 |
| -7/-8 | .0 | .1 | .3 | 1.5 | 1.7 | .4 | .1 | .0 | .0 | .0 | .0 | 152 | .3 | 3.7 |
| -9/-10 | .0 | .1 | .3 | .8 | .5 | .2 | * | .0 | .0 | .0 | .0 | 73 | .1 | 1.8 |
| -11/-13 | .1 | .2 | .3 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 35 | .1 | .8 |
| -14/-16 | * | .0 | .0 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | 8 | .0 | .2 |
| -17/-19 | .0 | * | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| TOTAL | 3 | 15 | 39 | 291 | 1183 | 1598 | 614 | 90 | 13 | 5 | 2 | 3853 | 353 | 3500 |
| PCT | .1 | .4 | 1.0 | 7.6 | 30.7 | 41.5 | 15.9 | 2.3 | .3 | .1 | .1 | 100.0 | 9.2 | 90.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | .1 | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | 3.0 | 2.5 | .0 | .0 | .0 | 5.5 |
| 3-4 | .0 | 1.5 | 3.7 | 1.0 | .0 | .0 | 6.3 |
| 5-6 | .1 | .5 | 2.8 | .9 | .4 | .0 | 4.7 |
| 7 | .0 | .0 | 1.5 | .4 | .1 | .0 | 2.1 |
| 8-9 | .0 | .0 | .4 | .5 | .2 | .0 | 1.1 |
| 10-11 | .0 | .0 | .4 | .5 | .2 | .0 | 1.1 |
| 12 | .0 | .0 | .1 | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .3 | .0 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 5.8 | 11.5 | 3.8 | .8 | .0 | 22.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.1 | .1 | .0 | .0 | .0 | 1.4 |
| 1-2 | .1 | 1.5 | .5 | .0 | .0 | .0 | 2.0 |
| 3-4 | .0 | .6 | .9 | .5 | .0 | .0 | 2.0 |
| 5-6 | .0 | .1 | .3 | .2 | .0 | .0 | .6 |
| 7 | .0 | .0 | .3 | * | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 3.4 | 2.0 | .8 | .0 | .0 | 6.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .3 | .0 | .0 | .0 | .9 |
| 1-2 | .2 | 1.3 | .9 | .0 | .0 | .0 | 2.4 |
| 3-4 | .1 | .1 | .5 | .3 | .0 | .0 | .9 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | 0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.0 | 1.9 | .5 | .0 | .0 | 4.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .5 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | .7 | .5 | .0 | .0 | .0 | 1.3 |
| 3-4 | * | .5 | 1.6 | .5 | .0 | .0 | 2.6 |
| 5-6 | .0 | .1 | .5 | 1.2 | .0 | .0 | 1.8 |
| 7 | .0 | .0 | .3 | .7 | .1 | .0 | 1.1 |
| 8-9 | .0 | .0 | .2 | * | .1 | .0 | .3 |
| 10-11 | .0 | .0 | .2 | * | .1 | .0 | .3 |
| 12 | .0 | .0 | * | .0 | .3 | .0 | .3 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.8 | 3.3 | 2.6 | .5 | .0 | 8.3 |

JANUARY

PERIOD: (OVER-ALL) 1963-1974 AREA 0035 SAN FRANCISCO 37.0N 123.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .5 | .2 | .0 | .0 | .0 | .7 | .4 | .5 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .1 | 1.2 | 1.6 | .0 | .0 | .0 | 2.9 | .1 | .8 | .8 | .0 | .0 | .0 | 1.7 |
| 3-4 | .0 | .8 | 2.4 | .5 | .0 | .0 | 3.7 | .0 | .6 | 1.3 | .2 | .0 | .0 | 2.1 |
| 5-6 | .1 | .3 | 2.2 | 1.2 | .1 | .0 | 3.8 | .0 | .2 | 1.0 | .3 | .1 | .0 | 1.5 |
| 7 | .0 | .0 | 1.1 | .6 | .0 | .0 | 1.7 | .0 | .0 | .5 | .2 | .0 | .0 | .8 |
| 8-9 | .0 | .0 | .2 | .6 | .2 | .0 | 1.0 | .0 | .0 | .1 | .4 | .0 | .0 | .5 |
| 10-11 | .0 | .0 | .2 | .4 | .1 | .0 | .7 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 12 | .0 | .0 | .1 | .1 | .1 | .0 | .3 | .0 | .0 | .0 | .1 | .1 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | .0 | .0 | .1 | .1 | * | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.7 | 8.1 | 3.4 | .5 | .0 | 14.9 | .5 | 2.1 | 4.0 | 1.4 | .2 | .0 | 8.2 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .0 | .5 | .1 | .0 | .0 | .0 | .5 | .1 | 1.9 | .1 | .0 | .0 | .0 | 1.5 | |
| 1-2 | .1 | 1.8 | .8 | .0 | .0 | .0 | 2.7 | .3 | 3.0 | 2.5 | .0 | .0 | .0 | 5.8 | |
| 3-4 | .0 | 1.0 | .9 | .2 | .0 | .0 | 2.0 | .2 | 1.9 | 3.1 | .8 | .0 | .0 | 5.9 | |
| 5-6 | .0 | .5 | .7 | .2 | .0 | .0 | 1.3 | * | .1 | 3.4 | .8 | .2 | .0 | 4.4 | |
| 7 | .0 | .2 | .7 | .2 | .0 | .0 | 1.1 | .0 | .4 | 1.0 | .6 | .1 | .0 | 2.0 | |
| 8-9 | .0 | .1 | .6 | .0 | .0 | .0 | .7 | .1 | * | .6 | .9 | .0 | .0 | 1.6 | |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .0 | .4 | .6 | * | .0 | .9 | |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .2 | .2 | .0 | .0 | .4 | |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .1 | 4.0 | 3.8 | .8 | .0 | .0 | 8.7 | .6 | 6.8 | 11.3 | 4.0 | .3 | .0 | 22.9 | 96.6 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.5 | 5.9 | .8 | .0 | .0 | .0 | 11.2 | |
| 1-2 | .9 | 13.2 | 10.1 | .0 | .0 | .0 | 24.3 | |
| 3-4 | .3 | 7.0 | 14.3 | 3.9 | .0 | .0 | 25.5 | |
| 5-6 | .2 | 1.7 | 10.9 | 4.7 | .8 | .0 | 18.3 | |
| 7 | .0 | .6 | 5.5 | 2.7 | .3 | .0 | 9.1 | |
| 8-9 | .1 | .1 | 2.1 | 2.6 | .4 | .0 | 5.3 | |
| 10-11 | .0 | .0 | 1.3 | 2.0 | .3 | .0 | 3.6 | |
| 12 | .0 | .0 | .4 | .7 | .4 | .0 | 1.5 | |
| 13-16 | .0 | .0 | .3 | .8 | .1 | .0 | 1.1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 6.0 | 28.6 | 45.8 | 17.3 | 2.3 | .0 | 100.0 | 1165 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.5 | 6.9 | 14.0 | 7.7 | 3.0 | 1.5 | .7 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 922 | 4 |
| 6-7 | .5 | 2.7 | 4.9 | 8.1 | 5.3 | 3.6 | 1.8 | .9 | .8 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 747 | 6 |
| 8-9 | * | .9 | 2.1 | 2.5 | 3.8 | 2.1 | 2.0 | .9 | .8 | .4 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 401 | 7 |
| 10-11 | .0 | .5 | .5 | 1.3 | 1.6 | 1.5 | 1.0 | .7 | .7 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 209 | 8 |
| 12-13 | .0 | .0 | .6 | .3 | .5 | .5 | .4 | .4 | .9 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 | 10 |
| >13 | .0 | .0 | .0 | .3 | .5 | .3 | .3 | .3 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 53 | 9 |
| INDET | 2.2 | 1.3 | .8 | .8 | .5 | .4 | * | .2 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 169 | 3 |
| TOTAL | 111 | 318 | 594 | 547 | 397 | 257 | 161 | 89 | 96 | 23 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2601 | 6 |
| PCT | 4.3 | 12.2 | 22.8 | 21.0 | 15.3 | 9.9 | 6.2 | 3.4 | 3.7 | .9 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

FEBRUARY

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1860-1974

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .4 | .9 | .0 | .0 | .0 | .1 | 1.9 | .6 | .0 | 6.9 | .2 | 5.7 | .0 | | 84.7 |
| NE | 2.4 | .0 | 1.6 | .0 | .0 | .0 | .0 | 3.9 | .3 | .3 | 10.4 | .7 | 4.1 | .0 | | 80.4 |
| E | 5.1 | .8 | 4.9 | .0 | .0 | .0 | .0 | 10.8 | 1.8 | .3 | 8.2 | .5 | 4.9 | .5 | | 72.9 |
| SE | 11.2 | 1.4 | 4.7 | .0 | .0 | .0 | .0 | 17.0 | 3.1 | .0 | 11.3 | .7 | 5.4 | .1 | | 62.5 |
| S | 9.4 | 2.3 | 6.0 | .0 | .0 | .0 | .0 | 17.5 | 3.2 | .0 | 12.5 | .8 | 2.6 | .0 | | 63.3 |
| SW | 7.0 | 1.9 | 2.2 | .0 | .0 | .0 | .0 | 10.9 | 3.8 | .6 | 9.9 | .9 | 3.0 | .0 | | 70.9 |
| W | 2.0 | 2.2 | 2.1 | .0 | .0 | .0 | .0 | 5.9 | 2.6 | .0 | 9.4 | .6 | 3.6 | .2 | | 77.7 |
| NW | .6 | .4 | 1.4 | .0 | .0 | .0 | .0 | 2.2 | 1.2 | .1 | 9.3 | .5 | 3.1 | .2 | | 83.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | 2.0 | .0 | .0 | .0 | .0 | 2.0 | .0 | .0 | 17.2 | .0 | 26.3 | .0 | | 54.5 |
| TOT PCT | 3.3 | 1.0 | 2.4 | .0 | .0 | .0 | * | 6.6 | 1.7 | .1 | 9.8 | .5 | 5.1 | .1 | | 76.1 |
| TOT OBS: | 4044 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 3.1 | 1.5 | 2.0 | .0 | .0 | .0 | .0 | 6.4 | 1.3 | .1 | 9.6 | .5 | 5.8 | .2 | | 76.1 |
| 06&09 | 3.3 | .7 | 2.8 | .0 | .0 | .0 | .1 | 6.6 | 2.1 | .3 | 8.9 | .5 | 4.9 | .1 | | 76.7 |
| 12&15 | 3.8 | .9 | 3.1 | .0 | .0 | .0 | .0 | 7.6 | 1.5 | .0 | 11.1 | .6 | 3.7 | .1 | | 75.3 |
| 18&21 | 3.1 | .9 | 1.9 | .0 | .0 | .0 | .0 | 6.0 | 1.9 | .0 | 9.8 | .4 | 5.9 | .0 | | 76.0 |
| TOT PCT | 3.3 | 1.0 | 2.5 | .0 | .0 | .0 | * | 6.6 | 1.7 | .1 | 9.9 | .5 | 5.0 | .1 | | 76.0 |
| TOT OBS: | 4121 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.3 | 6.9 | 8.5 | 4.3 | .6 | .0 | | 21.5 | 15.1 | 21.2 | 20.0 | 24.7 | 20.0 | 21.3 | 21.1 | 20.4 | 21.4 |
| NE | .6 | 2.5 | 1.5 | .4 | .0 | .0 | | 4.9 | 10.3 | 2.8 | 5.7 | 3.1 | 5.5 | 5.2 | 8.4 | 6.2 | 5.8 |
| E | .4 | 2.1 | 1.2 | .1 | .0 | .0 | | 3.8 | 9.5 | 2.2 | 3.8 | 1.8 | 4.2 | 4.5 | 4.5 | 6.2 | 4.2 |
| SE | .5 | 3.1 | 2.8 | 1.0 | .2 | .0 | | 7.5 | 13.5 | 7.0 | 6.4 | 6.8 | 6.6 | 6.1 | 9.2 | 10.2 | 8.4 |
| S | .8 | 3.9 | 5.0 | 1.8 | .3 | .0 | | 11.7 | 14.2 | 13.0 | 7.7 | 13.6 | 9.4 | 11.9 | 10.2 | 10.6 | 13.4 |
| SW | .6 | 3.9 | 2.9 | .6 | .2 | .0 | | 8.2 | 11.9 | 8.7 | 8.8 | 6.8 | 9.0 | 7.7 | 10.3 | 7.6 | 9.9 |
| W | 1.1 | 4.9 | 3.8 | 1.1 | .1 | .0 | | 11.1 | 11.8 | 11.8 | 10.8 | 10.4 | 12.5 | 10.3 | 11.0 | 11.3 | 11.5 |
| NW | 1.3 | 8.3 | 11.7 | 4.4 | .5 | .0 | | 26.2 | 14.6 | 29.2 | 32.4 | 27.8 | 26.6 | 26.9 | 19.7 | 22.7 | 20.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.1 | | | | | | | 5.1 | .0 | 4.2 | 4.4 | 5.0 | 6.2 | 6.0 | 5.7 | 4.8 | 4.8 |
| TOT OBS | 522 | 1586 | 1662 | 608 | 88 | 0 | 4466 | | 12.9 | 812 | 317 | 796 | 305 | 878 | 300 | 706 | 352 |
| TOT PCT | 11.7 | 35.5 | 37.2 | 13.6 | 2.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.7 | 9.6 | 6.2 | 1.9 | .1 | | 21.5 | 15.1 | 20.8 | 23.4 | 21.3 | 20.7 |
| NE | 1.7 | 2.4 | .7 | .1 | .0 | | 4.9 | 10.3 | 3.6 | 3.7 | 6.0 | 6.1 |
| E | 1.2 | 2.1 | .4 | * | .0 | | 3.8 | 9.5 | 2.6 | 2.5 | 4.5 | 5.6 |
| SE | 1.7 | 3.5 | 1.8 | .5 | * | | 7.5 | 13.5 | 6.8 | 6.8 | 6.9 | 9.6 |
| S | 2.2 | 5.6 | 3.3 | .6 | * | | 11.7 | 14.2 | 11.5 | 12.4 | 11.4 | 11.5 |
| SW | 2.1 | 4.2 | 1.6 | .2 | .1 | | 8.2 | 11.9 | 8.7 | 7.4 | 8.4 | 8.4 |
| W | 3.0 | 5.5 | 2.2 | .5 | .0 | | 11.1 | 11.8 | 11.5 | 11.0 | 10.5 | 11.4 |
| NW | 4.3 | 12.4 | 7.5 | 1.9 | * | | 26.2 | 14.6 | 30.1 | 27.4 | 25.0 | 22.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 5.1 | | | | | | 5.1 | .0 | 4.3 | 5.4 | 5.9 | 4.8 |
| TOT OBS | 1118 | 2024 | 1052 | 260 | 12 | 4466 | | 12.9 | 1129 | 1101 | 1178 | 1058 |
| TOT PCT | 25.0 | 45.3 | 23.6 | 5.8 | .3 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1940-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.3 | 5.8 | 34.7 | 38.5 | 15.0 | 1.8 | .0 | 13.3 | 100.0 | 1129 |
| 06&09 | 5.4 | 5.4 | 34.2 | 38.8 | 14.0 | 2.3 | .0 | 13.2 | 100.0 | 1101 |
| 12&15 | 5.9 | 7.3 | 36.8 | 35.2 | 12.6 | 2.1 | .0 | 12.5 | 100.0 | 1178 |
| 18&21 | 4.8 | 7.8 | 36.3 | 36.4 | 12.9 | 1.7 | .0 | 12.6 | 100.0 | 1058 |
| TOT | 228 | 294 | 1586 | 1662 | 608 | 88 | 0 | 12.9 | | 4466 |
| PCT | 5.1 | 6.6 | 35.5 | 37.2 | 13.6 | 2.0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.0 | 3.4 | 5.3 | 3.9 | | 3.6 |
| NE | 1.8 | .4 | .9 | 1.3 | | 4.2 |
| E | 1.0 | .3 | 1.2 | 1.3 | | 5.0 |
| SE | 1.0 | .6 | 2.1 | 3.7 | | 6.1 |
| S | 1.3 | 1.2 | 2.8 | 6.3 | | 6.3 |
| SW | 1.3 | .9 | 1.8 | 3.4 | | 5.7 |
| W | 2.9 | 1.9 | 3.3 | 3.0 | | 4.9 |
| NW | 9.6 | 4.5 | 6.3 | 5.2 | | 4.0 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.5 | .5 | 1.2 | 1.6 | | 4.0 |
| TOT OBS | 931 | 405 | 736 | 883 | 2955 | 4.6 |
| TOT PCT | 31.5 | 13.7 | 24.9 | 29.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | .1 | .3 | 1.8 | 2.1 | 1.3 | .2 | .1 | * | .2 | 15.6 | |
| NE | .1 | .0 | .1 | .1 | .6 | .6 | * | .0 | .1 | .1 | 2.8 | |
| E | .1 | .0 | * | .2 | .5 | .4 | .1 | .1 | * | .2 | 2.2 | |
| SE | .4 | .1 | .2 | .8 | 1.4 | 1.0 | .4 | .1 | .1 | .2 | 2.7 | |
| S | .9 | .1 | .6 | 1.6 | 2.0 | 1.4 | .5 | .2 | .2 | .2 | 4.1 | |
| SW | .4 | .1 | .1 | .5 | 1.4 | 1.0 | .3 | .1 | * | .2 | 3.3 | |
| W | .6 | .0 | .1 | .5 | 1.8 | 1.4 | .1 | * | .1 | .1 | 6.2 | |
| NW | .9 | .1 | .5 | 1.6 | 3.5 | 1.8 | .2 | * | .1 | .1 | 16.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .5 | .0 | * | * | .5 | .5 | .1 | * | .2 | .1 | 3.9 | |
| TOT OBS | 139 | 16 | 61 | 215 | 404 | 276 | 57 | 20 | 21 | 40 | 1706 | 2955 |
| TOT PCT | 4.7 | .5 | 2.1 | 7.3 | 13.7 | 9.3 | 1.9 | .7 | .7 | 1.4 | 57.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| * OR >5000 | 1.3 | 2.5 | 2.7 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 |
| * OR >3500 | 2.6 | 4.4 | 4.6 | 4.6 | 4.6 | 4.6 | 4.7 | 4.7 |
| * OR >2000 | 8.6 | 13.3 | 14.0 | 14.1 | 14.1 | 14.1 | 14.2 | 14.2 |
| * OR >1000 | 16.8 | 25.6 | 27.1 | 27.5 | 27.6 | 27.7 | 27.7 | 27.7 |
| * OR >600 | 20.8 | 32.2 | 34.1 | 34.6 | 34.7 | 34.8 | 34.8 | 34.8 |
| * OR >300 | 21.5 | 33.7 | 35.9 | 36.5 | 36.7 | 36.9 | 36.9 | 36.9 |
| * OR >150 | 21.7 | 34.0 | 36.3 | 37.0 | 37.2 | 37.4 | 37.4 | 37.4 |
| * OR > 0 | 21.8 | 34.5 | 37.2 | 38.4 | 39.2 | 40.1 | 41.7 | 42.1 |
| TOTAL | 652 | 1035 | 1115 | 1149 | 1175 | 1201 | 1248 | 1260 |

TOTAL NUMBER OF OBS: 2996

PCT FREQ NH <5/8: 57.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 24.4 | 7.2 | 11.0 | 8.1 | 6.5 | 4.9 | 8.6 | 6.4 | 19.1 | 3.9 | 3110 |

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TABLE 8.

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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .1 | .0 | * | .1 | .1 | * | * | * | .0 | .0 | .3 | |
| <1/2 | NO PCP | .5 | .2 | .1 | .2 | .5 | .3 | .3 | .6 | .0 | .3 | 2.9 | |
| | TOT % | .6 | .2 | .2 | .3 | .6 | .3 | .3 | .6 | .0 | .3 | 3.2 | |
| | PCP | * | .0 | * | .1 | .1 | .0 | .0 | * | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .3 | .2 | .1 | .1 | .3 | .2 | .2 | .6 | .0 | .1 | 2.2 | |
| | TOT % | .4 | .2 | .1 | .2 | .4 | .2 | .2 | .6 | .0 | .1 | 2.5 | |
| | PCP | * | * | .0 | .2 | .1 | * | .1 | .1 | .0 | * | .6 | |
| 1<2 | NO PCP | .2 | * | * | .1 | .2 | .2 | .1 | .2 | .0 | .2 | 1.2 | |
| | TOT % | .2 | .1 | * | .2 | .3 | .2 | .2 | .3 | .0 | .2 | 1.8 | |
| | PCP | * | * | * | .2 | .5 | .2 | .1 | * | .0 | * | 1.2 | |
| 2<5 | NO PCP | 1.2 | .1 | .1 | .3 | .6 | .3 | .4 | 1.3 | .0 | .7 | 5.0 | |
| | TOT % | 1.2 | .2 | .1 | .6 | 1.1 | .5 | .5 | 1.3 | .0 | .7 | 6.2 | |
| | PCP | .3 | .1 | .3 | .5 | 1.2 | .5 | .3 | .2 | .0 | .0 | 3.4 | |
| 5<10 | NO PCP | 3.9 | 1.0 | .8 | 2.2 | 2.7 | 1.9 | 2.8 | 4.7 | .0 | 1.8 | 21.8 | |
| | TOT % | 4.2 | 1.1 | 1.1 | 2.7 | 3.8 | 2.4 | 3.1 | 5.0 | .0 | 1.8 | 25.2 | |
| | PCP | * | * | * | .2 | .2 | .1 | .1 | .1 | .0 | * | .8 | |
| 10+ | NO PCP | 15.6 | 3.0 | 2.2 | 3.2 | 5.7 | 4.4 | 6.6 | 17.9 | .0 | 1.8 | 60.4 | |
| | TOT % | 15.6 | 3.0 | 2.2 | 3.4 | 5.9 | 4.5 | 6.7 | 18.1 | .0 | 1.8 | 61.2 | |
| | TOT OBS | | | | | | | | | | | | 4037 |
| | TOT PCT | 22.1 | 4.7 | 3.8 | 7.5 | 12.0 | 8.0 | 11.1 | 25.9 | .0 | 4.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | * | .1 | * | * | * | .1 | .0 | .3 | .7 | |
| <1/2 | 4-10 | .3 | .1 | * | .1 | .2 | .1 | .1 | .2 | .0 | | 1.2 | |
| | 11-21 | .1 | * | .1 | .1 | .2 | .1 | .1 | .3 | .0 | | 1.1 | |
| | 22+ | * | .0 | .0 | * | * | * | .1 | * | .0 | | .2 | |
| | TOT % | .5 | .2 | .1 | .3 | .5 | .3 | .3 | .6 | .0 | .3 | 3.2 | |
| | 0-3 | * | * | * | * | * | * | * | .1 | .0 | .1 | .4 | |
| 1/2<1 | 4-10 | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .0 | | 1.0 | |
| | 11-21 | .1 | .1 | * | .1 | .2 | .0 | .1 | .2 | .0 | | .9 | |
| | 22+ | .0 | .0 | .0 | * | .0 | * | .0 | * | .0 | | .1 | |
| | TOT % | .3 | .2 | .1 | .2 | .4 | .2 | .2 | .6 | .0 | .1 | 2.4 | |
| | 0-3 | * | .0 | .0 | .0 | * | * | * | * | .0 | .2 | .4 | |
| 1<2 | 4-10 | .1 | * | * | .1 | .1 | * | .1 | .2 | .0 | | .7 | |
| | 11-21 | * | * | * | .1 | .2 | .1 | .1 | .1 | .0 | | .7 | |
| | 22+ | .0 | .0 | .0 | .1 | * | * | .0 | * | .0 | | .1 | |
| | TOT % | .2 | .1 | * | .2 | .3 | .2 | .3 | .4 | .0 | .2 | 1.9 | |
| | 0-3 | .3 | * | .0 | .2 | .1 | .1 | .1 | .3 | .0 | .7 | 1.7 | |
| 2<5 | 4-10 | .6 | * | .1 | .1 | .2 | .3 | .2 | .6 | .0 | | 2.1 | |
| | 11-21 | .2 | .1 | .1 | .2 | .5 | .1 | .1 | .4 | .0 | | 1.6 | |
| | 22+ | .1 | * | * | .2 | .4 | .1 | .1 | .1 | .0 | | 1.0 | |
| | TOT % | 1.2 | .2 | .1 | .6 | 1.2 | .5 | .5 | 1.3 | .0 | .7 | 6.3 | |
| | 0-3 | .3 | .1 | .1 | .1 | .2 | .1 | .4 | .2 | .0 | 1.8 | 3.2 | |
| 5<10 | 4-10 | 1.3 | .6 | .5 | 1.2 | 1.2 | 1.2 | 1.5 | 1.5 | .0 | | 9.0 | |
| | 11-21 | 1.7 | .3 | .4 | .9 | 1.4 | .7 | .9 | 2.3 | .0 | | 8.6 | |
| | 22+ | .9 | .1 | .1 | .4 | 1.0 | .3 | .2 | 1.0 | .0 | | 3.9 | |
| | TOT % | 4.2 | 1.1 | 1.1 | 2.6 | 3.7 | 2.4 | 3.0 | 5.0 | .0 | 1.8 | 24.8 | |
| | 0-3 | .6 | .3 | .3 | .1 | .3 | .2 | .4 | .7 | .0 | 2.0 | 5.1 | |
| 10+ | 4-10 | 4.3 | 1.7 | 1.4 | 1.4 | 2.1 | 1.8 | 2.8 | 5.1 | .0 | | 20.7 | |
| | 11-21 | 6.6 | .9 | .6 | 1.5 | 2.5 | 1.9 | 2.5 | 8.4 | .0 | | 24.9 | |
| | 22+ | 4.0 | .3 | * | .5 | .7 | .4 | .9 | 3.8 | .0 | | 10.6 | |
| | TOT % | 15.5 | 3.2 | 2.3 | 3.5 | 5.7 | 4.4 | 6.6 | 18.0 | .0 | 2.0 | 61.3 | |
| | TOT OBS | | | | | | | | | | | | 4232 |
| | TOT PCT | 21.9 | 4.9 | 3.8 | 7.5 | 11.9 | 8.0 | 10.9 | 25.9 | .0 | 5.2 | 100.0 | |

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PERIOD: (PRIMARY) 1940-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.7 | .6 | 2.1 | 7.7 | 13.1 | 8.3 | 1.5 | 1.1 | 1.4 | 2.5 | 41.8 | 58.2 | 727 |
| 06&09 | 4.1 | .6 | 1.9 | 5.3 | 12.0 | 10.5 | 1.5 | .7 | .5 | 1.0 | 38.0 | 62.0 | 810 |
| 12&15 | 5.6 | .4 | 1.8 | 7.1 | 15.1 | 8.4 | 2.5 | .4 | .1 | .5 | 41.9 | 58.1 | 763 |
| 18&21 | 4.8 | .5 | 2.4 | 8.3 | 13.6 | 10.1 | 2.0 | .7 | .9 | 1.3 | 44.8 | 55.2 | 743 |
| TOT | 139 | 16 | 62 | 215 | 408 | 284 | 57 | 22 | 22 | 40 | 1265 | 1778 | 3043 |
| PCT | 4.6 | .5 | 2.0 | 7.1 | 13.4 | 9.3 | 1.9 | .7 | .7 | 1.3 | 41.6 | 58.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 3.2 | 3.3 | 1.5 | 5.8 | 26.9 | 59.2 | 1078 |
| 06&09 | 3.3 | 2.7 | 1.8 | 5.2 | 23.6 | 63.4 | 1083 |
| 12&15 | 4.2 | 1.6 | 2.6 | 7.0 | 24.8 | 59.8 | 1145 |
| 18&21 | 2.5 | 2.3 | 1.7 | 6.8 | 23.7 | 63.0 | 1003 |
| TOT | 144 | 106 | 82 | 267 | 1068 | 2642 | 4309 |
| PCT | 3.3 | 2.5 | 1.9 | 6.2 | 24.8 | 61.3 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <3 | 1000+ AND3+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 5.8 | 7.1 | 19.9 | 26.0 | 54.1 | 719 |
| 06&09 | 4.2 | 8.1 | 17.9 | 25.4 | 56.7 | 795 |
| 12&15 | 5.8 | 9.0 | 22.4 | 25.1 | 52.5 | 745 |
| 18&21 | 4.7 | 8.8 | 24.2 | 25.9 | 49.9 | 737 |
| TOT | 138 | 247 | 630 | 767 | 1599 | 2996 |
| PCT | 4.6 | 8.2 | 21.0 | 25.6 | 53.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | 1 | * |
| 70/76 | .0 | .0 | .0 | .1 | .1 | .0 | * | .0 | 5 | .2 |
| 65/69 | .0 | .0 | .1 | .2 | .1 | .1 | .1 | .1 | 18 | .6 |
| 60/64 | .0 | .1 | * | .4 | .8 | 1.5 | 1.0 | .4 | 122 | 4.2 |
| 55/59 | .0 | * | .3 | .7 | 2.1 | 7.4 | 12.7 | 7.5 | 903 | 30.7 |
| 50/54 | .0 | .1 | .2 | 1.1 | 4.9 | 10.7 | 21.2 | 13.9 | 1527 | 52.0 |
| 45/49 | .0 | .0 | .1 | .4 | 1.2 | 2.7 | 3.7 | 3.9 | 350 | 11.9 |
| 40/44 | .0 | .0 | .0 | * | * | .1 | * | .1 | 10 | .3 |
| 35/39 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | * |
| TOTAL | 0 | 5 | 18 | 86 | 269 | 662 | 1138 | 759 | 2937 | 100.0 |
| PCT | .0 | .2 | .6 | 2.9 | 9.2 | 22.5 | 38.7 | 25.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| * | * | * | .0 | .0 | .0 | * | .0 | .0 | .1 |
| .1 | .0 | .0 | .0 | .1 | * | .1 | .2 | .0 | .1 |
| .6 | .1 | .2 | .3 | .9 | .4 | .4 | .9 | .0 | .4 |
| 4.8 | 1.0 | 1.5 | 3.6 | 6.0 | 3.2 | 2.8 | 6.0 | .0 | 1.7 |
| 13.9 | 2.4 | 1.6 | 2.9 | 4.1 | 3.3 | 5.6 | 16.3 | .0 | 1.9 |
| 3.3 | .6 | .4 | .4 | .6 | .5 | 1.8 | 4.1 | .0 | .3 |
| .2 | .1 | .0 | .0 | * | .0 | .0 | .1 | .0 | .0 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 23.1 | 4.2 | 3.6 | 7.1 | 11.8 | 7.4 | 10.7 | 27.5 | .0 | 4.5 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 75 | 65 | 61 | 54 | 49 | 46 | 37 | 54.5 | 1139 |
| 06&09 | 64 | 60 | 58 | 53 | 48 | 45 | 39 | 52.9 | 1118 |
| 12&15 | 64 | 60 | 57 | 52 | 47 | 44 | 34 | 52.3 | 1196 |
| 18&21 | 73 | 66 | 61 | 54 | 48 | 45 | 32 | 54.1 | 1070 |
| TOT | 75 | 64 | 59 | 53 | 48 | 45 | 32 | 53.4 | 4523 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 4.9 | 11.7 | 27.0 | 33.6 | 22.7 | 80 | 749 |
| 06&09 | .0 | 1.0 | 6.0 | 19.6 | 44.8 | 28.5 | 85 | 765 |
| 12&15 | .0 | 2.8 | 5.3 | 17.5 | 42.7 | 31.8 | 85 | 790 |
| 18&21 | .0 | 6.4 | 13.7 | 26.3 | 32.9 | 20.7 | 80 | 691 |
| TOT | 0 | 111 | 271 | 672 | 1159 | 782 | 82 | 2995 |

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA | 29 | 33 | 37 | 41 | 45 | 49 | 53 | 57 | 61 | 65 | 69 | 73 | TOT | W | WO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TMP DIF | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | | FOG | FOG |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 2 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .1 | .0 | 8 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .1 | .2 | * | .0 | 13 | .0 | .4 |
| 9/10 | .0 | .0 | .0 | .0 | .0 | * | .0 | .1 | .3 | * | * | .0 | 19 | .0 | .5 |
| 7/8 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .5 | .4 | .1 | .0 | .0 | 46 | .2 | 1.1 |
| 6 | .0 | .0 | .0 | .0 | * | .0 | .3 | .5 | .2 | .0 | .0 | .0 | 37 | .1 | .9 |
| 5 | .0 | .0 | .0 | .0 | .0 | .1 | .8 | 1.3 | .4 | .0 | .0 | .0 | 91 | .4 | 2.1 |
| 4 | .0 | .0 | .0 | .0 | .0 | .1 | 1.5 | 1.9 | .2 | .0 | .0 | .0 | 136 | .4 | 3.3 |
| 3 | .0 | .0 | .0 | .0 | * | .1 | 1.5 | 2.3 | * | .0 | .0 | .0 | 140 | .4 | 3.5 |
| 2 | .0 | .0 | .0 | .0 | .1 | .8 | 4.1 | 3.2 | .1 | * | .0 | .0 | 297 | .9 | 7.3 |
| 1 | .0 | .0 | .0 | .0 | .1 | 1.1 | 5.6 | 2.0 | .1 | .0 | .0 | .0 | 321 | 1.2 | 7.7 |
| 0 | .0 | .0 | .0 | .0 | .1 | 3.5 | 9.1 | 1.7 | * | .0 | .0 | .0 | 523 | 1.2 | 13.2 |
| -1 | .0 | .0 | .0 | .0 | .2 | 4.6 | 7.1 | .7 | .0 | .0 | .0 | .0 | 456 | 1.2 | 11.4 |
| -2 | .0 | .0 | .0 | .0 | .9 | 6.7 | 5.4 | .5 | * | .0 | .0 | .0 | 492 | 1.5 | 12.1 |
| -3 | .0 | .0 | .0 | .0 | 1.1 | 5.5 | 2.5 | .2 | .0 | .0 | .0 | .0 | 333 | 1.1 | 8.1 |
| -4 | .0 | .0 | .0 | .0 | 1.1 | 4.6 | 1.3 | .1 | * | .0 | .0 | .0 | 261 | .8 | 6.4 |
| -5 | .0 | * | .0 | .0 | 1.2 | 2.7 | .9 | .1 | * | .0 | .0 | .0 | 179 | .4 | 4.5 |
| -6 | .0 | .0 | .0 | .1 | .7 | 1.5 | .4 | .1 | .0 | .0 | .0 | .0 | 97 | .1 | 2.6 |
| -7/-8 | .0 | .0 | .0 | .1 | .7 | 1.5 | .2 | .1 | .0 | .0 | .0 | .0 | 90 | * | 2.5 |
| -9/-10 | * | .0 | .0 | .1 | .4 | .5 | .3 | * | .0 | .0 | .0 | .0 | 47 | .2 | 1.1 |
| -11/-13 | .0 | .0 | * | .1 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 22 | .1 | .5 |
| -14/-16 | .0 | .0 | .0 | .0 | * | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 5 | .0 | .1 |
| -17/-19 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -20/-22 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | | 1 | | 241 | | 1494 | | 72 | | 5 | | | 370 | 3247 |
| | | 1 | | 13 | | 1216 | | 558 | | 13 | | 2 | 3617 | | |
| PCT | * | * | * | .4 | 6.7 | 33.6 | 41.3 | 15.4 | 2.0 | .4 | .1 | .1 | 100.0 | 10.2 | 89.8 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .6 | 1.5 | .1 | .0 | .0 | .0 | 2.1 |
| 1-2 | .2 | 2.6 | 1.3 | .0 | .0 | .0 | 4.0 |
| 3-4 | .1 | 1.5 | 3.0 | .5 | .0 | .0 | 5.1 |
| 5-6 | .0 | .7 | 2.5 | .8 | .0 | .0 | 4.1 |
| 7 | .0 | .2 | 1.1 | 1.8 | .1 | .0 | 3.1 |
| 8-9 | .0 | .1 | .3 | .9 | .1 | .0 | 1.5 |
| 10-11 | .0 | .0 | .1 | .4 | .2 | .0 | .6 |
| 12 | .0 | .0 | .1 | .2 | .1 | .0 | .4 |
| 13-16 | .0 | .0 | .0 | .3 | .5 | .0 | .8 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 6.6 | 8.5 | 4.9 | 1.0 | .0 | 21.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | .3 | .0 | .0 | .0 | 1.3 |
| 1-2 | .1 | 1.1 | .5 | .0 | .0 | .0 | 1.6 |
| 3-4 | .0 | .6 | 1.1 | .1 | .0 | .0 | 1.8 |
| 5-6 | .0 | * | .1 | .2 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | * | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.5 | 2.2 | .5 | .0 | .0 | 5.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | 1.3 | .2 | .0 | .0 | .0 | 1.5 |
| 1-2 | .1 | .9 | 1.1 | .0 | .0 | .0 | 2.2 |
| 3-4 | .0 | .5 | .4 | .0 | .0 | .0 | 1.0 |
| 5-6 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.8 | 2.0 | .1 | .0 | .0 | 5.1 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .6 | .1 | .0 | .0 | .0 | .8 |
| 1-2 | .2 | 1.1 | .8 | .0 | .0 | .0 | 2.1 |
| 3-4 | .0 | 1.0 | 1.2 | .4 | .0 | .0 | 2.6 |
| 5-6 | .0 | * | .9 | .6 | .1 | .0 | 1.6 |
| 7 | .1 | .0 | .5 | .1 | .0 | .0 | .6 |
| 8-9 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .2 | .2 | .1 | .0 | .5 |
| 12 | .0 | .0 | * | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.8 | 3.6 | 1.5 | .2 | .0 | 8.5 |

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

TABLE 18 (CONT)

AREA 0035 SAN FRANCISCO 37.0N 123.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.0 | .3 | .0 | .0 | .0 | 1.5 |
| 1-2 | .1 | 1.7 | 1.1 | .0 | .0 | .0 | 2.9 |
| 3-4 | .0 | 1.0 | 1.6 | .5 | .0 | .0 | 3.1 |
| 5-6 | .0 | .3 | .8 | .2 | .1 | .0 | 1.5 |
| 7 | .0 | .1 | .5 | .2 | .0 | .0 | .8 |
| 8-9 | .0 | .0 | .1 | .3 | .0 | .0 | .5 |
| 10-11 | .0 | .1 | .0 | .1 | .1 | .0 | .3 |
| 12 | .0 | .0 | .1 | .0 | .1 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 4.1 | 4.5 | 1.4 | .4 | .0 | 10.7 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .9 | .2 | .0 | .0 | .0 | 1.4 |
| 1-2 | .5 | 1.1 | .4 | .0 | .0 | .0 | 2.0 |
| 3-4 | .0 | .6 | .5 | .1 | .0 | .0 | 1.2 |
| 5-6 | .0 | .5 | .6 | .2 | .1 | .0 | 1.4 |
| 7 | .0 | .1 | .4 | * | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .2 | .1 | .1 | .0 | .4 |
| 10-11 | .0 | * | .1 | .3 | .0 | .0 | .4 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 3.1 | 2.4 | .8 | .2 | .0 | 7.4 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.0 | .2 | .0 | .0 | .0 | 1.3 |
| 1-2 | .2 | 2.2 | .4 | .0 | .0 | .0 | 2.8 |
| 3-4 | .1 | .7 | .9 | .2 | .0 | .0 | 1.9 |
| 5-6 | .0 | .3 | 1.2 | .4 | .1 | .0 | 1.9 |
| 7 | .1 | .0 | .3 | .1 | .0 | .0 | .5 |
| 8-9 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .1 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 4.2 | 3.0 | 1.3 | .1 | .0 | 9.1 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .1 | 2.6 | .7 | .0 | .0 | .0 | 3.4 | |
| 1-2 | .5 | 2.3 | 2.3 | .0 | .0 | .0 | 5.2 | |
| 3-4 | * | .9 | 4.7 | .9 | .0 | .0 | 6.6 | |
| 5-6 | .0 | 1.0 | 3.2 | 1.0 | .1 | .0 | 5.4 | |
| 7 | .0 | .1 | 1.5 | 1.4 | .3 | .0 | 3.3 | |
| 8-9 | .0 | .1 | .4 | .8 | * | .0 | 1.3 | |
| 10-11 | .0 | .0 | .4 | .4 | .0 | .0 | .8 | |
| 12 | .0 | .0 | .2 | .3 | .3 | .0 | .7 | |
| 13-16 | .0 | .0 | .0 | .5 | .3 | .0 | .8 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .6 | 7.0 | 13.5 | 5.2 | 1.0 | .0 | 27.4 | 95.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 6.0 | 9.8 | 2.1 | .0 | .0 | .0 | 17.8 | |
| 1-2 | 2.0 | 13.2 | 7.8 | .0 | .0 | .0 | 23.0 | |
| 3-4 | .2 | 6.9 | 13.4 | 2.8 | .0 | .0 | 23.3 | |
| 5-6 | .1 | 2.8 | 9.7 | 3.5 | .5 | .0 | 16.6 | |
| 7 | .2 | .4 | 4.4 | 3.7 | .4 | .0 | 9.1 | |
| 8-9 | .0 | .3 | 1.1 | 2.6 | .3 | .0 | 4.2 | |
| 10-11 | .0 | .1 | .8 | 1.5 | .4 | .0 | 2.8 | |
| 12 | .0 | .0 | .3 | .8 | .4 | .0 | 1.6 | |
| 13-16 | .0 | .0 | .0 | .8 | .8 | .0 | 1.7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 8.4 | 33.4 | 39.7 | 15.7 | 2.8 | .0 | 100.0 | 1200 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.8 | 8.8 | 12.4 | 7.1 | 2.8 | .8 | .6 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 872 | 4 |
| 6-7 | .1 | 1.5 | 6.3 | 7.1 | 5.8 | 2.4 | 1.8 | .8 | .7 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 666 | 6 |
| 8-9 | .0 | .5 | 1.7 | 2.5 | 5.3 | 2.8 | 2.7 | 1.3 | 1.3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 457 | 8 |
| 10-11 | .0 | .5 | .8 | .9 | 1.5 | 1.6 | 1.2 | .6 | .8 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 200 | 9 |
| 12-13 | .0 | .0 | .7 | .3 | .4 | .4 | .6 | .4 | .6 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 94 | 9 |
| >13 | .0 | .0 | .0 | .2 | * | .4 | .3 | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 34 | 10 |
| INDET | 3.4 | 1.3 | .6 | .4 | .7 | .4 | * | .2 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 185 | 3 |
| TOTAL | 134 | 317 | 566 | 466 | 412 | 223 | 182 | 89 | 97 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2508 | 6 |
| PCT | 5.3 | 12.6 | 22.6 | 18.6 | 16.4 | 8.9 | 7.3 | 3.5 | 3.9 | .7 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .4 | .7 | .0 | .0 | .0 | .0 | 1.3 | 1.1 | .0 | 2.7 | .0 | 2.7 | | .1 | 92.1 |
| NE | 1.8 | .5 | .3 | .0 | .0 | .0 | .0 | 2.5 | 1.0 | .0 | 3.5 | .0 | 3.0 | | .0 | 90.0 |
| E | 6.4 | .0 | 1.4 | .0 | .0 | .0 | .0 | 7.8 | 1.1 | .0 | 12.4 | .0 | 2.5 | | .0 | 76.3 |
| SE | 20.0 | 1.8 | 12.6 | .0 | .0 | .0 | .0 | 25.9 | 2.7 | .0 | 8.7 | .1 | 1.9 | | .0 | 60.7 |
| S | 11.2 | 2.7 | 11.0 | .0 | .0 | .0 | .0 | 22.1 | 4.7 | .2 | 10.0 | .2 | 1.4 | | .0 | 71.4 |
| SW | 6.2 | 4.6 | 7.6 | .0 | .0 | .0 | .0 | 17.4 | 4.1 | .0 | 8.6 | .0 | 1.5 | | .0 | 68.3 |
| W | 2.3 | 1.7 | 3.1 | .0 | .0 | .0 | .0 | 6.4 | 3.5 | .0 | 6.3 | .2 | 2.2 | | .0 | 81.2 |
| NW | .8 | .6 | .7 | .0 | .0 | .0 | .1 | 2.2 | 1.4 | .0 | 3.5 | * | 3.6 | | .0 | 89.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .8 | .0 | .8 | .0 | .0 | .0 | .0 | 1.6 | .8 | .0 | 7.2 | .0 | 5.6 | | .0 | 84.8 |
| TOT PCT | 3.4 | 1.3 | 3.2 | .0 | .0 | .0 | * | 7.0 | 2.2 | * | 5.3 | .1 | 2.8 | | * | 82.6 |
| TOT OBS: | 4334 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 3.7 | 1.1 | 3.3 | .0 | .0 | .0 | .0 | 6.6 | 1.5 | .0 | 6.7 | .1 | 3.5 | | .0 | 81.7 |
| 06&09 | 3.1 | 1.5 | 3.3 | .0 | .0 | .0 | .0 | 7.1 | 2.1 | .1 | 3.7 | .1 | 1.9 | | .0 | 85.1 |
| 12&15 | 3.4 | 1.3 | 3.5 | .0 | .0 | .0 | .2 | 8.2 | 3.0 | .0 | 5.1 | .0 | 1.7 | | .0 | 82.1 |
| 18&21 | 3.3 | 1.1 | 2.6 | .0 | .0 | .0 | .0 | 6.1 | 2.2 | .0 | 6.4 | .1 | 4.1 | | .1 | 81.0 |
| TOT PCT | 3.4 | 1.2 | 3.2 | .0 | .0 | .0 | * | 7.0 | 2.2 | * | 5.4 | .1 | 2.8 | | * | 82.5 |
| TOT OBS: | 4405 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .6 | 4.3 | 9.4 | 5.4 | .6 | .0 | | 20.4 | 17.4 | 17.4 | 19.4 | 21.0 | 17.2 | 22.9 | 21.6 | 22.5 | 17.9 |
| NE | .2 | 1.0 | .9 | .2 | * | .0 | | 2.3 | 11.5 | 1.4 | 2.2 | 2.1 | 1.9 | 2.0 | 3.2 | 3.7 | 2.6 |
| E | .2 | 1.0 | .4 | * | .0 | .0 | | 1.6 | 8.9 | 1.6 | 1.5 | .9 | 1.1 | 1.3 | 3.2 | 2.5 | 1.9 |
| SE | .4 | 1.9 | 1.7 | .9 | .2 | .0 | | 5.1 | 13.9 | 4.9 | 5.7 | 3.1 | 5.5 | 3.7 | 5.5 | 5.9 | 10.1 |
| S | .5 | 3.1 | 4.1 | 1.2 | .1 | .0 | | 9.0 | 13.6 | 9.1 | 8.2 | 11.3 | 7.5 | 8.4 | 9.0 | 7.0 | 10.6 |
| SW | .5 | 4.3 | 3.2 | .5 | * | .0 | | 8.5 | 11.3 | 8.4 | 7.9 | 8.6 | 8.8 | 8.4 | 9.0 | 8.2 | 8.9 |
| W | .8 | 6.5 | 5.3 | 1.1 | .2 | .0 | | 13.8 | 12.0 | 16.3 | 14.4 | 14.4 | 13.3 | 13.8 | 15.0 | 10.1 | 12.6 |
| NW | .9 | 9.1 | 17.3 | 7.6 | .9 | .0 | | 36.0 | 16.3 | 38.6 | 38.7 | 35.4 | 40.6 | 34.7 | 30.0 | 35.7 | 34.2 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | | 3.3 | .0 | 2.3 | 2.0 | 3.2 | 4.1 | 4.8 | 3.5 | 4.3 | 1.2 |
| TOT OBS | 352 | 1483 | 2024 | 800 | 96 | 0 | 4755 | | 14.4 | 880 | 307 | 882 | 316 | 901 | 282 | 765 | 422 |
| TOT PCT | 7.4 | 31.2 | 42.6 | 16.8 | 2.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.9 | 7.5 | 8.7 | 2.1 | .1 | | 20.4 | 17.4 | 17.9 | 20.0 | 22.6 | 20.9 |
| NE | .6 | 1.2 | .5 | * | .0 | | 2.3 | 11.5 | 1.6 | 2.1 | 2.3 | 3.3 |
| E | .7 | .6 | .3 | .0 | .0 | | 1.6 | 8.9 | 1.6 | .9 | 1.7 | 2.3 |
| SE | 1.2 | 2.2 | 1.2 | .5 | .0 | | 5.1 | 13.9 | 5.1 | 3.7 | 4.1 | 7.4 |
| S | 1.6 | 4.5 | 2.4 | .4 | * | | 9.0 | 13.6 | 8.8 | 10.3 | 8.6 | 8.3 |
| SW | 2.1 | 4.7 | 1.5 | .1 | * | | 8.5 | 11.3 | 8.2 | 8.6 | 8.5 | 8.5 |
| W | 3.1 | 7.6 | 2.6 | .4 | * | | 13.8 | 12.0 | 15.8 | 14.1 | 14.1 | 11.0 |
| NW | 3.6 | 15.8 | 13.4 | 3.0 | .1 | | 36.0 | 16.3 | 38.6 | 36.8 | 33.6 | 35.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | 3.3 | .0 | 2.2 | 3.4 | 4.5 | 3.2 |
| TOT OBS | 871 | 2103 | 1451 | 315 | 15 | 4755 | | 14.4 | 1187 | 1198 | 1183 | 1187 |
| TOT PCT | 18.3 | 44.2 | 30.5 | 6.6 | .3 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.2 | 4.1 | 30.9 | 42.0 | 19.2 | 1.5 | .0 | 14.7 | 100.0 | 1187 |
| 06&09 | 3.4 | 3.1 | 30.1 | 44.7 | 17.1 | 1.7 | .0 | 14.6 | 100.0 | 1198 |
| 12&15 | 4.5 | 4.4 | 30.7 | 41.7 | 16.4 | 2.4 | .0 | 14.2 | 100.0 | 1183 |
| 18&21 | 3.2 | 4.8 | 33.0 | 41.9 | 14.6 | 2.5 | .0 | 14.0 | 100.0 | 1187 |
| TOT | 158 | 195 | 1482 | 2024 | 800 | 96 | 0 | 14.4 | | 4755 |
| PCT | 3.3 | 4.1 | 31.2 | 42.6 | 16.8 | 2.0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.3 | 3.5 | 5.0 | 3.3 | | 3.4 |
| NE | .9 | .3 | .5 | .6 | | 4.0 |
| E | .5 | .2 | .3 | .6 | | 4.8 |
| SE | .4 | .4 | 1.2 | 2.0 | | 6.3 |
| S | 1.1 | 1.0 | 1.7 | 4.5 | | 6.2 |
| SW | 1.2 | .7 | 2.4 | 3.3 | | 6.0 |
| W | 3.8 | 1.8 | 4.0 | 4.5 | | 5.0 |
| NW | 13.8 | 6.4 | 9.4 | 6.8 | | 3.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.4 | .3 | .9 | 1.0 | | 4.2 |
| TOT OBS | 1036 | 450 | 787 | 827 | 3100 | 4.4 |
| TOT PCT | 33.4 | 14.5 | 25.4 | 26.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .1 | 1.4 | 2.9 | 1.6 | .4 | .1 | .1 | * | 15.1 | |
| NE | * | .0 | .1 | .2 | .2 | .5 | * | * | * | * | 1.5 | |
| E | .1 | .0 | .0 | .1 | .2 | .2 | .1 | .0 | .0 | .0 | .9 | |
| SE | .2 | * | .2 | .2 | .9 | .5 | .2 | * | .1 | .1 | 1.7 | |
| S | .3 | * | .3 | 1.3 | 1.5 | 1.2 | .4 | * | .1 | * | 3.0 | |
| SW | .4 | .2 | .3 | .8 | 1.5 | 1.2 | .3 | .1 | .0 | .0 | 2.9 | |
| W | .4 | .1 | .4 | 1.2 | 2.2 | 1.8 | .4 | .0 | .1 | .1 | 7.5 | |
| NW | .5 | .1 | .5 | 2.0 | 5.4 | 3.4 | .8 | .2 | .1 | .2 | 23.3 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | * | * | .2 | .3 | .5 | .1 | .1 | .1 | .1 | 2.0 | |
| TOT OBS | 73 | 17 | 60 | 226 | 468 | 333 | 81 | 14 | 19 | 15 | 1794 | 3100 |
| TOT PCT | 2.4 | .5 | 1.9 | 7.3 | 15.1 | 10.7 | 2.6 | .5 | .6 | .5 | 57.9 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >5000 | 1.2 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| * OR >3500 | 3.2 | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| * OR >2000 | 11.0 | 14.4 | 14.8 | 14.9 | 15.0 | 15.0 | 15.0 | 15.0 |
| * OR >1000 | 22.1 | 28.7 | 29.6 | 29.9 | 30.0 | 30.0 | 30.0 | 30.0 |
| * OR >600 | 26.4 | 35.1 | 36.6 | 37.0 | 37.1 | 37.2 | 37.2 | 37.2 |
| * OR >300 | 27.2 | 36.5 | 38.3 | 38.8 | 39.1 | 39.1 | 39.1 | 39.1 |
| * OR >150 | 27.3 | 36.9 | 38.7 | 39.2 | 39.5 | 39.6 | 39.6 | 39.6 |
| * OR > 0 | 27.5 | 37.3 | 39.4 | 40.2 | 41.1 | 41.5 | 41.7 | 42.0 |
| TOTAL | 863 | 1170 | 1236 | 1263 | 1291 | 1302 | 1310 | 1317 |

TOTAL NUMBER OF OBS: 3138 PCT FREQ NH <5/8: 58.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 23.9 | 8.1 | 10.9 | 8.4 | 6.2 | 5.6 | 7.7 | 7.4 | 20.0 | 1.9 | 3278 |

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974

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37.0N 123.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .1 | .1 | * | * | .0 | .0 | .2 | |
| <1/2 | NO PCP | .2 | * | * | .2 | .2 | .2 | .2 | .4 | .0 | .1 | 1.5 | |
| | TOT % | .2 | * | * | .2 | .3 | .3 | .2 | .4 | .0 | .1 | 1.7 | |
| | PCP | .0 | .0 | .0 | .1 | .1 | .2 | .1 | * | .0 | .0 | .5 | |
| 1/2<1 | NO PCP | .1 | * | * | * | .4 | .2 | .2 | .2 | .0 | * | 1.1 | |
| | TOT % | .1 | * | * | .1 | .4 | .4 | .2 | .2 | .0 | * | 1.6 | |
| | PCP | * | .0 | .0 | * | .1 | .2 | * | * | .0 | .0 | .4 | |
| 1<2 | NO PCP | .1 | .0 | .1 | .1 | .1 | .1 | .1 | .2 | .0 | .0 | .8 | |
| | TOT % | .1 | .0 | .1 | .1 | .2 | .3 | .2 | .2 | .0 | .0 | 1.2 | |
| | PCP | * | * | * | .5 | .6 | .3 | .1 | * | .0 | .0 | 1.7 | |
| 2<5 | NO PCP | .2 | .1 | * | .2 | .2 | .4 | .3 | .6 | .0 | .1 | 2.0 | |
| | TOT % | .2 | .2 | .1 | .7 | .7 | .7 | .5 | .6 | .0 | .1 | 3.7 | |
| | PCP | .1 | * | .1 | .5 | 1.0 | .6 | .5 | .4 | .0 | * | 3.2 | |
| 5<10 | NO PCP | 3.3 | .4 | .4 | 1.1 | 1.7 | 1.4 | 2.7 | 6.3 | .0 | .5 | 17.8 | |
| | TOT % | 3.4 | .5 | .5 | 1.6 | 2.7 | 2.0 | 3.3 | 6.6 | .0 | .5 | 21.0 | |
| | PCP | .1 | .0 | * | .1 | .2 | .2 | .1 | .3 | .0 | * | 1.1 | |
| 10+ | NO PCP | 16.6 | 1.6 | .9 | 2.1 | 4.8 | 4.9 | 9.6 | 27.3 | .0 | 2.1 | 69.8 | |
| | TOT % | 16.7 | 1.6 | .9 | 2.2 | 5.0 | 5.0 | 9.7 | 27.6 | .0 | 2.1 | 70.8 | |
| | TOT OBS | | | | | | | | | | | | 4329 |
| | TOT PCT | 20.7 | 2.3 | 1.6 | 4.9 | 9.3 | 8.6 | 14.0 | 35.7 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | .0 | * | * | * | * | .1 | .0 | .2 | .4 | |
| <1/2 | 4-10 | .1 | * | * | .1 | .2 | .2 | .2 | .2 | .0 | | 1.1 | |
| | 11-21 | * | .0 | * | * | * | .0 | * | .2 | .0 | | .3 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | * | * | .0 | | .1 | |
| | TOT % | .2 | * | * | .1 | .3 | .3 | .3 | .5 | .0 | .2 | 1.9 | |
| | 0-3 | .0 | * | .0 | * | * | * | * | * | .0 | * | .2 | |
| 1/2<1 | 4-10 | .1 | * | * | * | .1 | .1 | .1 | .1 | .0 | | .5 | |
| | 11-21 | .1 | .0 | .0 | * | .3 | .2 | .1 | .1 | .0 | | .8 | |
| | 22+ | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .0 | | .1 | |
| | TOT % | .1 | * | * | .1 | .4 | .4 | .2 | .2 | .0 | * | 1.6 | |
| | 0-3 | * | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .0 | * | |
| 1<2 | 4-10 | * | * | .1 | .1 | .1 | .1 | .1 | .1 | .0 | | .5 | |
| | 11-21 | * | .0 | .0 | * | .1 | .2 | .1 | .1 | .0 | | .5 | |
| | 22+ | * | .0 | .0 | * | .1 | * | * | * | .0 | | .2 | |
| | TOT % | .1 | * | .1 | .1 | .2 | .3 | .2 | .3 | .0 | .0 | 1.3 | |
| | 0-3 | * | .0 | .0 | * | .0 | * | * | * | .0 | .2 | .3 | |
| 2<5 | 4-10 | .1 | .1 | * | .1 | .1 | .3 | .2 | .4 | .0 | | 1.3 | |
| | 11-21 | .1 | .1 | * | .1 | .3 | .3 | .2 | .3 | .0 | | 1.4 | |
| | 22+ | .1 | * | .0 | .4 | .3 | .1 | .1 | .1 | .0 | | 1.0 | |
| | TOT % | .3 | .1 | .1 | .7 | .7 | .7 | .5 | .8 | .0 | .2 | 4.0 | |
| | 0-3 | .2 | * | .1 | .1 | .2 | .1 | .2 | .3 | .0 | .5 | 1.6 | |
| 5<10 | 4-10 | .8 | .2 | .3 | .4 | .7 | .8 | 1.4 | 1.5 | .0 | | 6.1 | |
| | 11-21 | 1.3 | .2 | .1 | .6 | 1.2 | .9 | 1.2 | 3.4 | .0 | | 8.9 | |
| | 22+ | 1.0 | * | .0 | .4 | .5 | .1 | .4 | 1.4 | .0 | | 3.8 | |
| | TOT % | 3.3 | .4 | .5 | 1.6 | 2.6 | 1.9 | 3.2 | 6.5 | .0 | .5 | 20.5 | |
| | 0-3 | .4 | .1 | * | .2 | .3 | .2 | .4 | .4 | .0 | 2.3 | 4.3 | |
| 10+ | 4-10 | 3.1 | .7 | .6 | 1.1 | 2.0 | 2.6 | 4.4 | 6.9 | .0 | | 21.5 | |
| | 11-21 | 8.0 | .6 | .2 | .7 | 2.1 | 1.7 | 3.9 | 13.7 | .0 | | 31.1 | |
| | 22+ | 5.1 | .2 | * | .2 | .4 | .3 | .8 | 7.0 | .0 | | 14.0 | |
| | TOT % | 16.6 | 1.6 | .9 | 2.2 | 4.8 | 4.8 | 9.5 | 28.1 | .0 | 2.3 | 70.8 | |
| | TOT OBS | | | | | | | | | | | | 4523 |
| | TOT PCT | 20.6 | 2.3 | 1.6 | 4.8 | 9.0 | 8.4 | 13.8 | 36.3 | .0 | 3.2 | 100.0 | |

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.4 | .5 | 1.3 | 7.4 | 13.9 | 9.6 | 3.9 | .6 | .6 | .1 | 40.4 | 59.6 | 822 |
| 06&09 | 2.1 | .5 | 1.6 | 5.1 | 13.1 | 10.6 | 1.8 | .5 | .5 | .7 | 36.4 | 63.6 | 865 |
| 12&15 | 2.8 | .7 | 2.4 | 7.0 | 15.2 | 11.3 | 1.8 | .3 | .8 | .7 | 43.0 | 57.0 | 741 |
| 18&21 | 2.1 | .5 | 2.3 | 9.0 | 17.2 | 11.0 | 2.7 | .4 | .5 | .4 | 46.0 | 54.0 | 780 |
| TOT | 75 | 17 | 61 | 227 | 474 | 341 | 82 | 14 | 19 | 15 | 1325 | 1883 | 3208 |
| PCT | 2.3 | .5 | 1.9 | 7.1 | 14.8 | 10.6 | 2.6 | .4 | .6 | .5 | 41.3 | 58.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00 03 | 1.7 | 1.8 | 1.4 | 4.8 | 20.7 | 69.6 | 1150 |
| 06&09 | 1.8 | .9 | .7 | 3.9 | 19.3 | 73.5 | 1174 |
| 12&15 | 1.9 | 2.1 | 1.4 | 3.9 | 21.2 | 69.4 | 1144 |
| 18&21 | 2.4 | 1.7 | 1.8 | 3.3 | 21.6 | 69.3 | 1126 |
| TOT | 90 | 74 | 60 | 183 | 950 | 3237 | 4594 |
| PCT | 2.0 | 1.6 | 1.3 | 4.0 | 20.7 | 70.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.5 | 4.7 | 13.9 | 27.6 | 58.6 | 801 |
| 06&09 | 2.1 | 4.4 | 11.3 | 26.6 | 62.1 | 841 |
| 12&15 | 2.9 | 6.2 | 14.5 | 29.2 | 56.2 | 729 |
| 18&21 | 2.1 | 5.7 | 16.0 | 31.6 | 52.4 | 767 |
| TOT | 75 | 164 | 435 | 900 | 1803 | 3138 |
| PCT | 2.4 | 5.2 | 13.9 | 28.7 | 57.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | .0 | .1 | .1 | * | .0 | .0 | 5 | .2 |
| 65/69 | .0 | * | .1 | .1 | .3 | .2 | * | * | 27 | .8 |
| 60/64 | * | .1 | .2 | .6 | 1.2 | 1.7 | 1.0 | .1 | 154 | 4.8 |
| 55/59 | .0 | .0 | .2 | 1.0 | 2.8 | 7.0 | 11.6 | 5.2 | 888 | 27 8 |
| 50/54 | .0 | .0 | .2 | 1.4 | 8.5 | 12.3 | 22.9 | 11.7 | 1822 | 57.0 |
| 45/49 | .0 | .0 | * | .2 | 1.3 | 3.0 | 2.3 | 2.1 | 287 | 9.0 |
| 40/44 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | .1 | 12 | .4 |
| 35/39 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 2 | .1 |
| TOTAL | 1 | 3 | 23 | 104 | 452 | 784 | 1215 | 615 | 3197 | 100.0 |
| PCT | * | .1 | .7 | 3.3 | 14.1 | 24.5 | 38.0 | 19.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | 0 | .0 | * | * | * | .0 | * |
| .2 | .1 | * | .0 | .1 | * | .2 | .2 | .0 | .0 |
| .7 | .2 | .2 | .2 | .5 | .6 | .9 | 1.4 | .0 | .2 |
| 4.4 | .5 | .6 | 1.6 | 2.9 | 3.3 | 4.3 | 9.1 | .0 | 1.0 |
| 13.0 | 1.0 | .6 | 2.3 | 5.1 | 3.8 | 8.2 | 21.6 | .0 | 1.4 |
| 2.6 | .3 | .2 | .2 | .2 | .3 | 1.1 | 3.8 | .0 | .2 |
| .1 | * | * | .0 | .0 | .1 | * | .1 | .0 | .1 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * |
| 21.0 | 2.1 | 1.6 | 4.4 | 8.9 | 8.1 | 14.8 | 36.1 | .0 | 2.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 72 | 66 | 61 | 54 | 50 | 45 | 37 | 54.6 | 1199 |
| 06&09 | 68 | 60 | 57 | 53 | 48 | 45 | 42 | 52.8 | 1212 |
| 12&15 | 69 | 61 | 57 | 52 | 48 | 45 | 34 | 52.3 | 1198 |
| 18&21 | 70 | 65 | 62 | 54 | 49 | 47 | 46 | 54.4 | 1195 |
| TOT | 72 | 64 | 60 | 53 | 48 | 46 | 34 | 53.6 | 4804 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 5.5 | 15.0 | 28.2 | 36.5 | 14.8 | 79 | 839 |
| 06&09 | .0 | 2.9 | 10.8 | 21.2 | 41.7 | 23.4 | 82 | 849 |
| 12&15 | .0 | 2.6 | 11.6 | 21.7 | 40.7 | 23.4 | 82 | 783 |
| 18&21 | .1 | 5.4 | 18.8 | 26.8 | 32.5 | 16.3 | 78 | 772 |
| TOT | 1 | 133 | 454 | 794 | 1230 | 631 | 80 | 3243 |

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1960-1974

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | .0 | * | * | .1 | 9 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | * | * | .3 | .1 | .0 | 21 | * | .5 |
| 9/10 | .0 | .0 | .0 | .0 | * | .2 | .5 | .2 | .1 | 41 | .1 | .9 |
| 7/8 | .0 | .0 | .0 | * | .2 | .8 | .8 | .1 | .0 | 78 | .1 | 1.8 |
| 6 | .0 | .0 | .0 | * | .2 | .7 | .4 | * | .0 | 56 | .1 | 1.2 |
| 5 | .0 | * | .0 | .1 | .6 | 1.4 | .3 | * | .0 | 97 | .1 | 2.3 |
| 4 | .0 | .0 | * | .2 | 1.4 | 1.3 | .4 | * | .0 | 140 | .3 | 3.1 |
| 3 | .0 | .0 | .0 | .3 | 1.9 | 1.9 | .1 | .0 | .0 | 173 | .5 | 3.8 |
| 2 | * | .0 | .1 | 1.3 | 4.7 | 2.4 | .2 | .0 | .0 | 358 | .8 | 7.9 |
| 1 | .0 | * | * | 1.9 | 5.2 | 1.6 | * | .0 | .0 | 363 | .7 | 8.2 |
| 0 | * | .0 | .1 | 4.2 | 8.7 | 1.6 | .1 | .0 | .0 | 607 | .8 | 14.0 |
| -1 | .0 | .0 | .1 | 4.2 | 7.0 | .6 | * | .0 | .0 | 494 | .7 | 11.4 |
| -2 | .0 | .0 | .5 | 6.6 | 5.6 | .2 | * | .0 | .0 | 530 | .9 | 12.0 |
| -3 | .0 | .0 | .4 | 4.8 | 3.2 | .2 | .0 | .0 | .0 | 355 | .1 | 8.5 |
| -4 | .0 | .0 | 1.0 | 4.3 | 1.6 | .1 | .0 | .0 | .0 | 296 | .2 | 7.0 |
| -5 | .0 | .0 | .6 | 3.3 | .9 | * | .0 | .0 | .0 | 196 | * | 4.7 |
| -6 | .0 | * | .8 | 2.0 | .3 | .1 | * | .0 | .0 | 132 | .1 | 3.1 |
| -7/-8 | .0 | * | .8 | 1.3 | .1 | * | * | .0 | .0 | 94 | * | 2.2 |
| -9/-10 | .0 | * | .5 | .3 | .0 | .0 | .0 | .0 | .0 | 32 | .0 | .8 |
| -11/-13 | .0 | * | .1 | .1 | .2 | .0 | .0 | .0 | .0 | 19 | * | .4 |
| -14/-16 | * | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | 8 | .0 | .2 |
| -17/-19 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| TOTAL | 4 | 7 | 207 | 1453 | 1719 | 549 | 132 | 23 | 11 | 4105 | 231 | 3874 |
| PCT | .1 | .2 | 5.0 | 35.4 | 41.9 | 13.4 | 3.2 | .6 | .3 | 100.0 | 5.6 | 94.4 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .2 | 2.4 | 1.7 | .0 | .0 | .0 | 4.3 |
| 3-4 | .1 | .6 | 2.8 | .6 | .0 | .0 | 4.0 |
| 5-6 | .0 | .1 | 3.1 | 1.4 | .1 | .0 | 4.6 |
| 7 | .0 | .2 | 1.8 | .7 | .2 | .0 | 2.9 |
| 8-9 | .0 | .0 | .7 | 1.8 | .0 | .0 | 2.5 |
| 10-11 | .0 | .0 | .2 | .8 | .1 | .0 | 1.0 |
| 12 | .0 | .0 | .0 | .5 | .2 | .0 | .6 |
| 13-16 | .0 | .0 | .0 | .3 | .2 | .0 | .5 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 3.6 | 10.2 | 6.1 | .9 | .0 | 21.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .2 | .0 | .0 | .0 | .7 |
| 1-2 | * | .4 | .3 | .0 | .0 | .0 | .6 |
| 3-4 | * | .2 | .4 | .1 | .0 | .0 | .7 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.1 | 1.1 | .1 | .0 | .0 | 2.3 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .1 | .0 | .0 | .0 | .4 |
| 1-2 | .0 | .5 | .2 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .1 | .1 | .1 | .0 | .0 | .2 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.0 | .6 | .1 | .0 | .0 | 1.7 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .7 | .2 | .0 | .0 | .0 | .9 |
| 1-2 | .1 | 1.0 | .4 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .2 | .8 | .1 | .0 | .0 | 1.0 |
| 5-6 | .0 | .0 | .4 | .1 | .1 | .0 | .6 |
| 7 | .0 | .0 | .1 | .2 | .0 | .0 | .3 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | 0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.9 | 1.8 | .4 | .2 | .0 | 4.4 |

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0035 SAN FRANCISCO 37.0N 123.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .0 | .6 | .2 | .0 | .0 | .0 | .8 | .1 | .9 | .1 | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | 1.2 | .8 | .0 | .0 | .0 | 2.1 | .1 | 1.3 | .5 | .0 | .0 | .0 | 1.9 |
| 3-4 | .0 | 1.0 | 1.8 | .2 | .0 | .0 | 3.0 | .0 | .8 | .8 | .2 | .0 | .0 | 1.7 |
| 5-6 | .0 | .2 | 1.0 | .4 | .0 | .0 | 1.6 | .0 | .1 | .8 | .2 | .0 | .0 | 1.0 |
| 7 | .0 | .1 | .5 | .4 | .0 | .0 | .9 | .0 | .0 | .3 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | .1 | .0 | .2 | .0 | .0 | .4 | .0 | .0 | .1 | * | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .1 | .2 | .0 | .0 | .3 | .0 | .0 | .0 | * | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 3.2 | 4.4 | 1.4 | .0 | .0 | 9.2 | .2 | 3.1 | 2.5 | .5 | .0 | .0 | 6.3 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | 1.8 | .4 | .0 | .0 | .0 | 2.5 | .3 | 1.8 | .4 | .0 | .0 | .0 | 2.5 | |
| 1-2 | .1 | 2.2 | 1.3 | .0 | .0 | .0 | 3.6 | .1 | 4.2 | 3.8 | .0 | .0 | .0 | 8.0 | |
| 3-4 | .0 | 1.6 | 1.1 | .4 | .0 | .0 | 3.1 | .0 | 1.8 | 6.2 | 2.0 | .0 | .0 | 10.0 | |
| 5-6 | .0 | .5 | .9 | .4 | .1 | .0 | 1.8 | .0 | .8 | 5.0 | 1.7 | .4 | .0 | 7.8 | |
| 7 | .0 | .1 | .7 | .1 | .0 | .0 | .9 | .0 | .1 | 1.9 | 2.0 | .2 | .0 | 4.2 | |
| 8-9 | .0 | .0 | .1 | .1 | .1 | .0 | .4 | .0 | .0 | .9 | 1.6 | .3 | .0 | 2.8 | |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | .0 | .0 | .7 | .9 | .1 | .0 | 1.7 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .2 | .1 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .1 | .3 | .1 | .0 | .5 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .3 | 6.1 | 4.6 | 1.2 | .2 | .0 | 12.4 | .3 | 8.6 | 19.1 | 8.8 | 1.2 | .0 | 38.1 | 95.7 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.4 | 6.9 | 1.5 | .0 | .0 | .0 | 13.9 | |
| 1-2 | .8 | 13.1 | 9.0 | .0 | .0 | .0 | 22.9 | |
| 3-4 | .1 | 6.1 | 14.0 | 3.5 | .0 | .0 | 23.7 | |
| 5-6 | .0 | 1.7 | 11.2 | 4.2 | .6 | .0 | 17.8 | |
| 7 | .0 | .4 | 5.2 | 3.5 | .3 | .0 | 9.5 | |
| 8-9 | .0 | .1 | 1.9 | 3.9 | .4 | .0 | 6.3 | |
| 10-11 | .0 | .0 | 1.0 | 1.7 | .3 | .0 | 3.0 | |
| 12 | .0 | .0 | .2 | .7 | .3 | .0 | 1.2 | |
| 13-16 | .0 | .0 | .2 | 1.0 | .3 | .0 | 1.5 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 6.3 | 28.4 | 44.3 | 18.5 | 2.4 | .0 | 100.0 | 1470 |

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 8.0 | 12.7 | 7.3 | 3.6 | 1.5 | .7 | .2 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1050 | 4 |
| 6-7 | * | 1.1 | 5.8 | 8.0 | 5.5 | 4.3 | 2.4 | .9 | .8 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 858 | 6 |
| 8-9 | .1 | .3 | 2.1 | 2.1 | 3.3 | 3.8 | 1.9 | 1.0 | 1.4 | .2 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 484 | 8 |
| 10-11 | .0 | .6 | .7 | 1.2 | 1.8 | 1.5 | 1.1 | .7 | .8 | .4 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 265 | 9 |
| 12-13 | .0 | .0 | .4 | .4 | .7 | .4 | .5 | .3 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 90 | 8 |
| >13 | .0 | .0 | .0 | .2 | .2 | .2 | .5 | * | * | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 38 | 9 |
| INDET | 2.2 | .3 | .9 | .5 | .4 | .2 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 148 | 3 |
| TOTAL | 109 | 308 | 660 | 578 | 495 | 350 | 214 | 97 | 110 | 29 | 17 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2933 | 6 |
| PCT | 3.7 | 10.5 | 22.5 | 19.7 | 15.5 | 11.9 | 7.3 | 3.3 | 3.8 | 1.0 | .6 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1943-1976
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .1 | .7 | .0 | .0 | .0 | .0 | 1.0 | .8 | .1 | 3.9 | .0 | 2.6 | .1 | | 91.5 |
| NE | 1.2 | 3.7 | .0 | .0 | .0 | .0 | .0 | 4.9 | 1.5 | .0 | 3.7 | .0 | 4.0 | 1.2 | | 84.7 |
| E | 13.1 | .0 | 1.5 | .0 | .0 | .0 | .0 | 14.6 | 5.1 | .0 | 13.1 | .0 | .0 | .0 | | 67.2 |
| SE | 9.0 | .2 | 2.6 | .0 | .0 | .0 | .0 | 11.8 | 2.0 | 1.4 | 9.4 | .9 | 3.9 | .7 | | 70.0 |
| S | 7.6 | 1.4 | 4.5 | .0 | .0 | .0 | .0 | 13.1 | 2.4 | .0 | 7.3 | 2.2 | 1.0 | .0 | | 74.0 |
| SW | 5.1 | 2.6 | 3.4 | .0 | .0 | .0 | .0 | 10.7 | 2.8 | .0 | 8.5 | .0 | 1.2 | .0 | | 76.7 |
| W | 2.0 | 1.1 | 1.4 | .0 | .0 | .0 | .0 | 4.2 | 2.3 | .0 | 6.2 | .1 | 2.1 | .0 | | 85.1 |
| NW | .4 | .3 | .8 | .0 | .0 | .0 | .0 | 1.5 | .8 | .1 | 4.1 | .2 | 3.0 | .1 | | 90.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .9 | 2.6 | .0 | .0 | .0 | .0 | 3.5 | 1.7 | .0 | 15.7 | .0 | 2.6 | .0 | | 76.5 |
| TOT PCT | 1.7 | .6 | 1.4 | .0 | .0 | .0 | .0 | 3.7 | 1.3 | .1 | 5.3 | .3 | 2.5 | .1 | | 86.7 |
| TOT OBS: | 4520 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.5 | .6 | 1.3 | .0 | .0 | .0 | .0 | 3.3 | 1.8 | .1 | 5.6 | .4 | 3.5 | .2 | | 85.1 |
| 06&09 | 1.8 | .6 | 1.2 | .0 | .0 | .0 | .0 | 3.5 | 1.0 | .1 | 4.3 | .2 | 1.0 | .1 | | 90.0 |
| 12&15 | 2.0 | .9 | 1.5 | .0 | .0 | .0 | .0 | 4.3 | 1.7 | .2 | 5.7 | .2 | 1.5 | .1 | | 86.4 |
| 18&21 | 1.9 | .6 | 1.5 | .0 | .0 | .0 | .0 | 3.7 | .8 | .1 | 5.6 | .3 | 4.4 | .0 | | 85.2 |
| TOT PCT | 1.8 | .7 | 1.4 | .0 | .0 | .0 | .0 | 3.7 | 1.3 | .1 | 5.3 | .3 | 2.6 | .1 | | 86.7 |
| TOT OBS: | 4578 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 4.0 | 9.8 | 6.6 | 1.2 | .0 | | 22.0 | 18.7 | 19.6 | 19.2 | 21.5 | 21.7 | 23.5 | 27.5 | 23.2 | 21.0 |
| NE | .1 | .9 | .6 | .1 | * | .0 | | 1.8 | 11.5 | 1.0 | 1.0 | 1.3 | 1.5 | 2.4 | 2.7 | 2.3 | 2.3 |
| E | .2 | .3 | .2 | * | .0 | .0 | | .8 | 9.5 | .7 | 1.0 | .5 | .3 | 1.1 | 1.2 | .5 | 1.2 |
| SE | .3 | 1.4 | 1.1 | .4 | * | .0 | | 3.2 | 12.2 | 3.9 | 2.7 | 2.9 | 1.6 | 2.5 | 3.8 | 3.5 | 5.2 |
| S | .5 | 2.7 | 2.5 | .9 | .1 | .0 | | 6.7 | 12.4 | 6.6 | 7.1 | 7.3 | 5.9 | 4.4 | 6.7 | 7.9 | 9.5 |
| SW | .6 | 3.5 | 2.1 | .2 | * | .0 | | 6.5 | 9.9 | 6.2 | 10.2 | 4.8 | 6.2 | 5.8 | 8.8 | 6.1 | 8.4 |
| W | .6 | 5.4 | 4.9 | 1.3 | .1 | .0 | | 12.4 | 12.6 | 13.5 | 11.4 | 13.9 | 13.9 | 12.4 | 10.8 | 9.9 | 11.8 |
| NW | .5 | 9.5 | 21.3 | 11.0 | 1.5 | .0 | | 42.7 | 17.4 | 46.1 | 45.6 | 45.0 | 46.9 | 44.5 | 36.7 | 42.5 | 38.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.9 | | | | | | | 2.9 | .0 | 2.4 | 1.9 | 2.9 | 2.0 | 3.5 | 1.8 | 4.0 | 2.6 |
| TOT OBS | 306 | 1377 | 2102 | 1014 | 143 | 0 | 4942 | | 15.4 | 945 | 310 | 902 | 304 | 955 | 340 | 795 | 391 |
| TOT PCT | 6.2 | 27.9 | 42.5 | 20.5 | 2.9 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.7 | 7.6 | 9.1 | 3.6 | .1 | | 22.0 | 18.7 | 19.5 | 21.6 | 24.6 | 22.4 |
| NE | .6 | .8 | .4 | .1 | .0 | | 1.8 | 11.5 | 1.0 | 1.3 | 2.5 | 2.3 |
| E | .4 | .2 | .2 | .0 | .0 | | .8 | 9.5 | .8 | .5 | 1.1 | .7 |
| SE | .9 | 1.6 | .6 | .2 | .0 | | 3.2 | 12.2 | 3.6 | 2.5 | 2.8 | 4.1 |
| S | 1.8 | 3.2 | 1.3 | .3 | .0 | | 6.7 | 12.4 | 6.7 | 6.9 | 5.0 | 8.4 |
| SW | 2.3 | 3.3 | .8 | .1 | .0 | | 6.5 | 9.9 | 7.2 | 5.1 | 6.6 | 6.9 |
| W | 2.5 | 6.7 | 2.6 | .5 | .0 | | 12.4 | 12.6 | 13.0 | 13.9 | 11.9 | 10.6 |
| NW | 3.2 | 17.6 | 17.9 | 5.0 | * | | 43.7 | 17.4 | 46.0 | 45.5 | 42.5 | 41.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.9 | | | | | | 2.9 | .0 | 2.3 | 2.7 | 3.0 | 3.5 |
| TOT OBS | 804 | 2025 | 1621 | 486 | 6 | 4942 | | 15.4 | 1255 | 1206 | 1295 | 1186 |
| TOT PCT | 16.3 | 41.0 | 32.8 | 9.8 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

APRIL

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.3 | 3.2 | 24.6 | 43.4 | 23.3 | 3.1 | .0 | 16.1 | 100.0 | 1255 |
| 06&09 | 2.7 | 2.5 | 28.2 | 41.5 | 22.0 | 3.2 | .0 | 15.8 | 100.0 | 1206 |
| 12&15 | 3.0 | 3.9 | 29.1 | 42.4 | 18.9 | 2.6 | .0 | 15.1 | 100.0 | 1295 |
| 18&21 | 3.5 | 3.6 | 29.6 | 42.7 | 17.8 | 2.7 | .0 | 14.9 | 100.0 | 1186 |
| TOT | 142 | 164 | 1377 | 2102 | 1014 | 143 | 0 | 15.4 | | 4942 |
| PCT | 2.9 | 3.3 | 27.9 | 42.5 | 20.5 | 2.9 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.6 | 3.5 | 5.4 | 4.3 | | 3.8 |
| NE | .5 | .3 | .5 | .6 | | 4.8 |
| E | .2 | * | .1 | .5 | | 5.6 |
| SE | .4 | .2 | .6 | 1.9 | | 6.5 |
| S | .8 | .4 | 1.8 | 3.6 | | 6.4 |
| SW | .9 | .7 | 1.8 | 2.5 | | 5.8 |
| W | 4.5 | 2.0 | 2.7 | 3.3 | | 4.2 |
| NW | 20.1 | 7.0 | 9.3 | 7.2 | | 3.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.1 | * | .7 | 1.1 | | 4.9 |
| TOT OBS | 1262 | 473 | 759 | 826 | 3320 | 4.1 |
| TOT PCT | 38.0 | 14.2 | 22.9 | 24.9 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .3 | .1 | .4 | 1.6 | 3.4 | 1.9 | .4 | .2 | .0 | .1 | 14.5 | |
| NE | * | .0 | .0 | .2 | .3 | .3 | .1 | * | * | .0 | 1.0 | |
| E | * | .0 | * | .1 | .2 | .1 | * | .0 | * | * | .3 | |
| SE | .2 | * | .2 | .4 | .6 | .6 | * | .0 | * | .0 | .9 | |
| S | .5 | .1 | .4 | .9 | 1.4 | 1.0 | .1 | .0 | .0 | .1 | 2.1 | |
| SW | .3 | * | .3 | .5 | 1.1 | .8 | .2 | .0 | * | .1 | 2.6 | |
| W | .4 | .1 | .3 | .7 | 2.0 | .8 | .4 | * | * | .1 | 7.6 | |
| NW | .6 | .2 | .5 | 2.2 | 4.9 | 3.1 | 1.2 | .3 | .2 | .2 | 30.3 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .5 | * | .0 | .2 | .2 | .7 | .0 | * | .0 | .0 | 1.4 | |
| TOT OBS | 93 | 16 | 66 | 222 | 464 | 311 | 82 | 19 | 13 | 18 | 2016 | 3320 |
| TOT PCT | 2.8 | .5 | 2.0 | 6.7 | 14.0 | 9.4 | 2.5 | .6 | .4 | .5 | 60.7 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >5000 | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| * OR >3500 | 3.2 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| * OR >2000 | 10.4 | 13.2 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 |
| * OR >1000 | 20.4 | 26.3 | 27.1 | 27.1 | 27.2 | 27.2 | 27.3 | 27.3 |
| * OR >600 | 24.6 | 32.5 | 33.7 | 33.8 | 33.9 | 33.9 | 33.9 | 33.9 |
| * OR >300 | 25.5 | 34.1 | 35.4 | 35.6 | 35.8 | 35.8 | 35.9 | 35.9 |
| * OR >150 | 25.6 | 34.4 | 35.8 | 36.0 | 36.2 | 36.3 | 36.4 | 36.4 |
| * OR > 0 | 25.9 | 34.9 | 36.5 | 37.0 | 37.6 | 38.3 | 39.0 | 39.1 |
| TOTAL | 869 | 1171 | 1227 | 1242 | 1262 | 1286 | 1311 | 1314 |

TOTAL NUMBER OF OBS: 3359

PCT FREQ NH <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 27.5 | 8.4 | 10.8 | 7.6 | 6.5 | 5.2 | 7.3 | 6.9 | 17.6 | 2.4 | 3501 |

APRIL

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | * | .0 | * | * | .0 | .0 | .0 | .0 | .1 | |
| | NO PCP | .1 | * | .0 | .1 | .2 | .3 | .2 | .4 | .0 | .3 | 1.7 | |
| | TOT % | .1 | * | * | .1 | .2 | .3 | .2 | .4 | .0 | .3 | 1.8 | |
| 1/2<1 | PCP | .0 | .0 | * | .0 | .0 | .0 | * | * | .0 | .0 | .1 | |
| | NO PCP | .3 | * | * | .1 | .1 | * | .2 | .4 | .0 | * | 1.3 | |
| | TOT % | .3 | * | .1 | .1 | .1 | * | .2 | .4 | .0 | * | 1.4 | |
| 1<2 | PCP | .0 | .0 | .0 | * | .1 | * | * | * | .0 | .0 | .2 | |
| | NO PCP | .1 | .0 | * | * | .1 | * | .1 | .2 | .0 | * | .5 | |
| | TOT % | .1 | .0 | * | .1 | .1 | * | .1 | .2 | .0 | * | .7 | |
| 2<5 | PCP | * | * | * | .1 | .2 | .1 | .1 | .1 | .0 | * | .7 | |
| | NO PCP | .5 | * | .0 | .1 | .2 | .2 | .2 | .7 | .0 | * | 2.0 | |
| | TOT % | .6 | .1 | * | .2 | .5 | .3 | .3 | .8 | .0 | .1 | 2.8 | |
| 5<10 | PCP | .1 | .0 | * | .2 | .4 | .4 | .3 | .2 | .0 | * | 1.8 | |
| | NO PCP | 3.6 | .4 | .2 | .9 | 1.5 | 1.6 | 1.9 | 7.1 | .0 | .7 | 17.9 | |
| | TOT % | 3.7 | .4 | .2 | 1.1 | 2.0 | 2.0 | 2.2 | 7.4 | .0 | .7 | 19.7 | |
| 10+ | PCP | * | * | .0 | * | .1 | .2 | .1 | .2 | .0 | * | .8 | |
| | NO PCP | 17.4 | 1.2 | .4 | 1.6 | 3.9 | 3.8 | 9.1 | 34.0 | .0 | 1.4 | 72.9 | |
| | TOT % | 17.4 | 1.3 | .4 | 1.7 | 4.1 | 4.0 | 9.2 | 34.2 | .0 | 1.4 | 73.7 | |
| | TOT OBS | | | | | | | | | | | | 4516 |
| | TOT PCT | 22.3 | 1.8 | .8 | 3.2 | 6.9 | 6.7 | 12.3 | 43.5 | .0 | 2.5 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | * | .0 | * | * | * | * | .1 | .0 | .3 | .5 | |
| | 4-10 | .1 | .0 | .0 | * | .1 | .2 | .2 | .2 | .0 | | .8 | |
| | 11-21 | .1 | .0 | * | .1 | .1 | .1 | .0 | .2 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | | * | |
| | TOT % | .2 | * | * | .1 | .3 | .3 | .2 | .5 | .0 | .3 | 1.9 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | * | * | .1 | .1 | .0 | * | .2 | |
| | 4-10 | * | * | * | .1 | .1 | * | .1 | .1 | .0 | | .5 | |
| | 11-21 | .1 | * | * | .0 | * | .0 | * | .1 | .0 | | .3 | |
| | 22+ | .2 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .3 | |
| | TOT % | .3 | * | .1 | .1 | .1 | * | .2 | .4 | .0 | * | 1.3 | |
| 1<2 | 0-3 | .0 | .0 | * | .0 | .0 | .0 | * | * | .0 | * | .1 | |
| | 4-10 | .1 | * | * | * | .1 | * | .1 | .1 | .0 | | .3 | |
| | 11-21 | * | .0 | * | .1 | .1 | * | .1 | .2 | .0 | | .4 | |
| | 22+ | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .1 | * | .1 | .1 | .2 | * | .1 | .2 | .0 | * | .9 | |
| 2<5 | 0-3 | .0 | .0 | .0 | * | * | .0 | * | .0 | .0 | .1 | .1 | |
| | 4-10 | .2 | * | * | .1 | .2 | .2 | .2 | .2 | .0 | | 1.1 | |
| | 11-21 | .3 | * | * | .1 | [illegible] | .2 | .1 | .6 | .0 | | 1.5 | |
| | 22+ | .1 | .0 | .0 | .1 | .1 | .0 | * | .2 | .0 | | .5 | |
| | TOT % | .7 | .1 | * | .2 | .5 | .3 | .4 | 1.1 | .0 | .1 | 3.3 | |
| 5<10 | 0-3 | .1 | * | .1 | .1 | .1 | .1 | .2 | .1 | .0 | .8 | 1.5 | |
| | 4-10 | .7 | .2 | .1 | .5 | .8 | 1.1 | 1.0 | 1.8 | .0 | | 6.2 | |
| | 11-21 | 1.6 | .2 | * | .4 | .7 | .5 | .7 | 3.6 | .0 | | 7.8 | |
| | 22+ | 1.2 | * | * | .1 | .3 | .1 | .2 | 1.8 | .0 | | 3.8 | |
| | TOT % | 3.6 | .4 | .2 | 1.1 | 1.9 | 1.9 | 2.2 | 7.3 | .0 | .8 | 19.3 | |
| 10+ | 0-3 | .3 | * | .1 | .2 | .3 | .5 | .3 | .3 | .0 | 1.5 | 3.5 | |
| | 4-10 | 2.8 | .6 | .2 | .7 | 1.6 | 2.0 | 3.7 | 7.0 | .0 | | 18.6 | |
| | 11-21 | 7.7 | .5 | .1 | .5 | 1.5 | 1.3 | 4.1 | 16.6 | .0 | | 32.3 | |
| | 22+ | 6.4 | .1 | * | .2 | .5 | .1 | 1.2 | 10.4 | .0 | | 18.9 | |
| | TOT % | 17.3 | 1.2 | .4 | 1.6 | 3.9 | 3.9 | 9.2 | 34.3 | .0 | 1.5 | 73.4 | |
| | TOT OBS | | | | | | | | | | | | 4768 |
| | TOT PCT | 22.1 | 1.8 | .8 | 3.2 | 6.8 | 6.5 | 12.3 | 43.8 | .0 | 2.7 | 100.0 | |

APRIL

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | .8 | 2.1 | 8.3 | 12.6 | 9.0 | 3.0 | .6 | .4 | .8 | 39.6 | 60.4 | 891 |
| 06&09 | 2.1 | .5 | 2.3 | 4.0 | 12.2 | 7.9 | 2.3 | .8 | .5 | .5 | 32.9 | 67.1 | 875 |
| 12&15 | 3.6 | .1 | 1.3 | 6.9 | 14.5 | 8.1 | 1.9 | .4 | .5 | .2 | 37.6 | 62.4 | 836 |
| 18&21 | 3.2 | .5 | 1.9 | 6.9 | 15.0 | 12.0 | 2.4 | .5 | .1 | .7 | 43.1 | 56.9 | 844 |
| TOT | 93 | 16 | 66 | 225 | 467 | 318 | 83 | 19 | 13 | 19 | 1319 | 2127 | 3446 |
| PCT | 2.7 | .5 | 1.9 | 6.5 | 13.6 | 9.2 | 2.4 | .6 | .4 | .6 | 38.3 | 61.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 1.3 | .7 | 2.9 | 22.2 | 71.0 | 1229 |
| 06&09 | 2.3 | .7 | .4 | 3.2 | 17.9 | 75.5 | 1185 |
| 12&15 | 1.8 | 2.0 | 1.0 | 2.8 | 18.0 | 74.4 | 1255 |
| 18&21 | 1.7 | 1.1 | 1.4 | 4.1 | 19.0 | 72.7 | 1157 |
| TOT | 93 | 62 | 42 | 156 | 931 | 3542 | 4826 |
| PCT | 1.9 | 1.3 | .9 | 3.2 | 19.3 | 73.4 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 2.1 | 5.4 | 14.9 | 26.4 | 58.7 | 866 |
| 06&09 | 2.2 | 5.3 | 11.4 | 23.3 | 65.3 | 861 |
| 12&15 | 3.7 | 5.4 | 14.1 | 25.1 | 60.9 | 818 |
| 18&21 | 3.3 | 6.1 | 14.9 | 30.7 | 54.4 | 814 |
| TOT | 94 | 187 | 463 | 885 | 2011 | 3359 |
| PCT | 2.8 | 5.6 | 13.8 | 26.3 | 59.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | 4 | .1 |
| 65/69 | .0 | .0 | .0 | .1 | .3 | .3 | .1 | .0 | 25 | .8 |
| 60/64 | .0 | .0 | .1 | .3 | 1.4 | 1.8 | 1.2 | .3 | 166 | 5.1 |
| 55/59 | .0 | .0 | .1 | .6 | 3.2 | 8.9 | 11.0 | 5.4 | 940 | 29.1 |
| 50/54 | .0 | .0 | .2 | .9 | 6.5 | 12.2 | 25.8 | 11.8 | 1852 | 57.4 |
| 45/49 | .0 | .0 | * | .2 | .6 | 1.9 | 2.8 | 1.7 | 234 | 7.3 |
| 40/44 | .0 | .0 | .0 | .0 | * | .1 | .0 | .1 | 6 | .2 |
| TOTAL | 0 | 0 | 13 | 71 | 390 | 814 | 1318 | 621 | 3227 | 100.0 |
| PCT | .0 | .0 | .4 | 2.2 | 12.1 | 25.2 | 40.8 | 19.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | * | * | * | * | .0 | * |
| .2 | .1 | .0 | .0 | .1 | .1 | .1 | .2 | .0 | .1 |
| 1.1 | .1 | .1 | .2 | .5 | .4 | .8 | 1.7 | .0 | .2 |
| 6.5 | .7 | .2 | 1.4 | 3.3 | 2.8 | 3.3 | 10.3 | .0 | .4 |
| 15.0 | .8 | .2 | 1.1 | 2.2 | 2.3 | 7.3 | 27.5 | .0 | .9 |
| 1.5 | .1 | * | .1 | .1 | .4 | 1.2 | 3.6 | .0 | .1 |
| .1 | .0 | .0 | .0 | * | .0 | * | .1 | .0 | .0 |
| 24.3 | 1.8 | .6 | 2.8 | 6.3 | 6.1 | 12.8 | 43.5 | .0 | 1.8 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 70 | 66 | 61 | 55 | 50 | 48 | 43 | 55.1 | 1271 |
| 06&09 | 70 | 61 | 58 | 53 | 49 | 48 | 42 | 53.0 | 1207 |
| 12&15 | 75 | 61 | 57 | 52 | 48 | 46 | 40 | 52.4 | 1306 |
| 18&21 | 74 | 65 | 62 | 54 | 49 | 48 | 46 | 54.8 | 1199 |
| TOT | 75 | 64 | 60 | 54 | 49 | 47 | 40 | 53.8 | 4983 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-89 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.9 | 14.9 | 29.7 | 39.0 | 13.6 | 79 | 841 |
| 06&09 | .0 | 1.6 | 9.5 | 21.3 | 45.7 | 21.9 | 83 | 812 |
| 12&15 | .0 | 2.3 | 8.6 | 20.9 | 44.1 | 24.1 | 83 | 826 |
| 18&21 | .0 | 3.5 | 15.1 | 28.8 | 35.0 | 17.6 | 80 | 795 |
| TOT | 0 | 84 | 393 | 825 | 1341 | 631 | 81 | 3274 |

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

TABLE 17

AREA 0035 SAN FRANCISCO
37.0N 123.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | .0 | .1 | * | * | .0 | 8 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | * | .0 | * | .2 | .3 | .1 | .0 | 28 | .0 | .7 |
| 9/10 | .0 | .0 | .0 | * | .1 | .3 | .4 | .1 | .0 | .0 | 40 | * | .9 |
| 7/8 | .0 | .0 | * | .0 | .2 | 1.2 | .6 | .1 | .0 | .0 | 90 | * | 2.1 |
| 6 | .0 | .0 | .0 | .1 | .4 | .9 | .4 | .0 | * | .0 | 78 | .1 | 1.8 |
| 5 | .0 | .0 | * | .0 | .7 | 1.3 | .4 | .0 | .0 | .0 | 102 | .1 | 2.4 |
| 4 | .0 | .0 | * | .3 | 1.6 | 2.2 | .6 | .0 | * | .0 | 201 | .4 | 4.5 |
| 3 | .0 | .0 | .0 | .4 | 2.6 | 1.6 | .2 | .0 | .0 | .0 | 198 | .3 | 4.4 |
| 2 | .0 | * | .1 | 1.7 | 4.2 | 2.6 | .4 | .0 | .0 | .0 | 372 | .6 | 8.4 |
| 1 | .0 | * | * | 2.2 | 6.4 | 1.4 | .1 | .0 | .0 | .0 | 419 | .6 | 9.5 |
| 0 | .0 | * | .1 | 4.2 | 8.2 | 1.9 | .1 | .0 | .0 | .0 | 608 | .9 | 13.7 |
| -1 | .0 | .0 | .2 | 5.1 | 5.9 | .5 | .0 | .0 | .0 | .0 | 487 | .8 | 10.9 |
| -2 | .0 | .0 | .5 | 6.8 | 4.1 | .5 | * | .0 | .0 | .0 | 497 | .5 | 11.5 |
| -3 | .0 | .0 | .4 | 5.6 | 3.1 | .1 | .0 | .0 | .0 | .0 | 384 | .3 | 8.9 |
| -4 | .0 | .0 | .7 | 4.2 | 1.6 | .2 | .0 | .0 | .0 | .0 | 276 | .2 | 6.4 |
| -5 | .0 | .0 | .4 | 2.8 | .8 | .1 | * | .0 | .0 | .0 | 173 | .1 | 4.1 |
| -6 | .0 | .0 | .3 | 1.3 | .5 | * | .0 | .0 | .0 | .0 | 90 | .1 | 2.0 |
| -7/-8 | .0 | * | .4 | .8 | .3 | .1 | .0 | .0 | .0 | .0 | 67 | .1 | 1.5 |
| -9/-10 | * | .0 | .1 | .2 | .2 | * | * | .0 | .0 | .0 | 26 | * | .6 |
| -11/-13 | .0 | .0 | * | .2 | * | .0 | .0 | .0 | .0 | .0 | 11 | .0 | .3 |
| -14/-16 | .0 | .0 | * | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 7 | .0 | .2 |
| -17/-19 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | 4 | .0 | .1 |
| TOTAL | 1 | 5 | 134 | 1505 | 1715 | 625 | 148 | 29 | 7 | 1 | 4170 | 214 | 3956 |
| PCT | * | .1 | 3.2 | 36.1 | 41.1 | 15.0 | 3.5 | .7 | .2 | * | 100.0 | 5.1 | 94.9 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .4 | * | .0 | .0 | .0 | .4 |
| 1-2 | .1 | 1.1 | 1.5 | .0 | .0 | .0 | 2.7 |
| 3-4 | * | .6 | 3.2 | .8 | .0 | .0 | 4.7 |
| 5-6 | .0 | .2 | 2.4 | 1.0 | .1 | .0 | 3.7 |
| 7 | .0 | * | 1.5 | 1.1 | .5 | .0 | 3.2 |
| 8-9 | .0 | .1 | .9 | 1.2 | .4 | .0 | 2.7 |
| 10-11 | .0 | .0 | .2 | 1.2 | .3 | .0 | 1.8 |
| 12 | .0 | .0 | .0 | .9 | .2 | .0 | 1.1 |
| 13-16 | .0 | .0 | .1 | .2 | .5 | .0 | .8 |
| 17-19 | .0 | .0 | .0 | * | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .2 | .0 | .2 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| T / PCT | .1 | 2.5 | 9.8 | 6.5 | 2.2 | .0 | 21.2 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .1 | .2 | .1 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .3 | .5 | * | .0 | .0 | .7 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .1 | * | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | 1.0 | .5 | * | .0 | 2.7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .1 | .0 | .0 | .0 | .3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | * | .0 | .0 | .0 | .5 |
| 1-2 | * | .2 | .4 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .3 | .3 | .1 | .0 | .0 | .8 |
| 5-6 | .0 | .1 | .1 | .1 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | .2 | * | .0 | .3 |
| 8-9 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .8 | 1.0 | .5 | * | .0 | 2.7 |

PERIOD: (OVER-ALL) 1963-1974 APRIL AREA 0035 SAN FRANCISCO

TABLE 18 (CONT) 37.0N 123.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .3 | .2 | .0 | .0 | .0 | .6 | .2 | .6 | .1 | .0 | .0 | .0 | 1.0 |
| 1-2 | .1 | .8 | .6 | .0 | .0 | .0 | 1.5 | .1 | 1.0 | .3 | .0 | .0 | .0 | 1.4 |
| 3-4 | .0 | .2 | .7 | .2 | .0 | .0 | 1.1 | .0 | .5 | .6 | * | .0 | .0 | 1.1 |
| 5-6 | .0 | .1 | .4 | .3 | .0 | .0 | .8 | .0 | .1 | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .3 | .1 | * | .0 | .5 | .0 | * | .1 | .0 | .1 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .1 | .1 | .0 | .2 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.5 | 2.3 | 1.1 | .2 | .0 | 5.2 | .3 | 2.3 | 1.5 | * | .1 | .0 | 4.1 |

| | W | | | | | | | NW | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .1 | .9 | .1 | .0 | .0 | .0 | 1.2 | .1 | 1.7 | .4 | .0 | .0 | .0 | 2.3 | |
| 1-2 | .1 | 1.8 | 2.0 | .0 | .0 | .0 | 3.9 | * | 2.8 | 4.1 | .0 | .0 | .0 | 6.9 | |
| 3-4 | .0 | 1.4 | 2.4 | .7 | .0 | .0 | 4.4 | * | 1.9 | 7.2 | 3.1 | .0 | .0 | 12.2 | |
| 5-6 | .0 | .2 | .7 | .2 | * | .0 | 1.2 | .1 | .7 | 4.9 | 2.5 | .6 | .0 | 8.8 | |
| 7 | .0 | * | .3 | .0 | .0 | .0 | .4 | .0 | .2 | 2.5 | 2.2 | .4 | .0 | 5.4 | |
| 8-9 | .0 | .0 | .1 | * | * | .0 | .2 | .0 | .1 | 1.9 | 2.6 | .2 | .0 | 4.8 | |
| 10-11 | .0 | .1 | .0 | .1 | .0 | .0 | .2 | .0 | .0 | 1.4 | 2.5 | .3 | .0 | 4.2 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .4 | 1.2 | .6 | .0 | 2.2 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .3 | .5 | .4 | .0 | 1.2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .2 | 4.5 | 5.7 | 1.0 | .1 | .0 | 11.6 | .2 | 7.6 | 23.1 | 15.0 | 2.5 | .0 | 48.4 | 95.3 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.4 | 4.8 | 1.0 | .0 | .0 | .0 | 11.3 | |
| 1-2 | .5 | 8.0 | 9.0 | .0 | .0 | .0 | 17.5 | |
| 3-4 | .1 | 5.2 | 14.9 | 4.9 | .0 | .0 | 25.1 | |
| 5-6 | .1 | 1.5 | 8.8 | 4.1 | .7 | .0 | 15.2 | |
| 7 | .0 | .3 | 4.8 | 3.8 | 1.0 | .0 | 10.0 | |
| 8-9 | .0 | .3 | 3.1 | 4.0 | .7 | .0 | 8.1 | |
| 10-11 | .0 | .1 | 1.7 | 4.2 | .6 | .0 | 6.6 | |
| 12 | .0 | .0 | .5 | 2.3 | .8 | .0 | 3.5 | |
| 13-16 | .0 | .1 | .3 | .7 | .9 | .0 | 2.1 | |
| 17-19 | .0 | .0 | .0 | .3 | .1 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .1 | .3 | .0 | .3 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1508 |
| TOT PCT | 6.1 | 20.4 | 44.1 | 24.3 | 5.1 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.3 | 6.9 | 12.0 | 5.9 | 3.4 | 1.5 | 1.1 | .4 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 996 | 4 |
| 6-7 | * | 1.9 | 7.0 | 8.8 | 6.5 | 3.4 | 2.9 | 1.7 | .6 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1007 | 6 |
| 8-9 | .0 | .3 | 1.5 | 3.0 | 3.2 | 3.1 | 2.9 | 1.6 | 1.2 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 520 | 8 |
| 10-11 | .0 | .5 | .5 | 1.2 | 1.1 | 1.1 | .9 | .7 | 1.1 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 227 | 9 |
| 12-13 | .0 | .0 | .5 | .3 | .4 | .3 | .3 | .4 | .7 | * | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 96 | 9 |
| >13 | .0 | .0 | .0 | .1 | .1 | .1 | .3 | .0 | .1 | .0 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 32 | 13 |
| INDET | 1.8 | .6 | .7 | .6 | .3 | .3 | .2 | .2 | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 148 | 4 |
| TOTAL | 93 | 307 | 674 | 601 | 458 | 299 | 258 | 148 | 124 | 28 | 24 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3026 | 6 |
| PCT | 3.1 | 10.1 | 22.3 | 19.9 | 15.1 | 9.9 | 8.5 | 4.9 | 4.1 | .9 | .8 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9M 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .8 | .4 | 1.8 | .0 | .0 | .0 | .0 | 2.9 | .2 | .1 | 6.1 | .3 | 2.7 | | .2 | 87.6 |
| NE | 2.3 | 1.1 | 4.0 | .0 | .0 | .0 | .0 | 6.3 | 2.3 | .0 | 2.9 | .0 | 5.1 | | .0 | 83.4 |
| E | 4.9 | .0 | 2.5 | .0 | .0 | .0 | .0 | 7.4 | 3.3 | .0 | 12.3 | .0 | 7.4 | | .0 | 69.7 |
| SE | 5.0 | .9 | 4.1 | .0 | .0 | .0 | .0 | 7.3 | 3.9 | .0 | 17.3 | .0 | 2.7 | | .0 | 68.9 |
| S | 6.7 | .5 | 4.3 | .0 | .0 | .0 | .0 | 9.5 | 2.3 | .0 | 10.8 | .0 | 3.7 | | .0 | 73.7 |
| SW | 1.7 | .4 | 2.2 | .0 | .0 | .0 | .0 | 4.3 | 1.2 | .1 | 12.9 | .4 | 2.9 | | .0 | 78.2 |
| W | .6 | .5 | .9 | .0 | .0 | .0 | .0 | 2.0 | 2.2 | .1 | 8.8 | .2 | 3.4 | | .2 | 83.1 |
| NW | .4 | .4 | 1.0 | .0 | .0 | .0 | .0 | 1.8 | .5 | * | 5.9 | .3 | 4.1 | | .1 | 87.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | 2.4 | .0 | .0 | .0 | .0 | 2.4 | 2.4 | .0 | 15.7 | 1.2 | 4.8 | | .0 | 73.5 |
| TOT PCT | 1.0 | .4 | 1.5 | .0 | .0 | .0 | .0 | 2.8 | .9 | * | 7.4 | .3 | 3.6 | | .1 | 84.8 |
| TOT OBS: | 4550 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .6 | .3 | 1.1 | .0 | .0 | .0 | .0 | 2.0 | 1.0 | .1 | 8.5 | .2 | 5.0 | | .0 | 83.2 |
| 06&09 | .7 | .2 | 1.7 | .0 | .0 | .0 | .0 | 2.6 | .8 | .1 | 6.6 | .3 | 2.2 | | .1 | 87.4 |
| 12&15 | 1.7 | 1.0 | 2.9 | .0 | .0 | .0 | .0 | 5.0 | 1.1 | .0 | 7.3 | .2 | 2.6 | | .0 | 83.9 |
| 18&21 | 1.1 | .3 | .7 | .0 | .0 | .0 | .0 | 1.8 | .9 | .0 | 7.8 | .5 | 4.4 | | .3 | 84.2 |
| TOT PCT | 1.0 | .4 | 1.6 | .0 | .0 | .0 | .0 | 2.9 | .9 | * | 7.5 | .3 | 3.6 | | .1 | 84.7 |
| TOT OBS: | 4633 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 3.8 | 10.2 | 5.9 | .6 | .0 | | 20.9 | 18.0 | 16.0 | 18.6 | 23.1 | 20.4 | 22.3 | 22.9 | 23.7 | 18.6 |
| NE | .1 | .4 | .4 | .1 | * | .0 | | 1.0 | 11.4 | .6 | .3 | 1.4 | 1.3 | 1.5 | .9 | .7 | 1.0 |
| E | .1 | .4 | .1 | * | .0 | .0 | | .6 | 7.9 | .3 | .3 | .6 | .3 | .7 | .4 | 1.1 | 1.2 |
| SE | .4 | 1.2 | .8 | .2 | .0 | .0 | | 2.5 | 10.1 | 2.0 | 2.3 | 1.6 | 1.5 | 2.2 | 4.5 | 4.0 | 2.8 |
| S | .4 | 2.5 | 1.6 | .2 | .0 | .0 | | 4.7 | 10.2 | 5.1 | 3.2 | 3.2 | 4.2 | 4.0 | 4.7 | 7.6 | 5.0 |
| SW | .4 | 3.4 | 1.3 | .1 | * | .0 | | 5.2 | 9.0 | 5.7 | 6.1 | 4.5 | 4.2 | 5.4 | 4.8 | 4.7 | 6.6 |
| W | .6 | 6.1 | 5.2 | 1.3 | * | .0 | | 13.2 | 11.9 | 14.4 | 15.2 | 16.0 | 14.0 | 11.2 | 11.3 | 11.1 | 12.7 |
| NW | .8 | 10.9 | 24.2 | 12.7 | 1.2 | .0 | | 49.8 | 17.1 | 54.9 | 52.9 | 48.3 | 52.7 | 48.5 | 47.4 | 44.9 | 50.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.1 | | | | | | | 2.1 | .0 | .9 | 1.0 | 1.5 | 1.4 | 4.0 | 3.1 | 2.2 | 1.4 |
| TOT OBS | 262 | 1427 | 2179 | 1010 | 95 | 0 | 4973 | | 15.2 | 858 | 983 | 875 | 967 | 917 | 985 | 770 | 418 |
| TOT PCT | 5.3 | 28.7 | 43.8 | 20.3 | 1.9 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.5 | 7.6 | 9.2 | 2.5 | .1 | | 20.9 | 18.0 | 16.8 | 22.3 | 22.5 | 21.9 |
| NE | .4 | .4 | .2 | * | * | | 1.0 | 11.4 | .5 | 1.3 | 1.3 | .8 |
| E | .3 | .3 | * | .0 | .0 | | .6 | 7.9 | .3 | .5 | .6 | 1.1 |
| SE | .8 | 1.3 | .4 | * | .0 | | 2.5 | 10.1 | 2.1 | 1.5 | 2.9 | 3.6 |
| S | 1.4 | 2.7 | .6 | * | .0 | | 4.7 | 10.2 | 4.5 | 3.7 | 4.2 | 6.7 |
| SW | 1.8 | 3.0 | .3 | * | * | | 5.2 | 9.0 | 5.8 | 4.4 | 5.2 | 5.3 |
| W | 2.9 | 7.6 | 2.4 | .4 | .0 | | 13.2 | 11.9 | 14.7 | 15.4 | 11.3 | 11.6 |
| NW | 3.8 | 20.8 | 19.7 | 5.2 | .2 | | 49.8 | 17.1 | 54.3 | 49.6 | 48.2 | 47.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.1 | | | | | | 2.1 | .0 | 1.0 | 1.4 | 3.8 | 1.9 |
| TOT OBS | 742 | 2172 | 1636 | 406 | 17 | 4973 | | 15.2 | 1241 | 1242 | 1302 | 1188 |
| TOT PCT | 14.9 | 43.7 | 32.9 | 8.2 | .3 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

MAY

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.0 | 2.7 | 27.0 | 45.0 | 22.2 | 2.1 | .0 | 15.9 | 100.0 | 1241 |
| 06&09 | 1.4 | 2.9 | 27.8 | 43.9 | 22.3 | 1.7 | .0 | 15.6 | 100.0 | 1242 |
| 12&15 | 3.8 | 3.4 | 29.5 | 42.5 | 18.4 | 2.4 | .0 | 14.7 | 100.0 | 1302 |
| 18&21 | 1.9 | 3.9 | 30.6 | 43.9 | 18.3 | 1.4 | .0 | 14.6 | 100.0 | 1188 |
| TOT | 102 | 160 | 1427 | 2179 | 1010 | 95 | 0 | 15.2 | | 4973 |
| PCT | 2.1 | 3.2 | 28.7 | 43.8 | 20.3 | 1.9 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.1 | 2.4 | 5.3 | 6.8 | | 4.6 |
| NE | .4 | .1 | .4 | .2 | | 4.6 |
| E | .2 | * | .1 | .4 | | 5.4 |
| SE | .6 | .1 | .3 | 1.0 | | 5.4 |
| S | .8 | .4 | 1.2 | 2.4 | | 6.0 |
| SW | .9 | .7 | 1.0 | 2.2 | | 5.6 |
| W | 4.3 | 1.8 | 2.5 | 4.9 | | 4.8 |
| NW | 18.9 | 5.9 | 10.1 | 14.5 | | 4.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .8 | .2 | .2 | .6 | | 4.0 |
| TOT OBS | 1101 | 376 | 688 | 1067 | 3232 | 4.6 |
| TOT PCT | 34.1 | 11.6 | 21.3 | 33.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .5 | * | .5 | 2.1 | 4.2 | 2.7 | .3 | * | * | .1 | 11.1 | |
| NE | * | * | * | .1 | .1 | .2 | * | .0 | .0 | .0 | .6 | |
| E | * | .0 | * | * | .1 | .2 | .1 | .0 | .0 | * | .3 | |
| SE | .1 | .0 | .1 | .2 | .4 | .2 | * | * | * | * | 1.0 | |
| S | .2 | * | .2 | .5 | .9 | .9 | .2 | .1 | * | .0 | 1.7 | |
| SW | .3 | * | .2 | .3 | 1.1 | .5 | .1 | * | .1 | .0 | 2.2 | |
| W | .7 | * | .2 | .8 | 2.7 | 1.3 | .3 | * | * | .1 | 7.3 | |
| NW | 1.4 | .2 | 1.6 | 4.0 | 8.7 | 4.1 | .7 | .1 | .1 | .2 | 28.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .2 | * | .0 | .1 | .1 | .2 | .0 | * | .0 | * | 1.2 | |
| TOT OBS | 117 | 13 | 92 | 258 | 593 | 330 | 57 | 12 | 9 | 11 | 1740 | 3232 |
| TOT PCT | 3.6 | .4 | 2.8 | 8.0 | 18.3 | 10.2 | 1.8 | .4 | .3 | .3 | 53.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >30YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| * OR >5000 | .7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| * OR >3500 | 1.7 | 2.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| * OR >2000 | 9.0 | 12.3 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| * OR >1000 | 21.2 | 30.1 | 30.9 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| * OR >600 | 25.5 | 37.3 | 38.6 | 38.8 | 38.9 | 38.9 | 38.9 | 38.9 |
| * OR >300 | 26.6 | 39.6 | 41.4 | 41.7 | 41.8 | 41.8 | 41.9 | 41.9 |
| * OR >150 | 26.8 | 39.9 | 41.8 | 42.1 | 42.2 | 42.2 | 42.3 | 42.3 |
| * OR > 0 | 26.9 | 40.4 | 42.7 | 43.4 | 44.0 | 44.6 | 45.5 | 45.8 |
| TOTAL | 880 | 1325 | 1399 | 1422 | 1440 | 1462 | 1491 | 1501 |

TOTAL NUMBER OF OBS: 3276

PCT FREQ NM <5/8: 54.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 22.6 | 9.4 | 9.6 | 6.2 | 5.8 | 4.3 | 6.4 | 6.8 | 25.6 | 3.3 | 3403 |

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | .0 | * | |
| | NO PCP | .4 | * | * | .2 | .1 | .2 | .4 | .9 | .0 | .2 | 2.3 | |
| | TOT % | .4 | * | * | .2 | .1 | .2 | .4 | .9 | .0 | .2 | 2.3 | |
| 1/2<1 | PCP | .0 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | * | |
| | NO PCP | .3 | .0 | .0 | * | * | .1 | .1 | .4 | .0 | * | .9 | |
| | TOT % | .3 | .0 | .0 | * | .1 | .1 | .1 | .4 | .0 | * | 1.0 | |
| 1<2 | PCP | * | .0 | .0 | * | * | .0 | * | * | .0 | .0 | .1 | |
| | NO PCP | .2 | * | * | .1 | .1 | .2 | .1 | .4 | .0 | * | 1.1 | |
| | TOT % | .2 | * | * | .1 | .1 | .2 | .2 | .4 | .0 | * | 1.2 | |
| 2<5 | PCP | .1 | * | .0 | .1 | .1 | .1 | * | .2 | .0 | .0 | .7 | |
| | NO PCP | .3 | .0 | * | .1 | .2 | .1 | .5 | 1.1 | .0 | .1 | 2.4 | |
| | TOT % | .5 | * | * | .2 | .2 | .2 | .6 | 1.3 | .0 | .1 | 3.1 | |
| 5<10 | PCP | .4 | * | * | .1 | .3 | .1 | .1 | .4 | .0 | * | 1.4 | |
| | NO PCP | 5.1 | .3 | .2 | .9 | 1.3 | 1.2 | 3.0 | 12.3 | .0 | .2 | 24.5 | |
| | TOT % | 5.5 | .4 | .2 | .9 | 1.5 | 1.4 | 3.2 | 12.6 | .0 | .3 | 25.9 | |
| 10+ | PCP | .1 | * | * | * | .1 | * | .1 | .2 | .0 | .0 | .6 | |
| | NO PCP | 14.7 | .5 | .4 | 1.0 | 2.7 | 3.2 | 8.9 | 33.2 | .0 | 1.3 | 65.9 | |
| | TOT % | 14.8 | .6 | .4 | 1.1 | 2.8 | 3.2 | 9.0 | 33.5 | .0 | 1.3 | 66.5 | |
| | TOT OBS | | | | | | | | | | | | 4544 |
| | TOT PCT | 21.6 | 1.0 | .7 | 2.4 | 4.8 | 5.2 | 13.3 | 49.2 | .0 | 1.8 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | * | .0 | * | .1 | * | * | .0 | .0 | .2 | .4 | |
| | 4-10 | .1 | .0 | * | * | .1 | .2 | .2 | .5 | .0 | | 1.2 | |
| | 11-21 | .2 | * | .0 | .1 | .0 | .0 | .1 | .4 | .0 | | .8 | |
| | 22+ | * | .0 | .0 | .1 | .0 | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .4 | * | * | .2 | .1 | .2 | .4 | 1.0 | .0 | .2 | 2.5 | |
| 1/2<1 | 0-3 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | * | .1 | |
| | 4-10 | .1 | .0 | .0 | .1 | .1 | .1 | .1 | .2 | .0 | | .5 | |
| | 11-21 | .1 | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | | .4 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .1 | |
| | TOT % | .2 | .0 | .0 | .1 | .1 | .1 | .1 | .4 | .0 | * | 1.0 | |
| 1<2 | 0-3 | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | * | .1 | |
| | 4-10 | * | * | * | * | * | .1 | .1 | .2 | .0 | | .7 | |
| | 11-21 | .1 | * | .0 | * | .1 | * | .1 | .2 | .0 | | .5 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .2 | * | * | .1 | .1 | .2 | .2 | .5 | .0 | * | 1.3 | |
| 2<5 | 0-3 | * | .0 | .0 | * | * | * | * | .1 | .0 | .1 | .3 | |
| | 4-10 | .1 | * | * | .1 | .1 | .1 | .4 | .4 | .0 | | 1.3 | |
| | 11-21 | .3 | .0 | .0 | .1 | .1 | .1 | .2 | .7 | .0 | | 1.5 | |
| | 22+ | .1 | .0 | .0 | * | * | .0 | * | .3 | .0 | | .5 | |
| | TOT % | .5 | * | * | .2 | .3 | .3 | .7 | 1.6 | .0 | .1 | 3.6 | |
| 5<10 | 0-3 | .1 | .1 | .1 | .2 | .2 | .1 | .2 | .1 | .0 | .3 | 1.4 | |
| | 4-10 | .8 | .1 | .1 | .4 | .8 | .8 | 1.3 | 2.4 | .0 | | 6.7 | |
| | 11-21 | 2.6 | .1 | * | .3 | .5 | .3 | 1.2 | 6.2 | .0 | | 11.3 | |
| | 22+ | 1.8 | * | .0 | * | .1 | .1 | .4 | 3.7 | .0 | | 6.0 | |
| | TOT % | 5.3 | .3 | .2 | .9 | 1.5 | 1.3 | 3.1 | 12.4 | .0 | .3 | 25.4 | |
| 10+ | 0-3 | .2 | .1 | * | .1 | .2 | .1 | .3 | .5 | .0 | 1.3 | 2.8 | |
| | 4-10 | 2.8 | .3 | .2 | .6 | 1.5 | 2.1 | 4.0 | 6.9 | .0 | | 18.3 | |
| | 11-21 | 7.0 | .2 | .1 | .3 | 1.0 | .9 | 3.7 | 16.3 | .0 | | 29.5 | |
| | 22+ | 4.8 | * | * | * | .1 | * | .9 | 9.7 | .0 | | 15.6 | |
| | TOT % | 14.6 | .6 | .4 | 1.0 | 2.7 | 3.2 | 8.9 | 33.4 | .0 | 1.3 | 66.2 | |
| | TOT OBS | | | | | | | | | | | | 4762 |
| | TOT PCT | 21.2 | 1.0 | .7 | 2.5 | 4.9 | 5.3 | 13.4 | 49.3 | .0 | 1.9 | 100.0 | |

MAY

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.1 | .5 | 2.5 | 7.2 | 16.4 | 8.4 | 1.8 | .0 | .4 | .2 | 40.4 | 59.6 | 844 |
| 06&09 | 4.3 | .3 | 2.2 | 6.0 | 15.1 | 11.0 | 1.6 | .5 | .2 | .3 | 41.6 | 58.4 | 866 |
| 12&15 | 3.8 | .2 | 4.1 | 9.0 | 21.1 | 11.7 | 1.6 | .4 | .1 | .6 | 52.6 | 47.4 | 812 |
| 18&21 | 3.1 | .6 | 2.8 | 9.4 | 19.4 | 9.1 | 1.8 | .6 | .4 | .1 | 47.4 | 52.6 | 815 |
| TOT | 119 | 14 | 96 | 263 | 598 | 335 | 57 | 12 | 9 | 11 | 1514 | 1823 | 3337 |
| PCT | 3.6 | .4 | 2.9 | 7.9 | 17.9 | 10.0 | 1.7 | .4 | .3 | .3 | 45.4 | 54.6 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.8 | .9 | 1.4 | 3.1 | 25.6 | 66.2 | 1195 |
| 06&09 | 3.0 | 1.0 | .8 | 2.9 | 21.8 | 70.5 | 1223 |
| 12&15 | 2.8 | 1.4 | 1.8 | 4.4 | 26.5 | 63.1 | 1253 |
| 18&21 | 1.6 | .9 | 1.2 | 4.1 | 27.8 | 64.5 | 1174 |
| TOT | 124 | 51 | 63 | 175 | 1231 | 3201 | 4845 |
| PCT | 2.6 | 1.1 | 1.3 | 3.6 | 25.4 | 66.1 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.0 | 6.3 | 14.5 | 27.1 | 58.4 | 826 |
| 06&09 | 4.1 | 6.9 | 14.2 | 28.9 | 56.9 | 845 |
| 12&15 | 3.9 | 8.7 | 19.4 | 34.4 | 46.2 | 797 |
| 18&21 | 3.1 | 6.7 | 18.3 | 30.2 | 51.5 | 808 |
| TOT | 116 | 233 | 543 | 986 | 1747 | 3276 |
| PCT | 3.5 | 7.1 | 16.6 | 30.1 | 53.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 70/74 | .1 | .0 | .0 | * | .0 | .1 | .0 | .0 | 5 | .2 |
| 65/69 | .0 | * | * | * | .2 | .4 | .1 | * | 26 | .9 |
| 60/64 | .0 | .0 | * | .2 | 1.8 | 3.1 | 2.6 | .7 | 254 | 8.3 |
| 55/59 | .0 | .0 | .1 | .3 | 2.1 | 12.1 | 19.1 | 7.9 | 1266 | 41.5 |
| 50/54 | .0 | .0 | * | .1 | 2.5 | 7.0 | 23.5 | 14.8 | 1463 | 48.0 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .2 | .6 | .5 | 36 | 1.2 |
| 40/44 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | * |
| TOTAL | 2 | 1 | 5 | 20 | 199 | 695 | 1400 | 729 | 3051 | 100.0 |
| PCT | .1 | * | .2 | .7 | 6.5 | 22.8 | 45.9 | 23.9 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | * | * | .0 | .1 | .0 | * |
| .2 | .0 | .0 | .0 | .0 | .0 | .2 | .4 | .0 | .0 |
| 1.3 | .1 | .1 | .3 | .6 | .9 | 1.6 | 3.3 | .0 | .2 |
| 8.5 | .4 | .4 | 1.1 | 2.8 | 2.3 | 5.3 | 19.9 | .0 | .8 |
| 11.9 | .5 | .2 | .6 | 1.1 | 1.3 | 6.0 | 25.7 | .0 | .7 |
| .3 | .0 | .0 | .0 | .0 | * | .2 | .7 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 22.3 | 1.0 | .6 | 2.0 | 4.5 | 4.5 | 13.3 | 50.1 | .0 | 1.6 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 75 | 66 | 63 | 56 | 51 | 50 | 46 | 56.2 | 1254 |
| 06&09 | 70 | 63 | 60 | 54 | 50 | 49 | 43 | 54.5 | 1262 |
| 12&15 | 68 | 61 | 59 | 54 | 50 | 48 | 42 | 53.6 | 1316 |
| 18&21 | 74 | 68 | 63 | 56 | 51 | 49 | 46 | 56.2 | 1197 |
| TOT | 75 | 65 | 61 | 55 | 50 | 49 | 42 | 55.2 | 5029 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.0 | 8.9 | 28.6 | 43.5 | 18.0 | 82 | 766 |
| 06&09 | .0 | .3 | 4.0 | 19.3 | 48.0 | 27.9 | 85 | 798 |
| 12&15 | .0 | .3 | 3.7 | 17.1 | 48.6 | 30.4 | 86 | 794 |
| 18&21 | .3 | 1.3 | 9.4 | 26.5 | 44.2 | 18.2 | 82 | 746 |
| TOT | 2 | 26 | 199 | 707 | 1432 | 738 | 84 | 3104 |

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | * | .1 | * | * | 10 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .1 | .2 | .3 | .1 | .0 | 28 | .0 | .7 |
| 9/10 | .0 | .0 | .0 | .0 | .2 | .6 | .1 | * | .0 | 40 | .1 | .9 |
| 7/8 | .0 | .0 | .0 | .3 | .7 | .9 | .2 | .0 | * | 87 | .2 | 1.8 |
| 6 | .0 | .0 | .0 | .3 | 1.0 | .6 | .0 | * | .0 | 79 | .1 | 1.7 |
| 5 | .0 | .0 | * | .7 | 1.7 | .9 | * | * | .0 | 143 | .2 | 3.2 |
| 4 | .0 | .0 | .2 | 2.0 | 2.5 | .9 | .1 | .0 | .0 | 243 | .5 | 5.3 |
| 3 | .0 | .0 | .3 | 2.9 | 2.1 | .4 | * | * | .0 | 241 | .4 | 5.3 |
| 2 | .0 | .0 | 1.4 | 5.4 | 4.3 | .7 | * | .0 | .0 | 496 | 1.0 | 10.8 |
| 1 | .0 | .0 | 1.3 | 5.5 | 2.7 | .2 | .0 | .0 | .0 | 407 | .7 | 9.0 |
| 0 | * | * | 3.2 | 9.9 | 3.3 | .7 | .0 | * | .0 | 720 | 1.1 | 16.1 |
| -1 | .0 | * | 2.8 | 6.8 | 1.5 | .1 | .0 | * | .0 | 473 | .9 | 10.4 |
| -2 | .0 | * | 3.2 | 7.0 | 1.4 | .1 | .0 | .0 | .0 | 495 | .7 | 11.1 |
| -3 | .0 | .1 | 2.1 | 3.6 | .5 | .1 | * | .0 | .0 | 266 | .6 | 5.7 |
| -4 | .0 | .1 | 1.8 | 2.3 | .3 | .0 | .0 | .0 | .0 | 188 | .3 | 4.1 |
| -5 | .0 | .1 | 1.2 | 1.5 | .1 | .0 | .0 | .0 | .0 | 120 | .3 | 2.6 |
| -6 | * | * | .8 | .7 | * | .0 | .0 | .0 | .0 | 64 | .2 | 1.4 |
| -7/-8 | * | .1 | .6 | .7 | * | .0 | .0 | .0 | .0 | 59 | .2 | 1.2 |
| -9/-10 | * | * | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 16 | * | .4 |
| -11/-13 | .0 | * | .2 | .2 | .0 | * | .0 | .0 | .0 | 18 | * | .4 |
| TOTAL | 4 | 26 | 806 | 2090 | 941 | 274 | 40 | 12 | 3 | 4196 | 319 | 3877 |
| PCT | .1 | .6 | 19.2 | 49.8 | 22.4 | 6.5 | 1.0 | .3 | .1 | 100.0 | 7.6 | 92.4 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .6 | .0 | .0 | .0 | .0 | .7 |
| 1-2 | .0 | 1.3 | 1.2 | .0 | .0 | .0 | 2.5 |
| 3-4 | .0 | 1.1 | 2.5 | .3 | .0 | .0 | 3.8 |
| 5-6 | .0 | .2 | 3.1 | .8 | .1 | .0 | 4.3 |
| 7 | .0 | .0 | 1.8 | 1.8 | .1 | .0 | 3.7 |
| 8-9 | .0 | .1 | .8 | 1.2 | .3 | .0 | 2.5 |
| 10-11 | .0 | .0 | .3 | 1.0 | .3 | .0 | 1.6 |
| 12 | .0 | .0 | .0 | .3 | .1 | .0 | .4 |
| 13-16 | .0 | .0 | .2 | .5 | .1 | .0 | .8 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 3.3 | 9.9 | 5.9 | 1.0 | .0 | 20.3 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | .2 | * | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .3 | .1 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .5 | .4 | .0 | .0 | .0 | 1.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .2 | .0 | .1 | .0 | .0 | .3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .3 | .1 | .0 | .0 | .0 | .3 |
| 1-2 | .0 | .5 | .1 | .0 | .0 | .0 | .7 |
| 3-4 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | 1.0 | .3 | .1 | .0 | .0 | 1.4 |

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .1 | .7 | .2 | .0 | .0 | .0 | 1.0 | .2 | .9 | .3 | .0 | .0 | .0 | 1.3 |
| 1-2 | .0 | .9 | .4 | .0 | .0 | .0 | 1.3 | .2 | .9 | * | .0 | .0 | .0 | 1.1 |
| 3-4 | .0 | .1 | .5 | .0 | .0 | .0 | .5 | .2 | .3 | .3 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .1 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.8 | 1.3 | .1 | .0 | .0 | 3.2 | .9 | 2.0 | 1.0 | .0 | .0 | .0 | 3.5 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .2 | .9 | .2 | .0 | .0 | .0 | 1.3 | .1 | 1.5 | .2 | .0 | .0 | .0 | 1.8 | |
| 1-2 | .1 | 1.9 | 2.6 | .0 | .0 | .0 | 4.7 | .2 | 2.9 | 3.7 | .0 | .0 | .0 | 6.8 | |
| 3-4 | .0 | 1.2 | 2.2 | 1.5 | .0 | .0 | 4.9 | .1 | 2.6 | 7.1 | 2.6 | .0 | .0 | 12.3 | |
| 5-6 | .0 | .2 | 1.3 | .2 | .0 | .0 | 1.7 | .1 | 1.1 | 8.0 | 3.3 | .1 | .0 | 12.6 | |
| 7 | .0 | .1 | .4 | .4 | .0 | .0 | .9 | .0 | .2 | 4.6 | 3.1 | .1 | .0 | 7.9 | |
| 8-9 | .0 | .1 | .1 | .2 | .0 | .0 | .3 | .0 | .1 | 1.7 | 3.4 | .3 | .0 | 5.4 | |
| 10-11 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | .0 | .2 | .6 | 2.4 | .3 | .0 | 3.4 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 | * | .0 | .7 | |
| 13-16 | .0 | .1 | .1 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | 1.2 | .5 | .0 | 1.8 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .3 | 4.4 | 7.0 | 2.5 | .0 | .0 | 14.1 | .4 | 8.5 | 25.9 | 16.7 | 1.3 | .0 | 52.9 | 96.8 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.1 | 5.0 | 1.1 | .0 | .0 | .0 | 10.2 | |
| 1-2 | .4 | 8.7 | 8.2 | .0 | .0 | .0 | 17.3 | |
| 3-4 | .2 | 5.6 | 12.7 | 4.4 | .0 | .0 | 22.9 | |
| 5-6 | .1 | 1.6 | 12.8 | 4.4 | .2 | .0 | 19.1 | |
| 7 | .0 | .3 | 6.9 | 5.3 | .2 | .0 | 12.8 | |
| 8-9 | .0 | .3 | 2.7 | 4.8 | .5 | .0 | 8.5 | |
| 10-11 | .0 | .2 | 1.0 | 3.6 | .6 | .0 | 5.3 | |
| 12 | .0 | .0 | .0 | 1.0 | .2 | .0 | 1.1 | |
| 13-16 | .0 | .2 | .2 | 1.7 | .6 | .0 | 2.7 | |
| 17-19 | .0 | .0 | .0 | .2 | .0 | .0 | .2 | |
| 20-22 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 4.8 | 21.9 | 45.6 | 25.3 | 2.3 | .0 | 100.0 | 1238 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 8.4 | 14.4 | 6.9 | 4.6 | 2.0 | .6 | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1160 | 4 |
| 6-7 | * | 1.5 | 5.6 | 8.2 | 6.9 | 4.1 | 2.3 | .6 | .6 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 897 | 6 |
| 8-9 | * | .4 | 1.6 | 2.8 | 3.5 | 2.8 | 2.2 | 1.0 | 1.2 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 474 | 8 |
| 10-11 | .0 | .2 | .5 | .8 | 1.0 | 1.2 | 1.5 | .8 | .9 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 213 | 9 |
| 12-13 | .0 | .0 | .5 | .2 | .1 | .4 | .3 | .2 | .2 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 63 | 9 |
| >13 | .0 | .0 | .0 | .1 | * | .1 | .1 | .1 | .1 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18 | 10 |
| INDET | 2.3 | .5 | .8 | .5 | .7 | .2 | .1 | .2 | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 162 | 3 |
| TOTAL | 114 | 328 | 699 | 582 | 504 | 324 | 212 | 96 | 100 | 13 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2987 | 6 |
| PCT | 3.8 | 11.0 | 23.4 | 19.5 | 16.9 | 10.8 | 7.1 | 3.2 | 3.3 | .4 | .5 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .2 | .1 | 2.2 | .0 | .0 | .0 | .0 | 2.4 | .4 | .0 | 6.3 | .3 | 5.7 | | .0 | 84.9 |
| NE | .5 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.6 | .5 | .0 | 8.8 | .0 | 7.3 | | .0 | 81.9 |
| E | .0 | .0 | 4.0 | .0 | .0 | .0 | .0 | 4.0 | 3.5 | .0 | 26.6 | 1.2 | 4.6 | | .0 | 60.1 |
| SE | 5.5 | .0 | 5.9 | .0 | .0 | .0 | .0 | 11.4 | 1.6 | .9 | 21.4 | .5 | .9 | | .0 | 63.4 |
| S | 1.8 | .0 | 4.5 | .0 | .0 | .0 | .0 | 6.3 | 1.6 | .0 | 24.2 | 1.6 | 4.1 | | .0 | 62.2 |
| SW | .5 | .3 | 2.8 | .0 | .0 | .0 | .0 | 3.6 | .9 | .0 | 22.0 | .1 | 5.1 | | .0 | 68.3 |
| W | .5 | .4 | 2.9 | .0 | .0 | .0 | .0 | 3.8 | .8 | .0 | 14.3 | .8 | 6.6 | | .0 | 73.7 |
| NW | .3 | .2 | 2.1 | .0 | .0 | .0 | .0 | 2.5 | .7 | * | 7.3 | .4 | 5.2 | | .1 | 83.8 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | 5.6 | .0 | .0 | .0 | .0 | 5.6 | .0 | .0 | 27.8 | 1.4 | 5.6 | | .0 | 59.7 |
| TOT PCT | .5 | .2 | 2.5 | .0 | .0 | .0 | .0 | 3.1 | .7 | * | 9.9 | .5 | 5.4 | | * | 80.4 |
| TOT OBS: | 4961 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .0 | .1 | 1.2 | .0 | .0 | .0 | .0 | 1.2 | .5 | .0 | 9.3 | .3 | 8.5 | | .0 | 80.1 |
| 06&09 | .4 | .1 | 3.4 | .0 | .0 | .0 | .0 | 3.8 | .8 | .1 | 8.6 | .5 | 3.0 | | 2 | 83.1 |
| 12&15 | 1.0 | .2 | 3.9 | .0 | .0 | .0 | .0 | 5.0 | .8 | .0 | 9.4 | .2 | 3.1 | | .0 | 81.4 |
| 18&21 | .5 | .2 | 1.9 | .0 | .0 | .0 | .0 | 2.6 | .7 | .1 | 12.5 | .9 | 7.2 | | .0 | 76.1 |
| TOT PCT | .5 | .2 | 2.6 | .0 | .0 | .0 | .0 | 3.2 | .7 | * | 10.0 | .5 | 5.4 | | * | 80.2 |
| TOT OBS: | 5031 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .3 | 3.4 | 11.0 | 7.4 | .6 | * | | 22.6 | 18.7 | 19.0 | 18.7 | 25.7 | 22.8 | 23.8 | 26.0 | 23.4 | 20.4 |
| NE | .1 | .4 | .4 | .1 | .0 | .0 | | 1.0 | 12.2 | .4 | 1.6 | 1.6 | 1.0 | 1.0 | 1.1 | .8 | .9 |
| E | .2 | .6 | .1 | .0 | .0 | .0 | | .9 | 5.6 | .6 | .9 | .7 | .4 | .8 | 2.0 | 1.5 | .6 |
| SE | .3 | 1.5 | .4 | * | .0 | .0 | | 2.3 | 7.9 | 1.7 | 2.3 | 1.2 | 2.0 | 2.5 | 2.8 | 3.4 | 2.7 |
| S | .4 | 2.3 | 1.0 | .1 | .0 | .0 | | 3.7 | 8.7 | 3.8 | 4.8 | 1.8 | 3.7 | 2.4 | 2.4 | 6.1 | 5.4 |
| SW | .4 | 2.9 | 1.2 | * | .0 | .0 | | 4.5 | 8.5 | 4.3 | 5.3 | 4.0 | 5.4 | 3.4 | 4.8 | 4.6 | 5.7 |
| W | .5 | 6.0 | 4.4 | .7 | * | .0 | | 11.7 | 11.2 | 12.8 | 12.3 | 11.1 | 11.5 | 11.9 | 10.2 | 10.7 | 13.1 |
| NW | .7 | 10.5 | 29.1 | 14.2 | 1.1 | * | | 51.7 | 17.4 | 56.0 | 53.4 | 53.1 | 52.3 | 51.8 | 49.0 | 46.7 | 49.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.7 | | | | | | | 1.7 | .0 | 1.5 | .8 | 1.0 | 1.0 | 2.4 | 1.7 | 2.8 | 1.4 |
| TOT OBS | 244 | 1488 | 2342 | 1218 | 91 | 2 | 5385 | | 15.6 | 923 | 400 | 945 | 421 | 943 | 418 | 831 | 504 |
| TOT PCT | 4.5 | 27.6 | 43.5 | 22.6 | 1.7 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.4 | 7.6 | 10.9 | 2.7 | .1 | | 22.6 | 18.7 | 18.9 | 24.8 | 24.5 | 22.3 |
| NE | .3 | .5 | .2 | * | .0 | | 1.0 | 12.2 | .7 | 1.4 | 1.1 | .8 |
| E | .7 | .2 | * | .0 | .0 | | .9 | 5.6 | .7 | .6 | 1.2 | 1.2 |
| SE | 1.0 | 1.1 | .1 | .0 | .0 | | 2.3 | 7.9 | 1.9 | 1.5 | 2.6 | 3.1 |
| S | 1.3 | 2.1 | .2 | .0 | .0 | | 3.7 | 8.7 | 4.1 | 2.4 | 2.4 | 5.8 |
| SW | 1.7 | 2.6 | .2 | .0 | .0 | | 4.5 | 8.5 | 4.6 | 4.4 | 3.8 | 5.0 |
| W | 2.8 | 7.0 | 1.6 | .2 | .0 | | 11.7 | 11.2 | 12.7 | 11.2 | 11.4 | 11.6 |
| NW | 4.2 | 20.3 | 22.0 | 5.0 | .2 | | 51.7 | 17.4 | 55.2 | 52.8 | 50.9 | 47.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 1.7 | | | | | | 1.7 | .0 | 1.3 | 1.0 | 2.2 | 2.2 |
| TOT OBS | 808 | 2229 | 1904 | 427 | 17 | 5385 | | 15.6 | 1323 | 1366 | 1361 | 1335 |
| TOT PCT | 15.0 | 41.4 | 35.4 | 7.9 | .3 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.3 | 2.4 | 25.1 | 45.0 | 24.5 | 1.7 | .0 | 16.2 | 100.0 | 1323 |
| 06&09 | 1.0 | 3.2 | 24.9 | 44.8 | 24.1 | 2.0 | .1 | 16.2 | 100.0 | 1366 |
| 12&15 | 2.2 | 2.6 | 28.7 | 42.2 | 22.1 | 2.1 | .1 | 15.4 | 100.0 | 1361 |
| 18&21 | 2.2 | 3.1 | 31.8 | 41.9 | 19.8 | 1.0 | .0 | 14.5 | 100.0 | 1335 |
| TOT | 90 | 154 | 1488 | 2342 | 1218 | 91 | 2 | 15.6 | | 5385 |
| PCT | 1.7 | 2.9 | 27.6 | 43.5 | 22.6 | 1.7 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 8.4 | 1.7 | 4.2 | 9.3 | | 4.7 |
| NE | .2 | .1 | .1 | .5 | | 5.5 |
| E | .2 | * | .1 | .7 | | 6.2 |
| SE | .4 | * | .3 | 1.6 | | 6.3 |
| S | .4 | .1 | .5 | 2.5 | | 6.7 |
| SW | .5 | .3 | .6 | 2.5 | | 6.4 |
| W | 3.3 | .8 | 1.7 | 5.2 | | 5.2 |
| NW | 20.5 | 4.5 | 9.2 | 18.0 | | 4.4 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .2 | .1 | .2 | 1.2 | | 6.6 |
| TOT OBS | 1289 | 282 | 639 | 1558 | 3768 | 4.8 |
| TOT PCT | 34.2 | 7.5 | 17.0 | 41.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .6 | .2 | 1.1 | 3.3 | 4.6 | 1.9 | .5 | .1 | .1 | * | 11.2 | |
| NE | * | .0 | .1 | * | .2 | .1 | * | .0 | .0 | .0 | .4 | |
| E | .2 | .1 | * | .1 | .2 | .1 | .0 | .0 | .0 | .0 | .3 | |
| SE | .3 | * | .1 | .2 | .8 | .3 | .1 | * | * | .0 | .6 | |
| S | .5 | .1 | .2 | .5 | .9 | .4 | .1 | .1 | * | * | .7 | |
| SW | .7 | * | .1 | .3 | 1.1 | .5 | .1 | * | * | * | 1.2 | |
| W | .8 | .1 | .4 | 1.0 | 2.2 | 1.4 | .3 | * | * | * | 4.7 | |
| NW | 1.7 | .2 | 2.0 | 5.5 | 9.3 | 4.6 | 1.0 | .2 | .1 | .2 | 27.4 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .3 | .1 | .1 | .3 | .4 | .3 | .1 | .0 | .0 | .0 | .3 | |
| TOT OBS | 192 | 27 | 158 | 422 | 738 | 360 | 76 | 15 | 12 | 13 | 1755 | 3768 |
| TOT PCT | 5.1 | .7 | 4.2 | 11.2 | 19.6 | 9.6 | 2.0 | .4 | .3 | .3 | 46.6 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .6 | .7 | .7 | .7 | .7 | .7 | .7 |
| * OR >5000 | .6 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >3500 | 1.7 | 2.9 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| * OR >2000 | 8.8 | 12.3 | 12.7 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| * OR >1000 | 20.1 | 30.9 | 32.0 | 32.2 | 32.3 | 32.3 | 32.3 | 32.3 |
| * OR >600 | 25.1 | 41.0 | 42.7 | 43.1 | 43.3 | 43.4 | 43.4 | 43.4 |
| * OR >300 | 26.3 | 44.2 | 46.5 | 47.2 | 47.4 | 47.5 | 47.5 | 47.6 |
| * OR >150 | 26.5 | 44.5 | 47.1 | 47.8 | 48.0 | 48.2 | 48.2 | 48.3 |
| * OR > 0 | 26.6 | 45.4 | 48.5 | 49.8 | 50.6 | 51.8 | 52.9 | 53.3 |
| TOTAL | 1012 | 1730 | 1845 | 1894 | 1926 | 1971 | 2015 | 2030 |

TOTAL NUMBER OF OBS: 3807 PCT FREQ NH <5/8: 46.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 24.5 | 7.4 | 7.8 | 3.9 | 2.8 | 3.2 | 4.8 | 7.4 | 33.6 | 4.5 | 3904 |

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1858-1973

ARE. 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | * | * | * | * | .1 | .0 | .0 | .2 | |
| <1/2 | NO PCP | .3 | * | .1 | .2 | .2 | .3 | .6 | 1.0 | .0 | .1 | 2.8 | |
| | TOT % | .3 | * | .1 | .2 | .2 | .4 | .6 | 1.1 | .0 | .1 | 3.0 | |
| | PCP | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | * | |
| 1/2<1 | NO PCP | .2 | * | * | .1 | .1 | .1 | .4 | .6 | .0 | .1 | 1.7 | |
| | TOT % | .2 | * | * | .1 | .1 | .2 | .4 | .6 | .0 | .1 | 1.8 | |
| | PCP | .1 | .0 | * | * | .1 | .0 | .1 | .1 | .0 | .0 | .3 | |
| 1<2 | NO PCP | .2 | .0 | * | * | .2 | .2 | .2 | .4 | .0 | * | 1.2 | |
| | TOT % | .3 | .0 | .1 | * | .2 | .2 | .2 | .5 | .0 | * | 1.5 | |
| | PCP | .1 | .0 | * | .1 | .1 | * | .1 | .3 | .0 | .0 | .6 | |
| 2<5 | NO PCP | .6 | * | .0 | .1 | .1 | .2 | .4 | 1.3 | .0 | .1 | 2.8 | |
| | TOT % | .7 | * | * | .1 | .2 | .2 | .5 | 1.5 | .0 | .1 | 3.5 | |
| | PCP | .3 | * | .0 | .2 | .1 | .1 | .2 | .6 | .0 | .1 | 1.4 | |
| 5<10 | NO PCP | 7.0 | .4 | .3 | .5 | 1.2 | 1.2 | 3.0 | 14.4 | .0 | .4 | 28.4 | |
| | TOT % | 7.3 | .4 | .3 | .7 | 1.3 | 1.2 | 3.2 | 15.0 | .0 | .5 | 29.8 | |
| | PCP | .1 | .0 | .0 | * | * | * | .1 | .2 | .0 | * | .4 | |
| 10+ | NO PCP | 14.3 | .5 | .4 | 1.0 | 1.4 | 2.2 | 6.6 | 33.0 | .0 | .6 | 60.0 | |
| | TOT % | 14.4 | .5 | .4 | 1.0 | 1.4 | 2.2 | 6.7 | 33.1 | .0 | .6 | 60.4 | |
| | TOT OBS | | | | | | | | | | | | 4956 |
| | TOT PCT | 23.1 | 1.0 | .9 | 2.2 | 3.4 | 4.4 | 11.6 | 51.8 | .0 | 1.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .4 | |
| <1/2 | 4-10 | .1 | .0 | .1 | .1 | .2 | .3 | .3 | .5 | .0 | | 1.6 | |
| | 11-21 | .1 | .0 | .0 | * | * | * | .2 | .6 | .0 | | 1.1 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .3 | * | .1 | .2 | .2 | .4 | .6 | 1.2 | .0 | .1 | 3.2 | |
| | 0-3 | * | .0 | .0 | * | .) | * | * | .1 | .0 | .1 | .4 | |
| 1/2<1 | 4-10 | .1 | * | * | * | * | .1 | .1 | .2 | .0 | | .5 | |
| | 11-21 | .1 | .0 | .0 | * | .1 | .1 | .2 | .3 | .0 | | .7 | |
| | 22+ | * | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .2 | * | * | .1 | .2 | .2 | .3 | .6 | .0 | .1 | 1.7 | |
| | 0-3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | |
| 1<2 | 4-10 | .1 | * | .1 | * | .1 | .1 | .2 | .2 | .0 | | .8 | |
| | 11-21 | .1 | .0 | .0 | * | .1 | .1 | .1 | .2 | .0 | | .6 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .2 | .0 | | .3 | |
| | TOT % | .3 | * | .1 | * | .2 | .2 | .2 | .6 | .0 | * | 1.7 | |
| | 0-3 | .0 | .0 | .0 | .0 | * | * | * | .1 | .0 | .1 | .2 | |
| 2<5 | 4-10 | .3 | * | * | .1 | .1 | .2 | .3 | .6 | .0 | | 1.5 | |
| | 11-21 | .5 | * | .0 | * | .1 | .1 | .2 | .9 | .0 | | 1.9 | |
| | 22+ | .2 | * | .0 | .0 | .0 | .0 | * | .4 | .0 | | .6 | |
| | TOT % | .9 | .1 | * | .1 | .2 | .3 | .5 | 1.9 | .0 | .1 | 4.1 | |
| | 0-3 | .1 | * | .1 | .1 | .1 | .1 | .2 | .1 | .0 | .5 | 1.3 | |
| 5<10 | 4-10 | 1.0 | .2 | .2 | .5 | .9 | .8 | 1.6 | 2.9 | .0 | | 8.0 | |
| | 11-21 | 3.5 | .1 | * | .1 | .3 | .3 | 1.1 | 7.2 | .0 | | 12.7 | |
| | 22+ | 2.5 | .1 | .0 | .0 | .0 | * | .2 | 4.4 | .0 | | 7.2 | |
| | TOT % | 7.1 | .4 | .3 | .7 | 1.3 | 1.2 | 3.1 | 14.6 | .0 | .5 | 29.2 | |
| | 0-3 | .1 | .1 | .1 | .1 | .1 | .2 | .3 | .4 | .0 | .6 | 2.0 | |
| 10+ | 4-10 | 1.9 | .2 | .3 | .8 | 1.0 | 1.4 | 3.4 | 6.0 | .0 | | 14.9 | |
| | 11-21 | 6.8 | .2 | * | .2 | .4 | .7 | 2.5 | 16.0 | .0 | | 26.8 | |
| | 22+ | 5.3 | * | .0 | * | * | .0 | .5 | 10.4 | .0 | | 16.2 | |
| | TOT % | 14.1 | .5 | .4 | 1.1 | 1.5 | 2.3 | 6.8 | 32.8 | .0 | .6 | 60.0 | |
| | TOT OBS | | | | | | | | | | | | 5195 |
| | TOT PCT | 22.9 | 1.0 | .9 | 2.2 | 3.6 | 4.5 | 11.6 | 51.8 | .0 | 1.4 | 100.0 | |

JUNE

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.7 | .3 | 3.9 | 9.0 | 18.5 | 9.0 | 2.4 | .1 | .4 | .6 | 47.9 | 52.1 | 947 |
| 06&09 | 4.7 | .6 | 3.7 | 9.2 | 18.2 | 7.8 | 2.1 | .9 | .2 | .3 | 47.1 | 52.9 | 1005 |
| 12&15 | 5.7 | .7 | 3.7 | 12.6 | 20.0 | 10.9 | 1.7 | .4 | .1 | .0 | 55.9 | 44.1 | 938 |
| 18&21 | 6.2 | 1.1 | 5.2 | 13.5 | 20.6 | 11.2 | 2.0 | .6 | .5 | .4 | 61.3 | 38.7 | 966 |
| TOT | 195 | 27 | 159 | 423 | 745 | 373 | 79 | 15 | 12 | 13 | 2043 | 1813 | 3856 |
| PCT | 5.1 | .7 | 4.1 | 11.0 | 19.3 | 9.7 | 2.0 | .4 | .3 | .3 | 53.0 | 47.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.7 | 1.8 | 1.3 | 3.5 | 31.4 | 59.2 | 1298 |
| 06&09 | 3.1 | 1.1 | 1.9 | 3.4 | 26.1 | 64.4 | 1339 |
| 12&15 | 3.3 | 1.5 | 1.6 | 4.3 | 29.3 | 60.0 | 1316 |
| 18&21 | 4.0 | 2.5 | 1.8 | 5.6 | 30.6 | 55.5 | 1313 |
| TOT | 173 | 92 | 87 | 221 | 1544 | 3149 | 5266 |
| PCT | 3.3 | 1.7 | 1.7 | 4.2 | 29.3 | 59.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.7 | 8.3 | 19.0 | 29.8 | 51.1 | 935 |
| 06&09 | 4.7 | 9.6 | 20.4 | 27.6 | 52.0 | 993 |
| 12&15 | 6.0 | 11.1 | 25.2 | 32.2 | 42.6 | 923 |
| 18&21 | 6.5 | 13.8 | 28.6 | 34.2 | 37.2 | 956 |
| TOT | 199 | 407 | 837 | 1177 | 1743 | 3807 |
| PCT | 5.2 | 10.7 | 23.3 | 30.9 | 45.8 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | * | .1 | .0 | .0 | .0 | 4 | .1 |
| 70/74 | .0 | .0 | * | * | .1 | .1 | .0 | .0 | 8 | .2 |
| 65/69 | .0 | .0 | .1 | .3 | .8 | 1.3 | .6 | .3 | 116 | 3.3 |
| 60/64 | .0 | .0 | .1 | .1 | 1.3 | 5.1 | 6.5 | 2.4 | 546 | 15.6 |
| 55/59 | .0 | .0 | * | .1 | .9 | 9.5 | 33.6 | 17.5 | 2162 | 61.6 |
| 50/54 | .0 | .0 | .0 | * | .2 | 1.2 | 7.8 | 9.9 | 672 | 19.1 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 2 | .1 |
| TOTAL | 0 | 0 | 7 | 21 | 119 | 602 | 1704 | 1057 | 3510 | 100.0 |
| PCT | .0 | .0 | .2 | .6 | 3.4 | 17.2 | 48.5 | 30.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | .0 | .0 | .0 | * | * | * | * | .0 | .0 |
| .0 | .0 | .0 | .0 | * | * | .1 | .1 | .0 | .0 |
| .6 | * | .1 | * | .2 | .2 | .5 | 1.6 | .0 | .1 |
| 3.9 | .2 | .2 | .3 | .5 | 1.1 | 2.3 | 6.8 | .0 | .2 |
| 16.0 | .7 | .5 | 1.6 | 2.2 | 2.3 | 6.0 | 31.6 | .0 | .8 |
| 3.6 | .2 | .2 | .4 | .6 | .8 | 2.4 | 10.7 | .0 | .3 |
| * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| 24.1 | 1.1 | .9 | 2.3 | 3.5 | 4.4 | 11.4 | 50.8 | .0 | 1.5 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 77 | 70 | 66 | 58 | 54 | 52 | 46 | 58.4 | 1335 |
| 06&09 | 78 | 69 | 63 | 56 | 52 | 50 | 46 | 56.6 | 1362 |
| 12&15 | 77 | 64 | 61 | 55 | 52 | 50 | 46 | 55.9 | 1371 |
| 18&21 | 76 | 69 | 65 | 57 | 53 | 51 | 48 | 58.1 | 1344 |
| TOT | 78 | 68 | 64 | 57 | 52 | 51 | 46 | 57.3 | 5412 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.0 | 4.9 | 22.7 | 49.8 | 21.6 | 84 | 921 |
| 06&09 | .0 | .1 | 1.6 | 12.7 | 50.3 | 35.4 | 87 | 885 |
| 12&15 | .0 | .3 | 2.5 | 12.8 | 47.2 | 37.2 | 87 | 884 |
| 18&21 | .0 | 1.7 | 4.6 | 20.1 | 46.0 | 27.6 | 85 | 870 |
| TOT | 0 | 28 | 121 | 609 | 1721 | 1081 | 86 | 3560 |

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | 2 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | 3 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .1 | * | .2 | * | .1 | .0 | 19 | .1 | .3 |
| 11/13 | .0 | .0 | * | .1 | .3 | .3 | .2 | * | .0 | 41 | .1 | .8 |
| 9/10 | .0 | .0 | .3 | .3 | .5 | .5 | .0 | * | .0 | 73 | .1 | 1.5 |
| 7/8 | .0 | * | .3 | 1.1 | 1.1 | .5 | .1 | * | .0 | 147 | .1 | 3.0 |
| 6 | .0 | .0 | .4 | 1.0 | .6 | * | .0 | * | .0 | 96 | .3 | 1.8 |
| 5 | .0 | .0 | .5 | 1.9 | 1.1 | .3 | * | * | * | 184 | .4 | 3.5 |
| 4 | .0 | * | 1.4 | 2.9 | 2.0 | .3 | * | .0 | * | 310 | .5 | 6.0 |
| 3 | .0 | .1 | 2.3 | 3.7 | .6 | .2 | .0 | .0 | .0 | 326 | .7 | 6.2 |
| 2 | .0 | .2 | 3.9 | 5.8 | 1.6 | .2 | .0 | .0 | .0 | 552 | 1.2 | 10.4 |
| 1 | .0 | .3 | 5.3 | 4.3 | .6 | .1 | * | * | .0 | 506 | 1.1 | 9.6 |
| 0 | .0 | .6 | 6.7 | 6.2 | 1.3 | .2 | .0 | * | .0 | 707 | 1.4 | 13.6 |
| -1 | .0 | .7 | 6.1 | 3.5 | .5 | .1 | * | .0 | .0 | 516 | 1.3 | 9.6 |
| -2 | .0 | 1.1 | 6.6 | 2.6 | .6 | .1 | .0 | .0 | .0 | 516 | 1.0 | 9.9 |
| -3 | .0 | .4 | 3.3 | 1.6 | .5 | .2 | .0 | .0 | .0 | 288 | .5 | 5.6 |
| -4 | * | .6 | 2.1 | .9 | .3 | * | .0 | .0 | .0 | 189 | .5 | 3.4 |
| -5 | * | .2 | 1.1 | .5 | .3 | * | .0 | .0 | .0 | 101 | .2 | 1.9 |
| -6 | .0 | .3 | .6 | .5 | .0 | .0 | .0 | .0 | .0 | 64 | .2 | 1.1 |
| -7/-8 | * | .3 | .6 | .4 | * | .0 | .0 | .0 | .0 | 61 | .2 | 1.1 |
| -9/-10 | .1 | * | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 20 | * | .4 |
| -11/-13 | .0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | 13 | .1 | .2 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 8 | 228 | 1974 | 1776 | 560 | 151 | 23 | 13 | 3 | 4736 | 467 | 4269 |
| PCT | .2 | 4.8 | 41.7 | 37.5 | 11.8 | 3.2 | .5 | .3 | .1 | 100.0 | 9.9 | 90.1 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | 1.4 | 1.6 | .0 | .0 | .0 | 3.0 |
| 3-4 | .0 | 1.3 | 4.0 | 1.3 | .0 | .0 | 6.6 |
| 5-6 | .1 | .3 | 3.0 | 1.3 | * | .0 | 4.7 |
| 7 | .0 | .2 | 1.9 | 1.7 | .1 | .0 | 3.8 |
| 8-9 | .0 | .0 | .4 | 1.1 | .1 | .0 | 1.6 |
| 10-11 | .0 | .0 | .4 | .4 | .1 | .0 | .8 |
| 12 | .0 | .0 | .1 | .2 | .1 | .0 | .4 |
| 13-16 | .0 | .0 | * | .3 | .1 | .0 | .4 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 3.5 | 11.3 | 6.4 | .4 | .0 | 22.0 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .0 | * | .1 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | * | .3 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .1 | .6 | .0 | .0 | .0 | .7 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .0 | .2 | .1 | .0 | .0 | .0 | .2 |
| 3-4 | * | .4 | .0 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.0 | .1 | .0 | .0 | .0 | 1.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .8 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .0 | .8 | .2 | .0 | .0 | .0 | 1.0 |
| 3-4 | * | .2 | .2 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.8 | .4 | .0 | .0 | .0 | 2.5 |

PERIOD: (OVER-ALL) 1963-1973 JUNE AREA 0035 SAN FRANCISCO

TABLE 18 (CONT) 36.9N 123.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | .7 | .6 | .0 | .0 | .0 | 1.4 |
| 3-4 | * | .5 | .2 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.4 | .8 | .1 | .0 | .0 | 3.6 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.1 | .3 | .0 | .0 | .0 | 1.6 |
| 1-2 | .0 | .8 | .3 | .0 | .0 | .0 | 1.0 |
| 3-4 | .1 | .3 | .2 | .0 | .0 | .0 | .5 |
| 5-6 | .1 | .2 | .0 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.3 | .9 | .0 | .0 | .0 | 3.6 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 2.0 | .3 | .0 | .0 | .0 | 2.5 |
| 1-2 | * | 2.5 | 2.3 | .0 | .0 | .0 | 4.9 |
| 3-4 | .0 | 1.3 | 1.3 | .3 | .0 | .0 | 3.0 |
| 5-6 | .0 | .3 | .3 | * | .0 | .0 | .7 |
| 7 | .0 | .1 | .3 | .1 | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 6.2 | 4.7 | .4 | .0 | .0 | 11.6 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .5 | 2.4 | .3 | .0 | .0 | .0 | 3.3 | |
| 1-2 | .2 | 4.1 | 4.5 | .0 | .0 | .0 | 8.8 | |
| 3-4 | .0 | 3.1 | 8.1 | 3.3 | .0 | .0 | 14.6 | |
| 5-6 | .0 | .6 | 6.7 | 2.4 | .1 | .0 | 9.8 | |
| 7 | .0 | .3 | 4.4 | 3.1 | .3 | .0 | 8.2 | |
| 8-9 | .0 | .1 | 1.3 | 2.2 | .1 | .0 | 3.7 | |
| 10-11 | .0 | .0 | .4 | 1.7 | .2 | .0 | 2.3 | |
| 12 | .0 | .0 | * | .6 | .1 | .1 | .8 | |
| 13-16 | .0 | .0 | * | .6 | .0 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .7 | 10.6 | 25.9 | 13.9 | .9 | .1 | 52.1 | 97.2 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.1 | 8.2 | .9 | .0 | .0 | .0 | 13.2 | |
| 1-2 | .4 | 10.5 | 9.6 | .0 | .0 | .0 | 20.5 | |
| 3-4 | .4 | 7.1 | 14.3 | 5.0 | .0 | .0 | 26.9 | |
| 5-6 | .1 | 1.6 | 10.1 | 3.8 | .2 | .0 | 15.8 | |
| 7 | .0 | .6 | 6.7 | 4.9 | .4 | .0 | 12.5 | |
| 8-9 | .0 | .1 | 1.9 | 3.4 | .2 | .0 | 5.6 | |
| 10-11 | .0 | .0 | .9 | 2.0 | .3 | .0 | 3.2 | |
| 12 | .0 | .0 | .1 | .8 | .2 | .1 | 1.2 | |
| 13-16 | .0 | .0 | .1 | .9 | .1 | .0 | 1.1 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 5.0 | 28.1 | 44.7 | 20.8 | 1.3 | .1 | 100.0 | 1618 |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 9.3 | 17.9 | 7.8 | 3.8 | 1.7 | .5 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1487 | 4 |
| 6-7 | * | 1.0 | 7.4 | 7.0 | 5.7 | 3.1 | 1.8 | .5 | .7 | .3 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 953 | 6 |
| 8-9 | * | .3 | 2.0 | 2.3 | 4.0 | 3.1 | 1.8 | .9 | 1.0 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 538 | 7 |
| 10-11 | .0 | .5 | .5 | .5 | .8 | 1.0 | 1.0 | .5 | .5 | .2 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 192 | 8 |
| 12-13 | .0 | .0 | .3 | .3 | .3 | .2 | .3 | .4 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 70 | 8 |
| >13 | .0 | .0 | .0 | .1 | .2 | .1 | .1 | .1 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 28 | 10 |
| INDET | 3.3 | .7 | .6 | .3 | .4 | .3 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 205 | 2 |
| TOTAL | 164 | 412 | 1000 | 631 | 528 | 330 | 196 | 92 | 87 | 25 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3473 | 5 |
| PCT | 4.7 | 11.9 | 28.8 | 18.2 | 15.2 | 9.5 | 5.6 | 2.6 | 2.5 | .7 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .3 | * | 2.1 | .0 | .0 | .0 | .0 | 2.4 | .8 | .1 | 10.8 | .3 | 5.6 | .1 | 80.0 |
| NE | 1.5 | .8 | 1.9 | .0 | .0 | .0 | .0 | 4.2 | .0 | .0 | 11.1 | .0 | 3.4 | .0 | 81.2 |
| E | 6.3 | 1.6 | 2.4 | .0 | .0 | .0 | .0 | 10.3 | 3.2 | .0 | 19.8 | .0 | 6.3 | .0 | 60.3 |
| SE | .3 | 1.1 | 3.7 | .0 | .0 | .0 | .0 | 5.1 | .3 | .0 | 21.1 | .0 | 5.7 | .0 | 67.8 |
| S | .3 | .0 | 2.4 | .0 | .0 | .0 | .0 | 2.7 | .3 | .0 | 26.6 | .4 | 6.8 | .0 | 63.1 |
| SW | .0 | .4 | 5.9 | .0 | .0 | .0 | .0 | 6.3 | .0 | .4 | 28.4 | .6 | 5.3 | .0 | 59.2 |
| W | .2 | .0 | 1.8 | .0 | .0 | .0 | .0 | 1.9 | .0 | .1 | 21.0 | 1.1 | 6.7 | .0 | 69.2 |
| NW | .3 | .1 | 1.8 | .0 | .0 | .0 | .0 | 2.1 | .4 | * | 12.4 | .4 | 5.6 | .1 | 79.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .8 | .8 | 3.4 | .0 | .0 | .0 | .0 | 5.1 | .8 | .0 | 33.9 | 3.4 | 6.8 | .0 | 50.0 |
| TOT PCT | .3 | .1 | 2.2 | .0 | .0 | .0 | .0 | 2.6 | .4 | .1 | 15.2 | .5 | 5.8 | .1 | 75.3 |
| TOT OBS: | 4969 | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .2 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.4 | .3 | .1 | 12.5 | .7 | 7.6 | .2 | 77.1 |
| 06&09 | .3 | .2 | 2.0 | .0 | .0 | .0 | .0 | 2.5 | .3 | .2 | 13.3 | .3 | 4.1 | .1 | 78.8 |
| 12&15 | .6 | .3 | 4.4 | .0 | .0 | .0 | .0 | 5.1 | .5 | .0 | 17.7 | .4 | 3.6 | .1 | 72.7 |
| 18&21 | .2 | .0 | 1.2 | .0 | .0 | .0 | .0 | 1.3 | .7 | .0 | 17.4 | .5 | 7.6 | .0 | 72.5 |
| TOT PCT | .3 | .1 | 2.2 | .0 | .0 | .0 | .0 | 2.6 | .4 | .1 | 15.4 | .5 | 5.7 | .1 | 75.2 |
| TOT OBS: | 5012 | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .5 | 4.0 | 11.9 | 6.6 | .2 | .0 | | 23.2 | 17.4 | 20.6 | 17.5 | 28.4 | 22.1 | 23.9 | 23.5 | 24.2 | 21.6 |
| NE | .2 | .5 | .4 | .1 | * | .0 | | 1.2 | 11.6 | .4 | 1.0 | 1.7 | .6 | 1.7 | 2.1 | 1.5 | .6 |
| E | .2 | .3 | .1 | .0 | .0 | .0 | | .6 | 6.7 | .7 | .9 | .1 | .1 | .5 | 1.4 | 1.1 | .5 |
| SE | .2 | 1.1 | .4 | .0 | .0 | .0 | | 1.8 | 7.9 | 1.1 | .9 | .9 | 2.0 | 1.4 | 3.5 | 3.0 | 2.1 |
| S | .6 | 3.0 | .8 | .0 | .0 | .0 | | 4.4 | 7.6 | 4.4 | 5.1 | 2.3 | 3.9 | 3.7 | 4.4 | 5.6 | 7.6 |
| SW | .7 | 3.5 | 1.2 | * | .0 | .0 | | 5.4 | 8.0 | 5.7 | 7.2 | 4.1 | 4.4 | 4.7 | 4.7 | 4.1 | 10.0 |
| W | .8 | 6.3 | 3.8 | .4 | * | .0 | | 11.4 | 10.1 | 13.8 | 13.4 | 9.8 | 9.6 | 10.7 | 11.1 | 12.0 | 10.3 |
| NW | 1.1 | 10.8 | 26.5 | 10.3 | .4 | .0 | | 49.1 | 16.1 | 51.7 | 52.3 | 50.2 | 53.1 | 49.2 | 46.5 | 45.2 | 45.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.8 | | | | | | | 2.8 | .0 | 1.7 | 1.7 | 2.5 | 4.1 | 4.3 | 2.9 | 3.2 | 2.3 |
| TOT OBS | 384 | 1608 | 2458 | 945 | 40 | 0 | 5435 | | 14.2 | 961 | 408 | 893 | 394 | 962 | 442 | 847 | 528 |
| TOT PCT | 7.1 | 29.6 | 45.2 | 17.4 | .7 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.6 | 8.9 | 10.9 | 1.8 | * | | 23.2 | 17.4 | 19.6 | 26.5 | 23.8 | 23.2 |
| NE | .3 | .7 | .1 | .1 | .0 | | 1.2 | 11.6 | .6 | 1.4 | 1.8 | 1.2 |
| E | .4 | .2 | * | .0 | .0 | | .6 | 6.7 | .8 | .1 | .8 | .9 |
| SE | .8 | 1.0 | * | .0 | .0 | | 1.8 | 7.9 | 1.0 | 1.3 | 2.0 | 2.7 |
| S | 1.9 | 2.5 | .1 | .0 | .0 | | 4.4 | 7.6 | 4.6 | 2.8 | 3.9 | 6.4 |
| SW | 2.3 | 2.8 | .3 | * | .0 | | 5.4 | 8.0 | 6.1 | 4.2 | 4.7 | 6.4 |
| W | 3.2 | 6.8 | 1.3 | .1 | .0 | | 11.4 | 10.1 | 13.7 | 9.7 | 10.8 | 11.4 |
| NW | 4.5 | 21.7 | 20.3 | 2.6 | * | | 49.1 | 16.1 | 51.9 | 51.1 | 48.3 | 45.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.8 | | | | | | 2.8 | .0 | 1.7 | 3.0 | 3.8 | 2.8 |
| TOT OBS | 965 | 2424 | 1792 | 251 | 3 | 5435 | | 14.2 | 1369 | 1287 | 1404 | 1375 |
| TOT PCT | 17.8 | 44.6 | 33.0 | 4.6 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 1.7 | 3.8 | 28.0 | 47.7 | 18.3 | .5 | .0 | 14.6 | 100.0 | 1369 |
| 06&09 | 3.0 | 3.7 | 24.8 | 46.2 | 21.4 | .9 | .0 | 15.2 | 100.0 | 1287 |
| 12&15 | 3.8 | 4.8 | 32.0 | 42.2 | 16.3 | .9 | .0 | 13.6 | 100.0 | 1404 |
| 18&21 | 2.8 | 4.6 | 33.2 | 44.9 | 13.7 | .7 | .0 | 13.4 | 100.0 | 1375 |
| TOT | 194 | 230 | 1608 | 2458 | 945 | 40 | 0 | 14.2 | | 5435 |
| PCT | 2.8 | 4.2 | 29.6 | 45.2 | 17.4 | .7 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 7.8 | 1.1 | 3.5 | 12.5 | | 5.2 |
| NE | .3 | * | .2 | .7 | | 5.7 |
| E | .1 | .0 | .1 | .4 | | 6.6 |
| SE | .2 | .1 | .2 | 1.2 | | 6.8 |
| S | .2 | .2 | .6 | 3.1 | | 7.2 |
| SW | .8 | .3 | .4 | 3.5 | | 6.4 |
| W | 2.8 | .5 | 1.1 | 7.5 | | 5.8 |
| NW | 17.6 | 2.2 | 4.9 | 23.0 | | 4.8 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .3 | .1 | .2 | 2.1 | | 6.8 |
| TOT OBS | 1091 | 167 | 410 | 1961 | 3629 | 5.3 |
| TOT PCT | 30.1 | 4.6 | 11.3 | 54.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .8 | .4 | 1.8 | 4.0 | 5.9 | 1.8 | .5 | .1 | * | * | 9.5 | |
| NE | * | * | .1 | .1 | .4 | .3 | * | .0 | * | .0 | .4 | |
| E | .1 | * | .1 | .1 | .1 | .1 | * | .0 | .0 | .0 | .1 | |
| SE | .1 | * | .2 | .2 | .7 | .1 | * | .0 | .0 | .0 | .3 | |
| S | .3 | .1 | .3 | .9 | 1.5 | .4 | * | .1 | .1 | .0 | .5 | |
| SW | .7 | .1 | .5 | .7 | 1.3 | .4 | .1 | * | * | .1 | 1.2 | |
| W | 1.1 | .2 | .8 | 1.4 | 3.4 | 1.0 | .2 | .1 | .0 | .1 | 3.7 | |
| NW | 2.1 | .7 | 2.8 | 7.1 | 10.4 | 2.9 | .7 | .1 | .1 | .1 | 20.7 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | .1 | .1 | .5 | .8 | .2 | .1 | * | .0 | .0 | .5 | |
| TOT OBS | 204 | 55 | 242 | 543 | 884 | 266 | 61 | 18 | 10 | 11 | 1335 | 3629 |
| TOT PCT | 5.6 | 1.5 | 6.7 | 15.0 | 24.4 | 7.3 | 1.7 | .5 | .3 | .3 | 36.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) = OR >10 | = OR >5 | = OR >2 | = OR >1 | = OR >1/2 | = OR >1/4 | = OR >50YD | = OR >0 |
|---|---|---|---|---|---|---|---|---|
| = OR >6500 | .4 | .5 | .6 | .6 | .6 | .6 | .6 | .6 |
| = OR >5000 | .9 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| = OR >3500 | 2.1 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| = OR >2000 | 6.4 | 9.6 | 10.0 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| = OR >1000 | 18.5 | 32.3 | 34.0 | 34.3 | 34.5 | 34.5 | 34.5 | 34.5 |
| = OR >600 | 24.0 | 45.6 | 48.7 | 49.1 | 49.3 | 49.4 | 49.4 | 49.4 |
| = OR >300 | 25.4 | 50.5 | 55.1 | 55.6 | 55.8 | 56.0 | 56.0 | 56.0 |
| = OR >150 | 25.7 | 51.5 | 56.5 | 57.1 | 57.4 | 57.5 | 57.6 | 57.6 |
| = OR > 0 | 25.9 | 52.4 | 58.6 | 59.9 | 61.3 | 62.2 | 63.0 | 63.2 |
| TOTAL | 942 | 1908 | 2135 | 2182 | 2234 | 2267 | 2294 | 2302 |

TOTAL NUMBER OF OBS: 3642 PCT FREQ NH <5/8: 36.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 21.2 | 5.8 | 5.1 | 2.3 | 1.9 | 2.2 | 4.1 | 5.7 | 46.9 | 4.7 | 3782 |

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | .0 | .1 | |
| <1/2 | NO PCP | .5 | * | .1 | .1 | .1 | .1 | .5 | 1.0 | .0 | .2 | 2.7 | |
| | TOT % | .5 | * | .1 | .1 | .1 | .1 | .5 | 1.1 | .0 | .2 | 2.8 | |
| | PCP | * | .0 | .0 | * | .0 | .1 | .0 | * | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .5 | .1 | .0 | * | .1 | .6 | .6 | 1.1 | .0 | .1 | 3.1 | |
| | TOT % | .5 | .1 | .0 | .1 | .1 | .7 | .6 | 1.1 | .0 | .1 | 3.3 | |
| | PCP | * | .0 | .0 | .0 | * | .1 | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .1 | .0 | .0 | .1 | .3 | .2 | .3 | .7 | .0 | .1 | 1.8 | |
| | TOT % | .2 | .0 | .0 | .1 | .3 | .3 | .3 | .7 | .0 | .1 | 1.9 | |
| | PCP | .1 | * | * | .0 | * | * | * | .2 | .0 | * | .5 | |
| 2<5 | NO PCP | 1.0 | .1 | .1 | .1 | .3 | .5 | .9 | 2.4 | .0 | .3 | 5.7 | |
| | TOT % | 1.1 | .1 | .1 | .1 | .3 | .5 | .9 | 2.6 | .0 | .4 | 6.2 | |
| | PCP | .3 | * | * | .1 | .1 | .1 | .1 | .6 | .0 | .1 | 1.4 | |
| 5<10 | NO PCP | 8.3 | .4 | .2 | .9 | 2.2 | 2.2 | 3.7 | 15.5 | .0 | .8 | 34.1 | |
| | TOT % | 8.6 | .4 | .3 | 1.0 | 2.2 | 2.3 | 3.8 | 16.1 | .0 | .8 | 35.4 | |
| | PCP | .1 | * | * | .0 | .0 | * | * | .2 | .0 | * | .3 | |
| 10+ | NO PCP | 12.9 | .7 | .2 | .5 | 1.4 | 1.5 | 5.2 | 26.9 | .0 | .8 | 50.1 | |
| | TOT % | 13.0 | .7 | .2 | .5 | 1.4 | 1.5 | 5.2 | 27.1 | .0 | .8 | 50.5 | |
| | TOT OBS | | | | | | | | | | | | 4964 |
| | TOT PCT | 23.9 | 1.3 | .6 | 1.8 | 4.5 | 5.5 | 11.4 | 48.7 | .0 | 2.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .1 | * | * | * | * | * | .1 | .0 | .3 | .6 | |
| <1/2 | 4-10 | .1 | .0 | * | * | .1 | .1 | .4 | .4 | .0 | | 1.2 | |
| | 11-21 | .3 | * | .0 | .0 | .0 | * | .1 | .6 | .0 | | 1.0 | |
| | 22+ | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | | .1 | |
| | TOT % | .5 | .1 | * | .1 | .1 | .2 | .5 | 1.1 | .0 | .3 | 2.9 | |
| | 0-3 | * | .0 | .0 | * | * | .2 | * | * | .0 | .1 | .4 | |
| 1/2<1 | 4-10 | .3 | * | .0 | * | .1 | .4 | .3 | .4 | .0 | | 1.6 | |
| | 11-21 | .2 | * | .0 | .0 | .0 | .2 | .2 | .5 | .0 | | 1.1 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .5 | .1 | .0 | .1 | .1 | .7 | .6 | 1.1 | .0 | .1 | 3.3 | |
| | 0-3 | .0 | .0 | .0 | .0 | * | * | * | * | .0 | .1 | .2 | |
| 1<2 | 4-10 | .1 | .0 | .0 | * | .2 | .2 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | .1 | .0 | .0 | * | * | * | .1 | .4 | .0 | | .8 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | TOT % | .2 | .0 | .0 | .1 | .3 | .3 | .4 | .9 | .0 | .1 | 2.2 | |
| | 0-3 | .1 | * | * | * | .1 | * | .1 | .1 | .0 | .4 | .8 | |
| 2<5 | 4-10 | .3 | .1 | .1 | .1 | .2 | .4 | .6 | .9 | .0 | | 2.6 | |
| | 11-21 | .6 | .1 | .0 | .0 | .1 | .2 | .2 | 1.7 | .0 | | 2.8 | |
| | 22+ | .4 | .0 | .0 | .0 | .0 | .0 | * | .4 | .0 | | .9 | |
| | TOT % | 1.4 | .2 | .1 | .1 | .4 | .6 | 1.0 | 3.1 | .0 | .4 | 7.2 | |
| | 0-3 | .2 | * | .1 | .1 | .3 | .2 | .2 | .3 | .0 | .9 | 2.2 | |
| 5<10 | 4-10 | 1.4 | .2 | .1 | .6 | 1.4 | 1.4 | 2.2 | 3.5 | .0 | | 10.8 | |
| | 11-21 | 4.4 | .1 | .1 | .3 | .5 | .5 | 1.2 | 8.2 | .0 | | 15.2 | |
| | 22+ | 2.4 | * | .0 | .0 | .0 | * | .1 | 3.8 | .0 | | 6.4 | |
| | TOT % | 8.4 | .3 | .2 | .9 | 2.1 | 2.2 | 3.8 | 15.7 | .0 | .9 | 34.6 | |
| | 0-3 | .2 | .1 | .1 | .1 | .1 | .2 | .3 | .5 | .0 | .9 | 2.5 | |
| 10+ | 4-10 | 1.8 | .2 | .1 | .3 | .9 | .9 | 2.5 | 5.1 | .0 | | 11.9 | |
| | 11-21 | 6.6 | .3 | * | .1 | .3 | .4 | 2.1 | 15.2 | .0 | | 25.0 | |
| | 22+ | 4.0 | .1 | .0 | .0 | .0 | .0 | .3 | 6.1 | .0 | | 10.5 | |
| | TOT % | 12.6 | .7 | .2 | .5 | 1.3 | 1.5 | 5.2 | 26.9 | .0 | .9 | 49.9 | |
| | TOT OBS | | | | | | | | | | | | 5199 |
| | TOT PCT | 23.6 | 1.3 | .6 | 1.7 | 4.4 | 5.4 | 11.4 | 48.9 | .0 | 2.6 | 100.0 | |

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1995 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.6 | 1.5 | 5.3 | 12.1 | 25.9 | 8.0 | 1.8 | .8 | .3 | .2 | 59.5 | 40.5 | 932 |
| 06&09 | 5.6 | 1.0 | 5.9 | 11.8 | 20.3 | 7.1 | 1.2 | .3 | .1 | .0 | 53.2 | 46.8 | 917 |
| 12&15 | 7.6 | 1.6 | 7.1 | 17.8 | 24.6 | 7.2 | 1.6 | .6 | .2 | .5 | 68.7 | 31.3 | 886 |
| 18&21 | 5.7 | 2.2 | 8.1 | 17.3 | 25.8 | 6.8 | 2.0 | .5 | .4 | .5 | 69.4 | 30.6 | 948 |
| TOT | 206 | 58 | 243 | 543 | 890 | 268 | 61 | 20 | 10 | 11 | 2310 | 1373 | 3683 |
| PCT | 5.6 | 1.6 | 6.6 | 14.7 | 24.2 | 7.3 | 1.7 | .5 | .3 | .3 | 62.7 | 37.3 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 2.6 | 3.4 | 2.2 | 6.3 | 33.4 | 52.2 | 1294 |
| 06&09 | 3.0 | 2.8 | 2.2 | 6.3 | 31.9 | 53.8 | 1247 |
| 12&15 | 3.1 | 4.4 | 2.1 | 7.5 | 36.1 | 46.8 | 1366 |
| 18&21 | 3.2 | 2.9 | 2.3 | 8.6 | 36.2 | 46.7 | 1336 |
| TOT | 157 | 178 | 116 | 376 | 1807 | 2609 | 5243 |
| PCT | 3.0 | 3.4 | 2.2 | 7.2 | 34.5 | 49.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.7 | 10.8 | 25.4 | 35.1 | 39.6 | 927 |
| 06&09 | 5.5 | 12.6 | 27.1 | 27.1 | 45.9 | 905 |
| 12&15 | 7.7 | 16.9 | 36.8 | 33.1 | 30.1 | 875 |
| 18&21 | 5.8 | 16.9 | 37.9 | 33.9 | 28.2 | 935 |
| TOT | 205 | 520 | 1156 | 1177 | 1309 | 3642 |
| PCT | 5.6 | 14.3 | 31.7 | 32.3 | 35.9 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | * |
| 75/79 | .0 | .0 | * | .1 | .1 | .1 | .0 | .0 | 10 | .3 |
| 70/74 | .0 | .0 | .0 | .2 | .2 | .3 | .1 | * | 26 | .7 |
| 65/69 | .0 | .0 | .0 | .1 | .5 | 1.2 | 1.2 | .6 | 127 | 3.6 |
| 60/64 | .0 | .0 | .0 | .1 | 1.3 | 7.6 | 17.2 | 5.1 | 1098 | 31.3 |
| 55/59 | .0 | .0 | .0 | .0 | .4 | 4.0 | 28.3 | 21.6 | 1907 | 54.3 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | * | 2.8 | 6.8 | 338 | 9.6 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | * | .1 | .1 | 5 | .1 |
| TOTAL | 0 | 0 | 1 | 21 | 83 | 464 | 1744 | 1199 | 3512 | 100.0 |
| PCT | .0 | .0 | * | .6 | 2.4 | 13.2 | 49.7 | 34.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | * | * | .0 | .0 | .0 | .0 |
| * | .0 | .0 | .0 | * | .1 | * | * | .0 | .0 |
| * | .0 | .0 | .0 | .2 | .2 | .1 | .3 | .0 | * |
| .7 | .1 | * | .1 | .3 | .2 | .4 | 1.8 | .0 | .1 |
| 8.3 | .6 | .2 | .5 | 1.3 | 1.2 | 3.7 | 14.7 | .0 | .8 |
| 13.0 | .5 | .3 | 1.1 | 1.8 | 2.1 | 5.5 | 28.7 | .0 | 1.4 |
| 1.7 | .1 | .1 | .2 | .5 | .7 | 1.3 | 4.4 | .0 | .6 |
| .0 | .0 | .0 | .0 | * | .1 | .0 | * | .0 | .0 |
| 23.8 | 1.3 | .6 | 1.9 | 4.1 | 4.6 | 11.0 | 50.0 | .0 | 2.8 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 77 | 71 | 66 | 59 | 55 | 52 | 50 | 59.7 | 1372 |
| 06&09 | 77 | 65 | 63 | 58 | 53 | 52 | 49 | 58.0 | 1290 |
| 12&15 | 79 | 66 | 62 | 57 | 53 | 51 | 49 | 57.2 | 1413 |
| 18&21 | 80 | 72 | 66 | 59 | 54 | 52 | 50 | 59.5 | 1381 |
| TOT | 80 | 70 | 64 | 58 | 53 | 52 | 49 | 58.6 | 5456 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.3 | 2.7 | 20.6 | 53.5 | 21.9 | 84 | 890 |
| 06&09 | .0 | .2 | 1.8 | 9.2 | 48.2 | 40.6 | 88 | 828 |
| 12&15 | .0 | .0 | 1.1 | 6.6 | 48.7 | 43.7 | 89 | 927 |
| 18&21 | .0 | .9 | 3.8 | 16.6 | 48.0 | 30.6 | 86 | 891 |
| TOT | 0 | 22 | 83 | 468 | 1734 | 1209 | 87 | 3536 |

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0030 SAN FRANCISCO
36.9N 123.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | * | .0 | .2 | .1 | * | 15 | * | .3 |
| 11/13 | .0 | .0 | .0 | .2 | .4 | * | * | .1 | 34 | .1 | .7 |
| 9/10 | .0 | .0 | .3 | .4 | .3 | .2 | * | .0 | 55 | .1 | 1.1 |
| 7/8 | .0 | * | .9 | 1.2 | .6 | .2 | .1 | .0 | 137 | .2 | 2.8 |
| 6 | .0 | .1 | 1.0 | 1.1 | .4 | .1 | .0 | .0 | 121 | .3 | 2.3 |
| 5 | .0 | .4 | 1.5 | 1.4 | .6 | .2 | * | .0 | 189 | .5 | 3.6 |
| 4 | * | .7 | 2.5 | 2.6 | .4 | .1 | * | .0 | 298 | .6 | 5.8 |
| 3 | * | .9 | 3.3 | 2.0 | .5 | * | .0 | .0 | 315 | .6 | 6.2 |
| 2 | .1 | 1.9 | 5.5 | 3.5 | .3 | * | .0 | * | 531 | 1.6 | 9.9 |
| 1 | .1 | 3.1 | 5.5 | 2.0 | .1 | .0 | .0 | * | 500 | 1.7 | 9.1 |
| 0 | .2 | 3.5 | 8.5 | 3.1 | * | * | * | .0 | 713 | 2.2 | 13.2 |
| -1 | .4 | 3.5 | 5.4 | 1.4 | * | .0 | .0 | .0 | 499 | 2.0 | 8.7 |
| -2 | .3 | 3.2 | 4.7 | 1.0 | * | .0 | * | .0 | 431 | 1.8 | 7.5 |
| -3 | .3 | 2.1 | 2.7 | .5 | * | .0 | .0 | .0 | 262 | 1.3 | 4.3 |
| -4 | .1 | 1.6 | 1.8 | .4 | * | .0 | .0 | .0 | 183 | .6 | 3.3 |
| -5 | .2 | 1.1 | 1.3 | .2 | .0 | * | .0 | .0 | 130 | .5 | 2.3 |
| -6 | .1 | .7 | .9 | .1 | * | .0 | .0 | .0 | 81 | .4 | 1.4 |
| -7/-8 | .2 | .9 | .8 | * | * | .0 | .0 | .0 | 91 | .3 | 1.6 |
| -9/-10 | .0 | .3 | .3 | * | .0 | .0 | .0 | .0 | 33 | .1 | .6 |
| -11/-13 | * | .2 | .1 | .0 | .0 | .0 | .0 | .0 | 17 | .2 | .2 |
| -14/-16 | * | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 5 | .0 | .1 |
| -17/-19 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * | .0 |
| TOTAL | 93 | 1130 | 2192 | 988 | 172 | 45 | 14 | 8 | 4642 | 698 | 3944 |
| PCT | 2.0 | 24.3 | 47.2 | 21.3 | 3.7 | 1.0 | .3 | .2 | 100.0 | 15.0 | 85.0 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | * | .4 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | 1.2 | 1.3 | .0 | .0 | .0 | 2.5 |
| 3-4 | .0 | 1.2 | 4.4 | 1.0 | .0 | .0 | 6.6 |
| 5-6 | .0 | .5 | 4.0 | 1.9 | .0 | .0 | 6.4 |
| 7 | .0 | .1 | 1.6 | 1.8 | .1 | .0 | 3.6 |
| 8-9 | .0 | .0 | 1.0 | 1.2 | .0 | .0 | 2.2 |
| 10-11 | .0 | .0 | .2 | .6 | * | .0 | .8 |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | * | .1 | .0 | .0 | .2 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 3.3 | 12.6 | 6.8 | .1 | .0 | 22.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 1-2 | .1 | .2 | .3 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .2 | * | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | * | * | .0 | .0 | * |
| 8-9 | .0 | .0 | * | .1 | .1 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .3 | .5 | .1 | .1 | .0 | 1.2 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .1 | .0 | .0 | .0 | .0 | .2 |
| 1-2 | .0 | * | * | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | .3 | .1 | .0 | .0 | .0 | .5 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .2 | .0 | .0 | .0 | .7 |
| 1-2 | .1 | .4 | .1 | .0 | .0 | .0 | .6 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.0 | .3 | .0 | .0 | .0 | 1.5 |

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.4 | .2 | .0 | .0 | .0 | 1.7 |
| 1-2 | .1 | 1.1 | .5 | .0 | .0 | .0 | 1.7 |
| 3-4 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.7 | .7 | .0 | .0 | .0 | 3.6 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.0 | .2 | .0 | .0 | .0 | 1.6 |
| 1-2 | .1 | 1.2 | .2 | .0 | .0 | .0 | 1.5 |
| 3-4 | * | .3 | .3 | .0 | .0 | .0 | .6 |
| 5-6 | .0 | * | .0 | .1 | .0 | .0 | .1 |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.6 | .8 | .1 | .0 | .0 | 3.9 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.2 | .1 | .0 | .0 | .0 | 1.7 |
| 1-2 | .2 | 3.1 | 1.4 | .0 | .0 | .0 | 4.7 |
| 3-4 | .1 | 1.5 | 1.1 | .1 | .0 | .0 | 2.8 |
| 5-6 | .0 | .3 | .6 | .1 | * | .0 | 1.1 |
| 7 | .0 | .0 | .4 | * | .0 | .0 | .4 |
| 8-9 | .0 | .0 | .1 | * | .0 | .0 | .2 |
| 10-11 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | * | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .7 | 6.2 | 3.7 | .4 | * | .0 | 11.0 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.1 | .1 | .0 | .0 | .0 | 1.5 | |
| 1-2 | .4 | 3.9 | 5.6 | .0 | .0 | .0 | 9.9 | |
| 3-4 | .0 | 2.0 | 11.7 | 2.9 | .0 | .0 | 16.6 | |
| 5-6 | .1 | .9 | 7.3 | 2.5 | .1 | .0 | 10.8 | |
| 7 | .0 | .1 | 3.4 | 3.0 | .1 | .0 | 6.6 | |
| 8-9 | .0 | .1 | 1.2 | 2.0 | .1 | .0 | 3.3 | |
| 10-11 | .0 | .0 | .8 | .6 | * | .0 | 1.4 | |
| 12 | .0 | .0 | .1 | .5 | .0 | .0 | .6 | |
| 13-16 | .0 | .0 | * | .5 | .1 | .0 | .6 | |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .8 | 8.2 | 30.1 | 12.1 | .4 | .0 | 51.6 | 96.2 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.3 | 5.8 | .7 | .0 | .0 | .0 | 11.7 | |
| 1-2 | 1.2 | 11.1 | 9.4 | .0 | .0 | .0 | 21.7 | |
| 3-4 | .1 | 5.4 | 17.4 | 4.1 | .0 | .0 | 27.0 | |
| 5-6 | .1 | 1.9 | 12.1 | 4.6 | .1 | .0 | 18.8 | |
| 7 | .0 | .4 | 5.4 | 4.8 | .1 | .0 | 10.8 | |
| 8-9 | .0 | .1 | 2.4 | 3.3 | .1 | .0 | 5.9 | |
| 10-11 | .0 | .1 | 1.0 | 1.2 | .1 | .0 | 2.3 | |
| 12 | .0 | .0 | .1 | .7 | .0 | .0 | .8 | |
| 13-16 | .0 | .0 | .1 | .6 | .1 | .0 | .8 | |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 6.7 | 24.8 | 48.6 | 19.4 | .6 | .0 | 100.0 | 1672 |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.6 | 10.8 | 15.0 | 8.3 | 3.6 | 1.6 | .3 | .2 | .3 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1417 | 4 |
| 6-7 | .1 | 1.3 | 8.4 | 7.0 | 6.5 | 3.0 | 1.5 | .6 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 982 | 6 |
| 8-9 | .0 | .6 | 1.4 | 3.7 | 3.3 | 2.2 | 1.9 | .7 | .6 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 491 | 7 |
| 10-11 | .0 | .3 | .2 | .7 | 1.0 | .8 | .6 | .7 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 186 | 8 |
| 12-13 | .0 | .0 | .2 | .1 | .1 | .2 | .3 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 42 | 8 |
| >13 | .0 | .0 | .0 | .1 | .0 | .1 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 19 | 9 |
| INDET | 5.1 | 1.5 | .7 | .3 | .6 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 284 | 2 |
| TOTAL | 230 | 490 | 880 | 690 | 511 | 270 | 164 | 80 | 71 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3401 | 5 |
| PCT | 6.8 | 14.4 | 25.9 | 20.3 | 15.0 | 7.9 | 4.8 | 2.4 | 2.1 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST SNOW BLWG | NO SIG WEA |
| N | .2 | .1 | 2.8 | .0 | .0 | .0 | .0 | 2.9 | 1.0 | .0 | 8.5 | .4 | 4.8 | .2 | | 82.3 |
| NE | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 | 1.0 | 1.0 | .0 | 12.4 | .0 | 4.5 | .0 | | 81.1 |
| E | .0 | .0 | 2.9 | .0 | .0 | .0 | .0 | 2.9 | .0 | .0 | 22.9 | .0 | .0 | .0 | | 74.3 |
| SE | .0 | 3.4 | 3.4 | .0 | .0 | .0 | .0 | 6.8 | 1.7 | .0 | 20.5 | .0 | 11.5 | .0 | | 59.4 |
| S | 2.1 | 7.5 | 3.7 | .0 | .0 | .0 | .0 | 13.3 | .0 | .0 | 28.8 | .0 | 4.3 | .0 | | 53.6 |
| SW | .5 | .0 | 1.6 | .0 | .0 | .0 | .0 | 2.2 | .7 | .0 | 24.2 | .2 | 6.3 | .0 | | 66.4 |
| W | .5 | .0 | 1.3 | .0 | .0 | .0 | .0 | 1.8 | .7 | .5 | 20.7 | 1.1 | 2.9 | .0 | | 72.3 |
| NW | .2 | .0 | 1.8 | .0 | .0 | .0 | .0 | 1.9 | .5 | .1 | 12.6 | .5 | 5.2 | * | | 79.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.1 | .0 | 5.7 | .0 | .0 | .0 | .0 | 6.8 | 1.1 | 1.1 | 33.0 | 2.3 | 4.5 | .0 | | 52.3 |
| TOT PCT | .3 | .3 | 2.1 | .0 | .0 | .0 | .0 | 2.6 | .6 | .1 | 13.9 | .6 | 4.9 | .1 | | 77.2 |
| TOT OBS: | 4334 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST SNOW BLWG | NO SIG WEA |
| 00&03 | .5 | .3 | .5 | .0 | .0 | .0 | .0 | 1.2 | .5 | .3 | 12.6 | .5 | 6.7 | .1 | | 78.4 |
| 06&09 | .4 | .4 | 2.1 | .0 | .0 | .0 | .0 | 2.7 | .7 | .2 | 11.9 | .3 | 3.5 | .0 | | 80.6 |
| 12&15 | .0 | .4 | 4.2 | .0 | .0 | .0 | .0 | 4.6 | .9 | .1 | 15.1 | .3 | 3.3 | .1 | | 75.6 |
| 18&21 | .3 | .1 | 1.5 | .0 | .0 | .0 | .0 | 1.8 | .5 | .0 | 15.8 | 1.3 | 6.0 | .1 | | 74.5 |
| TOT PCT | .3 | .3 | 2.1 | .0 | .0 | .0 | .0 | 2.6 | .6 | .1 | 13.9 | .6 | 4.9 | .1 | | 77.3 |
| TOT OBS: | 4370 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .4 | 4.2 | 13.8 | 5.5 | .2 | .0 | | 24.0 | 16.7 | 22.3 | 19.1 | 27.4 | 21.7 | 25.0 | 23.[illegible] | 27.7 | 19.9 |
| NE | .2 | .5 | .4 | * | .0 | .0 | | 1.1 | 9.3 | 1.1 | .7 | 1.6 | .4 | .5 | 1.5 | 1.4 | 1.1 |
| E | .1 | .3 | .1 | .0 | .0 | .0 | | .5 | 7.0 | .4 | .4 | .0 | .9 | .5 | .9 | .4 | .9 |
| SE | .2 | .8 | .3 | .1 | .0 | .0 | | 1.4 | 8.2 | 1.0 | 1.5 | .7 | 2.1 | 1.1 | 3.2 | 1.9 | 1.7 |
| S | .5 | 1.7 | .8 | .1 | .0 | .0 | | 3.1 | 8.2 | 2.4 | 3.3 | 1.4 | 3.3 | 2.7 | 5.1 | 4.5 | 4.1 |
| SW | .5 | 2.0 | .8 | * | .0 | .0 | | 3.3 | 8.0 | 3.7 | 3.6 | 2.7 | 4.5 | 3.0 | 2.5 | 3.0 | 3.7 |
| W | 1.1 | 6.0 | 4.3 | .4 | .0 | .0 | | 11.8 | 10.2 | 13.2 | 14.8 | 11.0 | 11.6 | 11.5 | 12.4 | 10.8 | 10.4 |
| NW | 1.2 | 12.9 | 28.4 | 9.7 | .3 | .0 | | 52.4 | 15.5 | 59.9 | 55.1 | 52.4 | 54.1 | 53.4 | 48.4 | 46.9 | 56.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | | 2.3 | .0 | 2.1 | 1.6 | 2.7 | 1.5 | 2.3 | 2.1 | 3.2 | 1.8 |
| TOT OBS | 311 | 1375 | 2358 | 763 | 22 | 0 | 4829 | | 14.1 | 856 | 372 | 829 | 336 | 858 | 380 | 710 | 488 |
| TOT PCT | 6.4 | 28.5 | 48.8 | 15.8 | .5 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 1.6 | 10.1 | 11.2 | 1.1 | * | | 24.0 | 16.7 | 21.3 | 25.8 | 24.7 | 24.5 |
| NE | .4 | .5 | .1 | .0 | .0 | | 1.1 | 9.3 | 1.0 | 1.3 | .8 | 1.3 |
| E | .3 | .2 | * | .0 | .0 | | .5 | 7.0 | .4 | .3 | .6 | .6 |
| SE | .8 | .6 | .1 | .0 | .0 | | 1.4 | 8.2 | 1.1 | 1.1 | 1.7 | 1.9 |
| S | 1.5 | 1.3 | .3 | .0 | .0 | | 3.1 | 8.2 | 2.6 | 2.0 | 3.4 | 4.4 |
| SW | 1.5 | 1.6 | .2 | .0 | .0 | | 3.3 | 8.0 | 3.7 | 3.2 | 2.8 | 3.3 |
| W | 3.4 | 6.9 | 1.4 | .1 | .0 | | 11.8 | 10.2 | 13.7 | 11.2 | 11.8 | 10.7 |
| NW | 5.0 | 24.1 | 21.4 | 2.0 | * | | 52.4 | 15.5 | 54.3 | 52.9 | 51.9 | 50.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 2.3 | | | | | | 2.3 | .0 | 2.0 | 2.3 | 2.3 | 2.7 |
| TOT OBS | 808 | 2184 | 1685 | 151 | 1 | 4829 | | 14.1 | 1228 | 1165 | 1238 | 1198 |
| TOT PCT | 16.7 | 45.2 | 34.9 | 3.1 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

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36.9N 123.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 3.3 | 28.3 | 50.2 | 15.7 | .6 | .0 | 14.5 | 100.0 | 1228 |
| 06&09 | 2.3 | 3.2 | 26.4 | 48.3 | 19.4 | .4 | .0 | 14.9 | 100.0 | 1165 |
| 12&15 | 2.3 | 4.4 | 28.5 | 49.5 | 14.9 | .4 | .0 | 13.9 | 100.0 | 1238 |
| 18&21 | 2.7 | 5.7 | 30.7 | 47.2 | 13.3 | .4 | .0 | 13.2 | 100.0 | 1198 |
| TOT | 111 | 200 | 1375 | 2358 | 763 | 22 | 0 | 14.1 | | 4829 |
| PCT | 2.3 | 4.1 | 28.5 | 48.8 | 15.8 | .5 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 9.4 | 1.3 | 3.9 | 10.8 | | 4.7 |
| NE | .5 | * | .2 | .5 | | 4.4 |
| E | .1 | .0 | .1 | .1 | | 5.8 |
| SE | .3 | * | .1 | .6 | | 5.3 |
| S | .5 | .1 | .3 | 1.8 | | 6.3 |
| SW | .7 | .3 | .5 | 1.7 | | 5.6 |
| W | 3.7 | .7 | 1.3 | 5.8 | | 5.0 |
| NW | 21.7 | 2.9 | 6.8 | 20.8 | | 4.3 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | .4 | .1 | .2 | 1.6 | | 6.3 |
| TOT OBS | 1129 | 167 | 405 | 1322 | 3023 | 4.7 |
| TOT PCT | 37.3 | 5.5 | 13.4 | 43.7 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 2499 | 2500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| .9 | .2 | 1.7 | 4.0 | 4.1 | 2.6 | .2 | .1 | .0 | .1 | 11.5 | |
| .0 | .0 | * | .2 | .2 | .1 | * | .0 | .0 | * | .6 | |
| .1 | .0 | * | * | .0 | * | .0 | .0 | .0 | .0 | .1 | |
| .1 | * | .1 | .2 | .2 | .1 | .0 | .0 | .0 | .0 | .4 | |
| .5 | * | .3 | .3 | .6 | .1 | .1 | .0 | * | .0 | .7 | |
| .3 | .0 | .1 | .3 | .8 | .4 | .1 | * | * | .0 | 1.1 | |
| .8 | .2 | .7 | 1.0 | 2.0 | 1.1 | .5 | * | .1 | .1 | 5.0 | |
| 2.9 | .4 | 3.0 | 7.0 | 7.7 | 3.8 | .6 | .1 | .2 | .3 | 26.2 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .5 | .1 | .1 | .3 | .5 | .3 | * | .0 | .0 | .0 | .5 | |
| 185 | 28 | 103 | 403 | 486 | 256 | 51 | 10 | 9 | 16 | 1396 | 3029 |
| 6.1 | .9 | 6.1 | 13.3 | 16.1 | 8.5 | 1.7 | .3 | .3 | .5 | 46.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .4 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| * OR >5000 | .6 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >3500 | 1.6 | 2.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| * OR >2000 | 7.0 | 10.3 | 11.1 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| * OR >1000 | 15.5 | 25.2 | 27.0 | 27.2 | 27.3 | 27.3 | 27.3 | 27.3 |
| * OR >600 | 20.5 | 37.3 | 40.2 | 40.5 | 40.6 | 40.7 | 40.7 | 40.7 |
| * OR >200 | 22.2 | 41.7 | 45.9 | 46.4 | 46.6 | 46.7 | 46.7 | 46.7 |
| * OR >130 | 22.3 | 42.2 | 46.6 | 47.1 | 47.5 | 47.6 | 47.7 | 47.7 |
| * OR > 0 | 22.4 | 43.1 | 48.1 | 49.3 | 50.8 | 51.6 | 53.2 | 53.7 |
| TOTAL | 680 | 1304 | 1456 | 1494 | 1538 | 1562 | 1610 | 1627 |

TOTAL NUMBER OF OBS: 3029

PCT FREQ NH <5/8: 46.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 27.2 | 7.8 | 5.5 | 3.1 | 2.3 | 2.4 | 4.0 | 6.4 | 36.3 | 5.1 | 3160 |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | PCP | .0 | .0 | .0 | * | * | .0 | * | .1 | .0 | .1 | .3 | |
| | NO PCP | .4 | * | * | .1 | .2 | .3 | .7 | 1.8 | .0 | .2 | 3.8 | |
| | TOT % | .4 | * | * | .1 | .2 | .3 | .8 | 1.9 | .0 | .3 | 4.1 | |
| 1/2<1 | PCP | .2 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | .0 | .2 | |
| | NO PCP | .4 | * | .0 | .1 | .1 | .1 | .4 | 1.2 | .0 | .1 | 2.4 | |
| | TOT % | .6 | * | .0 | .1 | .1 | .1 | .4 | 1.2 | .0 | .1 | 2.5 | |
| 1<2 | PCP | .1 | .0 | .0 | .0 | * | .0 | .0 | .1 | .0 | .0 | .2 | |
| | NO PCP | .2 | * | * | .1 | .2 | * | .2 | .8 | .0 | .1 | 1.7 | |
| | TOT % | .3 | * | * | .1 | .2 | * | .2 | .9 | .0 | .1 | 1.9 | |
| 2<5 | PCP | .2 | * | * | * | * | * | .1 | .3 | .0 | * | .6 | |
| | NO PCP | 1.2 | * | * | .1 | .3 | .2 | .9 | 2.3 | .0 | .2 | 5.2 | |
| | TOT % | 1.3 | * | * | .1 | .3 | .2 | 1.0 | 2.5 | .0 | .2 | 5.8 | |
| 5<10 | PCP | .3 | .0 | .0 | * | .3 | .1 | .1 | .4 | .0 | * | 1.2 | |
| | NO PCP | 7.7 | .4 | .1 | .5 | .8 | 1.0 | 3.4 | 16.1 | .0 | .5 | 30.6 | |
| | TOT % | 8.0 | .4 | .1 | .5 | 1.1 | 1.1 | 3.5 | 16.6 | .0 | .6 | 31.8 | |
| 10+ | PCP | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 | .2 | |
| | NO PCP | 13.9 | .6 | .2 | .5 | .8 | 1.4 | 5.9 | 29.6 | .0 | .8 | 53.7 | |
| | TOT % | 14.0 | .6 | .2 | .5 | .8 | 1.4 | 5.9 | 29.7 | .0 | .8 | 53.9 | |
| | TOT OBS | | | | | | | | | | | | 4325 |
| | TOT PCT | 24.5 | 1.1 | .4 | 1.4 | 2.8 | 3.2 | 11.9 | 52.7 | .0 | 2.0 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <1/2 | 0-3 | * | .0 | .0 | * | .1 | .1 | .1 | .1 | .0 | .3 | .8 | |
| | 4-10 | .1 | * | * | .1 | .1 | .1 | .4 | .8 | .0 | | 1.8 | |
| | 11-21 | .2 | .0 | .0 | .0 | * | * | .2 | .9 | .0 | | 1.3 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .0 | | .3 | |
| | TOT % | .4 | * | * | .1 | .2 | .3 | .7 | 1.9 | .0 | .3 | 4.2 | |
| 1/2<1 | 0-3 | * | .0 | .0 | .0 | * | .1 | .1 | * | .0 | .1 | .4 | |
| | 4-10 | .1 | * | .0 | .0 | * | .1 | .1 | .4 | .0 | | .8 | |
| | 11-21 | .3 | * | .0 | .1 | * | .0 | .2 | .6 | .0 | | 1.1 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | * | .1 | .0 | | .2 | |
| | TOT % | .5 | * | .0 | .1 | .1 | .1 | .4 | 1.2 | .0 | .1 | 2.5 | |
| 1<2 | 0-3 | .0 | * | .1 | * | * | * | .1 | * | .0 | .1 | .4 | |
| | 4-10 | .1 | .0 | .0 | * | .1 | * | .2 | .4 | .0 | | .8 | |
| | 11-21 | .2 | * | .0 | * | * | .0 | .1 | .5 | .0 | | .8 | |
| | 22+ | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .3 | * | .1 | .1 | .2 | .1 | .3 | 1.0 | .0 | .1 | 2.2 | |
| 2<5 | 0-3 | .1 | * | .0 | * | .1 | * | .1 | .1 | .0 | .2 | .7 | |
| | 4-10 | .3 | * | * | * | .1 | .2 | .5 | 1.0 | .0 | | 2.1 | |
| | 11-21 | .9 | .0 | * | .1 | .1 | * | .4 | 1.8 | .0 | | 3.3 | |
| | 22+ | .3 | .0 | .0 | .0 | .0 | .0 | * | .4 | .0 | | .7 | |
| | TOT % | 1.6 | * | * | .1 | .3 | .2 | 1.0 | 3.2 | .0 | .2 | 6.8 | |
| 5<10 | 0-3 | * | * | * | * | .1 | .1 | .3 | .2 | .0 | .5 | 1.4 | |
| | 4-10 | 1.4 | .2 | .1 | .3 | .6 | .7 | 1.9 | 3.5 | .0 | | 8.6 | |
| | 11-21 | 4.8 | .1 | * | .1 | .4 | .2 | 1.1 | 3.7 | .0 | | 15.5 | |
| | 22+ | 1.7 | * | .0 | .1 | .1 | * | .1 | 3.7 | .0 | | 5.7 | |
| | TOT % | 7.9 | .4 | .1 | .5 | 1.1 | 1.1 | 3.4 | 16.2 | .0 | .5 | 31.2 | |
| 10+ | 0-3 | .3 | .1 | * | .1 | .1 | * | .3 | .6 | .0 | .8 | 2.3 | |
| | 4-10 | 2.3 | .2 | .1 | .2 | .6 | .9 | 2.7 | 6.5 | .0 | | 13.5 | |
| | 11-21 | 7.7 | .3 | * | .1 | .2 | .4 | 2.5 | 16.3 | .0 | | 27.6 | |
| | 22+ | 3.5 | * | .0 | .0 | .0 | * | .2 | 5.9 | .0 | | 9.7 | |
| | TOT % | 13.8 | .6 | .2 | .5 | .8 | 1.4 | 5.8 | 29.9 | .0 | .8 | 53.1 | |
| | TOT OBS | | | | | | | | | | | | 4570 |
| | TOT PCT | 24.5 | 1.1 | .4 | 1.4 | 2.8 | 3.2 | 11.7 | 52.8 | .0 | 2.1 | 100.0 | |

AUGUST

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.5 | .8 | 4.5 | 12.6 | 14.0 | 8.6 | 1.5 | .5 | .4 | 1.0 | 48.3 | 51.7 | 780 |
| 06&09 | 5.0 | .5 | 4.4 | 9.8 | 12.9 | 7.9 | 1.3 | .0 | .1 | .2 | 42.2 | 57.8 | 823 |
| 12&15 | 7.6 | .8 | 6.5 | 13.6 | 19.5 | 8.6 | 1.8 | .3 | .4 | .3 | 59.4 | 40.6 | 734 |
| 18&21 | 7.1 | 1.6 | 8.7 | 16.9 | 17.7 | 8.4 | 2.0 | .5 | .3 | .5 | 63.8 | 36.2 | 746 |
| TOT | 185 | 28 | 184 | 405 | 490 | 258 | 51 | 10 | 9 | 16 | 1636 | 1447 | 3083 |
| PCT | 6.0 | .9 | 6.0 | 13.1 | 15.9 | 8.4 | 1.7 | .3 | .3 | .5 | 53.1 | 46.9 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 4.0 | 3.1 | 1.4 | 5.5 | 32.6 | 53.4 | 1170 |
| 06&09 | 3.7 | 2.0 | 2.0 | 4.6 | 26.9 | 60.7 | 1123 |
| 12&15 | 4.7 | 3.4 | 2.2 | 7.9 | 29.8 | 51.9 | 1160 |
| 18&21 | 4.2 | 1.7 | 3.3 | 8.9 | 35.6 | 46.2 | 1153 |
| TOT | 192 | 118 | 102 | 311 | 1441 | 2442 | 4606 |
| PCT | 4.2 | 2.6 | 2.2 | 6.8 | 31.3 | 53.0 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 4.3 | 10.1 | 24.3 | 25.7 | 50.0 | 764 |
| 06&09 | 5.1 | 10.7 | 22.8 | 20.9 | 56.3 | 803 |
| 12&15 | 7.9 | 15.6 | 32.4 | 28.1 | 39.4 | 725 |
| 18&21 | 7.2 | 16.3 | 38.9 | 26.6 | 34.5 | 737 |
| TOT | 184 | 411 | 891 | 764 | 1374 | 3029 |
| PCT | 6.1 | 13.6 | 29.4 | 25.2 | 45.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | .0 | .1 | .1 | .1 | * | .0 | 11 | .3 |
| 70/74 | .0 | .0 | * | .1 | .1 | .4 | .2 | * | 28 | .9 |
| 65/69 | .0 | .0 | .0 | .1 | .4 | 2.3 | 3.3 | 1.5 | 243 | 7.6 |
| 60/64 | .0 | .0 | .0 | .0 | .5 | 6.9 | 24.3 | 13.5 | 1450 | 45.2 |
| 55/59 | .0 | .0 | .0 | .0 | .1 | 1.7 | 19.1 | 19.1 | 1286 | 40.1 |
| 50/54 | .0 | .0 | .0 | .0 | .0 | * | .8 | 5.0 | 188 | 5.9 |
| 45/49 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .1 |
| TOTAL | 0 | 0 | 1 | 11 | 39 | 368 | 1531 | 1258 | 3208 | 100.0 |
| PCT | .0 | .0 | * | .3 | 1.2 | 11.5 | 47.7 | 39.2 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | .1 | .0 | * | * | .0 | * | .1 | .1 | .0 | * |
| | .3 | .0 | .0 | * | * | * | .2 | .4 | .0 | .0 |
| | 2.1 | .2 | .1 | .1 | .3 | .4 | 1.1 | 3.1 | .0 | .2 |
| | 12.7 | .6 | .2 | .3 | .8 | 1.0 | 4.7 | 24.1 | .0 | .8 |
| | 9.5 | .3 | * | .8 | 1.1 | 1.2 | 4.0 | 22.3 | .0 | .9 |
| | 1.1 | .0 | * | .1 | .2 | .4 | 1.5 | 2.1 | .0 | .4 |
| | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 |
| | 25.7 | 1.1 | .3 | 1.3 | 2.6 | 3.0 | 11.5 | 52.0 | .0 | 2.4 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 73 | 68 | 60 | 55 | 53 | 48 | 60.8 | 1229 |
| 06&09 | 79 | 69 | 65 | 59 | 54 | 52 | 46 | 59.5 | 1164 |
| 12&15 | 84 | 66 | 64 | 59 | 53 | 51 | 45 | 58.7 | 1242 |
| 18&21 | 83 | 72 | 66 | 60 | 54 | 52 | 46 | 60.2 | 1209 |
| TOT | 84 | 72 | 66 | 60 | 54 | 52 | 45 | 59.8 | 4844 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 1.2 | 2.3 | 16.0 | 51.9 | 28.6 | 86 | 826 |
| 06&09 | .0 | .1 | .6 | 6.8 | 44.2 | 48.2 | 89 | 803 |
| 12&15 | .0 | .0 | .6 | 6.7 | 45.6 | 47.1 | 90 | 823 |
| 18&21 | .0 | .3 | 1.4 | 16.3 | 49.2 | 32.9 | 86 | 779 |
| TOT | 0 | 13 | 40 | 369 | 1542 | 1267 | 88 | 3231 |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .0 | 4 | * | .1 |
| 14/16 | .0 | .0 | .0 | .0 | * | * | * | * | * | .0 | 9 | * | .2 |
| 11/13 | .0 | .0 | .0 | * | .2 | .2 | .3 | * | * | .0 | 36 | .0 | .9 |
| 9/10 | .0 | .0 | .0 | .1 | .5 | .6 | .2 | .1 | * | .0 | 65 | .1 | 1.5 |
| 7/8 | .0 | .0 | .0 | .3 | 1.0 | .8 | .3 | * | .0 | .1 | 107 | .2 | 2.3 |
| 6 | .0 | .0 | .1 | .7 | 1.1 | .6 | .1 | * | .0 | * | 109 | .3 | 2.3 |
| 5 | .0 | .0 | .2 | 1.3 | 1.7 | .7 | .1 | .0 | * | .0 | 168 | .6 | 3.5 |
| 4 | .0 | .0 | .4 | 2.3 | 3.2 | .8 | .1 | .1 | * | .0 | 285 | .7 | 6.1 |
| 3 | .0 | .0 | .3 | 2.7 | 2.3 | .5 | * | .0 | * | .0 | 247 | .7 | 5.2 |
| 2 | .0 | .1 | 1.3 | 4.9 | 5.6 | .7 | * | * | * | .0 | 524 | 1.8 | 10.8 |
| 1 | .0 | .1 | 1.3 | 5.2 | 3.7 | .6 | * | .0 | * | .0 | 450 | 1.2 | 9.6 |
| 0 | * | .1 | 2.3 | 6.6 | 4.6 | .6 | .0 | * | * | .0 | 592 | 1.9 | 12.4 |
| -1 | .0 | .1 | 2.2 | 4.7 | 3.0 | .2 | * | .0 | .0 | .0 | 425 | 1.5 | 8.8 |
| -2 | .0 | .1 | 2.2 | 4.7 | 2.2 | .1 | * | .1 | .0 | .0 | 390 | 1.5 | 7.9 |
| -3 | .0 | .2 | 1.2 | 2.5 | 1.4 | .1 | .0 | * | .0 | .0 | 228 | 1.2 | 4.3 |
| -4 | .0 | .2 | 1.1 | 2.4 | 1.2 | * | .0 | .0 | .0 | .0 | 204 | .7 | 4.2 |
| -5 | .0 | .1 | .8 | 1.3 | .6 | .1 | .0 | .0 | .0 | .0 | 120 | .6 | 2.3 |
| -6 | .0 | * | .7 | .8 | * | .0 | .0 | .0 | .0 | .0 | 64 | .2 | 1.4 |
| -7/-8 | .0 | * | .6 | .9 | .2 | .0 | .0 | .0 | .0 | .0 | 72 | .2 | 1.5 |
| -9/-10 | .0 | .1 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 25 | .1 | .5 |
| -11/-13 | .0 | * | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | 10 | * | .2 |
| -14/-16 | * | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 3 | * | * |
| -17/-19 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 3 | 58 | 622 | 1726 | 1351 | 281 | 57 | 22 | 15 | 4 | 4139 | 572 | 3567 |
| PCT | .1 | 1.4 | 15.0 | 41.7 | 32.6 | 6.8 | 1.4 | .5 | .4 | .1 | 100.0 | 13.8 | 86.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .3 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | 1.2 | 1.0 | .0 | .0 | .0 | 2.2 |
| 3-4 | .0 | 1.5 | 4.3 | .9 | .0 | .0 | 6.7 |
| 5-6 | .0 | .2 | 3.5 | 1.1 | .0 | .0 | 4.9 |
| 7 | .0 | .2 | 2.4 | 1.9 | .0 | .0 | 4.5 |
| 8-9 | .0 | .2 | 1.0 | 1.8 | .1 | .0 | 2.9 |
| 10-11 | .0 | .0 | .9 | .6 | .0 | .0 | 1.5 |
| 12 | .0 | .0 | .2 | .2 | .0 | .0 | .4 |
| 13-16 | .0 | .0 | .1 | .0 | .1 | .0 | .2 |
| 17-19 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 3.6 | 13.5 | 6.5 | .1 | .0 | 23.9 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .3 | .0 | .0 | .0 | .0 | .4 |
| 1-2 | .1 | .1 | .1 | .0 | .0 | .0 | .4 |
| 3-4 | .1 | .1 | .1 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | * | * | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | * | .0 | .0 | .0 | * |
| 8-9 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | .6 | .2 | .0 | .0 | .0 | 1.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 1-2 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 3-4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 5-6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .0 | .1 | .1 | .0 | .0 | .0 | .2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .1 | .4 | .2 | .0 | .0 | .0 | .7 |
| 3-4 | .1 | .2 | .0 | .0 | .0 | .0 | .3 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.1 | .3 | .0 | .0 | .0 | 1.6 |

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0035 SAN FRANCISCO 36.9N 123.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | 1.1 | .0 | .0 | .0 | .0 | 1.2 | .2 | 1.4 | .1 | .0 | .0 | .0 | 1.7 |
| 1-2 | .1 | .6 | .4 | .0 | .0 | .0 | 1.0 | .0 | .7 | .8 | .0 | .0 | .0 | 1.5 |
| 3-4 | .1 | .1 | .1 | .0 | .0 | .0 | .3 | .0 | .2 | .0 | .0 | .0 | .0 | .2 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | .0 | * | * | .1 | .0 | .0 | .1 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.8 | .6 | .0 | .0 | .0 | 2.7 | .2 | 2.5 | .9 | .1 | .0 | .0 | 3.6 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .1 | 1.5 | .3 | .0 | .0 | .0 | 1.9 | .6 | 1.3 | .1 | .0 | .0 | .0 | 2.0 | |
| 1-2 | .3 | 2.9 | 2.5 | .0 | .0 | .0 | 5.8 | .2 | 4.3 | 4.0 | .0 | .0 | .0 | 8.5 | |
| 3-4 | .0 | 1.8 | 1.8 | .1 | .0 | .0 | 3.8 | .0 | 3.4 | 10.8 | 1.6 | .0 | .0 | 15.8 | |
| 5-6 | .0 | .3 | .3 | .1 | .0 | .0 | .8 | .0 | .9 | 6.3 | 2.0 | .0 | .0 | 9.2 | |
| 7 | .0 | .1 | .3 | .1 | .0 | .0 | .4 | .0 | .3 | 4.2 | 3.0 | .1 | .0 | 7.6 | |
| 8-9 | .1 | .0 | .1 | .1 | .0 | .0 | .2 | .0 | .1 | 1.4 | 1.8 | [illegible] | .0 | 3.5 | |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.4 | 1.0 | .1 | .0 | 2.5 | |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .3 | .0 | .0 | .5 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .4 | .3 | .1 | .0 | .9 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | .0 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .5 | 6.7 | 5.3 | .4 | .0 | .0 | 12.9 | .8 | 10.3 | 28.8 | 10.0 | .6 | .0 | 50.5 | 96.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 4.9 | 6.4 | .5 | .0 | .0 | .0 | 11.8 | |
| 1-2 | 1.2 | 10.3 | 8.9 | .0 | .0 | .0 | 20.4 | |
| 3-4 | .3 | 7.2 | 17.1 | 2.5 | .0 | .0 | 27.1 | |
| 5-6 | .0 | 1.7 | 10.2 | 3.3 | .0 | .0 | 15.3 | |
| 7 | .0 | .7 | 6.9 | 4.9 | .1 | .0 | 12.6 | |
| 8-9 | .1 | .3 | 2.4 | 3.7 | .3 | .0 | 6.7 | |
| 10-11 | .0 | .0 | 2.3 | 1.6 | .1 | .0 | 4.0 | |
| 12 | .0 | .0 | .3 | .5 | .0 | .0 | .8 | |
| 13-16 | .0 | .0 | .5 | .3 | .2 | .0 | 1.0 | |
| 17-19 | .0 | .0 | .2 | .1 | .0 | .0 | .3 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1468 |
| TOT PCT | 6.4 | 26.6 | 49.4 | 16.9 | .7 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.3 | 9.5 | 17.9 | 8.4 | 4.5 | 1.6 | .7 | .3 | .2 | .1 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 1267 | 4 |
| 6-7 | * | 1.2 | 7.7 | 8.0 | 5.3 | 3.7 | 1.5 | .5 | .6 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 810 | 6 |
| 8-9 | * | .3 | 2.0 | 2.8 | 3.5 | 3.0 | 1.5 | .3 | .5 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 403 | 7 |
| 10-11 | .0 | .4 | .5 | .9 | .7 | 1.1 | .6 | .5 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 146 | 8 |
| 12-13 | .0 | .0 | .4 | .5 | .2 | .2 | .3 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 53 | 7 |
| >13 | .0 | .0 | .0 | .1 | .1 | .0 | .1 | * | .2 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 15 | 11 |
| INDET | 1.8 | 1.1 | .9 | .5 | .2 | .3 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 145 | 3 |
| TOTAL | 92 | 352 | 833 | 601 | 411 | 282 | 136 | 55 | 54 | 14 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2839 | 5 |
| PCT | 3.2 | 12.4 | 29.3 | 21.2 | 14.5 | 9.9 | 4.8 | 1.9 | 1.9 | .5 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .1 | 1.3 | .0 | .0 | .0 | .1 | 1.6 | .1 | .0 | 8.4 | * | 5.1 | .1 | | 84.6 |
| NE | .0 | .6 | .0 | .0 | .0 | .0 | .0 | .6 | .6 | .0 | 6.5 | 1.1 | 9.7 | .0 | | 81.5 |
| E | 2.5 | 1.4 | .0 | .0 | .0 | .0 | .0 | 3.9 | .0 | .0 | 8.5 | 1.1 | 9.2 | .0 | | 77.4 |
| SE | 3.5 | .9 | 2.6 | .0 | .0 | .0 | .0 | 6.1 | .9 | .0 | 16.7 | .2 | 10.7 | .0 | | 65.4 |
| S | 3.6 | 1.0 | .8 | .0 | .0 | .0 | .0 | 5.4 | .4 | .0 | 16.3 | .6 | 11.1 | .0 | | 66.2 |
| SW | .6 | .6 | 1.5 | .0 | .0 | .0 | .0 | 2.6 | .8 | .0 | 18.7 | .5 | 12.1 | .0 | | 65.4 |
| W | .3 | .0 | 1.9 | .0 | .0 | .0 | .0 | 2.2 | .2 | .2 | 14.1 | .0 | 12.5 | .0 | | 70.8 |
| NW | .1 | .1 | 1.3 | .0 | .0 | .0 | .0 | 1.5 | .2 | .1 | 12.5 | .4 | 6.0 | .1 | | 79.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | 1.9 | .0 | .0 | .0 | .0 | 1.9 | .6 | .0 | 24.1 | .0 | 13.0 | .0 | | 60.5 |
| TOT PCT | .4 | .2 | 1.4 | .0 | .0 | .0 | * | 2.0 | .3 | .1 | 12.4 | .3 | 7.5 | * | | 77.5 |
| TOT OBS: | 4467 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | .6 | .1 | 1.0 | .0 | .0 | .0 | .1 | 1.7 | .2 | .0 | 12.6 | .1 | 8.9 | | .0 | 76.5 |
| 06&09 | .4 | .2 | 1.2 | .0 | .0 | .0 | .0 | 1.8 | .4 | .2 | 8.3 | .4 | 5.4 | | .0 | 83.5 |
| 12&15 | .2 | .3 | 2.3 | .0 | .0 | .0 | .0 | 2.7 | .4 | .1 | 14.5 | .1 | 5.2 | | .0 | 76.9 |
| 18&21 | .4 | .3 | 1.0 | .0 | .0 | .0 | .0 | 1.7 | .2 | .0 | 15.9 | .4 | 10.4 | | .2 | 71.2 |
| TOT PCT | .4 | .2 | 1.4 | .0 | .0 | .0 | * | 2.0 | .3 | .1 | 12.8 | .3 | 7.5 | | * | 77.1 |
| TOT OBS: | 4537 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .8 | 5.9 | 12.6 | 5.3 | .6 | .0 | | 25.2 | 16.1 | 23.5 | 21.0 | 29.6 | 24.3 | 25.1 | 26.1 | 27.3 | 21.2 |
| NE | .3 | .9 | .7 | .1 | * | .0 | | 1.9 | 9.8 | 2.0 | 2.0 | 1.7 | 1.1 | 2.3 | 2.3 | 2.0 | 1.6 |
| E | .4 | .7 | .3 | .0 | * | .0 | | 1.4 | 7.6 | 1.1 | .7 | 1.5 | 1.2 | 1.5 | 1.9 | 2.6 | .8 |
| SE | .4 | 1.6 | .5 | .1 | .0 | .0 | | 2.6 | 7.7 | 2.9 | 2.2 | 1.2 | 2.1 | 1.5 | 3.1 | 4.2 | 4.5 |
| S | .8 | 2.7 | .7 | .1 | .0 | .0 | | 4.3 | 7.8 | 4.5 | 3.3 | 3.1 | 3.6 | 2.9 | 4.5 | 6.9 | 5.6 |
| SW | .9 | 3.1 | .9 | * | .0 | .0 | | 4.9 | 7.4 | 5.9 | 3.7 | 4.6 | 4.0 | 4.1 | 5.7 | 4.4 | 6.6 |
| W | 1.3 | 7.0 | 3.0 | .2 | * | .0 | | 11.6 | 8.7 | 11.8 | 13.6 | 9.5 | 12.3 | 12.3 | 9.6 | 10.8 | 13.6 |
| NW | 1.5 | 13.8 | 22.1 | 6.2 | .3 | .0 | | 43.9 | 14.3 | 45.4 | 49.2 | 45.0 | 47.1 | 45.4 | 42.6 | 35.5 | 42.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.2 | | | | | | | 4.3 | .0 | 2.9 | 4.2 | 3.7 | 4.3 | 5.0 | 4.3 | 6.4 | 3.3 |
| TOT OBS | 519 | 1768 | 2016 | 592 | 47 | 0 | 4942 | | 12.5 | 857 | 403 | 828 | 399 | 868 | 392 | 704 | 491 |
| TOT PCT | 10.5 | 35.8 | 40.8 | 12.0 | 1.0 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.8 | 10.9 | 9.6 | 1.8 | .1 | | 25.2 | 16.1 | 22.7 | 27.9 | 25.4 | 24.8 |
| NE | .8 | .8 | .3 | * | .0 | | 1.9 | 9.8 | 2.0 | 1.5 | 2.3 | 1.8 |
| E | .8 | .5 | .1 | * | .0 | | 1.4 | 7.6 | 1.0 | 1.4 | 1.6 | 1.8 |
| SE | 1.3 | 1.2 | .1 | .0 | .0 | | 2.6 | 7.7 | 2.7 | 1.5 | 2.0 | 4.3 |
| S | 2.0 | 2.0 | .3 | * | .0 | | 4.3 | 7.8 | 4.1 | 3.3 | 3.4 | 6.4 |
| SW | 2.5 | 2.1 | .2 | .0 | .0 | | 4.9 | 7.4 | 5.2 | 4.4 | 4.6 | 5.3 |
| W | 4.5 | 6.4 | .6 | * | .0 | | 11.6 | 8.7 | 12.4 | 10.4 | 11.5 | 11.9 |
| NW | 5.7 | 22.6 | 14.0 | 1.6 | * | | 43.9 | 14.3 | 46.6 | 45.7 | 44.5 | 38.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.2 | | | | | | 4.3 | .0 | 3.3 | 3.9 | 4.8 | 5.1 |
| TOT OBS | 1220 | 2298 | 1248 | 172 | 4 | 4942 | | 12.5 | 1260 | 1227 | 1260 | 1195 |
| TOT PCT | 24.7 | 46.5 | 25.3 | 3.5 | .1 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

SEPTEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.3 | 5.4 | 33.7 | 44.4 | 12.1 | 1.1 | .0 | 13.0 | 100.0 | 1260 |
| 06&09 | 3.9 | 5.5 | 32.9 | 42.1 | 14.6 | 1.1 | .0 | 13.2 | 100.0 | 1227 |
| 12&15 | 4.8 | 7.5 | 36.7 | 38.8 | 11.4 | .9 | .0 | 12.2 | 100.0 | 1260 |
| 18&21 | 5.1 | 6.7 | 39.9 | 37.7 | 9.8 | .8 | .0 | 11.7 | 100.0 | 1195 |
| TOT | 211 | 309 | 1767 | 2016 | 592 | 47 | 0 | 12.5 | | 4942 |
| PCT | 4.3 | 6.3 | 35.8 | 40.8 | 12.0 | 1.0 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 13.1 | 1.8 | 4.3 | 6.8 | | 3.6 |
| NE | 1.0 | .1 | .2 | .6 | | 3.8 |
| E | .6 | .1 | .3 | .6 | | 4.4 |
| SE | .5 | .1 | .5 | 1.2 | | 5.8 |
| S | 1.1 | .4 | .7 | 1.8 | | 5.1 |
| SW | 1.3 | .5 | .8 | 2.1 | | 5.2 |
| W | 4.7 | 1.0 | 1.9 | 3.8 | | 4.2 |
| NW | 21.5 | 2.8 | 6.9 | 12.5 | | 3.7 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.9 | .2 | .5 | 1.6 | | 4.1 |
| TOT OBS | 1484 | 223 | 525 | 1004 | 3236 | 3.9 |
| TOT PCT | 45.9 | 6.9 | 16.2 | 31.0 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | .1 | .9 | 2.6 | 4.3 | 1.0 | .2 | * | .1 | .1 | 10.1 | |
| NE | * | * | .1 | .2 | .3 | .1 | .0 | .0 | * | .0 | 1.1 | |
| E | * | * | .1 | .1 | .3 | .2 | .0 | .0 | * | .0 | .8 | |
| SE | .2 | .0 | .1 | .4 | .4 | .3 | * | * | * | .1 | .7 | |
| S | .2 | * | .2 | .5 | .8 | .3 | .1 | * | .0 | * | 1.8 | |
| SW | .5 | * | .2 | .4 | 1.1 | .3 | .1 | * | * | * | 2.1 | |
| W | .6 | .1 | .5 | 1.1 | 1.7 | .7 | .1 | * | * | .1 | 6.5 | |
| NW | 2.1 | .2 | 1.3 | 4.0 | 6.7 | 2.2 | .5 | .1 | * | .2 | 20.3 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .5 | * | .1 | .3 | .7 | .2 | .0 | .0 | .0 | .0 | 2.3 | |
| TOT OBS | 157 | 17 | 111 | 307 | 533 | 175 | 33 | 8 | 8 | 18 | 1869 | 3236 |
| TOT PCT | 4.9 | .5 | 3.4 | 9.5 | 16.5 | 5.4 | 1.0 | .2 | .2 | .6 | 57.8 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) = OR >10 | = OR >5 | = OR >2 | = OR >1 | = OR >1/2 | = OR >1/4 | = OR >50YD | = OR >0 |
|---|---|---|---|---|---|---|---|---|
| = OR >6500 | .5 | .8 | .8 | .8 | .8 | .8 | .8 | .8 |
| = OR >5000 | .7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| = OR >3500 | 1.4 | 2.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| = OR >2000 | 4.5 | 7.1 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| = OR >1000 | 13.3 | 22.3 | 23.4 | 23.6 | 23.7 | 23.7 | 23.7 | 23.7 |
| = OR >600 | 17.2 | 31.0 | 32.7 | 33.0 | 33.1 | 33.2 | 33.2 | 33.2 |
| = OR >300 | 18.3 | 33.6 | 36.0 | 36.4 | 36.6 | 36.7 | 36.7 | 36.7 |
| = OR >150 | 18.3 | 33.9 | 36.4 | 36.8 | 37.1 | 37.2 | 37.3 | 37.3 |
| = OR > 0 | 18.5 | 34.4 | 37.1 | 38.0 | 39.4 | 40.3 | 41.7 | 42.1 |
| TOTAL | 602 | 1120 | 1211 | 1238 | 1283 | 1315 | 1361 | 1371 |

TOTAL NUMBER OF OBS: 3260

PCT FREQ NH <5/8: 57.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 39.6 | 8.1 | 6.6 | 4.3 | 2.9 | 2.1 | 5.3 | 6.5 | 24.3 | 4.2 | 3406 |

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .0 | .0 | .0 | * | * | .0 | * | .0 | .0 | .1 | |
| <1/2 | NO PCP | .7 | * | .0 | .2 | .2 | .3 | .4 | 1.8 | .0 | .4 | 4.0 | |
| | TOT % | .8 | * | .0 | .2 | .2 | .3 | .4 | 1.8 | .0 | .4 | 4.1 | |
| | PCP | * | .0 | .0 | * | * | * | .1 | * | .0 | * | .2 | |
| 1/2<1 | NO PCP | .3 | * | .1 | .2 | .1 | .4 | .5 | 1.2 | .0 | .1 | 2.8 | |
| | TOT % | .4 | * | .1 | .2 | .2 | .4 | .5 | 1.2 | .0 | .1 | 3.0 | |
| | PCP | .0 | .0 | .0 | * | * | * | * | * | .0 | .0 | .1 | |
| 1<2 | NO PCP | .3 | * | * | .1 | .1 | .1 | .2 | .7 | .0 | .1 | 1.5 | |
| | TOT % | .3 | * | * | .1 | .1 | .1 | .2 | .7 | .0 | .1 | 1.6 | |
| | PCP | .1 | * | * | * | .1 | .0 | .1 | .1 | .0 | * | .4 | |
| 2<5 | NO PCP | 1.0 | .1 | .1 | .1 | .3 | .4 | .4 | 1.3 | .0 | .3 | 3.8 | |
| | TOT % | 1.0 | .1 | .1 | .1 | .4 | .4 | .5 | 1.4 | .0 | .3 | 4.2 | |
| | PCP | .3 | .0 | * | .1 | * | .1 | .1 | .4 | .0 | .0 | .9 | |
| 5<10 | NO PCP | 7.1 | .5 | .5 | .8 | 1.2 | 1.7 | 4.1 | 12.6 | .0 | .7 | 29.4 | |
| | TOT % | 7.4 | .5 | .5 | .9 | 1.3 | 1.7 | 4.2 | 13.0 | .0 | .7 | 30.3 | |
| | PCP | * | .0 | .0 | .0 | .0 | * | * | .1 | .0 | * | .2 | |
| 10+ | NO PCP | 16.0 | 1.3 | .9 | 1.2 | 1.9 | 2.1 | 5.5 | 25.8 | .0 | 2.0 | 56.5 | |
| | TOT % | 16.1 | 1.3 | .9 | 1.2 | 1.9 | 2.1 | 5.5 | 25.8 | .0 | 2.0 | 56.7 | |
| | TOT OBS | | | | | | | | | | | | 4459 |
| | TOT PCT | 25.9 | 2.0 | 1.6 | 2.6 | 4.0 | 4.9 | 11.4 | 44.0 | .0 | 3.6 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | .0 | * | * | .1 | .1 | .1 | .0 | .5 | .8 | |
| <1/2 | 4-10 | .4 | .0 | .0 | .1 | .2 | .2 | .3 | 1.0 | .0 | | 2.2 | |
| | 11-21 | .3 | .0 | .0 | .1 | * | * | .1 | .8 | .0 | | 1.3 | |
| | 22+ | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | | * | |
| | TOT % | .8 | * | .0 | .2 | .3 | .3 | .4 | 1.9 | .0 | .5 | 4.4 | |
| | 0-3 | * | * | * | * | .1 | * | .1 | * | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .2 | * | * | .1 | .1 | .2 | .3 | .4 | .0 | | 1.3 | |
| | 11-21 | .2 | .0 | * | * | * | .1 | .2 | .7 | .0 | | 1.2 | |
| | 22+ | .0 | .0 | .0 | * | * | .0 | .0 | .1 | .0 | | .1 | |
| | TOT % | .4 | * | .1 | .2 | .2 | .4 | .5 | 1.2 | .0 | .1 | 2.9 | |
| | 0-3 | .0 | * | * | * | .0 | * | * | * | .0 | .1 | .2 | |
| 1<2 | 4-10 | .1 | * | * | .1 | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | .2 | * | .0 | .0 | * | * | * | .4 | .0 | | .6 | |
| | 22+ | * | .0 | .0 | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .3 | * | * | .1 | .1 | .1 | .3 | .8 | .0 | .1 | 1.9 | |
| | 0-3 | .1 | * | * | * | * | .1 | .1 | .1 | .0 | .4 | .9 | |
| 2<5 | 4-10 | .3 | * | * | .1 | .3 | .2 | .4 | .7 | .0 | | 2.0 | |
| | 11-21 | .5 | * | .0 | .1 | .1 | * | .1 | .7 | .0 | | 1.6 | |
| | 22+ | .2 | * | .0 | * | * | .0 | .0 | .1 | .0 | | .4 | |
| | TOT % | 1.2 | .1 | .1 | .1 | .4 | .4 | .5 | 1.7 | .0 | .4 | 4.9 | |
| | 0-3 | .3 | .1 | .1 | .2 | .2 | .3 | .6 | .5 | .0 | .8 | 3.1 | |
| 5<10 | 4-10 | 1.5 | .2 | .3 | .5 | .9 | 1.1 | 2.5 | 4.2 | .0 | | 11.1 | |
| | 11-21 | 3.5 | .2 | .1 | .2 | .2 | .4 | .9 | 5.9 | .0 | | 11.3 | |
| | 22+ | 1.9 | * | .0 | * | .1 | * | .1 | 2.2 | .0 | | 4.2 | |
| | TOT % | 7.2 | .5 | .5 | .9 | 1.3 | 1.7 | 4.1 | 12.7 | .0 | .8 | 29.7 | |
| | 0-3 | .3 | .1 | .2 | .1 | .3 | .3 | .4 | .6 | .0 | 2.2 | 4.6 | |
| 10+ | 4-10 | 3.3 | .7 | .4 | .8 | 1.2 | 1.3 | 3.2 | 7.0 | .0 | | 17.9 | |
| | 11-21 | 8.2 | .4 | .2 | .2 | .4 | .4 | 1.8 | 13.7 | .0 | | 25.3 | |
| | 22+ | 3.9 | * | * | .0 | * | * | .1 | 4.3 | .0 | | 8.4 | |
| | TOT % | 15.7 | 1.3 | .8 | 1.2 | 1.8 | 2.1 | 5.5 | 25.7 | .0 | 2.2 | 56.2 | |
| | TOT OBS | | | | | | | | | | | | 4688 |
| | TOT PCT | 25.5 | 1.9 | 1.5 | 2.6 | 4.2 | 4.9 | 11.3 | 44.0 | .0 | 4.1 | 100.0 | |

SEPTEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.7 | .6 | 2.9 | 7.3 | 15.1 | 4.6 | 1.4 | .6 | .2 | .8 | 38.2 | 61.8 | 850 |
| 06&09 | 4.0 | .5 | 2.7 | 8.0 | 13.9 | 6.3 | .8 | .0 | .1 | .7 | 36.9 | 63.1 | 877 |
| 12&15 | 4.9 | .9 | 3.6 | 10.0 | 16.8 | 4.0 | 1.0 | .3 | .4 | .3 | 42.0 | 58.0 | 800 |
| 18&21 | 5.5 | .2 | 4.5 | 12.2 | 18.6 | 6.1 | .7 | .1 | .2 | .4 | 48.6 | 51.4 | 814 |
| TOT | 159 | 18 | 115 | 311 | 535 | 176 | 33 | 8 | 8 | 18 | 1381 | 1960 | 3341 |
| PCT | 4.8 | .5 | 3.4 | 9.3 | 16.0 | 5.3 | 1.0 | .2 | .2 | .5 | 41.3 | 58.7 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 4.2 | 3.8 | 2.0 | 3.2 | 30.9 | 55.9 | 1195 |
| 06&09 | 3.2 | 2.3 | .9 | 3.5 | 27.4 | 62.6 | 1199 |
| 12&15 | 6.0 | 3.5 | 1.6 | 6.1 | 29.2 | 53.6 | 1224 |
| 18&21 | 4.6 | 3.4 | 3.2 | 6.9 | 31.1 | 50.8 | 1142 |
| TOT | 214 | 156 | 91 | 234 | 1410 | 2655 | 4760 |
| PCT | 4.5 | 3.3 | 1.9 | 4.9 | 29.6 | 55.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 4.7 | 8.6 | 17.3 | 22.0 | 60.7 | 826 |
| 06&09 | 4.1 | 7.5 | 17.6 | 21.1 | 61.4 | 849 |
| 12&15 | 5.0 | 10.7 | 23.1 | 21.3 | 55.7 | 785 |
| 18&21 | 5.9 | 11.4 | 27.4 | 25.0 | 47.6 | 800 |
| TOT | 160 | 310 | 692 | 728 | 1840 | 3260 |
| PCT | 4.9 | 9.5 | 21.2 | 22.3 | 56.4 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | * | .1 | * | .1 | .0 | .0 | .0 | 6 | .2 |
| 75/79 | .0 | * | .0 | .1 | * | .3 | * | .0 | 16 | .5 |
| 70/74 | .0 | .1 | .1 | .3 | .4 | .6 | .3 | .1 | 58 | 1.7 |
| 65/69 | .0 | .0 | .1 | .3 | 1.0 | 3.7 | 4.6 | 2.5 | 403 | 12.2 |
| 60/64 | .0 | .1 | .1 | .2 | 1.7 | 11.3 | 23.6 | 12.8 | 1652 | 49.8 |
| 55/59 | .0 | .0 | .0 | .1 | .2 | 2.6 | 15.7 | 12.7 | 1036 | 31.2 |
| 50/54 | .0 | .0 | .0 | .0 | * | .1 | 1.4 | 2.8 | 145 | 4.4 |
| TOTAL | 0 | 6 | 10 | 37 | 108 | 613 | 1514 | 1028 | 3316 | 100.0 |
| PCT | .0 | .2 | .3 | 1.1 | 3.3 | 18.5 | 45.7 | 31.0 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .1 | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| * | .1 | * | .1 | .1 | * | .1 | .1 | .0 | .0 |
| .4 | .1 | .1 | .0 | .2 | * | .4 | .6 | .0 | .1 |
| 2.8 | .2 | .2 | .2 | .6 | 1.0 | 1.7 | 4.9 | .0 | .7 |
| 14.8 | 1.0 | .7 | 1.3 | 2.0 | 2.2 | 4.7 | 21.1 | .0 | 1.9 |
| 7.6 | .6 | .6 | .7 | .9 | 1.2 | 3.4 | 14.8 | .0 | 1.3 |
| .5 | * | .1 | .1 | .1 | .3 | .8 | 2.2 | .0 | .4 |
| 26.1 | 2.0 | 1.7 | 2.4 | 3.8 | 4.7 | 11.1 | 43.8 | .0 | 4.3 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 82 | 74 | 69 | 61 | 56 | 53 | 51 | 61.8 | 1272 |
| 06&09 | 82 | 70 | 66 | 60 | 54 | 53 | 51 | 60.2 | 1233 |
| 12&15 | 79 | 69 | 65 | 59 | 54 | 52 | 50 | 59.4 | 1283 |
| 18&21 | 80 | 73 | 68 | 61 | 55 | 52 | 51 | 61.4 | 1211 |
| TOT | 82 | 72 | 67 | 60 | 55 | 53 | 50 | 60.7 | 4999 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .0 | 2.1 | 4.8 | 22.8 | 47.0 | 23.3 | 83 | 834 |
| 06&09 | .0 | .4 | 1.8 | 15.3 | 48.9 | 33.7 | 87 | 852 |
| 12&15 | .0 | 1.2 | 1.8 | 12.3 | 43.8 | 40.9 | 87 | 844 |
| 18&21 | .0 | 2.9 | 5.0 | 23.8 | 42.4 | 25.9 | 83 | 802 |
| TOT | 0 | 54 | 111 | 620 | 1528 | 1039 | 85 | 3352 |

SEPTEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | 1 | * | .0 |
| 17/19 | .0 | .0 | .0 | .0 | .0 | * | * | .1 | .0 | 7 | .0 | .2 |
| 14/16 | .0 | .0 | .0 | .0 | .1 | .2 | * | .1 | .0 | 17 | .0 | .4 |
| 11/13 | .0 | .0 | .0 | .2 | .3 | .2 | .1 | * | * | 38 | * | .8 |
| 9/10 | .0 | .0 | .1 | .4 | .6 | .2 | .1 | * | .0 | 56 | * | 1.3 |
| 7/8 | .0 | .0 | .3 | 1.1 | .9 | .3 | .1 | * | * | 117 | .3 | 2.4 |
| 6 | .0 | * | .5 | 1.1 | .6 | .2 | .1 | * | .0 | 106 | .2 | 2.2 |
| 5 | .0 | * | .7 | 1.8 | 1.2 | .3 | * | * | .0 | 178 | .3 | 3.8 |
| 4 | .0 | .2 | 1.7 | 2.5 | 1.0 | .2 | * | * | * | 242 | .6 | 5.0 |
| 3 | .0 | .2 | 1.9 | 2.5 | 1.2 | .1 | * | .0 | .0 | 257 | .5 | 5.5 |
| 2 | .0 | .5 | 3.0 | 5.2 | 1.1 | .3 | * | * | .0 | 438 | 1.3 | 8.8 |
| 1 | * | 1.0 | 3.4 | 4.4 | 1.2 | .1 | .0 | .0 | .0 | 433 | 1.2 | 8.8 |
| 0 | .1 | 2.0 | 5.3 | 5.8 | 1.0 | .1 | .0 | .0 | .0 | 622 | 2.1 | 12.3 |
| -1 | .0 | 2.0 | 4.3 | 3.4 | .6 | .0 | .1 | .0 | .0 | 446 | 1.5 | 8.8 |
| -2 | .1 | 1.9 | 4.3 | 3.1 | .6 | .1 | * | .0 | .0 | 436 | 1.6 | 8.5 |
| -3 | .0 | 1.2 | 3.1 | 2.5 | .1 | * | .0 | .0 | .0 | 300 | .8 | 6.1 |
| -4 | .1 | .8 | 2.4 | 1.3 | .2 | * | * | .0 | .0 | 215 | .9 | 4.1 |
| -5 | .1 | .5 | 1.2 | 1.1 | .1 | .0 | .0 | .0 | .0 | 131 | .4 | 2.6 |
| -6 | * | .6 | 1.4 | .2 | * | .0 | .0 | .0 | .0 | 96 | .3 | 1.9 |
| -7/-8 | * | .6 | 1.7 | .3 | * | .0 | .0 | .0 | .0 | 117 | .3 | 2.5 |
| -9/-10 | * | .5 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | 39 | .1 | .8 |
| -11/-13 | .1 | .4 | * | * | .0 | .0 | .0 | .0 | .0 | 22 | .1 | .4 |
| -14/-16 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| -17/-19 | .0 | * | * | * | .0 | .0 | .0 | .0 | .0 | 3 | .0 | .1 |
| TOTAL | 27 | 535 | 1533 | 1607 | 467 | 97 | 34 | 15 | 4 | 4319 | 543 | 3776 |
| PCT | .6 | 12.4 | 35.5 | 37.2 | 10.8 | 2.2 | .8 | .3 | .1 | 100.0 | 12.6 | 87.4 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .0 | .0 | .0 | .0 | 1.0 |
| 1-2 | .0 | 2.5 | 2.6 | .0 | .0 | .0 | 5.1 |
| 3-4 | .1 | 1.5 | 4.9 | 1.4 | .0 | .0 | 7.9 |
| 5-6 | .0 | .5 | 3.1 | 1.1 | .0 | .0 | 4.7 |
| 7 | .0 | .0 | 1.5 | 1.7 | .2 | .0 | 3.3 |
| 8-9 | .0 | .0 | .5 | .7 | .1 | .0 | 1.3 |
| 10-11 | .0 | .0 | .4 | 1.1 | .1 | .0 | 1.6 |
| 12 | .0 | .0 | .1 | .1 | .1 | .0 | .3 |
| 13-16 | .0 | .0 | .1 | .2 | .1 | .0 | .4 |
| 17-19 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 5.4 | 13.2 | 6.4 | .5 | .0 | 25.6 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .4 | .0 | .0 | .0 | .0 | .5 |
| 1-2 | .0 | .2 | .2 | .0 | .0 | .0 | .4 |
| 3-4 | .0 | .1 | .3 | .1 | .0 | .0 | .5 |
| 5-6 | .1 | .0 | .2 | .0 | .0 | .0 | .2 |
| 7 | .0 | .1 | .1 | * | * | .0 | .2 |
| 8-9 | .0 | .1 | * | .0 | .0 | .0 | .1 |
| 10-11 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | .9 | .8 | .1 | * | .0 | 2.0 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .8 | .5 | .1 | .0 | .0 | .0 | 1.4 |
| 1-2 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 3-4 | .0 | .1 | .3 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | .8 | .6 | .0 | .1 | .0 | 2.2 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .8 | * | .0 | .0 | .0 | .9 |
| 1-2 | .0 | .5 | .0 | .0 | .0 | .0 | .5 |
| 3-4 | .0 | .1 | .2 | .1 | .0 | .0 | .4 |
| 5-6 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 1.5 | .3 | .1 | .0 | .0 | 2.0 |

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0035 SAN FRANCISCO
37.0N 123.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .8 | .1 | .0 | .0 | .0 | .9 |
| 1-2 | .1 | 1.0 | .2 | .0 | .0 | .0 | 1.3 |
| 3-4 | .0 | .2 | .1 | .0 | .0 | .0 | .4 |
| 5-6 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 7 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.0 | .5 | .0 | .0 | .0 | 2.7 |

SW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|
| .2 | .9 | .0 | .0 | .0 | .0 | 1.1 |
| .3 | 1.2 | .4 | .0 | .0 | .0 | 1.8 |
| .0 | .5 | .5 | .0 | .0 | .0 | 1.0 |
| .0 | .2 | .1 | .0 | .0 | .0 | .3 |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .1 | .2 | .7 | .0 | .0 | .0 | .0 | 1.0 | .3 | * | 9.3 | .4 | 4.1 | | .1 | 84.8 |
| NE | .3 | .3 | 2.3 | .0 | .0 | .0 | .0 | 3.0 | .0 | .0 | 8.1 | 1.5 | 8.6 | | .0 | 78.9 |
| E | 1.6 | 2.6 | 1.1 | .0 | .0 | .0 | .0 | 5.3 | .8 | .0 | 10.1 | 1.1 | 11.9 | | .0 | 70.9 |
| SE | 10.9 | .5 | 8.2 | .0 | .0 | .0 | .0 | 15.7 | 3.0 | .0 | 12.5 | .7 | 2.1 | | .0 | 66.1 |
| S | 7.7 | 1.5 | 3.7 | .0 | .0 | .0 | .0 | 11.7 | 2.6 | .0 | 18.0 | .3 | 3.4 | | .0 | 64.1 |
| SW | 4.5 | .8 | 1.7 | .0 | .0 | .0 | .0 | 6.4 | .5 | .0 | 17.1 | 1.4 | 3.9 | | .0 | 70.8 |
| W | 1.3 | .2 | 1.9 | .0 | .0 | .0 | .0 | 3.2 | .5 | .0 | 20.0 | .8 | 5.1 | | .0 | 70.3 |
| NW | .3 | .1 | .7 | .0 | .0 | .0 | .0 | 1.1 | .2 | * | 15.0 | .3 | 5.3 | | * | 78.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 |
| CALM | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | 1.5 | .0 | .0 | 20.1 | .0 | 11.9 | | .0 | 66.4 |
| TOT PCT | 1.5 | .3 | 1.5 | .0 | .0 | .0 | .0 | 3.0 | .6 | * | 14.1 | .5 | 5.1 | | * | 76.7 |
| TOT OBS: | 4317 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 1.2 | .3 | 1.3 | .0 | .0 | .0 | .0 | 2.5 | .5 | .0 | 15.1 | .3 | 6.4 | | .0 | 75.1 |
| 06&09 | 1.3 | .5 | 1.2 | .0 | .0 | .0 | .0 | 2.8 | .5 | .1 | 12.3 | .7 | 3.5 | | .0 | 80.1 |
| 12&15 | 1.6 | .6 | 1.8 | .0 | .0 | .0 | .0 | 3.9 | .8 | .0 | 13.9 | .6 | 2.8 | | .0 | 78.0 |
| 18&21 | 1.8 | .2 | 1.4 | .0 | .0 | .0 | .0 | 3.0 | .4 | .0 | 15.5 | .5 | 7.8 | | .1 | 72.7 |
| TOT PCT | 1.5 | .4 | 1.4 | .0 | .0 | .0 | .0 | 3.1 | .5 | * | 14.2 | .5 | 5.1 | | * | 76.5 |
| TOT OBS: | 4390 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .7 | 6.9 | 12.7 | 5.6 | .6 | .0 | | 26.5 | 16.0 | 27.3 | 20.0 | 26.8 | 22.6 | 28.4 | 28.3 | 30.2 | 23.7 |
| NE | .5 | 1.8 | 1.0 | .1 | * | .0 | | 3.3 | 9.3 | 2.1 | 2.2 | 3.9 | 2.1 | 3.5 | 4.9 | 4.1 | 3.7 |
| E | .4 | 1.3 | .4 | .1 | .0 | .0 | | 2.1 | 8.0 | 1.5 | 1.5 | 1.7 | 1.3 | 2.3 | 4.6 | 2.3 | 2.6 |
| SE | .5 | 1.8 | .9 | .4 | .1 | .0 | | 3.7 | 11.1 | 3.1 | 3.0 | 3.1 | 3.1 | 3.4 | 5.8 | 4.5 | 5.0 |
| S | .7 | 3.2 | 2.0 | .6 | .1 | .0 | | 6.5 | 11.3 | 5.2 | 7.1 | 5.9 | 5.8 | 5.2 | 7.3 | 9.4 | 7.9 |
| SW | .9 | 3.4 | 1.4 | .1 | * | .0 | | 5.8 | 8.4 | 5.9 | 7.1 | 4.8 | 6.2 | 5.0 | 4.6 | 6.1 | 7.9 |
| W | 1.3 | 7.0 | 3.0 | .2 | .0 | .0 | | 11.4 | 8.8 | 12.4 | 15.0 | 11.6 | 13.9 | 12.0 | 7.2 | 7.9 | 11.6 |
| NW | 1.3 | 13.2 | 16.5 | 4.9 | .6 | .0 | | 36.4 | 13.9 | 40.0 | 39.9 | 38.5 | 39.7 | 34.5 | 33.4 | 31.2 | 33.9 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.1 | | | | | | | 4.1 | .0 | 2.4 | 4.1 | 3.9 | 5.2 | 5.6 | 3.9 | 4.4 | 3.7 |
| TOT OBS | 499 | 1871 | 1835 | 582 | 66 | 0 | 4853 | | 12.4 | 862 | 414 | 800 | 382 | 857 | 389 | 634 | 515 |
| TOT PCT | 10.3 | 38.6 | 37.8 | 12.0 | 1.4 | .0 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 3.2 | 11.4 | 9.6 | 2.2 | .1 | | 26.5 | 16.0 | 24.9 | 25.4 | 28.4 | 27.3 |
| NE | 1.3 | 1.6 | .3 | * | .0 | | 3.3 | 9.3 | 2.1 | 3.3 | 3.9 | 3.9 |
| E | .9 | 1.1 | .1 | * | .0 | | 2.1 | 8.0 | 1.5 | 1.6 | 3.0 | 2.4 |
| SE | 1.6 | 1.3 | .7 | .2 | * | | 3.7 | 11.1 | 3.1 | 3.1 | 4.2 | 4.7 |
| S | 2.0 | 3.1 | 1.2 | .2 | * | | 6.5 | 11.3 | 5.9 | 5.9 | 5.9 | 8.7 |
| SW | 2.6 | 2.7 | .4 | .1 | .0 | | 5.8 | 8.4 | 6.3 | 5.3 | 4.9 | 6.9 |
| W | 4.4 | 6.3 | .7 | * | .0 | | 11.4 | 8.8 | 13.3 | 12.3 | 10.5 | 9.5 |
| NW | 5.8 | 18.7 | 10.0 | 1.7 | .2 | | 36.4 | 13.9 | 39.9 | 38.9 | 34.2 | 32.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.1 | | | | | | 4.1 | .0 | 3.0 | 4.3 | 5.1 | 4.1 |
| TOT OBS | 1259 | 2247 | 1115 | 219 | 13 | 4853 | | 12.4 | 1276 | 1182 | 1246 | 1149 |
| TOT PCT | 25.9 | 46.3 | 23.0 | 4.5 | .3 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.0 | 5.2 | 37.9 | 39.1 | 13.7 | 1.2 | .0 | 13.0 | 100.0 | 1276 |
| 06&09 | 4.3 | 5.2 | 38.4 | 38.4 | 12.2 | 1.5 | .0 | 12.7 | 100.0 | 1182 |
| 12&15 | 5.1 | 7.1 | 38.0 | 37.5 | 11.2 | 1.3 | .0 | 12.2 | 100.0 | 1246 |
| 18&21 | 4.1 | 7.4 | 40.1 | 36.1 | 10.8 | 1.5 | .0 | 11.9 | 100.0 | 1149 |
| TOT | 199 | 300 | 1871 | 1835 | 582 | 66 | 0 | 12.4 | | 4853 |
| PCT | 4.1 | 6.2 | 38.6 | 37.8 | 12.0 | 1.4 | .0 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 16.4 | 3.5 | 4.5 | 6.4 | | 3.2 |
| NE | 2.2 | .3 | .5 | .7 | | 2.8 |
| E | 1.0 | .1 | .5 | .4 | | 3.5 |
| SE | .9 | .3 | .6 | 1.3 | | 5.1 |
| S | 1.4 | .5 | 1.5 | 2.7 | | 5.5 |
| SW | 1.3 | .2 | 1.2 | 2.4 | | 5.6 |
| W | 3.9 | .7 | 1.9 | 3.5 | | 4.4 |
| NW | 18.1 | 3.5 | 5.3 | 9.3 | | 3.5 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.0 | .2 | .3 | 1.1 | | 3.4 |
| TOT OBS | 1362 | 265 | 467 | 799 | 2893 | 3.7 |
| TOT PCT | 47.1 | 9.2 | 16.1 | 27.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | 1.1 | .1 | 1.4 | 2.2 | 3.0 | 1.8 | .2 | .1 | * | .1 | 21.3 | |
| NE | .1 | * | * | .3 | .4 | .1 | .1 | * | .0 | * | 2.6 | |
| E | .1 | .0 | * | .1 | .2 | .2 | .1 | * | .0 | .1 | 1.2 | |
| SE | .2 | .0 | .1 | .4 | .4 | .3 | .1 | * | .0 | * | 1.4 | |
| S | .4 | * | .2 | .8 | 1.0 | .4 | .3 | .0 | * | .1 | 2.6 | |
| SW | .3 | * | .2 | .4 | 1.2 | .4 | .2 | * | .1 | * | 2.2 | |
| W | .7 | .1 | .3 | .8 | 1.8 | .4 | .3 | .1 | * | * | 5.4 | |
| NW | 2.5 | .4 | 1.6 | 2.3 | 3.6 | 1.3 | .6 | .1 | .1 | .3 | 23.3 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | .1 | * | .2 | .4 | .1 | * | .0 | .0 | .0 | 2.4 | |
| TOT OBS | 166 | 22 | 111 | 218 | 346 | 135 | 55 | 12 | 6 | 19 | 1803 | 2893 |
| TOT PCT | 5.7 | .8 | 3.8 | 7.5 | 12.0 | 4.7 | 1.9 | .4 | .2 | .7 | 62.3 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | .9 | .9 | .9 | .9 | .9 | .9 | .9 |
| * OR >5000 | .9 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| * OR >3500 | 2.2 | 3.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| * OR >2000 | 5.5 | 7.4 | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 7.9 |
| * OR >1000 | 13.0 | 18.6 | 19.5 | 19.6 | 19.7 | 19.7 | 19.8 | 19.8 |
| * OR >600 | 16.5 | 25.2 | 26.8 | 27.0 | 27.1 | 27.1 | 27.2 | 27.2 |
| * OR >300 | 17.6 | 27.9 | 30.3 | 30.7 | 30.9 | 31.0 | 31.1 | 31.1 |
| * OR >150 | 17.8 | 28.3 | 30.8 | 31.3 | 31.6 | 31.7 | 31.9 | 31.9 |
| * OR > 0 | 17.9 | 29.1 | 32.4 | 33.5 | 34.6 | 35.6 | 36.7 | 37.5 |
| TOTAL | 522 | 848 | 946 | 977 | 1009 | 1039 | 1069 | 1094 |

TOTAL NUMBER OF OBS: 2916

PCT FREQ NH <5/8: 62.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 35.7 | 9.0 | 8.5 | 5.1 | 2.9 | 3.0 | 4.7 | 6.2 | 19.8 | 5.1 | 3069 |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | .1 | .0 | * | .1 | .0 | * | * | .0 | .0 | .3 | |
| <1/2 | NO PCP | .9 | * | .1 | .2 | .6 | .3 | .6 | 1.8 | .0 | .2 | 4.7 | |
| | TOT % | .9 | .1 | .1 | .2 | .6 | .3 | .6 | 1.9 | .0 | .2 | 4.9 | |
| | PCP | .0 | .0 | .0 | * | .1 | * | * | * | .0 | .0 | .2 | |
| 1/2<1 | NO PCP | .4 | * | .1 | .1 | .4 | .4 | .6 | 1.2 | .0 | .1 | 3.2 | |
| | TOT % | .4 | * | .1 | .1 | .5 | .4 | .6 | 1.2 | .0 | .1 | 3.4 | |
| | PCP | .0 | * | .0 | .1 | .1 | .0 | * | * | .0 | .0 | .2 | |
| 1<2 | NO PCP | .4 | * | .0 | .1 | .1 | .1 | .5 | .5 | .0 | .1 | 1.8 | |
| | TOT % | .4 | .1 | .0 | .1 | .2 | .1 | .5 | .6 | .0 | .1 | 2.0 | |
| | PCP | * | .0 | .0 | .1 | .2 | * | .1 | .1 | .0 | .0 | .6 | |
| 2<5 | NO PCP | 1.1 | .3 | .1 | .1 | .2 | .3 | .6 | 1.3 | .0 | .3 | 4.2 | |
| | TOT % | 1.2 | .3 | .1 | .2 | .4 | .3 | .6 | 1.4 | .0 | .3 | 4.8 | |
| | PCP | .1 | * | .1 | .1 | .3 | .2 | .2 | .2 | .0 | .0 | 1.3 | |
| 5<10 | NO PCP | 7.3 | 1.0 | .5 | .9 | 1.6 | 1.2 | 2.9 | 9.7 | .0 | 1.0 | 26.1 | |
| | TOT % | 7.4 | 1.0 | .6 | 1.0 | 1.9 | 1.5 | 3.1 | 9.9 | .0 | 1.0 | 27.4 | |
| | PCP | .1 | .0 | .0 | .1 | * | .1 | .1 | * | .0 | * | .4 | |
| 10+ | NO PCP | 17.2 | 2.0 | 1.3 | 1.7 | 3.1 | 3.1 | 6.2 | 20.9 | .0 | 1.5 | 57.0 | |
| | TOT % | 17.3 | 2.0 | 1.3 | 1.8 | 3.1 | 3.2 | 6.3 | 20.9 | .0 | 1.6 | 57.5 | |
| | TOT OBS | | | | | | | | | | | | 4307 |
| | TOT PCT | 27.6 | 3.5 | 2.2 | 3.5 | 6.7 | 5.8 | 11.7 | 35.9 | .0 | 3.1 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .1 | .0 | .1 | .1 | .1 | .1 | .1 | .0 | .3 | .9 | |
| <1/2 | 4-10 | .4 | .0 | .1 | .1 | .3 | .2 | .4 | 1.2 | .0 | | 2.8 | |
| | 11-21 | .5 | * | .0 | * | .1 | * | * | .6 | .0 | | 1.3 | |
| | 22+ | .1 | .0 | .0 | .0 | * | .0 | .0 | * | .0 | | .2 | |
| | TOT % | .9 | .1 | .1 | .2 | .6 | .4 | .6 | 1.9 | .0 | .3 | 5.2 | |
| | 0-3 | .0 | .0 | * | * | * | .1 | * | * | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .1 | * | * | * | .2 | .2 | .4 | .5 | .0 | | 1.5 | |
| | 11-21 | .2 | * | * | * | .1 | .1 | .1 | .6 | .0 | | 1.2 | |
| | 22+ | * | .0 | .0 | * | * | .0 | .0 | .1 | .0 | | .2 | |
| | TOT % | .4 | * | .1 | .1 | .5 | .4 | .6 | 1.2 | .0 | .1 | 3.3 | |
| | 0-3 | * | .0 | .0 | * | * | * | .1 | * | .0 | .1 | .3 | |
| 1<2 | 4-10 | .2 | .1 | .0 | * | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | .3 | * | .0 | * | .1 | .1 | .1 | .4 | .0 | | .9 | |
| | 22+ | * | .0 | .0 | .1 | * | .0 | * | .1 | .0 | | .2 | |
| | TOT % | .5 | .1 | .0 | .1 | .2 | .2 | .5 | .8 | .0 | .1 | 2.5 | |
| | 0-3 | * | .1 | * | .0 | .1 | * | .1 | .1 | .0 | .3 | .7 | |
| 2<5 | 4-10 | .6 | .2 | .1 | .1 | .1 | .3 | .5 | .8 | .0 | | 2.6 | |
| | 11-21 | .6 | * | .0 | * | .2 | .1 | .1 | .6 | .0 | | 1.6 | |
| | 22+ | .1 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | .0 | | .4 | |
| | TOT % | 1.3 | .3 | .1 | .3 | .5 | .4 | .7 | 1.6 | .0 | .3 | 5.3 | |
| | 0-3 | .2 | .1 | .1 | .1 | .2 | .2 | .3 | .5 | .0 | 1.1 | 2.7 | |
| 5<10 | 4-10 | 1.8 | .5 | .4 | .5 | .8 | .9 | 1.8 | 3.4 | .0 | | 10.0 | |
| | 11-21 | 3.7 | .3 | .1 | .3 | .6 | .3 | .8 | 4.4 | .0 | | 10.5 | |
| | 22+ | 1.7 | * | .0 | .1 | .2 | .1 | .1 | 1.5 | .0 | | 3.6 | |
| | TOT % | 7.3 | 1.0 | .6 | 1.0 | 1.8 | 1.4 | 3.0 | 9.7 | .0 | 1.1 | 26.9 | |
| | 0-3 | .5 | .2 | .2 | .2 | .1 | .4 | .6 | .4 | .0 | 1.7 | 4.3 | |
| 10+ | 4-10 | 4.0 | 1.1 | .8 | 1.0 | 1.6 | 1.7 | 3.8 | 6.8 | .0 | | 20.7 | |
| | 11-21 | 7.9 | .6 | .3 | .4 | .9 | .9 | 1.7 | 10.2 | .0 | | 22.9 | |
| | 22+ | 4.5 | .1 | * | .1 | .3 | .1 | .1 | 3.7 | .0 | | 9.0 | |
| | TOT % | 16.9 | 1.9 | 1.3 | 1.7 | 3.0 | 3.0 | 6.2 | 21.1 | .0 | 1.7 | 56.9 | |
| | TOT OBS | | | | | | | | | | | | 4558 |
| | TOT PCT | 27.2 | 3.4 | 2.1 | 3.4 | 6.5 | 5.8 | 11.6 | 36.3 | .0 | 3.6 | 100.0 | |

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 5.6 | 1.1 | 3.7 | 6.6 | 12.0 | 3.9 | 1.7 | .4 | .3 | .8 | 36.0 | 64.0 | 792 |
| 06&09 | 5.0 | .3 | 4.4 | 6.0 | 10.9 | 4.3 | 2.0 | .3 | .1 | .3 | 33.4 | 66.6 | 800 |
| 12&15 | 7.1 | .6 | 3.8 | 6.8 | 12.1 | 5.0 | 1.4 | .4 | .3 | .6 | 38.1 | 61.9 | 717 |
| 18&21 | 4.9 | 1.1 | 3.2 | 10.0 | 11.8 | 5.1 | 2.5 | .6 | .1 | 1.1 | 40.5 | 59.5 | 711 |
| TOT | 168 | 22 | 113 | 218 | 348 | 135 | 57 | 12 | 6 | 20 | 1099 | 1881 | 2980 |
| PCT | 5.6 | .7 | 3.8 | 7.3 | 11.7 | 4.5 | 1.9 | .4 | .2 | .7 | 36.9 | 63.1 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 5.9 | 4.1 | 3.9 | 5.1 | 27.8 | 53.9 | 1227 |
| 06&09 | 3.9 | 2.5 | 1.7 | 4.5 | 24.2 | 63.1 | 1147 |
| 12&15 | 6.5 | 3.1 | 2.1 | 5.0 | 26.7 | 56.6 | 1185 |
| 18&21 | 4.8 | 3.5 | 2.9 | 6.6 | 29.9 | 52.3 | 1072 |
| TOT | 245 | 153 | 116 | 244 | 1256 | 2617 | 4631 |
| PCT | 5.3 | 3.3 | 2.5 | 5.3 | 27.1 | 56.5 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 5.6 | 11.5 | 21.4 | 18.3 | 60.2 | 732 |
| 06&09 | 5.0 | 10.7 | 18.9 | 17.0 | 64.1 | 793 |
| 12&15 | 7.0 | 12.5 | 22.0 | 19.1 | 58.9 | 696 |
| 18&21 | 5.0 | 11.1 | 25.5 | 20.3 | 54.2 | 695 |
| TOT | 165 | 333 | 637 | 543 | 1736 | 2916 |
| PCT | 5.7 | 11.4 | 21.8 | 18.6 | 59.5 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | 2 | .1 |
| 75/79 | * | .1 | .1 | .1 | .2 | .0 | .0 | .0 | 14 | .5 |
| 70/74 | .0 | * | .2 | .3 | .1 | .2 | .0 | * | 28 | .9 |
| 65/69 | .0 | * | .1 | .4 | 1.2 | 1.9 | 2.0 | 1.1 | 204 | 6.6 |
| 60/64 | .0 | * | .2 | .4 | 2.2 | 8.1 | 15.7 | 10.6 | 1145 | 37.3 |
| 55/59 | .0 | .0 | .2 | .6 | 2.3 | 7.1 | 21.2 | 16.3 | 1466 | 47.7 |
| 50/54 | .0 | .0 | .0 | .1 | .4 | .9 | 2.6 | 2.8 | 208 | 6.8 |
| 45/49 | .0 | .0 | .0 | .0 | * | .1 | * | .0 | 4 | .1 |
| TOTAL | 1 | 7 | 25 | 57 | 200 | 562 | 1274 | 945 | 3071 | 100.0 |
| PCT | * | .2 | .8 | 1.9 | 6.5 | 18.3 | 41.5 | 30.8 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| .1 | * | * | .0 | * | .0 | * | .2 | .0 | .1 |
| .2 | * | * | * | * | .1 | .1 | .2 | .0 | .2 |
| 1.6 | .3 | .3 | .3 | .5 | .6 | 1.0 | 1.8 | .0 | .4 |
| 10.6 | 1.1 | .8 | 1.5 | 3.2 | 2.6 | 4.0 | 12.5 | .0 | .9 |
| 13.6 | 1.6 | 1.1 | 1.5 | 2.4 | 2.2 | 5.5 | 18.4 | .0 | 1.5 |
| 1.3 | .1 | .1 | .2 | .4 | .3 | 1.2 | 3.0 | .0 | .2 |
| * | * | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| 27.4 | 3.2 | 2.4 | 3.5 | 6.6 | 5.8 | 11.8 | 36.2 | .0 | 3.2 |

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 83 | 73 | 67 | 60 | 54 | 52 | 50 | 60.2 | 1293 |
| 06&09 | 73 | 68 | 64 | 59 | 53 | 52 | 49 | 58.8 | 1196 |
| 12&15 | 81 | 66 | 64 | 58 | 53 | 51 | 48 | 58.1 | 1262 |
| 18&21 | 78 | 72 | 67 | 60 | 55 | 53 | 51 | 60.3 | 1158 |
| TOT | 83 | 70 | 66 | 59 | 54 | 52 | 48 | 59.3 | 4909 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 4.1 | 6.7 | 20.8 | 40.5 | 27.8 | 83 | 824 |
| 06&09 | .0 | 2.4 | 5.8 | 14.8 | 45.3 | 32.7 | 85 | 805 |
| 12&15 | .0 | 1.4 | 3.5 | 10.1 | 45.2 | 35.8 | 86 | 766 |
| 18&21 | .0 | 5.0 | 10.0 | 21.5 | 36.0 | 27.5 | 82 | 713 |
| TOT | 1 | 92 | 200 | 566 | 1287 | 962 | 84 | 3108 |

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | 81 84 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .0 | 3 | * | * |
| 17/19 | .0 | .0 | .0 | .0 | * | * | * | * | * | 7 | .0 | .2 |
| 14/16 | .0 | .0 | .0 | * | * | .1 | .1 | .1 | .0 | 17 | * | .4 |
| 11/13 | .0 | .0 | .0 | .1 | .2 | .1 | .1 | * | * | 24 | .0 | .6 |
| 9/10 | .0 | .0 | .0 | .5 | .4 | .2 | * | .0 | .0 | 43 | .1 | .9 |
| 7/8 | .0 | .0 | .2 | .9 | .7 | .2 | * | .0 | .0 | 85 | .2 | 1.8 |
| 6 | .0 | .1 | .5 | .8 | .5 | .1 | .0 | .0 | .0 | 83 | .2 | 1.8 |
| 5 | .0 | .1 | .7 | 1.2 | .5 | .1 | .0 | .0 | .0 | 108 | .4 | 2.2 |
| 4 | .0 | .3 | 1.4 | 1.9 | .6 | .1 | * | * | .0 | 180 | .3 | 4.0 |
| 3 | .0 | .2 | 2.5 | 1.9 | .8 | * | .0 | .0 | .0 | 225 | .3 | 5.1 |
| 2 | .0 | .4 | 3.5 | 4.1 | .6 | * | * | .0 | .0 | 361 | 1.0 | 7.7 |
| 1 | .1 | 1.3 | 4.9 | 3.0 | .4 | .0 | .0 | .0 | .0 | 403 | 1.0 | 8.6 |
| 0 | .1 | 2.1 | 7.4 | 4.5 | .5 | .1 | .0 | .0 | .0 | 616 | 2.2 | 12.6 |
| -1 | .1 | 2.3 | 6.1 | 2.3 | .3 | .0 | .0 | .0 | .0 | 461 | 1.4 | 9.7 |
| -2 | .1 | 4.0 | 6.4 | 2.1 | .3 | * | .0 | .0 | .0 | 541 | 2.3 | 10.7 |
| -3 | .2 | 2.5 | 3.8 | 1.2 | .2 | * | .0 | .0 | .0 | 329 | 1.2 | 6.7 |
| -4 | .2 | 2.4 | 2.9 | .9 | .1 | .0 | .0 | .0 | .0 | 272 | 1.4 | 5.1 |
| -5 | .2 | 1.2 | 1.9 | .4 | * | * | .0 | .0 | .0 | 159 | .7 | 3.1 |
| -6 | .1 | .8 | 1.0 | .2 | .0 | .0 | .0 | .0 | .0 | 88 | .4 | 1.8 |
| -7/-8 | .1 | .8 | 1.2 | .1 | .0 | .0 | .0 | .0 | .0 | 93 | .4 | 1.9 |
| -9/-10 | * | .4 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | 39 | .2 | .8 |
| -11/-13 | .0 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | 20 | .1 | .4 |
| -14/-16 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 4 | .0 | .1 |
| -17/-19 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 57 | 799 | 1875 | 1097 | 251 | 52 | 17 | 12 | 2 | 4162 | 574 | 3588 |
| PCT | 1.4 | 19.2 | 45.1 | 26.4 | 6.0 | 1.2 | .4 | .3 | * | 100.0 | 13.8 | 86.2 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.8 | .1 | .0 | .0 | .0 | 2.2 |
| 1-2 | .0 | 3.4 | 1.9 | .0 | .0 | .0 | 5.3 |
| 3-4 | .0 | 1.5 | 4.1 | .8 | .0 | .0 | 6.4 |
| 5-6 | .0 | .3 | 3.3 | 1.2 | .1 | .0 | 5.0 |
| 7 | .0 | .1 | 1.6 | .8 | .0 | .0 | 2.5 |
| 8-9 | .0 | .0 | .3 | 1.2 | .0 | .0 | 1.4 |
| 10-11 | .0 | .0 | .5 | .8 | .1 | .0 | 1.4 |
| 12 | .0 | .0 | .1 | .3 | .0 | .0 | .4 |
| 13-16 | .0 | .0 | .1 | .2 | .2 | .0 | .5 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 7.0 | 12.0 | 5.3 | .4 | .0 | 25.1 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .7 | * | .0 | .0 | .0 | 1.0 |
| 1-2 | .1 | .8 | .4 | .0 | .0 | .0 | 1.2 |
| 3-4 | .0 | .5 | .3 | * | .0 | .0 | .8 |
| 5-6 | .0 | * | .2 | .0 | .0 | .0 | .3 |
| 7 | .0 | .0 | .1 | * | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.1 | 1.1 | * | .0 | .0 | 3.5 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .7 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .1 | .7 | .2 | .0 | .0 | .0 | .9 |
| 3-4 | .0 | .2 | .6 | .0 | .0 | .0 | .8 |
| 5-6 | .0 | .0 | .1 | .1 | .0 | .0 | .2 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 1.6 | .9 | .1 | .0 | .0 | 2.8 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.1 | .0 | .0 | .0 | .0 | 1.4 |
| 1-2 | .1 | .5 | .4 | .0 | .0 | .0 | 1.0 |
| 3-4 | .1 | .4 | .7 | .1 | .0 | .0 | 1.2 |
| 5-6 | .0 | .1 | .1 | * | .0 | .0 | .2 |
| 7 | .0 | * | .1 | .1 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | * | .0 | .0 | .0 | * |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 2.1 | 1.2 | .2 | .0 | .0 | 4.0 |

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0035 SAN FRANCISCO 36.9N 123.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .4 | 1.7 | .0 | .0 | .0 | .0 | 2.1 | .5 | 1.9 | .0 | .0 | .0 | .0 | 2.5 |
| 1-2 | .1 | 1.2 | .5 | .0 | .0 | .0 | 1.8 | .2 | 1.0 | .3 | .0 | .0 | .0 | 1.4 |
| 3-4 | .1 | .4 | 1.2 | .2 | .0 | .0 | 1.9 | .1 | .5 | .5 | .0 | .0 | .0 | 1.1 |
| 5-6 | .0 | .1 | .5 | .0 | .0 | .0 | .6 | .0 | .1 | .4 | .1 | .0 | .0 | .5 |
| 7 | .0 | .1 | .4 | .1 | .0 | .0 | .6 | .0 | .1 | .2 | .0 | .0 | .0 | .2 |
| 8-9 | .0 | .0 | .1 | .1 | .0 | .0 | .1 | .0 | .0 | * | .0 | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .1 | .1 | .0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 3.4 | 2.9 | .4 | .0 | .0 | 7.2 | .8 | 3.6 | 1.4 | .1 | .0 | .0 | 5.8 |

| | W | | | | | | | NW | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | 1.0 | 4.1 | .1 | .0 | .0 | .0 | 5.2 | .6 | 2.9 | .1 | .0 | .0 | .0 | 3.6 | |
| 1-2 | .2 | 2.5 | .6 | .0 | .0 | .0 | 3.3 | .3 | 5.0 | 3.3 | .0 | .0 | .0 | 8.6 | |
| 3-4 | .0 | 1.7 | 1.5 | .1 | .0 | .0 | 3.3 | .0 | 3.0 | 6.6 | 1.0 | .0 | .0 | 10.6 | |
| 5-6 | .1 | .2 | .6 | .0 | .0 | .0 | .9 | .0 | .5 | 3.5 | .7 | * | .0 | 4.8 | |
| 7 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | .0 | .3 | 2.4 | .9 | .2 | .0 | 3.8 | |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .2 | .0 | .2 | .7 | .7 | .1 | .0 | 1.7 | |
| 10-11 | .0 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | .3 | .5 | .1 | .0 | 1.0 | |
| 12 | .0 | .0 | .1 | .0 | .0 | .0 | .1 | .0 | .0 | .2 | .1 | .0 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .4 | .2 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 1.3 | 8.7 | 3.2 | .1 | .0 | .0 | 13.3 | .9 | 12.0 | 17.0 | 4.4 | .5 | .0 | 34.9 | 96.6 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.0 | 14.8 | .2 | .0 | .0 | .0 | 22.1 | |
| 1-2 | 1.3 | 15.0 | 7.5 | .0 | .0 | .0 | 23.7 | |
| 3-4 | .2 | 8.2 | 15.4 | 2.2 | .0 | .0 | 26.1 | |
| 5-6 | .1 | 1.3 | 8.9 | 2.0 | .2 | .0 | 12.4 | |
| 7 | .0 | .6 | 4.9 | 1.9 | .2 | .0 | 7.5 | |
| 8-9 | .0 | .2 | 1.2 | 2.0 | .1 | .0 | 3.5 | |
| 10-11 | .0 | .2 | .8 | 1.4 | .2 | .0 | 2.5 | |
| 12 | .0 | .0 | .5 | .5 | .0 | .0 | 1.0 | |
| 13-16 | .0 | .1 | .2 | .6 | .4 | .0 | 1.2 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1327 |
| TOT PCT | 8.6 | 40.4 | 39.6 | 10.5 | .9 | .0 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.0 | 8.6 | 11.9 | 4.7 | 2.5 | 1.0 | .4 | .3 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 874 | 4 |
| 6-7 | .1 | 2.0 | 7.1 | 7.1 | 4.1 | 2.8 | 1.6 | .6 | .8 | .1 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 730 | 6 |
| 8-9 | .0 | 1.9 | 4.2 | 3.9 | 4.9 | 2.6 | 1.7 | 1.1 | .8 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 588 | 6 |
| 10-11 | .0 | .9 | 1.3 | 1.0 | 1.0 | 1.3 | .9 | .7 | .6 | .1 | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 221 | 7 |
| 12-13 | .0 | .0 | .3 | .5 | .5 | .5 | .5 | .4 | .4 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 96 | 9 |
| >14 | .0 | .0 | .0 | .1 | .2 | .1 | .2 | * | .4 | .1 | .2 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | 39 | 13 |
| INDET | 4.2 | 1.6 | .7 | .7 | .3 | .1 | .1 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 217 | 2 |
| TOTAL | 175 | 416 | 702 | 500 | 371 | 234 | 150 | 87 | 90 | 20 | 15 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2765 | 5 |
| PCT | 6.3 | 15.0 | 25.4 | 18.1 | 13.4 | 8.5 | 5.4 | 3.1 | 3.3 | .7 | .5 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .5 | .2 | 1.0 | .0 | .0 | .0 | .0 | 1.7 | .2 | .1 | 10.3 | .6 | 3.6 | .0 | | 83.4 |
| NE | 1.0 | .5 | .8 | .0 | .0 | .0 | .0 | 2.3 | .5 | .0 | 10.6 | .5 | 5.5 | .0 | | 80.7 |
| E | 1.6 | .5 | 2.0 | .0 | .0 | .0 | .0 | 4.2 | 1.1 | .0 | 17.6 | 2.4 | 6.6 | .0 | | 68.1 |
| SE | 9.8 | 1.2 | 4.4 | .0 | .0 | .0 | .1 | 15.5 | 2.1 | .0 | 15.7 | .7 | 2.1 | .0 | | 64.0 |
| S | 7.8 | 1.5 | 6.4 | .0 | .0 | .0 | .2 | 15.1 | 3.1 | .2 | 13.7 | .8 | 2.4 | .2 | | 64.7 |
| SW | 5.3 | 2.6 | 4.0 | .0 | .0 | .0 | .0 | 11.0 | 4.2 | .1 | 13.3 | 1.4 | 4.4 | .0 | | 65.7 |
| W | 3.1 | 1.1 | 2.6 | .0 | .0 | .0 | .0 | 6.1 | 2.9 | .2 | 16.0 | .2 | 4.4 | .0 | | 70.3 |
| NW | .4 | .8 | .9 | .0 | .0 | .0 | .0 | 2.0 | 1.1 | .2 | 13.3 | .2 | 3.1 | .0 | | 80.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.2 | .0 | 1.2 | .0 | .0 | .0 | .0 | 2.5 | .0 | .0 | 24.1 | .6 | 11.1 | .0 | | 61.7 |
| TOT PCT | 2.7 | .9 | 2.3 | .0 | .0 | .0 | * | 5.6 | 1.5 | .1 | 13.5 | .6 | 3.9 | * | | 74.8 |
| TOT OBS: | 4428 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WD PCPN | FOG WD PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00&03 | 3.0 | .8 | 1.9 | .0 | .0 | .0 | .0 | 5.6 | 1.1 | .2 | 12.1 | .7 | 4.4 | .0 | | 76.1 |
| 06&09 | 2.8 | .9 | 2.3 | .0 | .0 | .0 | .1 | 5.9 | 1.8 | .3 | 11.7 | .4 | 2.7 | .1 | | 77.2 |
| 12&15 | 2.6 | 1.0 | 2.6 | .0 | .0 | .0 | .0 | 5.9 | 1.9 | .2 | 15.7 | .6 | 2.6 | .0 | | 73.2 |
| 18&21 | 2.4 | .6 | 2.2 | .0 | .0 | .0 | .0 | 5.1 | 1.3 | .0 | 15.0 | .8 | 6.0 | .0 | | 71.8 |
| TOT PCT | 2.7 | .9 | 2.3 | .0 | .0 | .0 | * | 5.6 | 1.5 | .2 | 13.6 | .6 | 3.9 | * | | 74.6 |
| TOT OBS: | 4498 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.2 | 9.1 | 10.4 | 3.3 | .4 | .0 | | 24.4 | 13.7 | 25.3 | 22.7 | 25.0 | 20.7 | 22.4 | 27.7 | 24.0 | 27.1 |
| NE | .5 | 2.6 | 1.5 | .3 | * | .0 | | 4.9 | 10.0 | 3.3 | 4.3 | 3.8 | 3.0 | 6.1 | 6.9 | 6.2 | 6.1 |
| E | .7 | 2.1 | 1.2 | .1 | .0 | .0 | | 4.1 | 8.6 | 2.6 | 2.6 | 2.8 | 4.4 | 4.6 | 7.2 | 5.8 | 3.8 |
| SE | .8 | 2.8 | 2.8 | .8 | .3 | * | | 7.4 | 12.7 | 6.6 | 6.6 | 5.4 | 7.7 | 7.1 | 8.3 | 10.3 | 8.6 |
| S | .8 | 3.9 | 4.5 | 1.2 | .2 | .0 | | 10.7 | 13.3 | 13.0 | 8.5 | 12.4 | 10.3 | 9.2 | 8.9 | 11.2 | 8.6 |
| SW | .8 | 3.6 | 3.3 | .4 | * | .0 | | 8.1 | 10.8 | 8.9 | 10.4 | 8.6 | 8.2 | 8.5 | 4.6 | 7.2 | 7.6 |
| W | .8 | 4.8 | 3.2 | .7 | * | .0 | | 9.4 | 10.8 | 9.2 | 11.1 | 10.8 | 10.0 | 9.2 | 9.1 | 8.9 | 6.9 |
| NW | 1.2 | 10.4 | 11.0 | 3.6 | .4 | .0 | | 26.5 | 13.6 | 27.7 | 28.8 | 27.0 | 30.0 | 27.5 | 24.1 | 20.9 | 27.5 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.4 | | | | | | | 4.4 | .0 | 3.3 | 5.0 | 4.1 | 5.7 | 5.2 | 3.3 | 5.4 | 4.0 |
| TOT OBS | 553 | 1926 | 1854 | 507 | 64 | 1 | 4905 | | 12.0 | 935 | 360 | 800 | 351 | 877 | 396 | 707 | 479 |
| TOT PCT | 11.3 | 39.3 | 37.8 | 10.3 | 1.3 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.4 | 12.6 | 5.9 | 1.4 | .1 | | 24.4 | 13.7 | 24.6 | 23.7 | 24.1 | 25.2 |
| NE | 1.6 | 2.7 | .6 | .1 | .0 | | 4.9 | 10.0 | 3.6 | 3.6 | 6.4 | 6.2 |
| E | 1.8 | 1.9 | .3 | .1 | .0 | | 4.1 | 8.6 | 2.6 | 3.3 | 5.4 | 5.0 |
| SE | 2.0 | 3.5 | 1.3 | .5 | .1 | | 7.4 | 12.7 | 6.6 | 6.1 | 7.4 | 9.6 |
| S | 2.3 | 5.1 | 2.6 | .6 | * | | 10.7 | 13.3 | 11.7 | 11.8 | 9.1 | 10.1 |
| SW | 2.5 | 4.3 | 1.2 | .1 | .0 | | 8.1 | 10.8 | 9.3 | 8.5 | 7.3 | 7.4 |
| W | 3.1 | 4.7 | 1.5 | .2 | .0 | | 9.4 | 10.8 | 9.7 | 10.6 | 9.2 | 8.1 |
| NW | 4.5 | 14.3 | 5.9 | 1.7 | .1 | | 26.5 | 13.6 | 28.0 | 27.9 | 26.5 | 23.6 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 4.4 | | | | | | 4.4 | .0 | 3.8 | 4.6 | 4.6 | 4.8 |
| TOT OBS | 1304 | 2411 | 947 | 228 | 15 | 4905 | | 12.0 | 1295 | 1151 | 1273 | 1186 |
| TOT PCT | 26.6 | 49.2 | 19.3 | 4.6 | .3 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

NOVEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.8 | 6.2 | 35.8 | 39.8 | 12.8 | 1.5 | .1 | 12.9 | 100.0 | 1295 |
| 06&09 | 4.6 | 5.5 | 40.2 | 38.4 | 10.2 | 1.1 | .0 | 12.0 | 100.0 | 1151 |
| 12&15 | 4.6 | 7.1 | 40.6 | 38.5 | 8.4 | .7 | .0 | 11.5 | 100.0 | 1273 |
| 18&21 | 4.8 | 8.5 | 40.7 | 34.2 | 9.9 | 1.9 | .0 | 11.6 | 100.0 | 1186 |
| TOT | 218 | 335 | 1926 | 1854 | 507 | 64 | 1 | 12.0 | | 4905 |
| PCT | 4.4 | 6.8 | 39.3 | 37.8 | 10.3 | 1.3 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 11.6 | 3.5 | 5.4 | 4.3 | | 3.5 |
| NE | 2.7 | .5 | 1.0 | .8 | | 3.1 |
| E | 1.3 | .6 | 1.0 | 1.3 | | 4.6 |
| SE | 1.0 | .5 | 2.1 | 3.8 | | 6.2 |
| S | 1.4 | 1.0 | 3.1 | 5.8 | | 6.3 |
| SW | 1.5 | 1.1 | 2.1 | 3.5 | | 5.6 |
| W | 2.7 | 1.4 | 2.3 | 3.1 | | 4.8 |
| NW | 11.2 | 3.5 | 6.0 | 4.* | | 3.6 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 2.0 | .4 | 1.0 | 1.2 | | 4.0 |
| TOT OBS | 1061 | 370 | 719 | 847 | 2997 | 4.4 |
| TOT PCT | 35.4 | 12.3 | 24.0 | 28.3 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | 1.0 | .2 | .4 | 1.4 | 2.8 | 1.1 | .2 | .1 | .1 | .1 | 17.4 | |
| NE | .1 | * | .1 | .3 | .3 | .2 | .1 | * | .0 | * | 3.6 | |
| E | .4 | .0 | .1 | .2 | .4 | .5 | .1 | * | .0 | .1 | 2.4 | |
| SE | .5 | .1 | .5 | 1.2 | 1.4 | .5 | .3 | .1 | .0 | .1 | 2.6 | |
| S | 1.1 | .3 | .4 | 1.7 | 2.2 | 1.2 | .3 | .2 | .0 | .1 | 3.8 | |
| SW | .6 | .2 | .1 | .9 | 1.4 | .9 | .3 | .2 | .1 | .1 | 3.5 | |
| W | .6 | .2 | .2 | .7 | 1.7 | .7 | .2 | * | .0 | .0 | 5.1 | |
| NW | .9 | .1 | .4 | 2.1 | 3.1 | 1.1 | .4 | .1 | .1 | .2 | 16.8 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .5 | * | * | .2 | .3 | .3 | .0 | .0 | .0 | .2 | 3.0 | |
| TOT OBS | 175 | 33 | 66 | 256 | 409 | 197 | 58 | 21 | 9 | 29 | 1744 | 2997 |
| TOT PCT | 5.8 | 1.1 | 2.2 | 8.5 | 13.6 | 6.6 | 1.9 | .7 | .3 | 1.0 | 58.2 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| * OR >5000 | 1.0 | 1.7 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| * OR >3500 | 2.4 | 3.5 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| * OR >2000 | 6.3 | 9.7 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| * OR >1000 | 15.1 | 22.2 | 23.6 | 23.8 | 23.9 | 24.0 | 24.0 | 24.0 |
| * OR >600 | 19.1 | 28.9 | 31.5 | 32.0 | 32.2 | 32.3 | 32.5 | 32.5 |
| * OR >300 | 19.6 | 30.2 | 33.3 | 33.9 | 34.3 | 34.4 | 34.6 | 34.6 |
| * OR >150 | 20.0 | 31.0 | 34.2 | 34.8 | 35.3 | 35.5 | 35.7 | 35.7 |
| * OR > 0 | 20.2 | 31.8 | 35.6 | 36.8 | 38.0 | 39.0 | 40.8 | 41.5 |
| TOTAL | 610 | 960 | 1075 | 1110 | 1146 | 1175 | 1232 | 1252 |

TOTAL NUMBER OF OBS: 3016 PCT FREQ NH <5/8: 58.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 26.3 | 9.4 | 10.1 | 7.2 | 4.7 | 5.6 | 6.7 | 6.8 | 18.7 | 4.5 | 3199 |

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .1 | * | * | * | .1 | * | * | .1 | .0 | .0 | .4 | |
| <1/2 | NO PCP | .7 | .1 | .3 | .5 | .6 | .3 | .5 | 1.2 | .0 | .3 | 4.5 | |
| | TOT % | .8 | .1 | .4 | .5 | .7 | .3 | .5 | 1.3 | .0 | .3 | 4.9 | |
| | PCP | * | * | .0 | .1 | .2 | * | .1 | * | .0 | .0 | .4 | |
| 1/2<1 | NO PCP | .9 | .1 | .1 | .2 | .2 | .2 | .3 | .7 | .0 | .1 | 2.9 | |
| | TOT % | .9 | .1 | .1 | .3 | .4 | .3 | .4 | .8 | .0 | .1 | 3.3 | |
| | PCP | .0 | .0 | * | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .3 | |
| 1<2 | NO PCP | .2 | * | .1 | .1 | .2 | .2 | .1 | .3 | .0 | * | 1.3 | |
| | TOT % | .2 | * | .1 | .2 | .4 | .3 | .1 | .3 | .0 | * | 1.7 | |
| | PCP | .1 | * | .1 | .3 | .3 | .2 | .2 | * | .0 | * | 1.0 | |
| 2<5 | NO PCP | .7 | .3 | .3 | .2 | .4 | .4 | .5 | 1.0 | .0 | .5 | 4.3 | |
| | TOT % | .8 | .3 | .3 | .5 | .7 | .5 | .7 | 1.0 | .0 | .5 | 5.3 | |
| | PCP | .2 | .1 | .1 | .4 | .8 | .4 | .3 | .3 | .0 | * | 2.6 | |
| 5<10 | NO PCP | 6.0 | 1.1 | 1.4 | 1.7 | 2.6 | 2.0 | 2.6 | 6.1 | .0 | .6 | 24.1 | |
| | TOT % | 6.3 | 1.2 | 1.4 | 2.1 | 3.4 | 2.4 | 2.8 | 6.4 | .0 | .6 | 26.7 | |
| | PCP | * | * | .0 | .2 | .2 | .2 | .1 | .1 | .0 | * | .9 | |
| 10+ | NO PCP | 16.0 | 3.2 | 1.8 | 3.2 | 5.4 | 4.3 | 5.0 | 16.2 | .0 | 2.1 | 57.3 | |
| | TOT % | 16.1 | 3.2 | 1.8 | 3.4 | 5.6 | 4.5 | 5.1 | 16.3 | .0 | 2.1 | 58.1 | |
| | TOT OBS | | | | | | | | | | | | 4419 |
| | TOT PCT | 29.0 | 5.0 | 4.1 | 7.1 | 11.1 | 8.3 | 9.6 | 26.0 | .0 | 3.7 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | .1 | * | .1 | .1 | .1 | .1 | .1 | .1 | .0 | .4 | 1.1 | |
| <1/2 | 4-10 | .4 | .1 | .2 | .3 | .4 | .2 | .3 | .6 | .0 | | 2.6 | |
| | 11-21 | .3 | * | .0 | .1 | .1 | * | .1 | .5 | .0 | | 1.2 | |
| | 22+ | .0 | .0 | .0 | * | * | .0 | .0 | * | .0 | | .1 | |
| | TOT % | .8 | .1 | .3 | .5 | .7 | .3 | .5 | 1.3 | .0 | .4 | 4.9 | |
| | 0-3 | * | .0 | .0 | .1 | * | * | * | .1 | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .4 | .1 | .1 | .1 | .2 | .1 | .2 | .3 | .0 | | 1.5 | |
| | 11-21 | .4 | * | * | .1 | .1 | .1 | .1 | .3 | .0 | | 1.2 | |
| | 22+ | .1 | .0 | .0 | * | .1 | .0 | * | * | .0 | | .3 | |
| | TOT % | .9 | .1 | .1 | .3 | .4 | .3 | .3 | .8 | .0 | .1 | 3.3 | |
| | 0-3 | .0 | .0 | * | * | .1 | .1 | * | * | .0 | * | .4 | |
| 1<2 | 4-10 | .1 | * | .1 | .1 | .1 | .1 | .1 | .2 | .0 | | .8 | |
| | 11-21 | .1 | .0 | * | .1 | .1 | * | * | .2 | .0 | | .5 | |
| | 22+ | .0 | .0 | .0 | .1 | .1 | .0 | .0 | .0 | .0 | | .2 | |
| | TOT % | .2 | * | .1 | .3 | .4 | .3 | .2 | .3 | .0 | * | 1.8 | |
| | 0-3 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .1 | .0 | .5 | 1.3 | |
| 2<5 | 4-10 | .3 | .2 | .2 | .1 | .2 | .2 | .3 | .7 | .0 | | 2.2 | |
| | 11-21 | .3 | .1 | * | .2 | .3 | .3 | .2 | .3 | .0 | | 1.7 | |
| | 22+ | .1 | .0 | .0 | .2 | .2 | * | .1 | .1 | .0 | | .6 | |
| | TOT % | .9 | .4 | .3 | .5 | .7 | .6 | .7 | 1.2 | .0 | .5 | 5.8 | |
| | 0-3 | .3 | .1 | .2 | .2 | .2 | .2 | .2 | .1 | .0 | .8 | 2.6 | |
| 5<10 | 4-10 | 2.2 | .5 | .7 | .6 | .9 | 1.0 | 1.4 | 2.4 | .0 | | 9.7 | |
| | 11-21 | 2.4 | .3 | .4 | .9 | 1.5 | .9 | 1.0 | 2.9 | .0 | | 10.4 | |
| | 22+ | 1.1 | .1 | .1 | .4 | .6 | .2 | .1 | .8 | .0 | | 3.3 | |
| | TOT % | 6.0 | 1.1 | 1.4 | 2.1 | 3.3 | 2.4 | 2.8 | 6.2 | .0 | .6 | 25.9 | |
| | 0-3 | .5 | .2 | .2 | .3 | .3 | .2 | .2 | .5 | .0 | 2.5 | 5.1 | |
| 10+ | 4-10 | 5.6 | 1.7 | .9 | 1.5 | 2.1 | 1.9 | 2.4 | 6.0 | .0 | | 22.2 | |
| | 11-21 | 7.1 | 1.1 | .7 | 1.5 | 2.5 | 2.1 | 1.8 | 6.8 | .0 | | 23.6 | |
| | 22+ | 2.6 | .2 | * | .3 | .5 | .2 | .5 | 3.0 | .0 | | 7.3 | |
| | TOT % | 15.9 | 3.3 | 1.9 | 3.5 | 5.4 | 4.4 | 5.0 | 16.3 | .0 | 2.5 | 58.2 | |
| | TOT OBS | | | | | | | | | | | | 4627 |
| | TOT PCT | 24.7 | 5.0 | 4.1 | 7.2 | 10.8 | 8.3 | 9.4 | 26.2 | .0 | 4.3 | 100.0 | |

NOVEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

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37.0N 123.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 4.3 | .9 | 2.3 | 8.2 | 14.6 | 5.8 | 2.1 | .7 | .5 | 1.1 | 40.5 | 59.5 | 815 |
| 06&09 | 6.0 | 1.0 | 1.8 | 8.2 | 11.3 | 7.4 | .9 | .6 | .4 | .8 | 38.4 | 61.6 | 794 |
| 12&15 | 6.8 | 1.2 | 2.3 | 7.1 | 12.3 | 6.4 | 2.8 | .3 | .3 | .7 | 40.2 | 59.8 | 747 |
| 18&21 | 5.5 | 1.2 | 2.1 | 9.6 | 14.9 | 5.9 | 1.9 | 1.1 | .0 | 1.3 | 43.5 | 56.5 | 750 |
| TOT | 175 | 33 | 66 | 257 | 413 | 198 | 59 | 21 | 9 | 30 | 1261 | 1845 | 3106 |
| PCT | 5.6 | 1.1 | 2.1 | 8.3 | 13.3 | 6.4 | 1.9 | .7 | .3 | 1.0 | 40.6 | 59.4 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 4.3 | 3.4 | 2.2 | 6.6 | 28.3 | 55.2 | 1251 |
| 06&09 | 4.9 | 2.3 | 1.3 | 4.1 | 25.0 | 62.3 | 1119 |
| 12&15 | 6.1 | 4.3 | 1.6 | 5.7 | 25.7 | 56.6 | 1220 |
| 18&21 | 4.6 | 3.- | 2.2 | 6.8 | 24.9 | 58.1 | 1107 |
| TOT | 234 | 159 | 86 | 274 | 1224 | 2720 | 4697 |
| PCT | 5.0 | 3.4 | 1.8 | 5.8 | 26.1 | 57.9 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 4.4 | 9.2 | 21.1 | 23.8 | 55.1 | 790 |
| 06&09 | 6.1 | 10.0 | 21.0 | 19.7 | 59.3 | 771 |
| 12&15 | 7.2 | 12.1 | 22.8 | 21.3 | 55.8 | 727 |
| 18&21 | 5.8 | 10.6 | 25.3 | 24.0 | 50.7 | 728 |
| TOT | 176 | 315 | 679 | 670 | 1667 | 3016 |
| PCT | 5.8 | 10.4 | 22.5 | 22.2 | 55.3 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 75/79 | .0 | .0 | .1 | .0 | .0 | .1 | .0 | .0 | 5 | .2 |
| 70/74 | .0 | * | * | .1 | .2 | * | * | .1 | 16 | .5 |
| 65/69 | .0 | .0 | .1 | .2 | .4 | .5 | .9 | .2 | 71 | 2.2 |
| 60/64 | .0 | .0 | .3 | .6 | 1.8 | 5.3 | 8.5 | 6.0 | 722 | 22.6 |
| 55/59 | .0 | .1 | .1 | .9 | 4.1 | 12.7 | 23.2 | 16.5 | 1845 | 57.6 |
| 50/54 | .0 | .1 | .2 | .1 | 1.8 | 2.8 | 5.8 | 5.6 | 522 | 16.3 |
| 45/49 | .0 | .0 | .0 | .0 | .1 | * | .1 | .4 | 19 | .6 |
| TOTAL | 1 | 5 | 24 | 64 | 270 | 684 | 1234 | 919 | 3201 | 100.0 |
| PCT | * | .2 | .7 | 2.0 | 8.4 | 21.4 | 38.6 | 28.7 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| * | * | .0 | .0 | .0 | .0 | * | .1 | .0 | .0 |
| .1 | * | * | * | .1 | .1 | * | * | .0 | .1 |
| .4 | .1 | * | .1 | .3 | .3 | .4 | .5 | .0 | .2 |
| 4.7 | 1.0 | .8 | 2.2 | 3.5 | 2.9 | 2.2 | 4.2 | .0 | 1.1 |
| 14.7 | 2.8 | 2.1 | 3.7 | 6.8 | 4.5 | 5.3 | 16.1 | .0 | 1.6 |
| 5.3 | .8 | .8 | 1.1 | 1.0 | .7 | 1.5 | 4.8 | .0 | .3 |
| .1 | * | .1 | * | .0 | .0 | * | .3 | .0 | .0 |
| 25.3 | 4.7 | 3.9 | 7.2 | 11.7 | 8.5 | 9.5 | 25.9 | .0 | 3.3 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 81 | 68 | 64 | 58 | 53 | 50 | 47 | 58.1 | 1306 |
| 06&09 | 70 | 64 | 62 | 57 | 52 | 50 | 46 | 57.0 | 1158 |
| 12&15 | 75 | 65 | 62 | 56 | 51 | 50 | 44 | 56.3 | 1287 |
| 18&21 | 80 | 70 | 64 | 58 | 52 | 49 | 45 | 58.1 | 1193 |
| TOT | 81 | 68 | 63 | 57 | 52 | 50 | 44 | 57.3 | 4944 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | .1 | 2.7 | 10.1 | 24.0 | 38.6 | 24.5 | 82 | 883 |
| 06&09 | .0 | 2.3 | 5.9 | 17.3 | 41.4 | 33.1 | 85 | 782 |
| 12&15 | .0 | 1.8 | 6.8 | 18.1 | 38.0 | 35.3 | 85 | 811 |
| 18&21 | .0 | 5.0 | 10.9 | 26.8 | 35.2 | 22.1 | 81 | 755 |
| TOT | 1 | 95 | 272 | 696 | 1239 | 928 | 83 | 3231 |

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
37.6N 123.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | 77 80 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | 2 | .0 | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | 4 | .0 | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | * | * | * | 7 | * | .1 |
| 11/13 | .0 | .0 | .0 | .0 | * | .0 | .2 | .1 | .1 | .0 | 17 | .1 | .3 |
| 9/10 | .0 | .0 | .0 | .0 | * | .1 | .3 | .1 | * | .0 | 27 | .1 | .6 |
| 7/8 | .0 | .0 | .0 | .1 | .4 | .6 | .5 | * | .0 | .0 | 63 | .3 | 1.3 |
| 6 | .0 | .0 | .0 | .0 | .6 | .6 | .1 | * | .0 | .0 | 56 | .2 | 1.2 |
| 5 | .0 | .0 | .0 | .1 | 1.2 | 1.2 | .2 | * | .0 | .0 | 112 | .5 | 2.2 |
| 4 | .0 | .0 | .1 | .5 | 1.8 | 1.3 | .1 | * | .0 | .0 | 157 | .4 | 3.5 |
| 3 | .0 | .0 | * | 1.0 | 2.4 | 1.8 | .1 | * | .0 | .0 | 219 | .5 | 4.8 |
| 2 | .0 | .0 | .1 | 1.7 | 4.8 | 2.0 | .2 | .0 | .0 | .0 | 361 | 1.1 | 7.7 |
| 1 | .0 | .0 | .1 | 2.4 | 5.5 | 1.6 | .1 | .0 | .0 | .0 | 398 | 1.5 | 8.2 |
| 0 | .0 | * | .4 | 4.9 | 8.0 | 1.8 | .1 | * | .0 | .0 | 624 | 2.1 | 13.1 |
| -1 | .0 | * | .4 | 5.1 | 5.1 | 1.0 | * | .0 | .0 | .0 | 479 | 1.7 | 10.0 |
| -2 | .0 | .1 | .7 | 6.1 | 4.6 | .7 | .0 | .0 | .0 | .0 | 497 | 1.5 | 10.6 |
| -3 | .0 | * | .5 | 4.4 | 3.1 | .3 | .0 | .0 | .0 | .0 | 341 | 1.2 | 7.1 |
| -4 | .0 | .1 | 1.0 | 3.2 | 1.5 | .3 | .0 | .0 | .0 | .0 | 255 | .9 | 5.4 |
| -5 | .0 | * | .9 | 2.2 | 1.6 | .1 | .0 | .0 | .0 | .0 | 194 | .6 | 4.1 |
| -6 | * | * | .4 | 1.3 | .7 | * | .0 | .0 | .0 | .0 | 104 | .5 | 2.0 |
| -7/-8 | .0 | * | .6 | 1.5 | .6 | .1 | .0 | .0 | .0 | .0 | 114 | .3 | 2.5 |
| -9/-10 | .0 | * | .3 | .5 | .2 | .0 | .0 | .0 | .0 | .0 | 42 | * | 1.0 |
| -11/-13 | .0 | .1 | .2 | .2 | * | * | .0 | .0 | .0 | .0 | 20 | * | .5 |
| -14/-16 | .0 | .0 | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | 4 | .0 | .1 |
| -17/-19 | .0 | .0 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 2 | .0 | * |
| TOTAL | 1 | 19 | 231 | 1446 | 1727 | 559 | 86 | 20 | 8 | 2 | 4099 | 555 | 3544 |
| PCT | * | .5 | 5.6 | 35.3 | 42.1 | 13.6 | 2.1 | .5 | .2 | * | 100.0 | 13.5 | 86.5 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.2 | .0 | .0 | .0 | .0 | 1.6 |
| 1-2 | .1 | 3.5 | 1.8 | .0 | .0 | .0 | 5.5 |
| 3-4 | .0 | 1.3 | 2.7 | .4 | .0 | .0 | 4.4 |
| 5-6 | .0 | .6 | 2.1 | .9 | .0 | .0 | 3.5 |
| 7 | .0 | .1 | 1.8 | 1.2 | .1 | .0 | 3.2 |
| 8-9 | .0 | .1 | .3 | .6 | .1 | .0 | 1.0 |
| 10-11 | .0 | .0 | .1 | .7 | .1 | .0 | .9 |
| 12 | .0 | .1 | .0 | .2 | .0 | .0 | .3 |
| 13-16 | .0 | .0 | .0 | .2 | .1 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 6.9 | 8.8 | 4.2 | .3 | .0 | 20.8 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .7 | .0 | .0 | .0 | .0 | .9 |
| 1-2 | .0 | 1.0 | .4 | .0 | .0 | .0 | 1.4 |
| 3-4 | * | .4 | .8 | .2 | .0 | .0 | 1.4 |
| 5-6 | .0 | * | .2 | .1 | .0 | .0 | .4 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .1 | .1 | .0 | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 2.2 | 1.8 | .4 | .0 | .0 | 4.6 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .9 | .1 | .0 | .0 | .0 | 1.2 |
| 1-2 | .0 | 1.1 | .8 | .0 | .0 | .0 | 1.9 |
| 3-4 | .1 | .4 | .4 | .0 | .0 | .0 | .9 |
| 5-6 | .0 | .2 | .3 | .1 | .0 | .0 | .5 |
| 7 | .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.5 | 1.7 | .1 | .0 | .0 | 4.6 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | 1.1 | .2 | .0 | .0 | .0 | 1.5 |
| 1-2 | .0 | 1.4 | 1.2 | .0 | .0 | .0 | 2.6 |
| 3-4 | .1 | .5 | 1.5 | .3 | .0 | .0 | 2.4 |
| 5-6 | .0 | .1 | .7 | .5 | .0 | .0 | 1.3 |
| 7 | .0 | * | .5 | .4 | .1 | .1 | 1.1 |
| 8-9 | .0 | .0 | * | .1 | .1 | .0 | .2 |
| 10-11 | .0 | .1 | * | .1 | .0 | .0 | .2 |
| 12 | .0 | .0 | * | * | * | .0 | .1 |
| 13-16 | .0 | .0 | .0 | * | * | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | * | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 3.2 | 4.2 | 1.4 | .3 | .1 | 9.4 |

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .4 | 1.5 | .1 | .0 | .0 | .0 | 1.9 |
| 1-2 | .5 | 1.9 | .9 | .0 | .0 | .0 | 3.3 |
| 3-4 | .0 | 1.4 | 2.8 | .3 | .0 | .0 | 4.5 |
| 5-6 | .0 | .3 | 1.9 | .7 | .1 | .0 | 3.0 |
| 7 | .0 | .1 | .5 | .4 | .1 | .0 | 1.1 |
| 8-9 | .0 | .0 | .6 | .5 | .0 | .0 | 1.1 |
| 10-11 | .0 | .0 | .2 | .1 | .1 | .0 | .5 |
| 12 | .0 | .0 | .2 | .1 | .1 | .0 | .4 |
| 13-16 | .0 | .0 | .1 | .1 | .1 | .0 | .3 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 5.3 | 7.3 | 2.2 | .6 | .0 | 16.2 |

SW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .9 | .2 | .0 | .0 | .0 | 1.3 |
| 1-2 | .2 | 1.4 | .8 | .0 | .0 | .0 | 2.4 |
| 3-4 | * | 1.2 | 1.0 | .0 | .0 | .0 | 2.2 |
| 5-6 | .0 | .4 | 1.1 | .2 | * | .0 | 1.7 |
| 7 | .0 | .1 | .4 | .2 | .0 | .0 | .7 |
| 8-9 | .0 | .1 | .1 | .2 | .0 | .0 | .4 |
| 10-11 | .0 | .0 | .1 | .0 | * | .0 | .1 |
| 12 | .0 | .0 | .1 | * | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .5 | 4.1 | 3.8 | .7 | * | .0 | 9.1 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .6 | .1 | .0 | .0 | .0 | 1.0 |
| 1-2 | .0 | 2.7 | .5 | .0 | .0 | .0 | 3.1 |
| 3-4 | .1 | .6 | 1.0 | .2 | .0 | .0 | 1.8 |
| 5-6 | .0 | .3 | 1.1 | .1 | .0 | .0 | 1.5 |
| 7 | .0 | .1 | .5 | .1 | .0 | .0 | .7 |
| 8-9 | .0 | .1 | .1 | .1 | .0 | .0 | .4 |
| 10-11 | .0 | .1 | .0 | .1 | .1 | .0 | .2 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 4.5 | 3.2 | .7 | .1 | .0 | 8.8 |

NW

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.3 | .1 | .0 | .0 | .0 | 1.6 | |
| 1-2 | .1 | 4.2 | 2.1 | .0 | .0 | .0 | 6.5 | |
| 3-4 | .1 | 1.9 | 2.8 | .4 | .0 | .0 | 5.1 | |
| 5-6 | .0 | .6 | 1.7 | .9 | .1 | .0 | 3.3 | |
| 7 | .0 | .1 | 1.1 | .7 | .0 | .0 | 2.0 | |
| 8-9 | .0 | .2 | .3 | .4 | .2 | .0 | 1.0 | |
| 10-11 | .0 | .0 | .2 | .7 | .0 | .0 | .8 | |
| 12 | .0 | .0 | .0 | .2 | .1 | .0 | .3 | |
| 13-16 | .0 | .0 | .0 | .1 | * | .0 | .1 | |
| 17-19 | .0 | .0 | .0 | .0 | * | .0 | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 8.3 | 8.4 | 3.3 | .4 | .0 | 20.8 | 94.4 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 7.7 | 8.1 | .7 | .0 | .0 | .0 | 16.5 | |
| 1-2 | 1.1 | 17.3 | 8.4 | .0 | .0 | .0 | 26.8 | |
| 3-4 | .3 | 7.5 | 13.0 | 1.7 | .0 | .0 | 22.6 | |
| 5-6 | .0 | 2.6 | 9.1 | 3.4 | .1 | .0 | 15.3 | |
| 7 | .1 | .7 | 5.1 | 2.9 | .3 | .1 | 9.1 | |
| 8-9 | .1 | .4 | 1.6 | 1.9 | .3 | .0 | 4.4 | |
| 10-11 | .0 | .1 | .7 | 1.7 | .3 | .0 | 2.8 | |
| 12 | .0 | .1 | .3 | .6 | .2 | .0 | 1.2 | |
| 13-16 | .0 | .0 | .2 | .4 | .3 | .0 | 1.0 | |
| 17-19 | .0 | .0 | .0 | .1 | .1 | .0 | .2 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 1338 |
| TOT PCT | 9.3 | 36.9 | 39.2 | 12.9 | 1.7 | .1 | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 2.0 | 9.7 | 12.3 | 5.5 | 2.4 | 1.1 | .7 | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 904 | 4 |
| 6-7 | .2 | 1.5 | 7.2 | 6.4 | 5.2 | 2.2 | 2.2 | .7 | .3 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 688 | 6 |
| 8-9 | .0 | .5 | 2.2 | 3.0 | 3.8 | 3.0 | 2.5 | .8 | 1.4 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 462 | 7 |
| 10-11 | .0 | .3 | 1.6 | 1.4 | 1.7 | 1.6 | 1.2 | 1.0 | .8 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 261 | 8 |
| 12-13 | .0 | .0 | .5 | .3 | .9 | .4 | .5 | .4 | .2 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 85 | 9 |
| >13 | .0 | .0 | .0 | .1 | .2 | .4 | .1 | .0 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 32 | 11 |
| INDET | 4.2 | 1.1 | .8 | 1.0 | .5 | .5 | .2 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 228 | 2 |
| TOTAL | 169 | 349 | 692 | 470 | 379 | 243 | 194 | 88 | 87 | 18 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2660 | 5 |
| PCT | 6.4 | 13.1 | 26.5 | 17.7 | 14.2 | 9.1 | 7.3 | 3.3 | 3.3 | .7 | .4 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| N | .4 | .8 | .6 | .0 | .0 | .0 | .1 | 1.9 | .7 | .0 | 8.3 | .5 | 2.6 | .0 | | 86.0 |
| NE | 3.0 | .5 | 1.2 | .0 | .0 | .0 | .0 | 4.8 | .7 | .0 | 8.2 | .1 | 6.7 | .0 | | 79.5 |
| E | 4.2 | .0 | 1.5 | .0 | .0 | .0 | .0 | 5.7 | .0 | .0 | 8.3 | .0 | 6.4 | .0 | | 79.6 |
| SE | 9.7 | 2.0 | 6.7 | .0 | .0 | .0 | .0 | 16.6 | 3.3 | .1 | 8.3 | .6 | 9.9 | .0 | | 65.3 |
| S | 14.6 | 2.0 | 11.1 | .0 | .0 | .0 | .0 | 25.0 | 2.8 | .4 | 10.7 | .1 | 3.2 | .0 | | 37.8 |
| SW | 7.1 | 2.1 | 5.3 | .0 | .0 | .0 | .2 | 14.6 | 4.5 | .0 | 8.2 | .5 | .6 | .0 | | 71.6 |
| W | 4.7 | 1.1 | 3.5 | .0 | .0 | .0 | .1 | 9.3 | 3.1 | .0 | 10.5 | .4 | 3.5 | .0 | | 73.2 |
| NW | 1.0 | 1.0 | 1.3 | .0 | .0 | .0 | .0 | 3.2 | 1.9 | .0 | 8.0 | .8 | 2.6 | .0 | | 83.4 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | .0 |
| CALM | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.2 | .0 | 12.9 | .0 | 10.6 | .0 | | 75.3 |
| TOT PCT | 4.4 | 1.1 | 3.3 | .0 | .0 | .0 | .1 | 8.5 | 2.0 | .1 | 8.8 | .5 | 3.5 | .0 | | 76.7 |
| TOT OBS: | 3526 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG BLWG | DUST SNOW | NO SIG WEA |
| 00003 | 5.8 | 1.8 | 2.6 | .0 | .0 | .0 | .0 | 9.7 | 1.2 | .0 | 8.7 | .8 | 4.4 | | .0 | 75.2 |
| 06009 | 4.3 | .9 | 4.2 | .0 | .0 | .0 | .1 | 8.5 | 2.2 | .1 | 8.9 | .3 | 1.4 | | .0 | 78.5 |
| 12015 | 3.8 | .7 | 4.0 | .0 | .0 | .0 | .0 | 8.5 | 2.1 | .1 | 9.7 | .3 | 3.3 | | .0 | 76.0 |
| 18021 | 3.4 | 1.1 | 2.6 | .0 | .0 | .0 | .1 | 7.1 | 2.4 | .0 | 9.3 | .4 | 4.9 | | .0 | 75.9 |
| TOT PCT | 4.4 | 1.1 | 3.4 | .0 | .0 | .0 | .1 | 8.5 | 1.9 | .1 | 9.1 | .5 | 3.5 | | .0 | 76.4 |
| TOT OBS: | 3608 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | 1.2 | 8.3 | 9.6 | 3.3 | .9 | .1 | | 23.4 | 14.5 | 24.5 | 22.1 | 23.2 | 26.3 | 23.0 | 23.1 | 24.3 | 20.5 |
| NE | .5 | 3.9 | 2.5 | .6 | .1 | * | | 7.8 | 11.6 | 7.3 | 4.8 | 5.7 | 6.3 | 9.5 | 8.9 | 9.2 | 9.3 |
| E | .6 | 2.2 | 1.5 | .1 | * | .0 | | 4.4 | 9.9 | 4.0 | 2.7 | 4.1 | 4.1 | 3.5 | 7.0 | 5.4 | 6.2 |
| SE | .6 | 3.3 | 2.6 | 1.4 | .3 | * | | 8.2 | 14.3 | 6.0 | 10.0 | 6.5 | 6.4 | 6.8 | 12.6 | 10.0 | 12.2 |
| S | .8 | 4.3 | 4.6 | 2.4 | .3 | .0 | | 12.4 | 14.8 | 11.1 | 12.8 | 12.7 | 13.2 | 12.6 | 11.6 | 12.9 | 13.3 |
| SW | .6 | 3.3 | 3.0 | 1.0 | .1 | * | | 8.0 | 12.7 | 7.4 | 8.5 | 9.1 | 5.3 | 7.4 | 7.4 | 8.7 | 9.2 |
| W | .8 | 4.7 | 3.5 | .6 | .1 | .0 | | 9.7 | 11.5 | 11.7 | 8.8 | 12.2 | 9.0 | 8.9 | 6.6 | 8.6 | 7.0 |
| NW | 1.3 | 9.1 | 9.3 | 2.9 | .5 | * | | 23.1 | 13.6 | 25.9 | 28.3 | 23.0 | 26.1 | 23.6 | 21.0 | 19.3 | 17.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.0 | | | | | | | 3.0 | .0 | 2.0 | 2.0 | 3.3 | 3.3 | 4.6 | 1.7 | 1.5 | 4.7 |
| TOT OBS | 375 | 1569 | 1468 | 493 | 95 | 7 | 4007 | | 13.0 | 784 | 301 | 720 | 245 | 783 | 286 | 543 | 365 |
| TOT PCT | 9.4 | 39.2 | 36.6 | 12.3 | 2.4 | .2 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 4.3 | 10.9 | 6.3 | 1.8 | .1 | | 23.4 | 14.5 | 23.8 | 24.0 | 23.0 | 22.7 |
| NE | 2.4 | 3.6 | 1.4 | .3 | * | | 7.8 | 11.6 | 6.6 | 5.9 | 9.4 | 9.3 |
| E | 1.4 | 2.4 | .7 | * | .0 | | 4.4 | 9.9 | 3.6 | 4.1 | 4.4 | 5.7 |
| SE | 2.1 | 3.1 | 1.9 | 1.0 | .1 | | 8.2 | 14.3 | 7.1 | 6.5 | 8.4 | 10.9 |
| S | 2.2 | 5.4 | 3.8 | 1.0 | .1 | | 12.4 | 14.8 | 11.6 | 12.8 | 12.4 | 13.1 |
| SW | 1.7 | 4.1 | 1.9 | .3 | * | | 8.0 | 12.7 | 7.7 | 8.1 | 7.4 | 8.9 |
| W | 2.3 | 5.0 | 1.9 | .2 | * | | 9.7 | 11.5 | 10.9 | 11.4 | 8.3 | 8.0 |
| NW | 4.5 | 11.2 | 6.1 | 1.3 | .1 | | 23.1 | 13.6 | 26.6 | 23.8 | 22.9 | 18.7 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.0 | | | | | | 3.0 | .0 | 2.0 | 3.3 | 3.8 | 2.8 |
| TOT OBS | 964 | 1829 | 962 | 235 | 17 | 4007 | | 13.0 | 1065 | 965 | 1069 | 908 |
| TOT PCT | 24.1 | 45.6 | 24.0 | 5.9 | .4 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

DECEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.0 | 6.1 | 37.4 | 37.7 | 13.5 | 3.3 | .1 | 13.7 | 100.0 | 1065 |
| 06&09 | 3.3 | 5.8 | 37.9 | 38.3 | 12.8 | 1.7 | .1 | 13.0 | 100.0 | 965 |
| 12&15 | 3.8 | 6.2 | 42.0 | 35.1 | 11.3 | 1.4 | .2 | 12.5 | 100.0 | 1069 |
| 18&21 | 2.8 | 7.6 | 39.2 | 35.5 | 11.5 | 3.2 | .3 | 13.0 | 100.0 | 908 |
| TOT | 119 | 256 | 1569 | 1468 | 493 | 95 | 7 | 13.0 | | 4007 |
| PCT | 3.0 | 6.4 | 39.2 | 36.6 | 12.3 | 2.4 | .2 | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.5 | 3.7 | 6.4 | 4.1 | | 3.7 |
| NE | 4.2 | .5 | 1.6 | 2.0 | | 3.6 |
| E | 2.0 | .5 | .8 | 1.1 | | 3.9 |
| SE | 1.2 | .7 | 1.5 | 3.4 | | 5.9 |
| S | 1.2 | 1.3 | 3.0 | 6.6 | | 6.4 |
| SW | 1.1 | 1.0 | 2.4 | 3.6 | | 6.0 |
| W | 2.5 | 1.7 | 3.0 | 3.0 | | 5.0 |
| NW | 8.8 | 3.6 | 6.3 | 4.0 | | 3.9 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.6 | .0 | .3 | .7 | | 3.1 |
| TOT OBS | 779 | 308 | 598 | 674 | 2359 | 4.5 |
| TOT PCT | 33.0 | 13.1 | 25.3 | 28.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7499 | 8000+ | NM <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | * | .3 | 1.8 | 3.2 | 1.6 | .3 | .0 | * | .2 | 16.5 | |
| NE | .1 | .0 | .0 | .5 | 1.2 | .7 | .1 | * | .1 | .1 | 5.4 | |
| E | .1 | * | .1 | .3 | .4 | .3 | * | .0 | .0 | .1 | 2.9 | |
| SE | .7 | * | .3 | .6 | 1.1 | 1.0 | .4 | .1 | .0 | .1 | 2.6 | |
| S | .5 | .2 | .3 | 1.5 | 3.5 | 1.6 | .6 | .1 | .1 | * | 3.6 | |
| SW | .4 | .1 | .4 | 1.0 | 2.0 | .7 | .2 | .1 | * | .1 | 3.2 | |
| W | .6 | * | .1 | .8 | 1.9 | .9 | .2 | .1 | .0 | .1 | 5.3 | |
| NW | .8 | .1 | .3 | 1.1 | 2.6 | 2.0 | .4 | .1 | .1 | .1 | 15.2 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .1 | .0 | .1 | .3 | .4 | .1 | * | .0 | .0 | .0 | 1.6 | |
| TOT OBS | 98 | 13 | 43 | 187 | 385 | 210 | 51 | 11 | 8 | 21 | 1332 | 2359 |
| TOT PCT | 4.2 | .6 | 1.8 | 7.9 | 16.3 | 8.9 | 2.2 | .5 | .3 | .9 | 56.5 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| * OR >5000 | .9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| * OR >3500 | 2.4 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| * OR >2000 | 8.2 | 12.2 | 12.7 | 13.0 | 13.0 | 13.1 | 13.1 | 13.1 |
| * OR >1000 | 19.0 | 27.1 | 28.7 | 29.1 | 29.3 | 29.3 | 29.4 | 29.4 |
| * OR >600 | 23.1 | 33.8 | 36.2 | 36.9 | 37.0 | 37.2 | 37.3 | 37.3 |
| * OR >300 | 23.9 | 35.1 | 37.7 | 38.5 | 38.7 | 38.9 | 39.0 | 39.0 |
| * OR >150 | 24.1 | 35.5 | 38.1 | 39.1 | 39.2 | 39.4 | 39.6 | 39.6 |
| * OR > 0 | 24.2 | 36.0 | 39.0 | 40.5 | 41.5 | 42.5 | 43.3 | 43.7 |
| TOTAL | 576 | 857 | 928 | 964 | 988 | 1011 | 1029 | 1038 |

TOTAL NUMBER OF OBS: 2378

PCT FREQ NM <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 23.1 | 8.1 | 11.5 | 6.8 | 6.3 | 4.8 | 7.7 | 8.2 | 20.0 | 3.5 | 2490 |

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PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

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36.9N 123.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | .0 | .0 | * | * | .1 | .1 | .1 | * | .0 | .0 | .4 | |
| <1/2 | NO PCP | .7 | .1 | .1 | .1 | .5 | .2 | .3 | .6 | .0 | .1 | 2.7 | |
| | TOT % | .7 | .1 | .1 | .1 | .7 | .3 | .4 | .6 | .0 | .1 | 3.1 | |
| | PCP | .1 | * | .1 | .1 | .2 | * | .1 | .1 | .0 | .0 | .6 | |
| 1/2<1 | NO PCP | .9 | .2 | * | .2 | .3 | .2 | .4 | .4 | .0 | * | 2.1 | |
| | TOT % | .9 | .2 | .1 | .3 | .5 | .2 | .4 | .5 | .0 | * | 2.7 | |
| | PCP | * | .0 | .0 | .2 | .4 | .1 | .1 | * | .0 | .0 | .9 | |
| 1<2 | NO PCP | .2 | .1 | .1 | .1 | .3 | .1 | .2 | .3 | .0 | .1 | 1.4 | |
| | TOT % | .3 | .1 | .1 | .3 | .7 | .1 | .3 | .3 | .0 | .1 | 2.2 | |
| | PCP | * | .1 | .1 | .4 | .8 | .2 | .1 | * | .0 | .0 | 1.8 | |
| 2<5 | NO PCP | .4 | .4 | .1 | .6 | .4 | .2 | .3 | .5 | .0 | .1 | 3.1 | |
| | TOT % | .4 | .5 | .2 | 1.0 | 1.3 | .4 | .4 | .6 | .0 | .1 | 4.9 | |
| | PCP | .2 | .2 | * | .5 | 1.1 | .7 | .4 | .4 | .0 | .0 | 3.4 | |
| 5<10 | NO PCP | 9.6 | 1.9 | 1.1 | 2.4 | 3.4 | 1.8 | 2.1 | 5.0 | .0 | .7 | 23.9 | |
| | TOT % | 9.8 | 2.0 | 1.2 | 2.9 | 4.5 | 2.5 | 2.5 | 5.4 | .0 | .7 | 27.4 | |
| | PCP | .1 | .1 | * | .1 | .5 | .1 | .2 | .2 | .0 | .0 | 1.4 | |
| 10+ | NO PCP | 16.1 | 4.8 | 2.5 | 3.0 | 4.8 | 4.6 | 5.9 | 15.2 | .0 | 1.4 | 58.3 | |
| | TOT % | 16.2 | 4.9 | 2.5 | 3.1 | 5.3 | 4.7 | 6.2 | 15.4 | .0 | 1.4 | 59.7 | |
| | TOT OBS | | | | | | | | | | | | 3520 |
| | TOT PCT | 24.0 | 7.7 | 4.2 | 7.7 | 12.9 | 8.2 | 10.1 | 22.8 | .0 | 2.4 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | .1 | .1 | .0 | .1 | * | .1 | * | .0 | .1 | .5 | |
| <1/2 | 4-10 | .3 | .1 | * | .1 | .4 | .1 | .1 | .4 | .0 | | 1.6 | |
| | 11-21 | .3 | .0 | * | * | .1 | .1 | .1 | .2 | .0 | | .9 | |
| | 22+ | .0 | .0 | .0 | .0 | * | * | * | .0 | .0 | | .1 | |
| | TOT % | .7 | .1 | .1 | .1 | .6 | .3 | .4 | .6 | .0 | .1 | 3.0 | |
| | 0-3 | .1 | .0 | .0 | .0 | .1 | .0 | .1 | .1 | .0 | * | .3 | |
| 1/2<1 | 4-10 | .2 | .1 | .1 | .1 | .2 | .1 | .2 | .3 | .0 | | 1.2 | |
| | 11-21 | .3 | .1 | * | .1 | .2 | .1 | .1 | .1 | .0 | | 1.1 | |
| | 22+ | * | .0 | * | * | * | * | .0 | * | .0 | | .2 | |
| | TOT % | .5 | .2 | .1 | .3 | .5 | .2 | .4 | .5 | .0 | * | 2.7 | |
| | 0-3 | * | .0 | * | * | * | .0 | * | * | .0 | .1 | .2 | |
| 1<2 | 4-10 | .2 | .1 | .1 | .2 | .2 | * | .1 | .1 | .0 | | .9 | |
| | 11-21 | .1 | .1 | .1 | .1 | .2 | .1 | .1 | .1 | .0 | | .9 | |
| | 22+ | .0 | .0 | .0 | .1 | .3 | .1 | * | .1 | .0 | | .6 | |
| | TOT % | .3 | .1 | .2 | .4 | .7 | .2 | .2 | .4 | .0 | .1 | 2.6 | |
| | 0-3 | .1 | .1 | * | .1 | .1 | .1 | .1 | .1 | .0 | .2 | .8 | |
| 2<5 | 4-10 | .1 | .2 | .1 | .3 | .3 | .2 | .2 | .3 | .0 | | 1.8 | |
| | 11-21 | .3 | .1 | .1 | .4 | .5 | .1 | .1 | .3 | .0 | | 1.9 | |
| | 22+ | * | .0 | * | .4 | .4 | * | .0 | .1 | .0 | | 1.0 | |
| | TOT % | .5 | .3 | .3 | 1.1 | 1.3 | .5 | .4 | .7 | .0 | .2 | 5.5 | |
| | 0-3 | .4 | .2 | .1 | .1 | .3 | .2 | .3 | .4 | .0 | .6 | 2.6 | |
| 5<10 | 4-10 | 2.0 | .8 | .6 | .9 | 1.2 | 1.0 | .9 | 1.9 | .0 | | 9.3 | |
| | 11-21 | 2.1 | .7 | .4 | .7 | 1.5 | .8 | .9 | 2.3 | .0 | | 9.4 | |
| | 22+ | 1.2 | .2 | .0 | 1.0 | 1.3 | .3 | .3 | 1.0 | .0 | | 5.3 | |
| | TOT % | 5.7 | 1.9 | 1.1 | 2.7 | 4.3 | 2.4 | 2.4 | 5.5 | .0 | .6 | 26.6 | |
| | 0-3 | .6 | .2 | .3 | .3 | .3 | .3 | .1 | .6 | .0 | 1.7 | 4.4 | |
| 10+ | 4-10 | 5.2 | 2.4 | 1.4 | 1.4 | 1.9 | 2.0 | 3.2 | 5.6 | .0 | | 23.2 | |
| | 11-21 | 7.0 | 1.7 | .8 | 1.1 | 2.2 | 1.7 | 2.4 | 6.7 | .0 | | 23.6 | |
| | 22+ | 3.2 | .7 | * | .3 | .8 | .5 | .4 | 2.5 | .0 | | 8.4 | |
| | TOT % | 16.0 | 4.9 | 2.5 | 3.2 | 5.1 | 4.5 | 6.1 | 13.5 | .0 | 1.7 | 59.6 | |
| | TOT OBS | | | | | | | | | | | | 3709 |
| | TOT PCT | 23.7 | 7.7 | 4.3 | 7.9 | 12.6 | 8.0 | 9.9 | 23.2 | .0 | 2.8 | 100.0 | |

DECEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 3.3 | .5 | 1.5 | 9.3 | 15.9 | 7.9 | 2.8 | .5 | .2 | .8 | 42.6 | 57.4 | 610 |
| 06E09 | 4.8 | .6 | 2.1 | 7.0 | 17.8 | 8.5 | 1.6 | .3 | .4 | .1 | 43.3 | 56.7 | 669 |
| 12E15 | 4.3 | .5 | 1.6 | 6.5 | 14.9 | 9.2 | 2.5 | .3 | .5 | .6 | 41.0 | 59.0 | 629 |
| 18E21 | 4.0 | .8 | 1.9 | 8.3 | 15.0 | 9.8 | 2.3 | .9 | .2 | 2.1 | 45.3 | 54.7 | 528 |
| TOT | 100 | 14 | 43 | 189 | 389 | 215 | 56 | 12 | 8 | 21 | 1047 | 1389 | 2436 |
| PCT | 4.1 | .6 | 1.8 | 7.8 | 16.0 | 8.8 | 2.3 | .5 | .3 | .9 | 43.0 | 57.0 | 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00E03 | 3.1 | 3.3 | 2.9 | 5.6 | 30.2 | 55.3 | 1015 |
| 06E09 | 3.9 | 2.1 | 2.0 | 5.3 | 21.9 | 64.6 | 939 |
| 12E15 | 3.6 | 2.6 | 3.1 | 5.0 | 29.4 | 56.2 | 1021 |
| 18E21 | 2.9 | 2.6 | 2.9 | 6.4 | 25.6 | 59.6 | 816 |
| TOT | 129 | 102 | 100 | 210 | 1022 | 2228 | 3791 |
| PCT | 3.4 | 2.7 | 2.6 | 5.5 | 27.0 | 58.8 | 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <500YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00E03 | 3.0 | 5.1 | 18.4 | 26.8 | 54.8 | 593 |
| 06E09 | 4.9 | 7.9 | 16.9 | 27.5 | 55.6 | 655 |
| 12E15 | 4.2 | 7.6 | 17.6 | 25.9 | 56.6 | 619 |
| 18E21 | 3.9 | 7.6 | 20.4 | 28.5 | 51.1 | 515 |
| TOT | 96 | 168 | 433 | 645 | 1300 | 2378 |
| PCT | 4.0 | 7.1 | 18.2 | 27.1 | 54.7 | 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 75/79 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 70/74 | * | .0 | * | .2 | .0 | .0 | .0 | .0 | 6 | .2 |
| 65/69 | .0 | .0 | * | .2 | .2 | .2 | * | .1 | 18 | .7 |
| 60/64 | * | * | .1 | .3 | 1.5 | 1.9 | 3.4 | 2.0 | 235 | 9.3 |
| 55/59 | .0 | .1 | .5 | 1.5 | 4.1 | 8.8 | 17.4 | 13.8 | 1172 | 46.2 |
| 50/54 | .0 | .2 | .5 | 1.3 | 5.3 | 8.4 | 13.5 | 8.1 | 945 | 37.2 |
| 45/49 | .0 | .2 | .2 | .4 | .9 | 1.1 | 1.9 | .9 | 141 | 5.6 |
| 40/44 | .0 | .1 | * | * | .1 | .1 | .2 | .2 | 17 | .7 |
| 35/39 | .0 | .0 | * | * | .0 | .0 | * | * | 4 | .2 |
| TOTAL | 2 | 14 | 38 | 99 | 305 | 520 | 924 | 637 | 2539 | 100.0 |
| PCT | .1 | .6 | 1.5 | 3.9 | 12.0 | 20.5 | 36.4 | 25.1 | | |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| | N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|---|
| | * | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| | * | .0 | .0 | * | * | * | .0 | .1 | .0 | .0 |
| | .1 | .1 | * | * | .0 | .1 | .1 | .2 | .0 | .0 |
| | 1.6 | .6 | .2 | 1.1 | 1.8 | 1.7 | .9 | 1.3 | .0 | .1 |
| | 10.4 | 2.7 | 1.7 | 4.4 | 7.6 | 6.4 | 4.8 | 9.4 | .0 | .8 |
| | 10.6 | 2.8 | 1.7 | 2.0 | 2.9 | 2.0 | 3.7 | 10.1 | .0 | 1.3 |
| | 1.4 | 1.4 | .4 | .1 | .1 | .1 | .5 | 1.2 | .0 | .4 |
| | .1 | .4 | .1 | .0 | .0 | .0 | .0 | .1 | .0 | .0 |
| | .1 | * | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 |
| | 24.4 | 8.0 | 4.2 | 7.6 | 12.5 | 8.3 | 10.0 | 22.5 | .0 | 2.6 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 90% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00E03 | 75 | 66 | 62 | 55 | 50 | 46 | 42 | 55.8 | 1086 |
| 06E09 | 66 | 63 | 60 | 55 | 49 | 45 | 41 | 54.7 | 978 |
| 12E15 | 70 | 62 | 60 | 54 | 48 | 44 | 35 | 54.2 | 1090 |
| 18E21 | 73 | 66 | 63 | 56 | 49 | 44 | 39 | 55.8 | 911 |
| TOT | 75 | 64 | 61 | 55 | 49 | 45 | 35 | 55.1 | 4065 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00E03 | .2 | 6.1 | 14.0 | 22.3 | 36.3 | 21.2 | 80 | 656 |
| 06E09 | .0 | 4.6 | 9.3 | 20.4 | 38.9 | 26.8 | 83 | 678 |
| 12E15 | .1 | 4.4 | 10.1 | 17.1 | 36.9 | 31.4 | 83 | 685 |
| 18E21 | .0 | 9.6 | 15.6 | 22.8 | 32.2 | 19.9 | 79 | 544 |
| TOT | 2 | 153 | 309 | 525 | 930 | 644 | 81 | 2563 |

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA TMP DIF | 33 36 | 37 40 | 41 44 | 45 48 | 49 52 | 53 56 | 57 60 | 61 64 | 65 68 | 69 72 | 73 76 | TOT | W FOG | WO FOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | 1 | .0 | * |
| 14/16 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | .1 | .0 | 7 | .0 | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .0 | * | .0 | .1 | .1 | .1 | .0 | 13 | .0 | .4 |
| 9/10 | .0 | .0 | .0 | .0 | .0 | .1 | * | .1 | .1 | .0 | .0 | 10 | .1 | .2 |
| 7/8 | .0 | .0 | .0 | .0 | .1 | .1 | .3 | .7 | .2 | .0 | .0 | 46 | .1 | 1.3 |
| 6 | .0 | .0 | .0 | .0 | * | .1 | .6 | .5 | .1 | * | .0 | 49 | .1 | 1.3 |
| 5 | .0 | .0 | .0 | .0 | * | .2 | 1.0 | .5 | .1 | .0 | .0 | 62 | .1 | 1.7 |
| 4 | .0 | .0 | .0 | .0 | .1 | .8 | 2.3 | .8 | .0 | .0 | .0 | 133 | .5 | 3.6 |
| 3 | .0 | .0 | .0 | .0 | .1 | 1.3 | 2.0 | .6 | .0 | .0 | .0 | 135 | .4 | 3.6 |
| 2 | .0 | .0 | .0 | .0 | .4 | 3.0 | 3.6 | .9 | * | .0 | .0 | 269 | .8 | 7.1 |
| 1 | .0 | .0 | .0 | .0 | .1 | 4.0 | 3.3 | .3 | .0 | .0 | .0 | 260 | 1.1 | 6.6 |
| 0 | .0 | .0 | .0 | * | 1.4 | 6.8 | 5.2 | .6 | .0 | .0 | .0 | 471 | 1.4 | 12.6 |
| -1 | .0 | .0 | .0 | .0 | 1.4 | 6.8 | 2.7 | .1 | .0 | .0 | .0 | 376 | .9 | 10.2 |
| -2 | .0 | .0 | .0 | .1 | 2.5 | 7.5 | 2.6 | .1 | .0 | .0 | .0 | 430 | 1.1 | 11.6 |
| -3 | .0 | .0 | .0 | .1 | 2.0 | 5.4 | 1.5 | .1 | .0 | .0 | .0 | 308 | .7 | 8.4 |
| -4 | .0 | .0 | .0 | .3 | 2.5 | 4.3 | .6 | * | .0 | .0 | .0 | 261 | .6 | 7.1 |
| -5 | .0 | .0 | .0 | .7 | 2.8 | 2.5 | .5 | * | .0 | .0 | .0 | 220 | .4 | 6.1 |
| -6 | .0 | .0 | * | .6 | 1.5 | 1.1 | .2 | * | .0 | .0 | .0 | 114 | .3 | 3.1 |
| -7/-8 | .0 | .0 | .2 | .7 | 1.5 | .8 | .3 | .0 | .0 | .0 | .0 | 118 | .2 | 3.3 |
| -9/-10 | .0 | .0 | .2 | .4 | .5 | .2 | * | .0 | .0 | .0 | .0 | 47 | * | 1.4 |
| -11/-13 | .0 | * | .3 | .2 | .2 | .3 | .0 | .0 | .0 | .0 | .0 | 33 | .1 | .9 |
| -14/-16 | .0 | .1 | .1 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | 10 | * | .3 |
| -17/-19 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | 1 | 3 | 27 | 110 | 577 | 1537 | 898 | 186 | 25 | 9 | 1 | 3374 | 309 | 3065 |
| PCT | * | .1 | .8 | 3.3 | 17.1 | 45.6 | 26.6 | 5.5 | .7 | .3 | * | 100.0 | 9.2 | 90.8 |

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .5 | .9 | .0 | .0 | .0 | .0 | 1.5 |
| 1-2 | .2 | 2.8 | 1.3 | .0 | .0 | .0 | 4.3 |
| 3-4 | .1 | 1.4 | 2.8 | .7 | .0 | .0 | 5.0 |
| 5-6 | .1 | 1.1 | 3.5 | 1.3 | .2 | .0 | 6.2 |
| 7 | .0 | .1 | 1.1 | 1.3 | .3 | .0 | 2.8 |
| 8-9 | .0 | .0 | .6 | .7 | .6 | .0 | 2.0 |
| 10-11 | .0 | .0 | .3 | .3 | .2 | .0 | .8 |
| 12 | .0 | .0 | .2 | .1 | .0 | .0 | .3 |
| 13-16 | .0 | .0 | .0 | .3 | .3 | .0 | .5 |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 |
| 20-22 | .0 | .0 | .0 | .0 | .2 | .0 | .2 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .8 | 6.4 | 9.8 | 4.8 | 1.9 | .0 | 23.7 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | 1.2 | .0 | .0 | .0 | .0 | 1.3 |
| 1-2 | * | 1.2 | .5 | .0 | .0 | .0 | 1.8 |
| 3-4 | .0 | .7 | .6 | .2 | .0 | .0 | 1.6 |
| 5-6 | .0 | .2 | .4 | .2 | .2 | .0 | 1.0 |
| 7 | .0 | .0 | .2 | .1 | * | .0 | .3 |
| 8-9 | .0 | .0 | * | .2 | * | .0 | .2 |
| 10-11 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 3.3 | 1.8 | .9 | .2 | .0 | 6.4 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .9 | .1 | .0 | .0 | .0 | 1.1 |
| 1-2 | .0 | .9 | .5 | .0 | .0 | .0 | 1.5 |
| 3-4 | .0 | .4 | .3 | .0 | .0 | .0 | .7 |
| 5-6 | .0 | .2 | .3 | .1 | .0 | .0 | .5 |
| 7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 8-9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 10-11 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .1 | 2.5 | 1.2 | .1 | .0 | .0 | 3.8 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | .4 | .0 | .0 | .0 | .0 | .6 |
| 1-2 | .1 | 1.1 | .9 | .0 | .0 | .0 | 2.2 |
| 3-4 | .0 | .6 | .5 | .2 | .0 | .0 | 1.3 |
| 5-6 | .0 | .2 | .4 | .2 | .1 | .0 | .9 |
| 7 | .1 | .0 | .3 | .2 | .1 | .0 | .7 |
| 8-9 | .0 | .1 | .1 | * | .0 | .0 | .2 |
| 10-11 | .0 | .0 | .1 | .0 | .1 | .0 | .2 |
| 12 | .0 | .0 | .0 | .1 | .0 | .0 | .1 |
| 13-16 | .0 | .0 | .0 | * | * | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 2.9 | 2.3 | .7 | .3 | .0 | 6.2 |

PERIOD: (OVER-ALL) 1963-1979 DECEMBER

TABLE 18 (CONT) AREA 0035 SAN FRANCISCO 36.9N 123.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.0 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .2 | 1.8 | .5 | .0 | .0 | .0 | 2.5 |
| 3-4 | .0 | 1.1 | 2.3 | .5 | .0 | .0 | 3.9 |
| 5-6 | .0 | .4 | 2.0 | .9 | .1 | .0 | 3.4 |
| 7 | .0 | .0 | .8 | .2 | .0 | .0 | .7 |
| 8-9 | .0 | .0 | .1 | .2 | .3 | .0 | .6 |
| 10-11 | .0 | .0 | .0 | .4 | .0 | .0 | .4 |
| 12 | .0 | .0 | .0 | .2 | .0 | .0 | .2 |
| 13-16 | .0 | .0 | .0 | .1 | .1 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 4.2 | 5.4 | 2.5 | .4 | .0 | 13.0 |

SW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|
| .2 | .2 | .0 | .0 | .0 | .0 | .4 |
| * | 1.2 | .5 | .0 | .0 | .0 | 1.8 |
| .0 | .6 | 1.2 | .3 | .0 | .0 | 2.1 |
| .1 | .2 | 1.2 | .4 | .0 | .0 | 1.9 |
| .0 | .1 | .5 | .4 | .0 | .0 | 1.0 |
| .0 | .0 | .4 | * | .0 | .0 | .4 |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 |
| .0 | * | .0 | .2 | .0 | .0 | .2 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .4 | 2.3 | 4.0 | 1.3 | .0 | .0 | 8.0 |

W

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .2 | 1.0 | .0 | .0 | .0 | .0 | 1.2 |
| 1-2 | .3 | 2.4 | .8 | .0 | .0 | .0 | 3.4 |
| 3-4 | .2 | .9 | 2.0 | .1 | .0 | .0 | 3.3 |
| 5-6 | .0 | .6 | .8 | .4 | .0 | .0 | 1.9 |
| 7 | .0 | .2 | .9 | .1 | .1 | .0 | 1.3 |
| 8-9 | .0 | .0 | .3 | .1 | .0 | .0 | .3 |
| 10-11 | .0 | .1 | .2 | .3 | .0 | .0 | .5 |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .1 | .0 | .0 | .0 | .0 | .1 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .6 | 5.2 | 5.0 | 1.0 | .1 | .0 | 11.9 |

NW

| 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOTAL PCT |
|---|---|---|---|---|---|---|---|
| .4 | 1.0 | .0 | .0 | .0 | .0 | 1.4 | |
| .3 | 2.5 | 1.6 | .0 | .0 | .0 | 4.4 | |
| .1 | 1.4 | 4.2 | .6 | .0 | .0 | 6.3 | |
| * | .9 | 2.9 | 1.0 | .0 | .0 | 4.9 | |
| .0 | .2 | 1.6 | 1.2 | .1 | .0 | 3.1 | |
| .0 | .1 | .8 | .5 | .1 | .0 | 1.5 | |
| .0 | * | .3 | .6 | .1 | .0 | 1.1 | |
| .0 | .0 | .1 | .0 | .0 | .0 | .1 | |
| .0 | .0 | .0 | .5 | .3 | .0 | .8 | |
| .0 | .0 | .0 | .0 | * | .0 | * | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| .8 | 6.1 | 11.5 | 4.5 | .7 | .0 | 23.6 | 96.5 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.4 | 6.7 | .1 | .0 | .0 | .0 | 12.2 | |
| 1-2 | 1.2 | 14.1 | 6.7 | .0 | .0 | .0 | 22.0 | |
| 3-4 | .4 | 7.1 | 13.8 | 2.6 | .0 | .0 | 23.9 | |
| 5-6 | .3 | 3.8 | 11.5 | 4.6 | .6 | .0 | 23.7 | |
| 7 | .1 | .6 | 5.2 | 3.6 | .7 | .0 | 9.8 | |
| 8-9 | .0 | .2 | 2.3 | 1.8 | 1.0 | .0 | 5.3 | |
| 10-11 | .0 | .1 | .9 | 1.8 | .5 | .0 | 3.3 | |
| 12 | .0 | .0 | .4 | .4 | .0 | .0 | .8 | |
| 13-16 | .0 | .1 | .0 | 1.0 | .7 | .0 | 1.8 | |
| 17-19 | .0 | .0 | .0 | .0 | .1 | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .2 | .0 | .2 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | 7.4 | 32.6 | 40.8 | 15.6 | 3.7 | .0 | 100.0 | 1066 |

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.4 | 8.8 | 13.7 | 6.4 | 2.8 | 1.7 | .6 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 822 | 4 |
| 6-7 | * | 1.3 | 4.6 | 7.4 | 5.2 | 3.1 | 1.4 | 1.0 | .3 | .0 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 564 | 6 |
| 8-9 | .0 | .4 | 1.8 | 3.1 | 3.2 | 3.4 | 2.8 | 1.0 | .7 | .3 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 386 | 8 |
| 10-11 | .0 | .2 | .8 | 1.0 | 1.9 | 2.2 | 1.3 | .7 | 1.0 | .2 | .1 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 217 | 9 |
| 12-13 | .0 | .0 | .4 | .3 | .4 | .5 | .6 | .5 | .5 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 80 | 10 |
| >13 | .0 | .0 | .0 | .2 | .3 | .4 | .4 | .4 | .1 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 66 | 11 |
| INDET | 3.0 | 1.0 | .8 | .8 | .3 | .6 | .2 | * | .1 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 158 | 5 |
| TOTAL | 102 | 267 | 505 | 439 | 330 | 272 | 167 | 86 | 78 | 17 | 15 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2287 | 6 |
| PCT | 4.5 | 11.7 | 22.1 | 19.2 | 14.4 | 11.9 | 7.3 | 3.8 | 3.4 | .7 | .7 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| N | .3 | .3 | 1.3 | .0 | .0 | .0 | * | 1.9 | .6 | * | 7.3 | .3 | 4.0 | .1 | 85.8 |
| NE | 1.3 | .7 | 1.2 | .0 | .0 | .0 | .0 | 3.1 | .8 | * | 8.2 | .3 | 5.6 | .1 | 82.0 |
| E | *.1 | .7 | 2.1 | .0 | .0 | .0 | .0 | 6.9 | 1.8 | * | 14.3 | .5 | 5.6 | * | 71.0 |
| SE | 8.2 | 1.3 | 5.5 | .0 | .0 | .0 | * | 13.5 | 2.3 | .2 | 14.8 | .4 | 4.8 | .1 | 63.9 |
| S | 7.1 | 2.0 | 5.7 | .0 | .0 | .0 | * | 14.0 | 2.4 | .1 | 15.7 | .6 | 3.8 | * | 63.4 |
| SW | 3.9 | 1.7 | 3.7 | .0 | .0 | .0 | * | 9.0 | 2.3 | .1 | 15.1 | .5 | 4.1 | .0 | 68.9 |
| W | 1.8 | .8 | 2.3 | .0 | .0 | .0 | * | 4.7 | 1.8 | .1 | 12.9 | .5 | 4.8 | * | 75.2 |
| NW | .5 | .4 | 1.3 | .0 | .0 | .0 | * | 2.2 | .9 | .1 | 9.2 | .3 | 4.1 | .1 | 83.1 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | .4 | .2 | 2.3 | .0 | .0 | .0 | .0 | 2.8 | 1.0 | .1 | 21.2 | .8 | 9.5 | .0 | 64.7 |
| TOT PCT | 2.0 | .7 | 2.3 | .0 | .0 | .0 | * | 4.8 | 1.2 | .1 | 10.4 | .4 | 4.5 | .1 | 78.6 |
| TOT OBS: 52987 | | | | | | | | | | | | | | | |

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

| | PRECIPITATION TYPE | | | | | | | | | | OTHER WEATHER PHENOMENA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOUR (GMT) | RAIN | RAIN SHWR | DRZL | FRZG PCPN | SNOW | OTHER FRZN PCPN | HAIL | PCPN AT OB TIME | PCPN PAST HOUR | THDR LTNG | FOG WO PCPN | FOG WO PCPN PAST HR | SMOKE HAZE | SPRAY BLWG | DUST BLWG SNOW | NO SIG WEA |
| 00&03 | 2.1 | .8 | 1.8 | .0 | .0 | .0 | * | 4.4 | 1.0 | .1 | 10.2 | .4 | 5.8 | .1 | 78.1 |
| 06&09 | 2.1 | .6 | 2.5 | .0 | .0 | .0 | * | 4.9 | 1.3 | .2 | 8.8 | .3 | 3.0 | .1 | 81.5 |
| 12&15 | 2.1 | .8 | 3.1 | .0 | .0 | .0 | * | 5.9 | 1.4 | .1 | 11.3 | .3 | 3.0 | * | 78.0 |
| 18&21 | 1.9 | .6 | 1.8 | .0 | .0 | .0 | * | 4.1 | 1.2 | * | 11.9 | .5 | 6.2 | .1 | 76.1 |
| TOT PCT | 2.0 | .7 | 2.3 | .0 | .0 | .0 | * | 4.8 | 1.2 | .1 | 10.6 | .4 | 4.5 | .1 | 78.4 |
| TOT OBS: 53810 | | | | | | | | | | | | | | | |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

| | WIND SPEED (KNOTS) | | | | | | | | | HOUR (GMT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 | 03 | 06 | 09 | 12 | 15 | 18 | 21 |
| N | .8 | 5.6 | 10.7 | 5.2 | .6 | * | | 22.8 | 16.4 | 21.5 | 19.7 | 25.0 | 21.5 | 23.4 | 24.1 | 24.3 | 20.8 |
| NE | .3 | 1.6 | 1.1 | .2 | * | * | | 3.2 | 10.8 | 2.4 | 2.6 | 2.8 | 2.5 | 3.7 | 4.3 | 4.0 | 3.7 |
| E | .4 | 1.2 | .6 | .1 | * | .0 | | 2.3 | 8.3 | 1.7 | 1.7 | 1.7 | 2.0 | 2.2 | 3.4 | 3.3 | 2.7 |
| SE | .5 | 1.9 | 1.4 | .5 | .1 | * | | 4.5 | 11.1 | 3.9 | 4.4 | 3.4 | 4.0 | 3.8 | 6.0 | 5.8 | 6.1 |
| S | .6 | 3.1 | 2.8 | .9 | .1 | .0 | | 7.6 | 11.4 | 7.8 | 7.0 | 7.4 | 7.1 | 6.8 | 7.6 | 8.5 | 8.8 |
| SW | .7 | 3.4 | 2.1 | .3 | * | * | | 6.4 | 9.8 | 6.6 | 7.4 | 5.9 | 6.3 | 6.1 | 6.6 | 6.1 | 7.8 |
| W | .9 | 5.7 | 4.0 | .7 | .1 | .0 | | 11.4 | 10.9 | 12.5 | 12.4 | 11.8 | 11.6 | 11.2 | 10.2 | 10.2 | 10.9 |
| NW | 1.1 | 10.5 | 18.6 | 7.6 | .7 | * | | 38.4 | 15.3 | 41.1 | 42.0 | 39.0 | 41.3 | 38.5 | 34.6 | 34.1 | 36.3 |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | | 3.3 | .0 | 2.5 | 2.8 | 3.1 | 3.7 | 4.3 | 3.2 | 3.8 | 3.0 |
| TOT OBS | | | | | | | 58544 | | 13.7 | 10617 | 4378 | 10132 | 4169 | 10732 | 4353 | 8748 | 5415 |
| TOT PCT | 8.5 | 33.0 | 41.4 | 15.5 | 1.6 | * | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 3A

| | WIND SPEED (KNOTS) | | | | | | | | HOUR (GMT) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WND DIR | 0-6 | 7-16 | 17-27 | 28-40 | 41+ | TOTAL OBS | PCT FREQ | MEAN SPD | 00 03 | 06 09 | 12 15 | 18 21 |
| N | 2.6 | 9.5 | 8.6 | 2.0 | .1 | | 22.8 | 16.4 | 20.9 | 23.9 | 23.6 | 22.9 |
| NE | 1.0 | 1.6 | .5 | .1 | * | | 3.2 | 10.8 | 2.5 | 2.7 | 3.8 | 3.9 |
| E | .9 | 1.1 | .2 | * | .0 | | 2.3 | 8.3 | 1.7 | 1.7 | 2.5 | 3.0 |
| SE | 1.4 | 2.0 | .9 | .3 | * | | 4.5 | 11.1 | 4.1 | 3.6 | 4.4 | 5.9 |
| S | 1.9 | 3.6 | 1.7 | .4 | * | | 7.6 | 11.4 | 7.6 | 7.3 | 7.1 | 8.6 |
| SW | 2.1 | 3.3 | .9 | .1 | * | | 6.4 | 9.8 | 6.8 | 6.0 | 6.2 | 6.7 |
| W | 3.2 | 6.3 | 1.7 | .2 | * | | 11.4 | 10.9 | 12.5 | 11.7 | 10.9 | 10.5 |
| NW | 4.4 | 17.5 | 13.7 | 2.7 | .1 | | 38.4 | 15.3 | 41.4 | 39.6 | 37.4 | 35.0 |
| VAR | .0 | .0 | .0 | .0 | .0 | | .0 | .0 | .0 | .0 | .0 | .0 |
| CALM | 3.3 | | | | | | 3.3 | .0 | 2.6 | 3.3 | 4.0 | 3.5 |
| TOT OBS | | | | | | 58544 | | 13.7 | 14995 | 14301 | 15089 | 14163 |
| TOT PCT | 20.8 | 44.9 | 28.2 | 5.8 | .2 | | 100.0 | | 100.0 | 100.0 | 100.0 | 100.0 |

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

| HOUR | CALM | WIND SPEED (KNOTS) 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | MEAN | PCT FREQ | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 2.6 | 4.6 | 31.5 | 42.5 | 17.1 | 1.7 | * | 14.2 | 100.0 | 14995 |
| 06&09 | 3.3 | 4.3 | 31.7 | 42.2 | 16.8 | 1.7 | * | 14.1 | 100.0 | 14301 |
| 12&15 | 4.0 | 5.6 | 33.8 | 40.5 | 14.5 | 1.5 | * | 13.4 | 100.0 | 15085 |
| 18&21 | 3.5 | 6.0 | 35.0 | 40.1 | 13.7 | 1.6 | * | 13.2 | 100.0 | 14163 |
| TOT | | | | | | | | 13.7 | | 58544 |
| PCT | 3.3 | 5.1 | 33.0 | 41.4 | 15.5 | 1.6 | * | | 100.0 | |

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

| WND DIR | 0-2 | 3-4 | 5-7 | 8 & OBSCD | TOTAL OBS | MEAN CLOUD COVER |
|---|---|---|---|---|---|---|
| N | 10.2 | 2.8 | 4.9 | 6.3 | | 4.0 |
| NE | 1.6 | .3 | .6 | .8 | | 4.1 |
| E | .8 | .2 | .5 | .7 | | 5.0 |
| SE | .7 | .3 | .9 | 2.2 | | 6.0 |
| S | .9 | .6 | 1.7 | 4.2 | | 6.3 |
| SW | 1.1 | .5 | 1.5 | 2.9 | | 5.8 |
| W | 3.5 | 1.3 | 2.4 | 4.2 | | 4.9 |
| NW | 15.8 | 4.2 | 7.1 | 10.8 | | 4.0 |
| VAR | .0 | .0 | .0 | .0 | | .0 |
| CALM | 1.3 | .2 | .5 | 1.3 | | 4.6 |
| TOT OBS | | | | | 37670 | 4.5 |
| TOT PCT | 35.9 | 10.5 | 20.1 | 33.6 | 100.0 | |

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

| WND DIR | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | .7 | .1 | .8 | 2.3 | 3.6 | 1.7 | .3 | .1 | .1 | .1 | 14.5 | |
| NE | .1 | * | .1 | .2 | .4 | .3 | * | * | * | * | 2.2 | |
| E | .1 | * | * | .1 | .3 | .2 | .1 | * | * | .1 | 1.3 | |
| SE | .3 | * | .2 | .5 | .8 | .5 | .2 | .1 | * | .1 | 1.4 | |
| S | .5 | .1 | .3 | 1.1 | 1.6 | .9 | .3 | .1 | * | .1 | 2.3 | |
| SW | .4 | .1 | .2 | .6 | 1.3 | .7 | .2 | .1 | .1 | .1 | 2.4 | |
| W | .6 | .1 | .3 | .9 | 2.1 | 1.1 | .3 | * | * | .1 | 5.8 | |
| NW | 1.4 | .2 | 1.2 | 3.4 | 5.7 | 2.6 | .6 | .1 | .1 | .2 | 22.3 | |
| VAR | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| CALM | .4 | * | .1 | .2 | .4 | .3 | * | * | * | * | 1.8 | |
| TOT OBS | | | | | | | | | | | | 37670 |
| TOT PCT | 4.5 | .7 | 3.3 | 9.2 | 16.3 | 8.3 | 2.1 | .5 | .4 | .7 | 54.0 | 100.0 |

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

| CEILING (FEET) | VSBY (NM) * OR >10 | * OR >5 | * OR >2 | * OR >1 | * OR >1/2 | * OR >1/4 | * OR >50YD | * OR >0 |
|---|---|---|---|---|---|---|---|---|
| * OR >6500 | .6 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| * OR >5000 | 1.0 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| * OR >3500 | 2.3 | 3.5 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| * OR >2000 | 7.9 | 11.4 | 11.9 | 12.0 | 12.0 | 12.1 | 12.1 | 12.1 |
| * OR >1000 | 17.7 | 26.5 | 27.9 | 28.1 | 28.2 | 28.2 | 28.3 | 28.3 |
| * OR >600 | 22.0 | 34.6 | 36.7 | 37.1 | 37.3 | 37.3 | 37.4 | 37.4 |
| * OR >300 | 23.0 | 37.0 | 39.7 | 40.2 | 40.5 | 40.6 | 40.7 | 40.7 |
| * OR >150 | 23.2 | 37.4 | 40.3 | 40.8 | 41.1 | 41.3 | 41.4 | 41.4 |
| * OR > 0 | 23.3 | 38.1 | 41.4 | 42.5 | 43.6 | 44.4 | 45.5 | 45.9 |

TOTAL NUMBER OF OBS: 37997 PCT FREQ NH <5/8: 54.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 OBSCD | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 26.3 | 8.0 | 8.9 | 5.8 | 4.5 | 4.1 | 6.2 | 6.8 | 25.5 | 3.8 | 39599 |

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCP | * | * | * | * | .1 | * | * | .1 | .0 | * | .2 | |
| <1/2 | NO PCP | .5 | .1 | .1 | .2 | .3 | .2 | .4 | 1.0 | .0 | .2 | 3.0 | |
| | TOT % | .5 | .1 | .1 | .2 | .4 | .3 | .4 | 1.0 | .0 | .2 | 3.3 | |
| | PCP | * | * | * | * | .1 | * | * | * | .0 | * | .3 | |
| 1/2<1 | NO PCP | .4 | .1 | .1 | .1 | .2 | .2 | .3 | .7 | .0 | .1 | 2.2 | |
| | TOT % | .4 | .1 | .1 | .2 | .3 | .3 | .4 | .7 | .0 | .1 | 2.4 | |
| | PCP | * | * | * | .1 | .1 | * | * | * | .0 | * | .3 | |
| 1<2 | NO PCP | .2 | * | * | .1 | .2 | .1 | .2 | .4 | .0 | .1 | 1.3 | |
| | TOT % | .2 | * | .1 | .2 | .3 | .2 | .2 | .4 | .0 | .1 | 1.6 | |
| | PCP | .1 | * | * | .2 | .3 | .1 | .1 | .1 | .0 | * | 1.0 | |
| 2<5 | NO PCP | .7 | .1 | .1 | .2 | .3 | .3 | .5 | 1.2 | .0 | .3 | 3.7 | |
| | TOT % | .8 | .2 | .1 | .4 | .6 | .4 | .6 | 1.3 | .0 | .3 | 4.7 | |
| | PCP | .2 | * | .1 | .3 | .6 | .3 | .3 | .4 | .0 | * | 2.2 | |
| 5<10 | NO PCP | 5.8 | .8 | .6 | 1.3 | 2.0 | 1.7 | 2.9 | 9.6 | .0 | .7 | 25.3 | |
| | TOT % | 6.0 | .8 | .7 | 1.6 | 2.6 | 2.0 | 3.2 | 9.9 | .0 | .8 | 27.6 | |
| | PCP | .1 | * | * | .1 | .1 | .1 | .1 | .2 | .0 | * | .7 | |
| 10+ | NO PCP | 15.4 | 2.0 | 1.2 | 1.8 | 3.4 | 3.3 | 6.7 | 24.4 | .0 | 1.4 | 59.7 | |
| | TOT % | 15.5 | 2.1 | 1.2 | 1.9 | 3.6 | 3.4 | 6.7 | 24.6 | .0 | 1.5 | 60.4 | |
| | TOT OBS | | | | | | | | | | | | 52906 |
| | TOT PCT | 23.4 | 3.2 | 2.2 | 4.4 | 7.7 | 6.5 | 11.5 | 38.1 | .0 | 2.9 | 100.0 | |

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

| VSBY (NM) | SPD KTS | N | NE | E | SE | S | SW | W | NW | VAR | CALM | PCT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-3 | * | * | * | * | .1 | .1 | .1 | .1 | .0 | .3 | .7 | |
| <1/2 | 4-10 | .2 | * | .1 | .1 | .2 | .2 | .3 | .5 | .0 | | 1.6 | |
| | 11-21 | .2 | * | * | .1 | .1 | .1 | .1 | .4 | .0 | | 1.0 | |
| | 22+ | * | .0 | .0 | * | * | * | * | * | .0 | | .1 | |
| | TOT % | .5 | .1 | .1 | .2 | .4 | .3 | .4 | 1.1 | .0 | .3 | 3.4 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .3 | |
| 1/2<1 | 4-10 | .1 | * | * | .1 | .1 | .1 | .2 | .3 | .0 | | 1.0 | |
| | 11-21 | .2 | * | * | .1 | .1 | .1 | .1 | .3 | .0 | | .9 | |
| | 22+ | .1 | * | * | * | * | * | * | .1 | .0 | | .2 | |
| | TOT % | .4 | .1 | .1 | .2 | .3 | .3 | .3 | .7 | .0 | .1 | 2.4 | |
| | 0-3 | * | * | * | * | * | * | * | * | .0 | .1 | .2 | |
| 1<2 | 4-10 | .1 | * | * | .1 | .1 | .1 | .1 | .2 | .0 | | .8 | |
| | 11-21 | .1 | * | * | * | .1 | .1 | .1 | .2 | .0 | | .7 | |
| | 22+ | * | .0 | .0 | * | .1 | * | * | .1 | .0 | | .2 | |
| | TOT % | .2 | * | .1 | .2 | .3 | .2 | .3 | .5 | .0 | .1 | 1.9 | |
| | 0-3 | .1 | * | * | * | .1 | * | .1 | .1 | .0 | .3 | .7 | |
| 2<5 | 4-10 | .3 | .1 | .1 | .1 | .2 | .2 | .3 | .6 | .0 | | 1.9 | |
| | 11-21 | .4 | .1 | * | .1 | .3 | .1 | .2 | .7 | .0 | | 1.9 | |
| | 22+ | .2 | * | * | .1 | .2 | * | * | .2 | .0 | | .7 | |
| | TOT % | .9 | .2 | .1 | .4 | .7 | .5 | .6 | 1.6 | .0 | .3 | 5.2 | |
| | 0-3 | .2 | .1 | .1 | .1 | .2 | .2 | .3 | .3 | .0 | .8 | 2.3 | |
| 5<10 | 4-10 | 1.3 | .4 | .3 | .6 | 1.0 | 1.0 | 1.6 | 2.6 | .0 | | 8.8 | |
| | 11-21 | 2.8 | .3 | .2 | .5 | .9 | .6 | 1.0 | 4.8 | .0 | | 11.1 | |
| | 22+ | 1.5 | .1 | * | .3 | .5 | .2 | .2 | 2.2 | .0 | | 4.8 | |
| | TOT % | 5.9 | .8 | .7 | 1.5 | 2.5 | 1.9 | 3.1 | 9.8 | .0 | .8 | 27.0 | |
| | 0-3 | .4 | .2 | .2 | .2 | .2 | .3 | .3 | .5 | .0 | 1.6 | 3.8 | |
| 10+ | 4-10 | 3.4 | 1.0 | .7 | .9 | 1.5 | 1.7 | 3.2 | 6.1 | .0 | | 18.6 | |
| | 11-21 | 7.3 | .7 | .4 | .7 | 1.4 | 1.2 | 2.6 | 12.2 | .0 | | 26.4 | |
| | 22+ | 4.2 | .2 | * | .2 | .4 | .2 | .5 | 5.8 | .0 | | 11.4 | |
| | TOT % | 15.3 | 2.1 | 1.2 | 1.9 | 3.5 | 3.3 | 6.7 | 24.6 | .0 | 1.6 | 60.2 | |
| | TOT OBS | | | | | | | | | | | | 55584 |
| | TOT PCT | 23.2 | 3.2 | 2.2 | 4.4 | 7.7 | 6.4 | 11.4 | 38.3 | .0 | 3.2 | 100.0 | |

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

| HOUR (GMT) | 000 149 | 150 299 | 300 599 | 600 999 | 1000 1999 | 2000 3499 | 3500 4999 | 5000 6499 | 6500 7999 | 8000+ | TOTAL | NH <5/8 ANY HGT | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 3.6 | .8 | 2.9 | 8.8 | 15.6 | 7.7 | 2.4 | .5 | .5 | .9 | 43.7 | 56.3 | 9802 |
| 06&09 | 4.2 | .6 | 2.9 | 7.3 | 14.4 | 8.3 | 1.7 | .5 | .3 | .5 | 40.6 | 59.4 | 10166 |
| 12&15 | 5.4 | .7 | 3.4 | 9.3 | 16.9 | 8.3 | 2.1 | .4 | .3 | .5 | 47.3 | 52.7 | 9376 |
| 18&21 | 4.7 | .9 | 3.8 | 10.7 | 17.1 | 8.6 | 2.3 | .7 | .4 | .8 | 49.9 | 50.1 | 9414 |
| TOT PCT | 4.5 | .7 | 3.2 | 9.0 | 16.0 | 8.2 | 2.1 | .5 | .4 | .7 | 45.3 | 54.7 | 38758 100.0 |

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

| HOUR (GMT) | <1/2 | 1/2<1 | 1<2 | 2<5 | 5<10 | 10+ | TOTAL OBS |
|---|---|---|---|---|---|---|---|
| 00&03 | 3.3 | 2.8 | 1.8 | 4.9 | 28.5 | 58.6 | 14410 |
| 06&09 | 3.2 | 1.9 | 1.4 | 4.3 | 24.5 | 64.7 | 13961 |
| 12&15 | 4.0 | 2.7 | 1.9 | 5.5 | 27.2 | 58.7 | 14529 |
| 18&21 | 3.4 | 2.5 | 2.3 | 6.1 | 28.0 | 57.8 | 13512 |
| TOT PCT | 3.5 | 2.5 | 1.9 | 5.2 | 27.1 | 59.9 | 56412 100.0 |

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

| HOUR (GMT) | <150 <50YD | <600 <1 | <1000 <5 | 1000+ AND5+ | NH <5/8 AND 5+ | TOTAL OBS |
|---|---|---|---|---|---|---|
| 00&03 | 3.6 | 7.9 | 19.4 | 26.5 | 54.1 | 9597 |
| 06&09 | 4.2 | 8.3 | 18.1 | 24.5 | 57.4 | 9959 |
| 12&15 | 5.5 | 10.4 | 22.6 | 27.0 | 50.5 | 9195 |
| 18&21 | 4.8 | 10.5 | 24.8 | 28.2 | 47.0 | 9246 |
| TOT PCT | 4.5 | 9.3 | 21.2 | 26.5 | 52.3 | 37997 100.0 |

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

| TEMP F | 0-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-100 | TOTAL OBS | PCT FREQ |
|---|---|---|---|---|---|---|---|---|---|---|
| 80/84 | * | * | * | * | * | .0 | .0 | .0 | | * |
| 75/79 | * | * | * | * | * | * | * | .0 | | .2 |
| 70/74 | * | * | * | .1 | .1 | .1 | .1 | * | | .5 |
| 65/69 | .0 | * | .1 | .2 | .4 | 1.0 | 1.1 | .5 | | 3.3 |
| 60/64 | * | * | .1 | .3 | 1.3 | 4.6 | 8.8 | 4.5 | | 19.7 |
| 55/59 | .0 | * | .1 | .5 | 2.0 | 7.4 | 18.8 | 12.9 | | 41.7 |
| 50/54 | .0 | * | .1 | .6 | 3.1 | 5.4 | 12.2 | 8.8 | | 30.2 |
| 45/49 | .0 | * | .1 | .2 | .5 | .9 | 1.2 | 1.1 | | 4.0 |
| 40/44 | .0 | * | * | * | * | .1 | * | .1 | | .3 |
| 35/39 | .0 | .0 | * | * | .0 | * | * | * | | * |
| TOTAL PCT | * | .2 | .6 | 1.9 | 7.6 | 19.6 | 42.2 | 27.9 | 37860 | 100.0 |

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

| N | NE | E | SE | S | SW | W | NW | VAR | CALM |
|---|---|---|---|---|---|---|---|---|---|
| * | * | .0 | .0 | * | * | .0 | * | .0 | .0 |
| * | * | * | * | * | * | * | * | .0 | * |
| .1 | * | * | * | * | * | .1 | .2 | .0 | * |
| .8 | .1 | .1 | .1 | .2 | .2 | .5 | 1.2 | .0 | .2 |
| 5.1 | .5 | .3 | .7 | 1.4 | 1.3 | 2.2 | 7.7 | .0 | .6 |
| 9.5 | 1.1 | .9 | 2.1 | 3.7 | 2.8 | 4.5 | 16.0 | .0 | 1.2 |
| 7.6 | 1.0 | .7 | 1.2 | 2.0 | 1.6 | 3.7 | 11.7 | .0 | .8 |
| 1.0 | .3 | .2 | .1 | .2 | .2 | .5 | 1.4 | .0 | .1 |
| .1 | .1 | * | * | * | * | * | * | .0 | * |
| * | * | * | * | .0 | .0 | .0 | * | .0 | * |
| 24.1 | 3.2 | 2.1 | 4.2 | 7.5 | 6.2 | 11.5 | 38.3 | .0 | 2.9 |

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

| HOUR (GMT) | MAX | 99% | 95% | 50% | 5% | 1% | MIN | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|
| 00&03 | 83 | 69 | 64 | 57 | 52 | 49 | 37 | 57.5 | 15149 |
| 06&09 | 82 | 64 | 61 | 56 | 51 | 49 | 38 | 55.9 | 14407 |
| 12&15 | 84 | 68 | 61 | 55 | 50 | 48 | 34 | 55.3 | 15267 |
| 18&21 | 83 | 69 | 64 | 57 | 51 | 49 | 32 | 57.3 | 14268 |
| TOT | 84 | 67 | 63 | 56 | 51 | 49 | 32 | 56.5 | 59091 |

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

| HOUR (GMT) | 0-29 | 30-59 | 60-69 | 70-79 | 80-89 | 90-100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|
| 00&03 | * | 3.3 | 9.1 | 23.7 | 42.1 | 21.8 | 82 | 9867 |
| 06&09 | .0 | 1.6 | 5.7 | 16.2 | 44.6 | 31.8 | 85 | 9686 |
| 12&15 | * | 1.9 | 5.4 | 15.3 | 43.1 | 34.4 | 86 | 9731 |
| 18&21 | * | 4.1 | 10.1 | 23.3 | 38.7 | 23.7 | 82 | 9062 |
| TOT | 7 | 992 | 2822 | 7459 | 16273 | 10773 | 84 | 38326 |

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

| AIR-SEA | 29 | 33 | 37 | 41 | 45 | 49 | 53 | 57 | 61 | 65 | 69 | 73 | 77 | 81 | TOT | W | WO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TMP DIF | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | | FOG | FOG |
| 23/25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | 2 | .0 | * |
| 20/22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | * | * | * | .0 | 11 | * | * |
| 17/19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | * | * | 39 | * | .1 |
| 14/16 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .1 | .1 | * | * | .0 | 131 | * | .2 |
| 11/13 | .0 | .0 | .0 | .0 | .0 | * | * | * | .2 | .2 | .1 | * | * | * | 306 | * | .6 |
| 9/10 | .0 | .0 | .0 | .0 | .0 | * | * | .2 | .4 | .3 | .1 | * | * | .0 | 487 | .1 | .9 |
| 7/8 | .0 | .0 | .0 | .0 | * | * | .1 | .6 | .8 | .4 | .1 | * | * | * | 1051 | .2 | 1.9 |
| 6 | .0 | .0 | .0 | .0 | * | * | .2 | .7 | .6 | .2 | .1 | * | * | * | 907 | .2 | 1.6 |
| 5 | .0 | .0 | .0 | * | * | * | .4 | 1.3 | .9 | .3 | .1 | * | * | .0 | 1522 | .3 | 2.7 |
| 4 | .0 | .0 | .0 | .0 | * | .1 | 1.0 | 2.1 | 1.4 | .3 | * | * | * | * | 2445 | .5 | 4.4 |
| 3 | .0 | .0 | .0 | .0 | * | .1 | 1.4 | 2.4 | 1.0 | .3 | * | * | * | .0 | 2034 | .5 | 4.8 |
| 2 | .0 | .0 | * | * | * | .5 | 2.9 | 3.8 | 2.0 | .3 | * | * | * | .0 | 4814 | 1.1 | 8.6 |
| 1 | .0 | .0 | .0 | * | * | .7 | 3.9 | 3.5 | 1.3 | .2 | * | * | * | .0 | 4817 | 1.1 | 8.6 |
| 0 | .0 | .0 | * | * | * | 1.7 | 6.1 | 4.9 | 1.9 | .2 | * | * | * | .0 | 7246 | 1.5 | 13.3 |
| -1 | .0 | .0 | .0 | .0 | * | 1.9 | 5.1 | 3.0 | 1.0 | .1 | * | * | * | .0 | 5515 | 1.3 | 9.9 |
| -2 | .0 | .0 | .0 | .0 | .2 | 2.8 | 4.9 | 2.8 | .8 | .1 | * | * | * | .0 | 5734 | 1.3 | 10.4 |
| -3 | .0 | .0 | .0 | .0 | .2 | 2.2 | 3.0 | 1.6 | .6 | .1 | * | * | * | .0 | 3738 | .8 | 6.9 |
| -4 | .0 | .0 | .0 | .0 | .4 | 2.1 | 2.1 | 1.1 | .4 | * | * | * | * | .0 | 2956 | .6 | 5.5 |
| -5 | .0 | * | .0 | .0 | .3 | 1.5 | 1.2 | .7 | .2 | * | * | * | .0 | .0 | 1937 | .4 | 3.6 |
| -6 | .0 | .0 | .0 | * | .3 | .8 | .7 | .5 | .1 | * | .0 | .0 | .0 | .0 | 1135 | .3 | 2.1 |
| -7/-8 | .0 | .0 | * | .1 | .3 | .7 | .6 | .5 | .1 | * | .0 | .0 | .0 | .0 | 1128 | .2 | 2.1 |
| -9/-10 | * | .0 | * | * | .2 | .2 | .3 | .1 | * | .0 | .0 | .0 | .0 | .0 | 439 | .1 | .8 |
| -11/-13 | .0 | * | * | .1 | .1 | .1 | .2 | * | * | .0 | .0 | .0 | .0 | .0 | 240 | .1 | .4 |
| -14/-16 | .0 | * | * | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 57 | .0 | .1 |
| -17/-19 | .0 | * | * | .0 | * | * | * | * | * | .0 | .0 | .0 | .0 | .0 | 20 | * | * |
| -20/-22 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | .0 | * |
| TOTAL | | | | | | | | | | | | | | | 49412 | | |
| PCT | * | * | .1 | .2 | 2.3 | 15.7 | 34.1 | 29.8 | 13.8 | 3.0 | .7 | .2 | .1 | * | 100.0 | 10.5 | 89.5 |

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .3 | .8 | * | .0 | .0 | .0 | 1.1 |
| 1-2 | .1 | 2.2 | 1.6 | .0 | .0 | .0 | 3.9 |
| 3-4 | * | 1.3 | 3.5 | .8 | .0 | .0 | 5.6 |
| 5-6 | * | .4 | 3.0 | 1.2 | .1 | .0 | 4.7 |
| 7 | .0 | .1 | 1.6 | 1.4 | .1 | .0 | 3.2 |
| 8-9 | .0 | * | .6 | 1.1 | .2 | .0 | 1.9 |
| 10-11 | .0 | .0 | .3 | .7 | .1 | .0 | 1.2 |
| 12 | .0 | * | .1 | .3 | .1 | .0 | .4 |
| 13-16 | .0 | .0 | * | .2 | .2 | .0 | .5 |
| 17-19 | .0 | .0 | * | * | * | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | * | .0 | * |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .4 | 4.8 | 10.9 | 5.6 | .8 | .0 | 22.6 |

NE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | * | .6 | .3 | .0 | .0 | .0 | .9 |
| 3-4 | * | .3 | .4 | .1 | .0 | .0 | .9 |
| 5-6 | * | * | .2 | .1 | * | .0 | .3 |
| 7 | .0 | * | .1 | * | * | .0 | .1 |
| 8-9 | .0 | * | * | * | * | .0 | .1 |
| 10-11 | .0 | .0 | * | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | * | .0 | .0 | * |
| 13-16 | .0 | * | * | .0 | .0 | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | * | .0 | .0 | .0 | * |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.5 | 1.1 | .3 | * | .0 | 3.1 |

E

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .5 | .1 | .0 | .0 | .0 | .7 |
| 1-2 | * | .5 | .3 | .0 | .0 | .0 | .9 |
| 3-4 | * | .2 | .2 | * | .0 | .0 | .5 |
| 5-6 | .0 | * | .1 | * | .0 | .0 | .2 |
| 7 | .0 | .0 | * | .0 | * | .0 | * |
| 8-9 | .0 | .0 | .0 | * | .0 | .0 | * |
| 10-11 | .0 | .0 | .0 | * | .0 | .0 | * |
| 12 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 13-16 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.3 | .8 | .1 | * | .0 | 2.3 |

SE

| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
|---|---|---|---|---|---|---|---|
| <1 | .1 | .6 | .1 | .0 | .0 | .0 | .8 |
| 1-2 | .1 | .7 | .4 | .0 | .0 | .0 | 1.2 |
| 3-4 | * | .3 | .6 | .1 | .0 | .0 | 1.1 |
| 5-6 | .0 | .1 | .3 | .2 | * | .0 | .6 |
| 7 | * | * | .2 | .2 | * | * | .4 |
| 8-9 | .0 | * | * | * | * | .0 | .1 |
| 10-11 | .0 | * | * | * | * | .0 | .1 |
| 12 | .0 | .0 | * | * | * | .0 | .1 |
| 13-16 | .0 | .0 | .0 | * | * | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | * | .0 | * |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .2 | 1.8 | 1.6 | .6 | .1 | * | 4.4 |

PERIOD: (OVER-ALL) 1963-1974 ANNUAL AREA 0035 SAN FRANCISCO 37.0N 123.6W

TABLE 19 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

| | S | | | | | | | SW | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT |
| <1 | .2 | .9 | .1 | .0 | .0 | .0 | 1.2 | .3 | .9 | .1 | .0 | .0 | .0 | 1.3 |
| 1-2 | .1 | 1.2 | .7 | .0 | .0 | .0 | 2.0 | .1 | 1.1 | .4 | .0 | .0 | .0 | 1.6 |
| 3-4 | * | .6 | 1.2 | .1 | .0 | .0 | 1.9 | * | .5 | .6 | .1 | .0 | .0 | 1.2 |
| 5-6 | * | .2 | .8 | .3 | * | .0 | 1.3 | * | .2 | .5 | .1 | * | .0 | .8 |
| 7 | .0 | * | .3 | .2 | * | .0 | .5 | .0 | * | .2 | .1 | * | .0 | .4 |
| 8-9 | .0 | * | .1 | .2 | * | .0 | .3 | .0 | * | .1 | .1 | * | .0 | .2 |
| 10-11 | .0 | * | * | .1 | * | .0 | .2 | .0 | * | * | * | * | .0 | .1 |
| 12 | .0 | .0 | * | * | * | .0 | .1 | .0 | .0 | * | * | * | .0 | * |
| 13-16 | .0 | .0 | * | * | * | .0 | .1 | .0 | * | * | * | * | .0 | * |
| 17-19 | .0 | .0 | .0 | .0 | * | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| TOT PCT | .3 | 2.9 | 3.2 | 1.0 | .2 | .0 | 7.7 | .5 | 2.7 | 2.0 | .4 | * | .0 | 5.7 |

| | W | | | | | | | NW | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HGT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | 1-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | PCT |
| <1 | .3 | 1.4 | .2 | .0 | .0 | .0 | 1.9 | .3 | 1.9 | .2 | .0 | .0 | .0 | 2.4 | |
| 1-2 | .2 | 2.4 | 1.4 | .0 | .0 | .0 | 3.9 | .2 | 3.7 | 3.6 | .0 | .0 | .0 | 7.5 | |
| 3-4 | * | 1.2 | 1.5 | .3 | .0 | .0 | 3.1 | * | 2.2 | 6.8 | 1.7 | .0 | .0 | 10.8 | |
| 5-6 | * | .3 | .8 | .2 | * | .0 | 1.3 | * | .8 | 4.9 | 1.7 | .1 | .0 | 7.6 | |
| 7 | * | .1 | .4 | .1 | * | .0 | .6 | .0 | .2 | 2.6 | 1.9 | .1 | .0 | 4.9 | |
| 8-9 | * | * | .2 | .1 | * | .0 | .3 | * | .1 | 1.0 | 1.5 | .1 | .0 | 2.7 | |
| 10-11 | .0 | * | * | .1 | * | .0 | .1 | .0 | * | .6 | 1.0 | .1 | .0 | 1.7 | |
| 12 | .0 | .0 | * | * | .0 | .0 | * | .0 | .0 | .1 | .4 | .1 | * | .6 | |
| 13-16 | .0 | * | * | * | * | .0 | * | .0 | * | .1 | .4 | .2 | .0 | .7 | |
| 17-19 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | * | .0 | .1 | |
| 20-22 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | * | .0 | * | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| TOT PCT | .5 | 5.6 | 4.4 | .8 | .1 | .0 | 11.4 | .6 | 9.0 | 20.0 | 8.7 | .8 | * | 39.1 | 96.0 |

WIND SPEED (KTS) VS SEA HEIGHT (FT)

| HGT | 0-3 | 4-10 | 11-21 | 22-33 | 34-47 | 48+ | PCT | TOT OBS |
|---|---|---|---|---|---|---|---|---|
| <1 | 5.6 | 7.7 | .8 | .0 | .0 | .0 | 14.1 | |
| 1-2 | 1.0 | 12.3 | 8.7 | .0 | .0 | .0 | 22.1 | |
| 3-4 | .2 | 6.7 | 14.8 | 3.4 | .0 | .0 | 25.1 | |
| 5-6 | .1 | 2.0 | 10.4 | 3.8 | .3 | .0 | 16.7 | |
| 7 | * | .5 | 5.5 | 3.8 | .3 | * | 10.2 | |
| 8-9 | * | .2 | 2.0 | 2.9 | .4 | .0 | 5.6 | |
| 10-11 | .0 | .1 | 1.1 | 2.0 | .3 | .0 | 3.5 | |
| 12 | .0 | * | .3 | .8 | .2 | * | 1.3 | |
| 13-16 | .0 | * | .2 | .8 | .4 | .0 | 1.4 | |
| 17-19 | .0 | .0 | * | .1 | * | .0 | .1 | |
| 20-22 | .0 | .0 | * | * | .1 | .0 | .1 | |
| 23-25 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 26-32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 33-40 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 41-48 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 49-60 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 61-70 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 71-86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| 87+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | |
| | | | | | | | | 16485 |
| TOT PCT | 6.9 | 29.6 | 43.9 | 17.5 | 2.1 | * | 100.0 | |

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

| PERIOD (SEC) | <1 | 1-2 | 3-4 | 5-6 | 7 | 8-9 | 10-11 | 12 | 13-16 | 17-19 | 20-22 | 23-25 | 26-32 | 33-40 | 41-48 | 49-60 | 61-70 | 71-86 | 87+ | TOTAL | MEAN HGT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <6 | 1.6 | 8.7 | 14.1 | 6.9 | 3.3 | 1.4 | .6 | .2 | .2 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 12850 | 4 |
| 6-7 | .1 | 1.5 | 6.6 | 7.5 | 5.7 | 3.2 | 1.9 | .8 | .6 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 9688 | 6 |
| 8-9 | * | .6 | 2.1 | 2.9 | 3.8 | 2.8 | 2.1 | .9 | .9 | .2 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5660 | 7 |
| 10-11 | .0 | .5 | .7 | 1.0 | 1.3 | 1.3 | 1.0 | .7 | .7 | .2 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 2540 | 8 |
| 12-13 | .0 | .0 | .4 | .3 | .4 | .4 | .4 | .3 | .4 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 928 | 9 |
| >13 | .0 | .0 | .0 | .1 | .2 | .2 | .2 | .1 | .2 | * | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | 391 | 11 |
| INDET | 3.3 | 1.0 | .7 | .6 | .4 | .3 | .1 | .1 | .1 | * | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 2326 | 2 |
| TOTAL | | | | | | | | | | | | | | | | | | | | 34383 | 5 |
| PCT | 5.0 | 12.3 | 24.7 | 19.4 | 15.2 | 9.7 | 6.4 | 3.1 | 3.1 | .6 | .4 | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | |

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

| SEA TMP DEG F | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN | PCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96+ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 95/96 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 93/94 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 91/92 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 89/90 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 87/88 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 85/86 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 83/84 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 81/82 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 79/80 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | * | .0 | .0 | .0 | 1 | * |
| 77/78 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .2 | .2 | .0 | .0 | .0 | 21 | * |
| 75/76 | .0 | .0 | .0 | * | * | .0 | .1 | .1 | .1 | * | .0 | .0 | 19 | * |
| 73/74 | .0 | .0 | .0 | * | * | .1 | * | .3 | .2 | .2 | * | .0 | 39 | .1 |
| 71/72 | .0 | * | * | * | * | .1 | * | .2 | .5 | .2 | * | .0 | 56 | .1 |
| 69/70 | .0 | * | * | .1 | .1 | .3 | .3 | .3 | .9 | .5 | .2 | * | 130 | .2 |
| 67/68 | * | .1 | .1 | .1 | .1 | .6 | .9 | 1.2 | 3.6 | 1.9 | .5 | .3 | 439 | .F |
| 65/66 | .1 | .3 | .3 | .2 | .3 | 1.4 | 2.6 | 5.4 | 8.3 | 4.4 | 1.8 | .9 | 1220 | [illegible] |
| 63/64 | .6 | .3 | .4 | .4 | .8 | 3.6 | 7.1 | 11.5 | 14.7 | 11.7 | 5.1 | 1.4 | 2728 | 5.0 |
| 61/62 | 1.3 | .7 | .6 | 1.3 | 2.9 | 6.0 | 12.5 | 16.4 | 20.4 | 16.9 | 9.6 | 3.8 | 4365 | 8.0 |
| 59/60 | 4.1 | 3.4 | 2.8 | 3.2 | 6.5 | 11.8 | 19.7 | 21.8 | 19.0 | 24.1 | 20.1 | 13.1 | 6973 | 12.7 |
| 57/58 | 14.0 | 10.9 | 11.8 | 10.8 | 15.9 | 23.3 | 21.7 | 17.7 | 15.5 | 20.4 | 28.6 | 23.6 | 9835 | 17.9 |
| 55/56 | 28.6 | 28.6 | 27.8 | 24.9 | 26.2 | 24.3 | 18.7 | 15.4 | 11.9 | 13.3 | 20.1 | 29.3 | 12163 | 22.2 |
| 53/54 | 29.1 | 28.0 | 28.9 | 28.4 | 23.8 | 17.1 | 11.0 | 6.7 | 3.5 | 4.4 | 9.8 | 17.8 | 9356 | 17.1 |
| 51/52 | 15.2 | 19.9 | 17.8 | 19.4 | 15.7 | 7.6 | 4.0 | 2.1 | 1.1 | 1.6 | 2.9 | 7.4 | 5117 | 9.3 |
| 49/50 | 5.0 | 5.9 | 7.4 | 9.1 | 6.2 | 2.6 | 1.2 | .7 | .3 | .4 | .8 | 2.3 | 1876 | 3.4 |
| 47/48 | 1.2 | 1.1 | 1.4 | 1.4 | 1.2 | .5 | .1 | .2 | * | * | .2 | .3 | 343 | .6 |
| 45/46 | .3 | .4 | .4 | .5 | .2 | .4 | .0 | * | .0 | * | * | .2 | 109 | .2 |
| 43/44 | .1 | .1 | * | .1 | * | .1 | .0 | .0 | .0 | .0 | .0 | .1 | 22 | * |
| 41/42 | * | .1 | * | .1 | * | .0 | .0 | .0 | .0 | .0 | .0 | .1 | 15 | * |
| 39/40 | * | * | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10 | * |
| 37/38 | .0 | .0 | * | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1 | * |
| 35/36 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 33/34 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 31/32 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 29/30 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| 27/28 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| <27 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | .0 |
| TOTAL | 4367 | 4009 | 4509 | 4580 | 4611 | 5143 | 5112 | 4613 | 4790 | 4686 | 4572 | 3846 | 54838 | 100.0 |
| MEAN | 54.5 | 54.2 | 54.1 | 54.0 | 54.8 | 56.5 | 58.1 | 59.2 | 60.4 | 59.5 | 57.8 | 56.1 | 56.6 | |

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

| MO | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEAN | TOTAL OBS |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 1019 | 1019 | 1020 | 1019 | 1020 | 1019 | 1021 | 1019 | 1020 | 4278 |
| FEB | 1019 | 1019 | 1020 | 1020 | 1019 | 1020 | 1020 | 1020 | 1020 | 4024 |
| MAR | 1019 | 1018 | 1020 | 1018 | 1019 | 1018 | 1021 | 1018 | 1019 | 4283 |
| APR | 1018 | 1017 | 1019 | 1017 | 1018 | 1018 | 1020 | 1018 | 1018 | 4526 |
| MAY | 1018 | 1017 | 1018 | 1017 | 1019 | 1017 | 1019 | 1017 | 1018 | 4561 |
| JUN | 1016 | 1015 | 1016 | 1016 | 1015 | 1015 | 1016 | 1016 | 1016 | 5078 |
| JUL | 1016 | 1015 | 1016 | 1015 | 1016 | 1015 | 1017 | 1016 | 1016 | 4938 |
| AUG | 1016 | 1015 | 1016 | 1015 | 1015 | 1015 | 1017 | 1016 | 1016 | 4355 |
| SEP | 1015 | 1014 | 1015 | 1014 | 1014 | 1015 | 1016 | 1015 | 1015 | 4373 |
| OCT | 1017 | 1016 | 1017 | 1017 | 1017 | 1017 | 1018 | 1017 | 1017 | 4190 |
| NOV | 1018 | 1019 | 1019 | 1019 | 1018 | 1020 | 1019 | 1020 | 1019 | 4239 |
| DEC | 1019 | 1017 | 1020 | 1018 | 1019 | 1018 | 1021 | 1018 | 1019 | 3349 |
| ANN | 1018 | 1017 | 1018 | 1017 | 1017 | 1017 | 1019 | 1018 | 1018 | 52134 |
| OBS | 9708 | 3071 | 10139 | 2949 | 9621 | 3527 | 8756 | 4383 | | |

PERCENTILES

| MO | MIN | 1% | 5% | 25% | 50% | 75% | 95% | 99% | MAX |
|---|---|---|---|---|---|---|---|---|---|
| JAN | 995 | 1002 | 1008 | 1016 | 1021 | 1024 | 1029 | 1032 | 1036 |
| FEB | 991 | 1001 | 1008 | 1016 | 1020 | 1024 | 1029 | 1032 | 1035 |
| MAR | 994 | 1002 | 1009 | 1016 | 1020 | 1023 | 1027 | 1030 | 1036 |
| APR | 999 | 1004 | 1010 | 1015 | 1019 | 1022 | 1026 | 1029 | 1033 |
| MAY | 1000 | 1008 | 1011 | 1015 | 1018 | 1020 | 1024 | 1026 | 1030 |
| JUN | 997 | 1008 | 1011 | 1014 | 1016 | 1018 | 1021 | 1024 | 1030 |
| JUL | 999 | 1008 | 1011 | 1014 | 1016 | 1018 | 1021 | 1023 | 1032 |
| AUG | 1001 | 1007 | 1010 | 1014 | 1016 | 1018 | 1020 | 1022 | 1029 |
| SEP | 1000 | 1007 | 1009 | 1013 | 1015 | 1017 | 1019 | 1021 | 1025 |
| OCT | 999 | 1006 | 1010 | 1015 | 1017 | 1019 | 1023 | 1025 | 1033 |
| NOV | 996 | 1002 | 1010 | 1016 | 1019 | 1022 | 1026 | 1029 | 1034 |
| DEC | 995 | 1002 | 1009 | 1016 | 1020 | 1023 | 1028 | 1032 | 1037 |