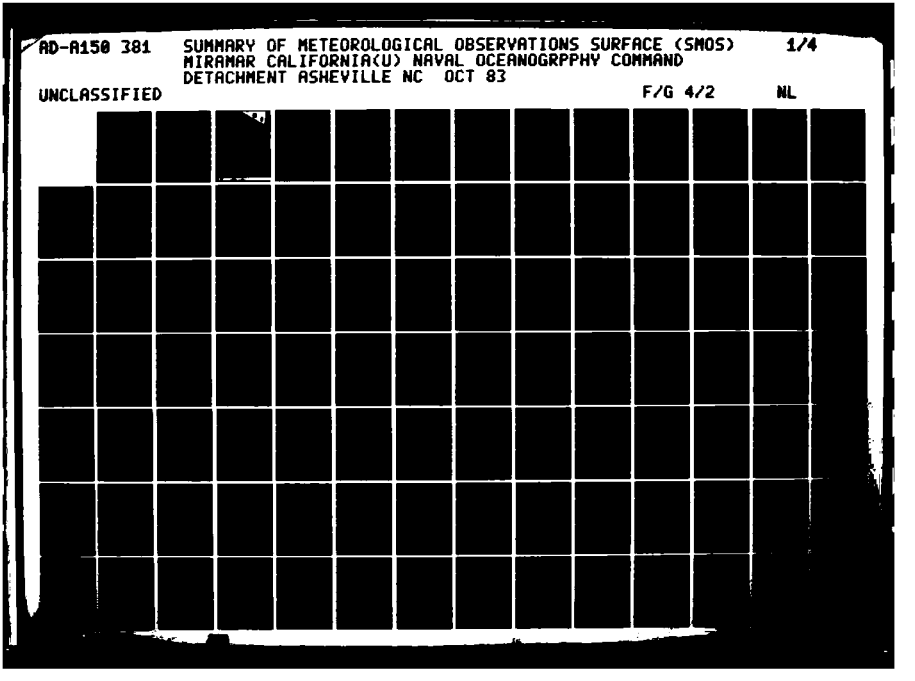
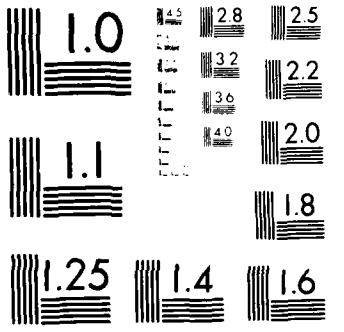
AD-A150 381 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 1/4
MIRAMAR CALIFORNIA(U) NAVAL OCEANOGRPPHY COMMAND
DETACHMENT ASHEVILLE NC OCT 83

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MICROCOPY RESOLUTION TEST CHART
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SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE

STATION: #93107 Miramar, CA

PERIOD: July 1947 - December 1982

JOB NO. 72006 DATE October 1983

PREPARED BY
NAVAL OCEANOGRAPHY
COMMAND DETACHMENT,
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

PREPARED FOR
COMMANDER,
NAVAL OCEANOGRAPHY
COMMAND
NSTL MS 39529

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19 KEY WORDS (Continue on reverse side if necessary and identify by block number)

Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover

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

This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure

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STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
93107	Miramar, California	32°52'N	117°09'W	477	KNKX	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1.	Weather Service Office	Navy	1949	1953	32°52'N	117°08'W	473	Mercurial	
2.	Moved to new office in Ops Bldg	"	1953	1957	"	"	463	"	
3.	Resurveyed	"	1957	1968	"	"	459	"	24
4.	New barometer ML-512/GM	"	1968	1977	"	"	459	"	"
5.	Weather Service Office	"	1974	1976	"	"	466	Aneroid	"
6.	" " "	"	1977	1977	"	"	463	"	"
6a.	" " "	"	1977		"	117°09'W	"	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Roof of tower	Aerovane		47'	1. Barograph
1a.	1949	Atop hanger roof on 18' mast, 250' from weather office	Selsyn	Double	50'	2. Auto met Station (AN/GMQ-29)
2.	1953	New transmitter installed	"	"	"	3. Ceiling light (ML-121)
2a.	1953	Roof, of operations tower	"	"	47'	4. Cloud height set (AN/GMQ-13D)
3.	1954	1000, north of Ops Bldg (installed)	"	"	18'	5. Transmissometer (AN/GMQ-10) 2ea
4.	1957	1000, north of Ops Bldg	UMQ-5C	RD-108	22'	6. RWY temperature SPEEDOMAX H-4
5.	1960	2700 southwest of weather office	"	"	"	7. Thermoscreen
6.	1968	Atop, of control tower	"	"	65'	
7.	1970	2700 southwest of weather office	UMQ-5	RO-447	20'	
7a.	1978	" " "	AN/UMQ-5C	GMQ-29	12'	

CONTINUED ON REVERSE SIDE

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Asheville, N. C.

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

NOCD, Federal Building
Asheville, N. C.

PART A WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

a. By month and annual, all hours and years combined.

b. By month and annual, all hours and years combined, by wind direction.

c. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

3

WEATHER CONDITIONS

STATION [illegible] STATION NAME [illegible] YEARS ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FOR DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
[illegible]	[illegible]	.5	21.2		.2	.8	30.8	7.7	10.1			3.6	592
		1.7	7.6			1.2	24.1	12.2	35.4		.1	44.5	701
		1.7	12.9			1.2	31.5	7.3	34.4		.1	42.7	693
		.5	14.4		.2	.4	29.1	29.3	35.3			41.2	673
[illegible]		.2	25.2			.1	27.6	12.3	47.4		1.4	53.9	641
J		.4	21.1				21.4	44.3	43.3			46.7	570
J L		1.3	7.2				7.2	21.2	76.8		2.5	14.7	1017
		1.1	7.2				7.2	41.5	71.1		3.4	76.3	1117
		1.4	13.1				13.2	45.4	44.2			54.7	995
		1.7	16.7			.1	19.4	42.3	55.4		2.2	61.7	1706
[illegible]		1.1	21.7			.2	21.4	7.4	47.4		.2	47.4	793
		.6	25.4		.2	.2	24.1	7.4	34.4	.1		41.4	1122
TOTALS		1.3	14.4		.1	.4	21.4	30.4	45.4	.1	.2	50.7	11744

WEATHER CONDITIONS

STATION STATION NAME YEARS MONTH

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
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WEATHER CONDITIONS

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TOTALS													

3

WEATHER CONDITIONS

YEARS

MONTH

MONTH	HOURS L S T	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
TOTALS													

3

WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

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WEATHER CONDITIONS

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TOTALS													

WEATHER CONDITIONS

STATION STATION NAME YEARS MONTH

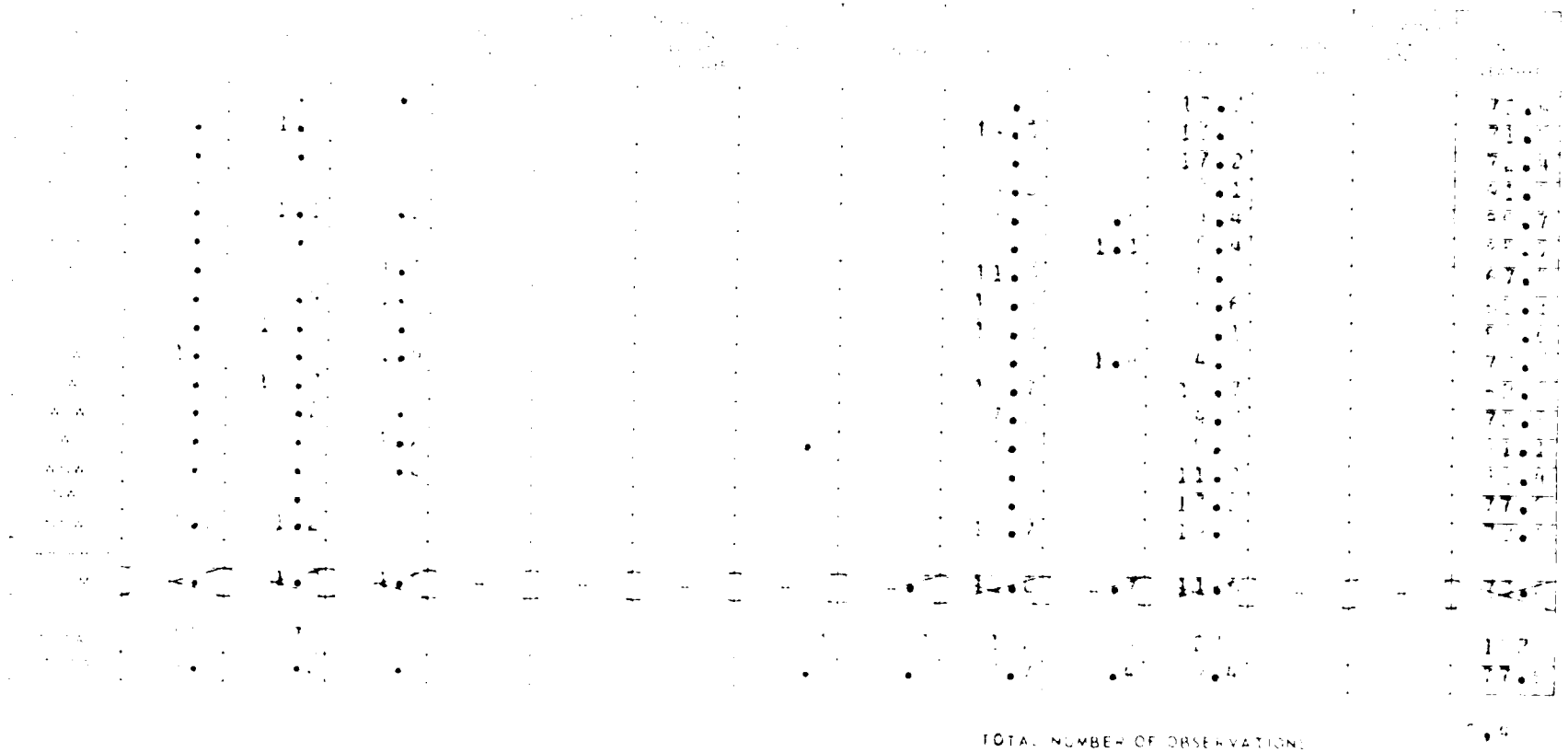
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WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

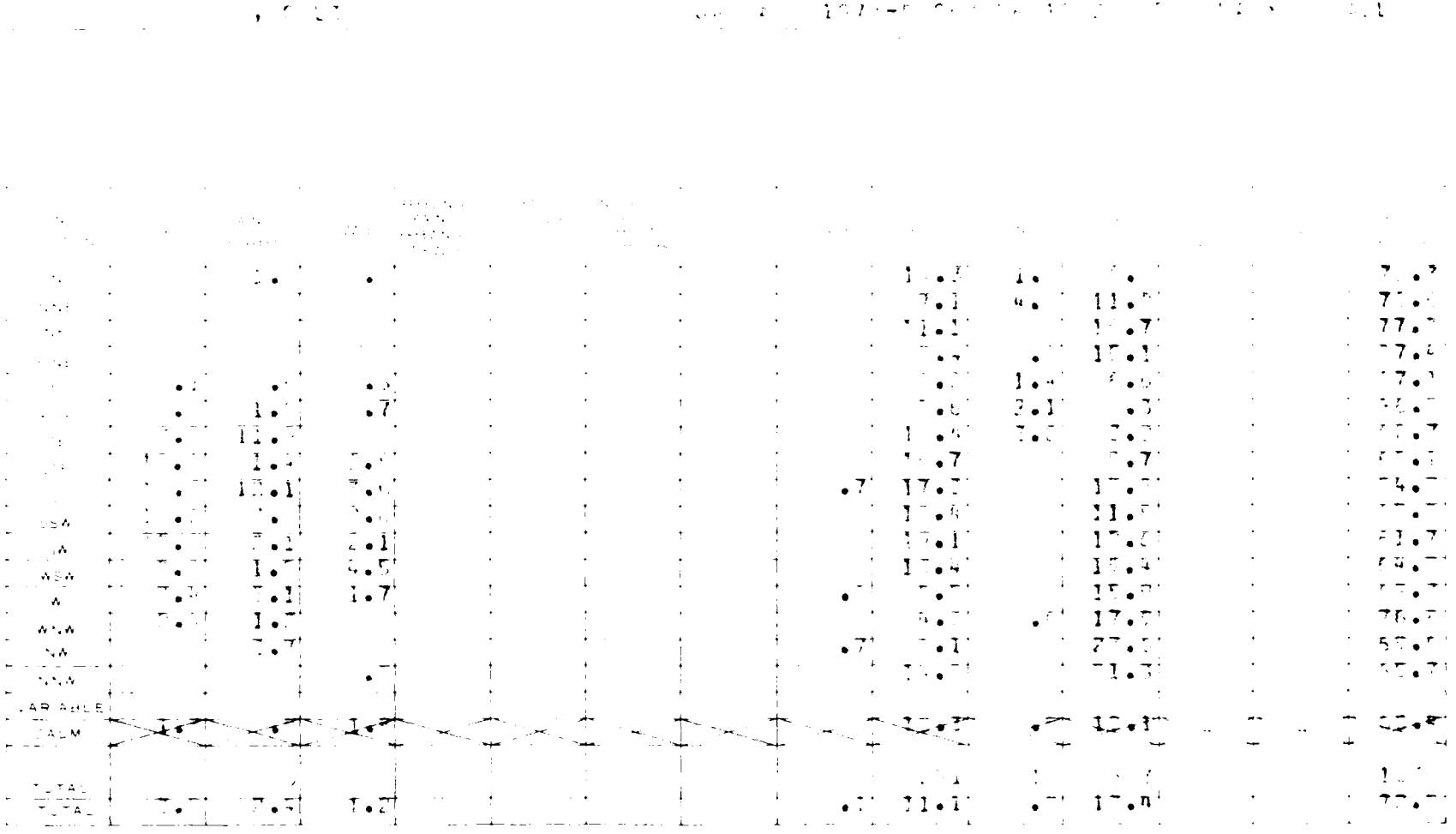
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TOTALS													

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS



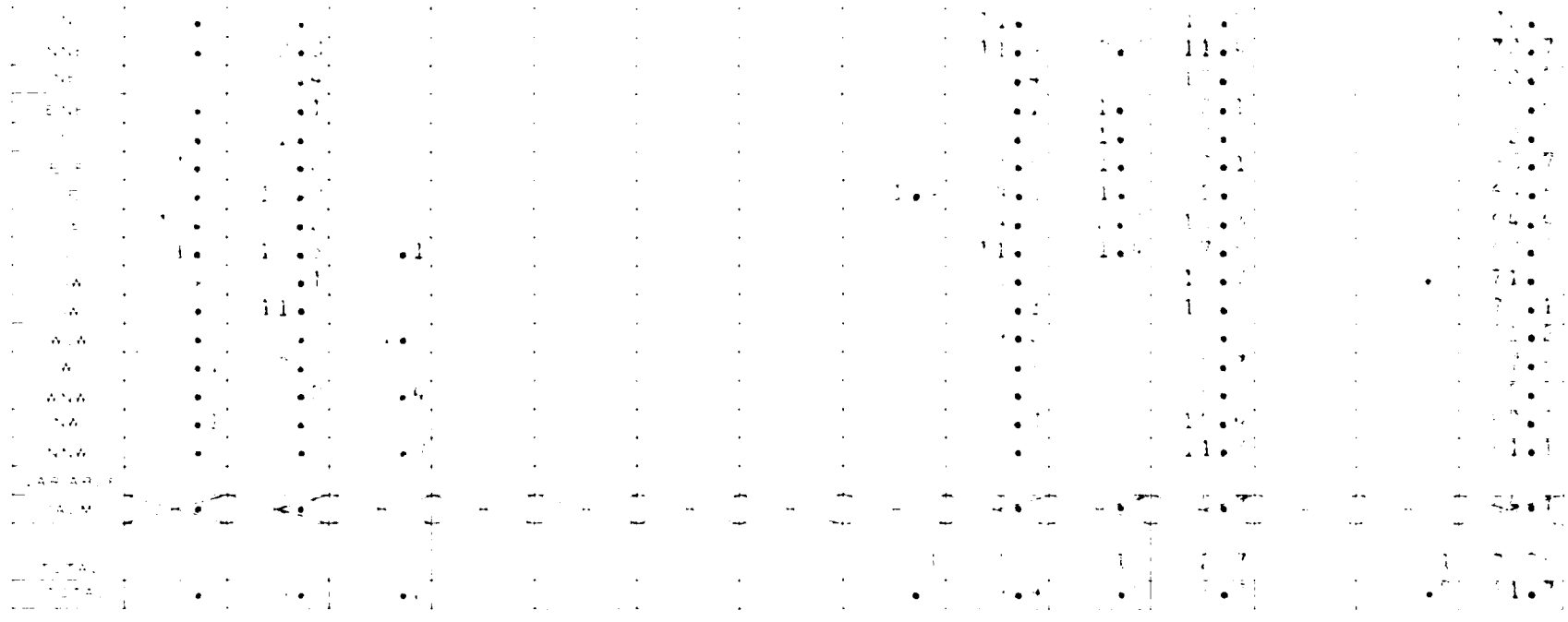
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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS



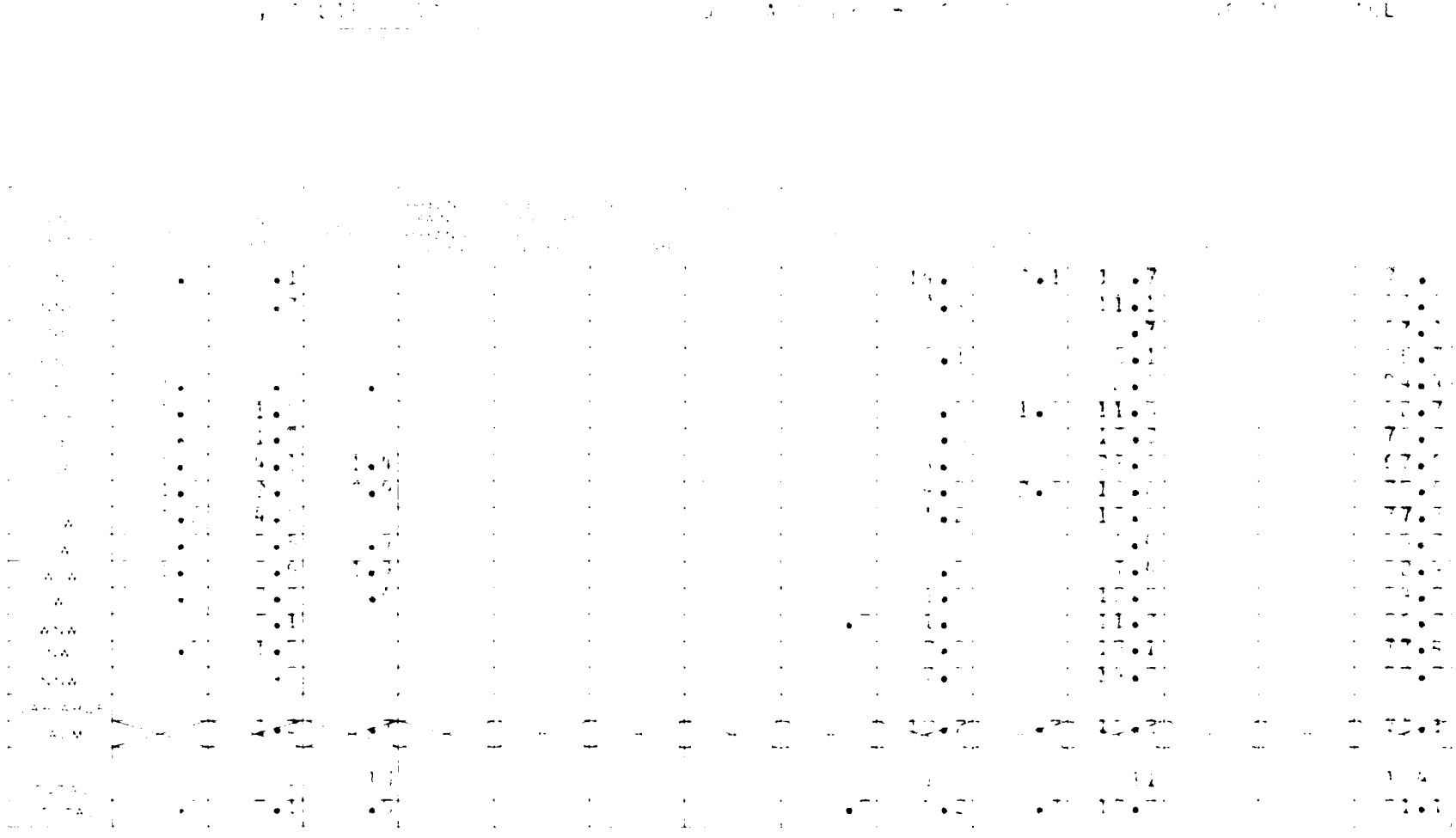
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PERCENTAGE FREQUENCY OF WIND DIRECTION
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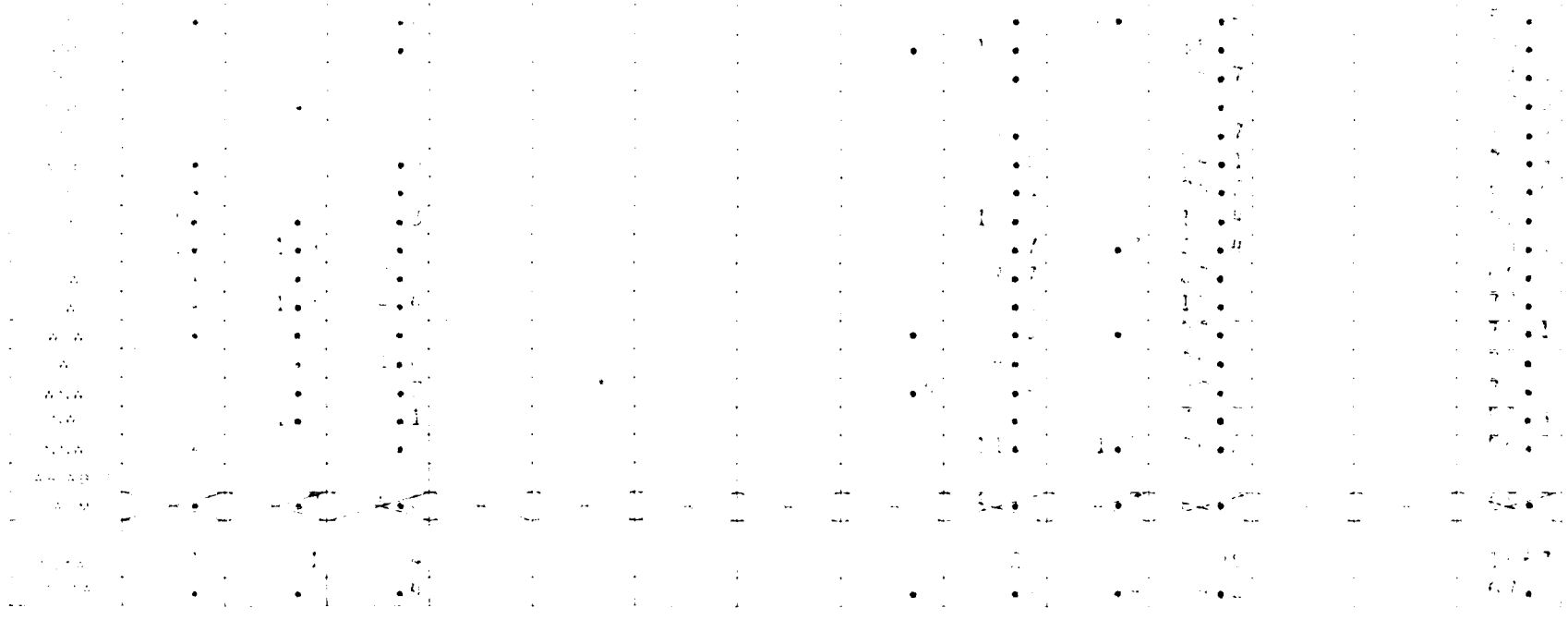
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PERCENTAGE FREQUENCY OF WIND DIRECTION
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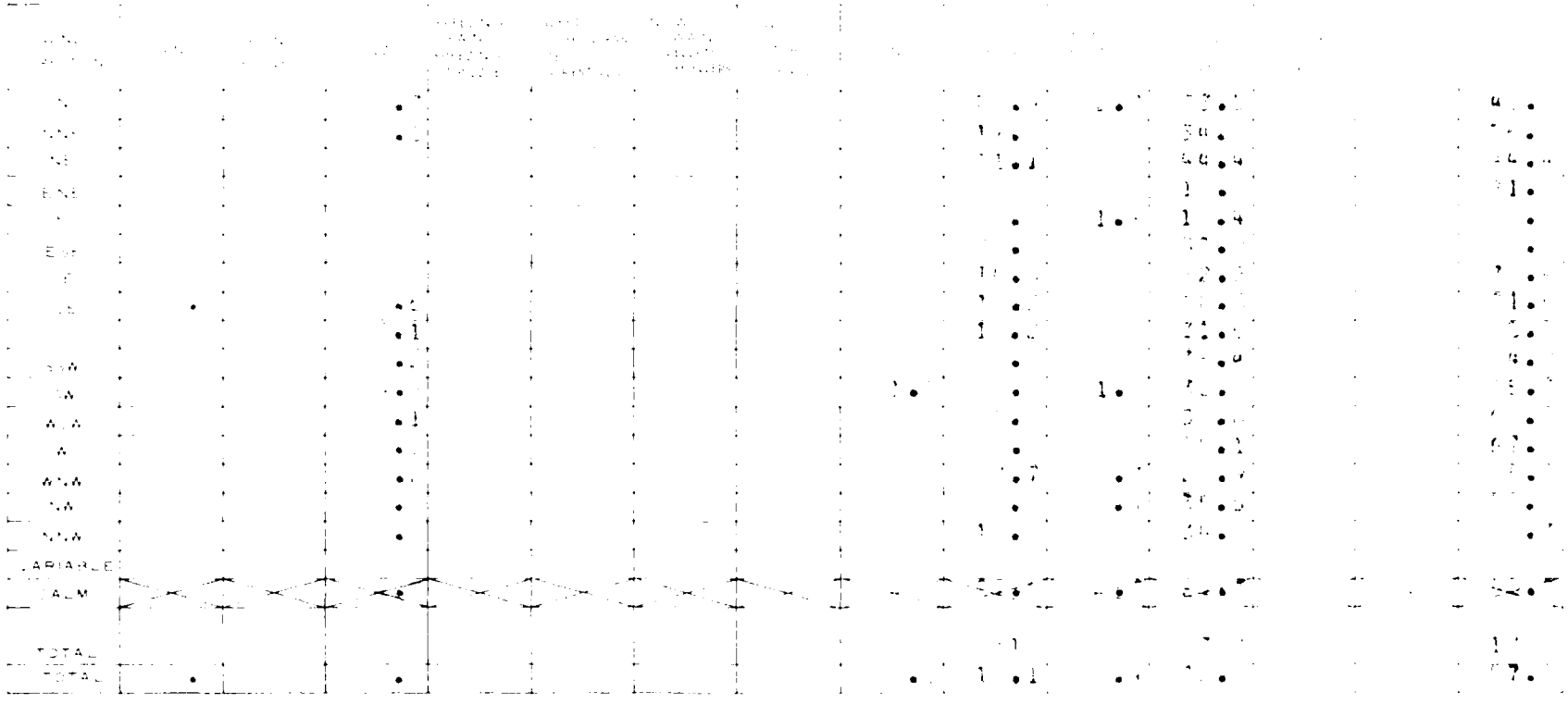
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VS WEATHER CONDITION

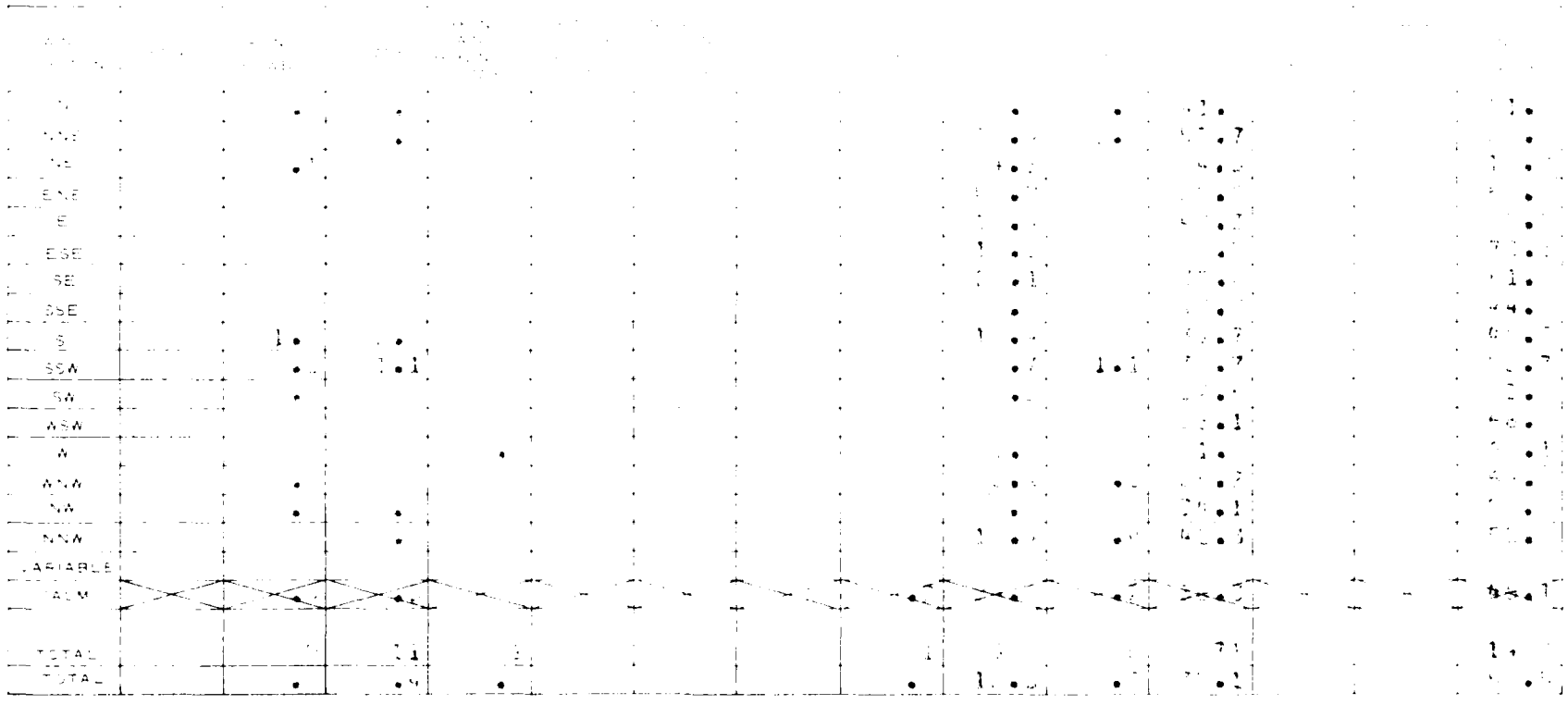


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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

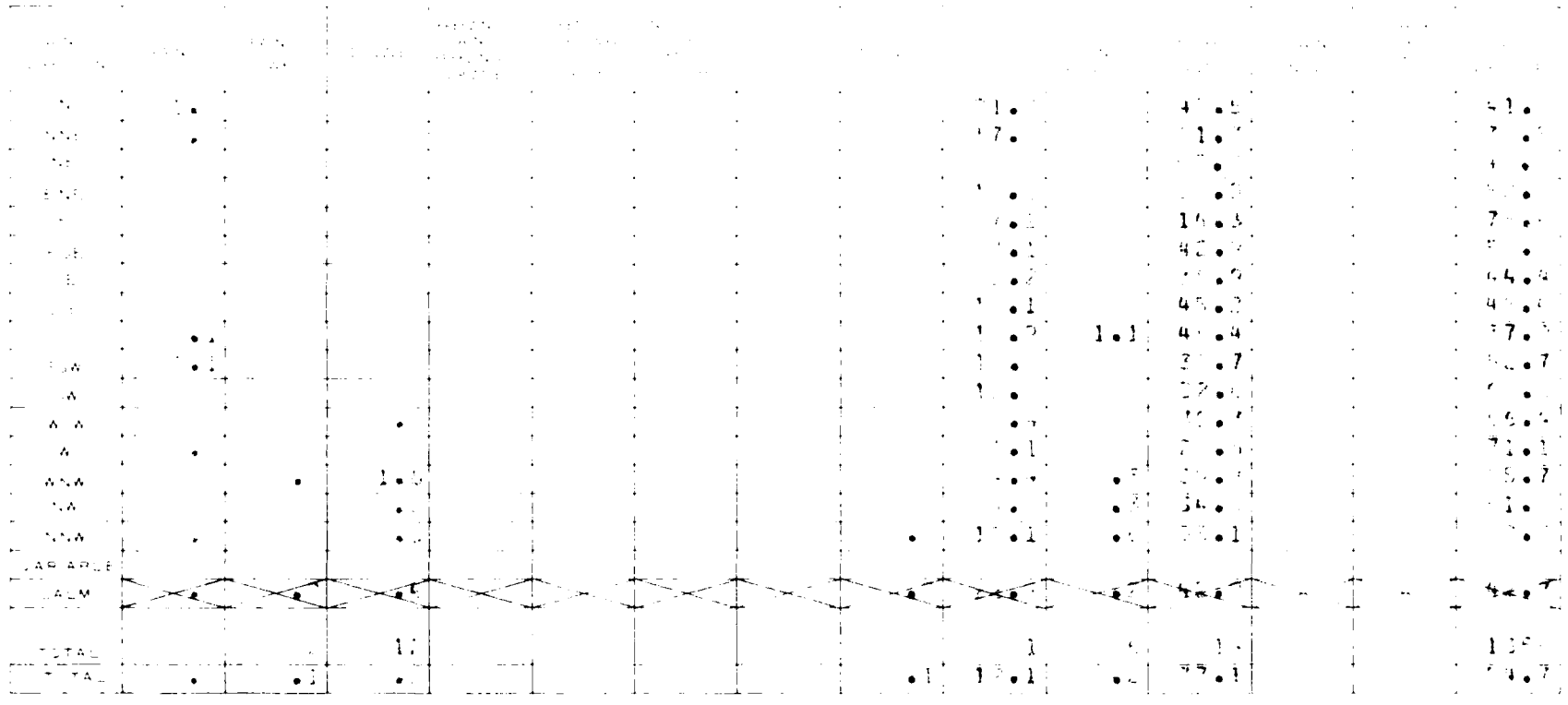


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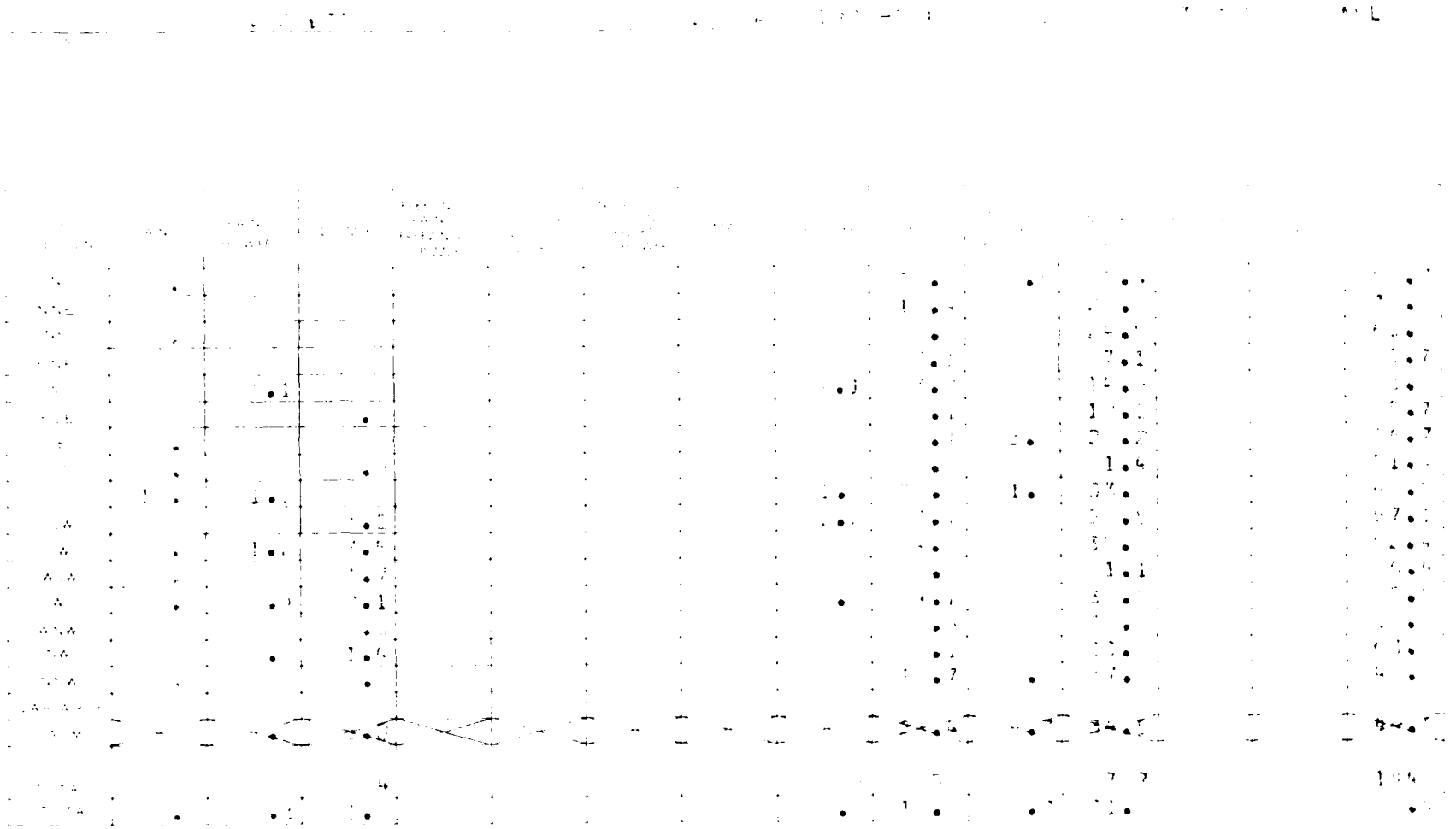
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PERCENTAGE FREQUENCY OF WIND DIRECTION
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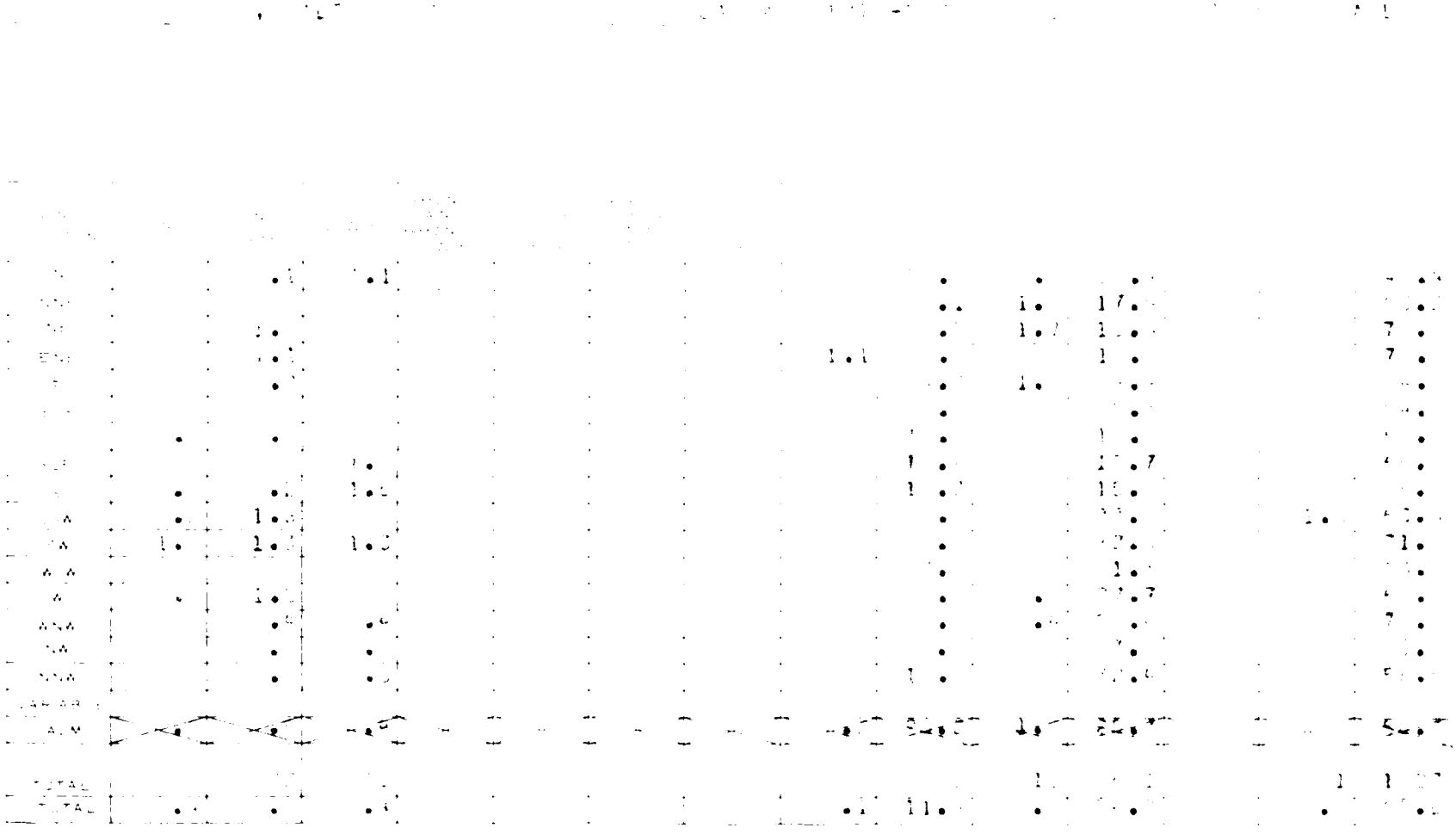
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VS. WEATHER CONDITIONS



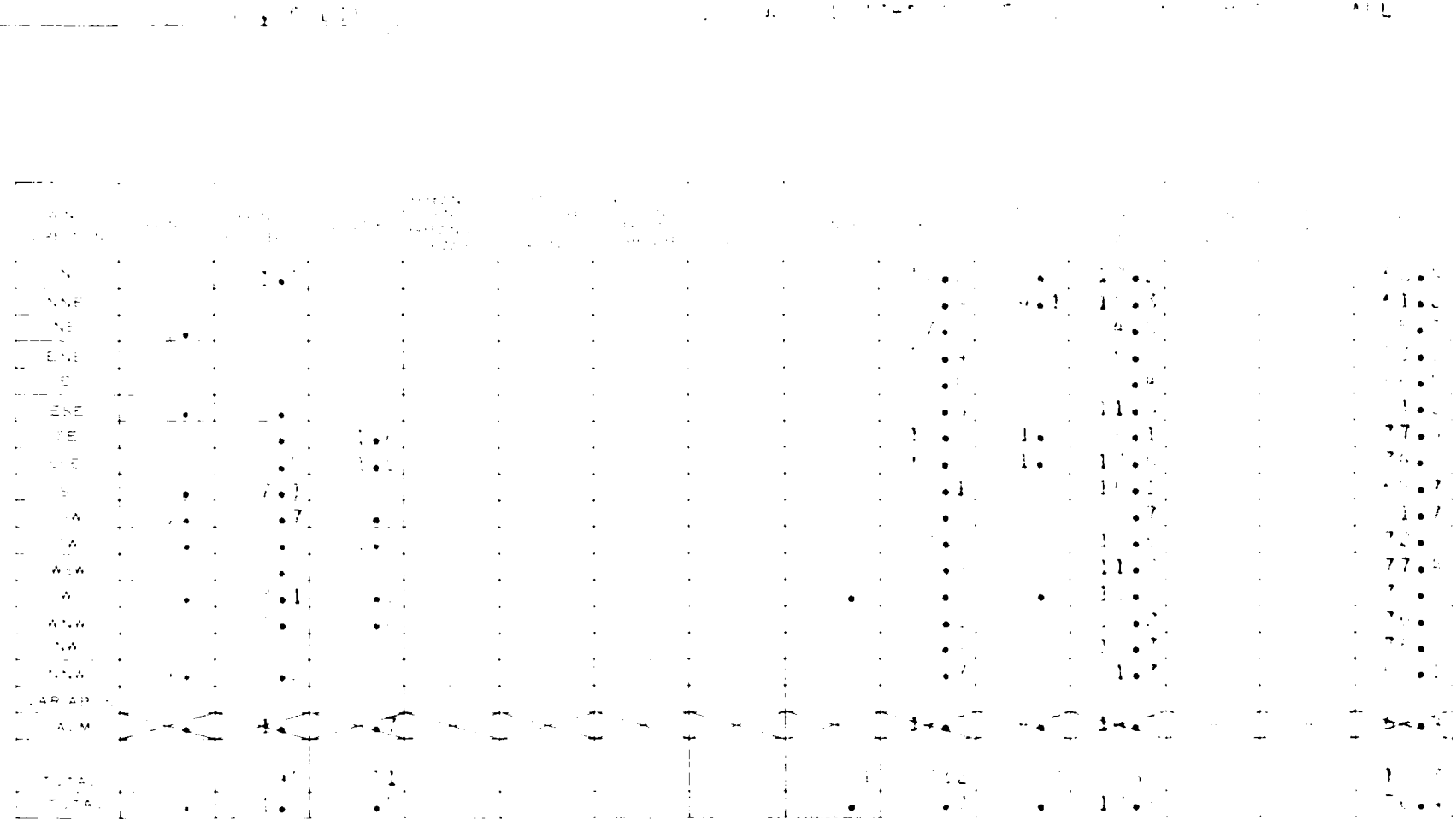
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PERCENTAGE FREQUENCY OF [illegible]
VS. WEATHER CONDITION



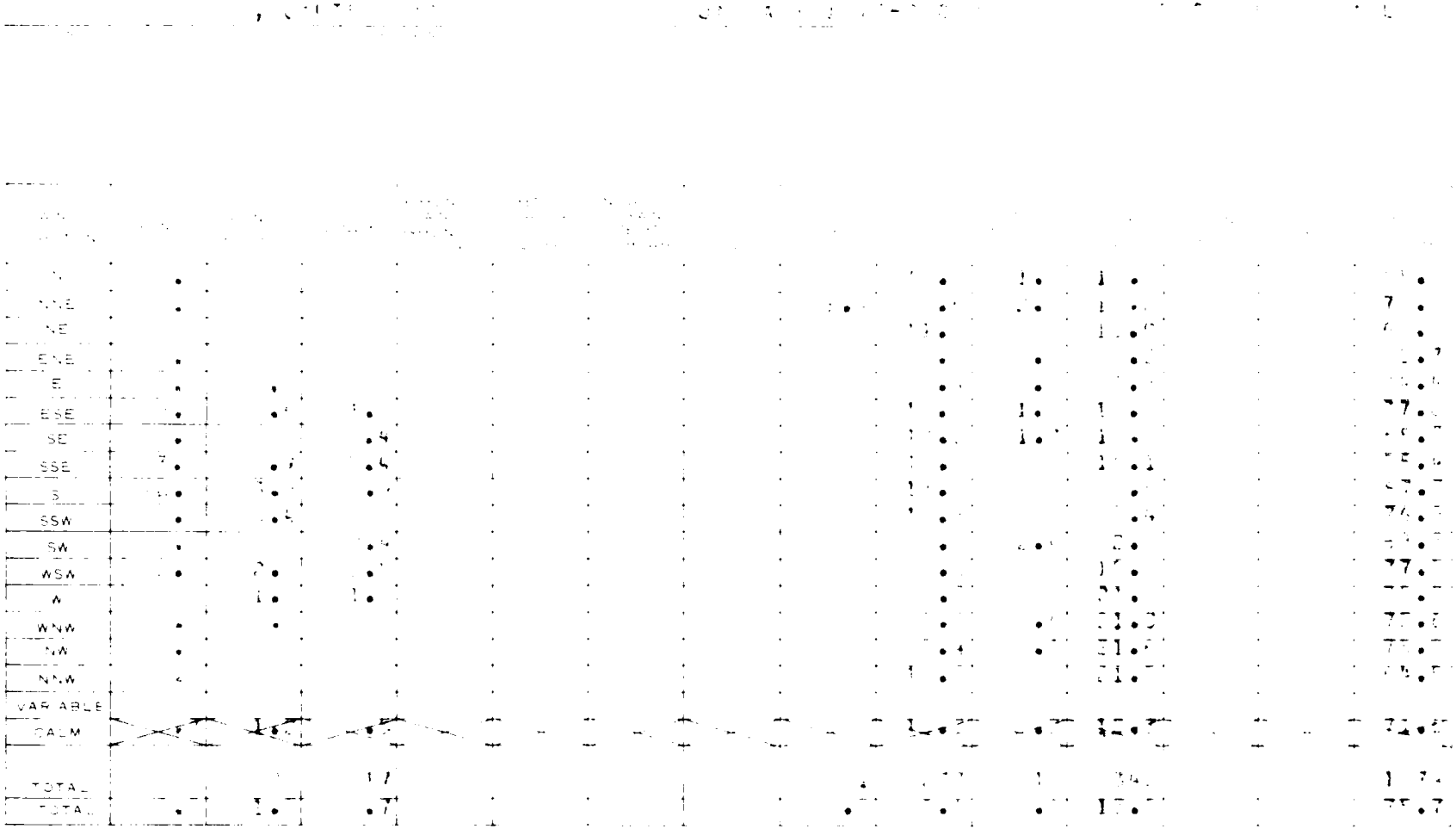
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PERCENTAGE FREQUENCY OF WIND DIRECTION
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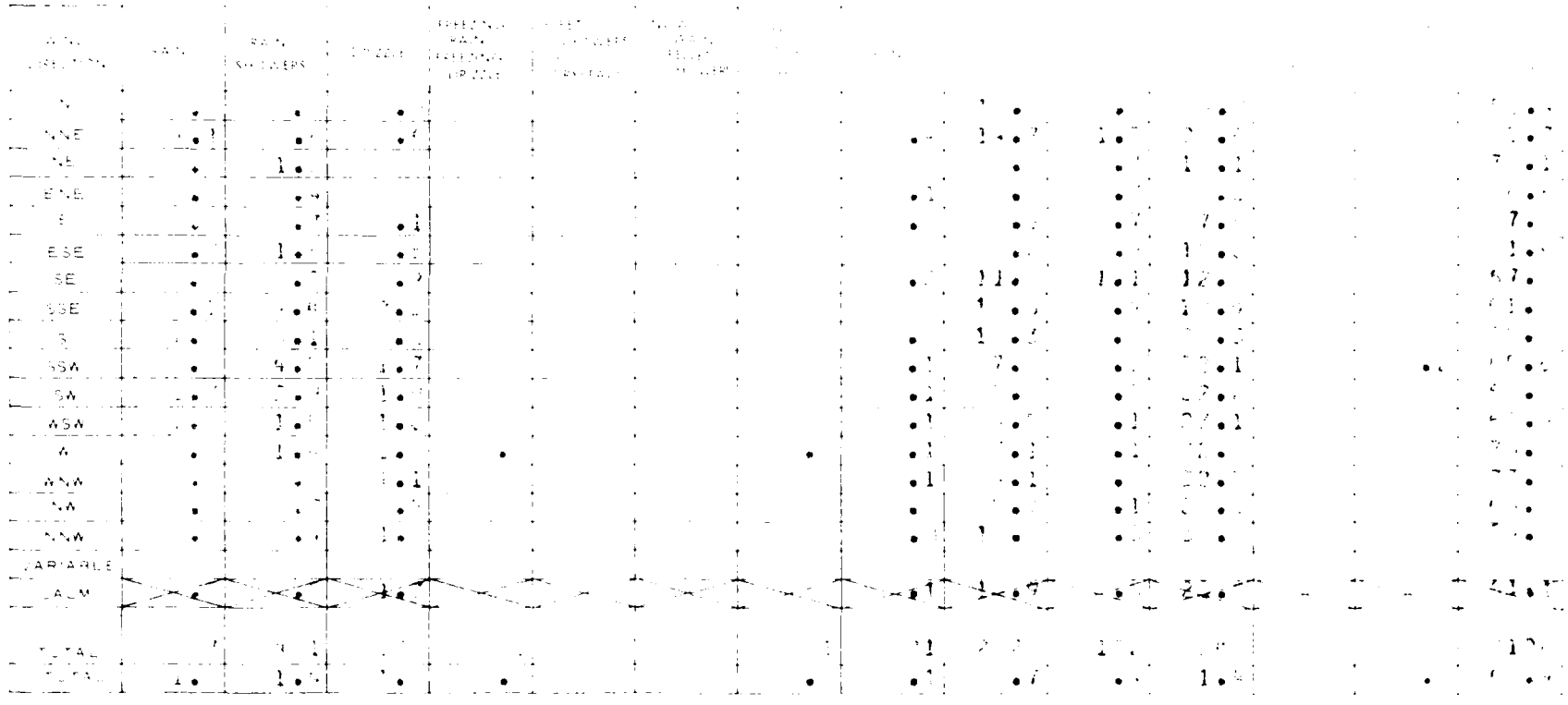
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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

B

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.

2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION STATION NAME YEARS

	AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	0	0.2 .05	0.6 .10	.11 .25	.26 .50	.51 1.00	1.01 2.50	2.5 5.00	5.01 10.00	10.01 20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1 0.4	0.5 1.4	1.5 2.4	2.5 3.4	3.5 4.4	4.5 6.4	6.5 10.4	10.5 15.4	15.5 25.4	25.5 50.4	OVER 50.4							
SNOW DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120							
JAN																				
FEB																				
MAR																				
APR																				
MAY																				
JUN																				
JUL																				
AUG																				
SEP																				
OCT																				
NOV																				
DEC																				
ANNUAL																				

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION STATION NAME YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS INCHES		
PRECIP	NONE	TRACE	.01 .04	.05 .14	.15 .24	.25 .34	.35 .44	.45 .64	.65 .94	.95 1.24	1.25 1.74	1.75 2.74	2.75 3.74	OVER 3.74			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	.1 .4	.5 1.4	1.5 2.4	2.5 3.4	3.5 4.4	4.5 6.4	6.5 9.4	9.5 12.4	12.5 17.4	17.5 25.4	25.5 37.4	OVER 37.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 72	OVER 72						
JAN																			
FEB																			
MAR																			
APR																			
MAY																			
JUN																			
JUL																			
AUG																			
SEP																			
OCT																			
NOV																			
DEC																			
ANNUAL																			

NAVWEASERVCOM

DAILY AMOUNTS

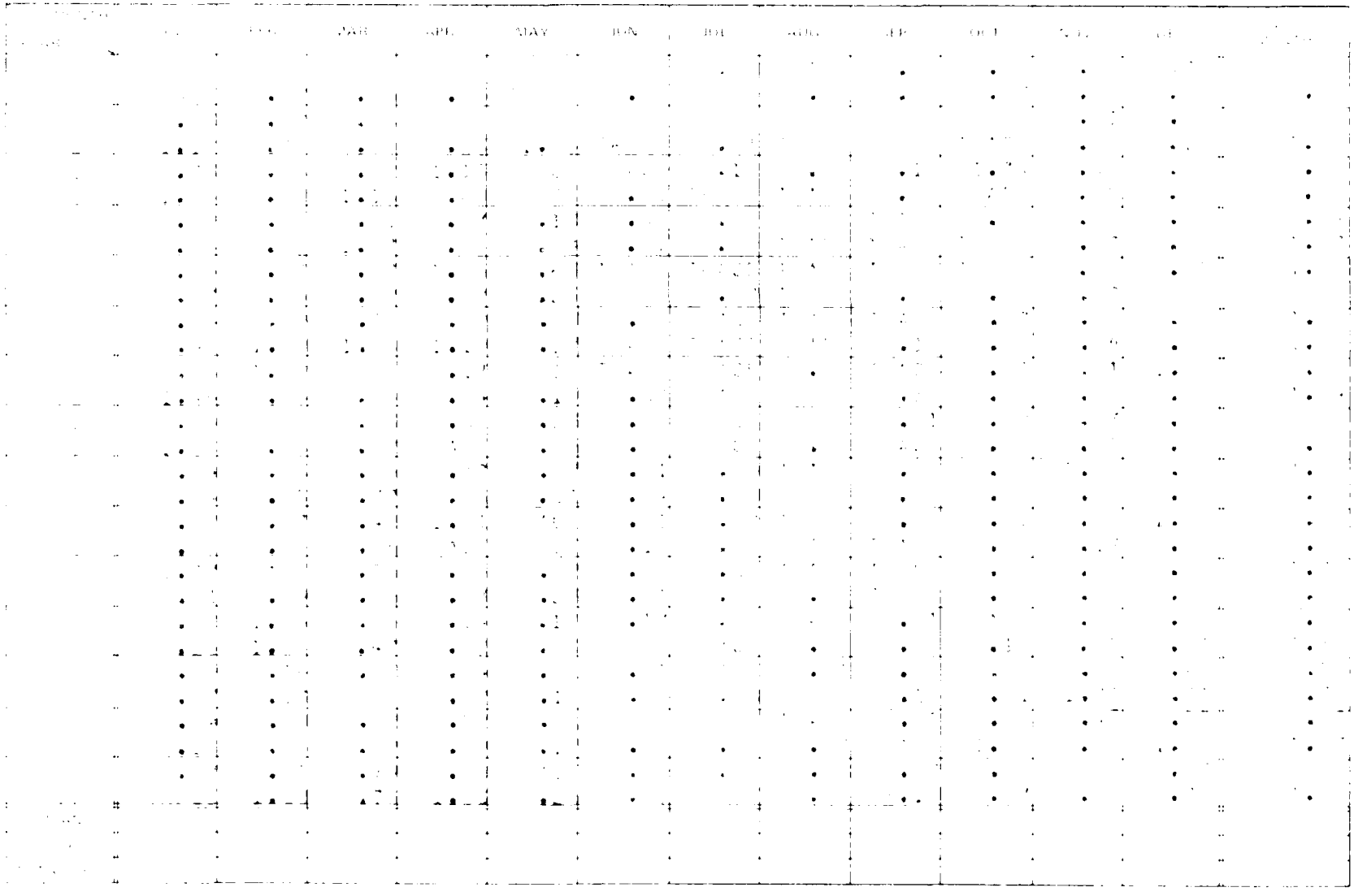
PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

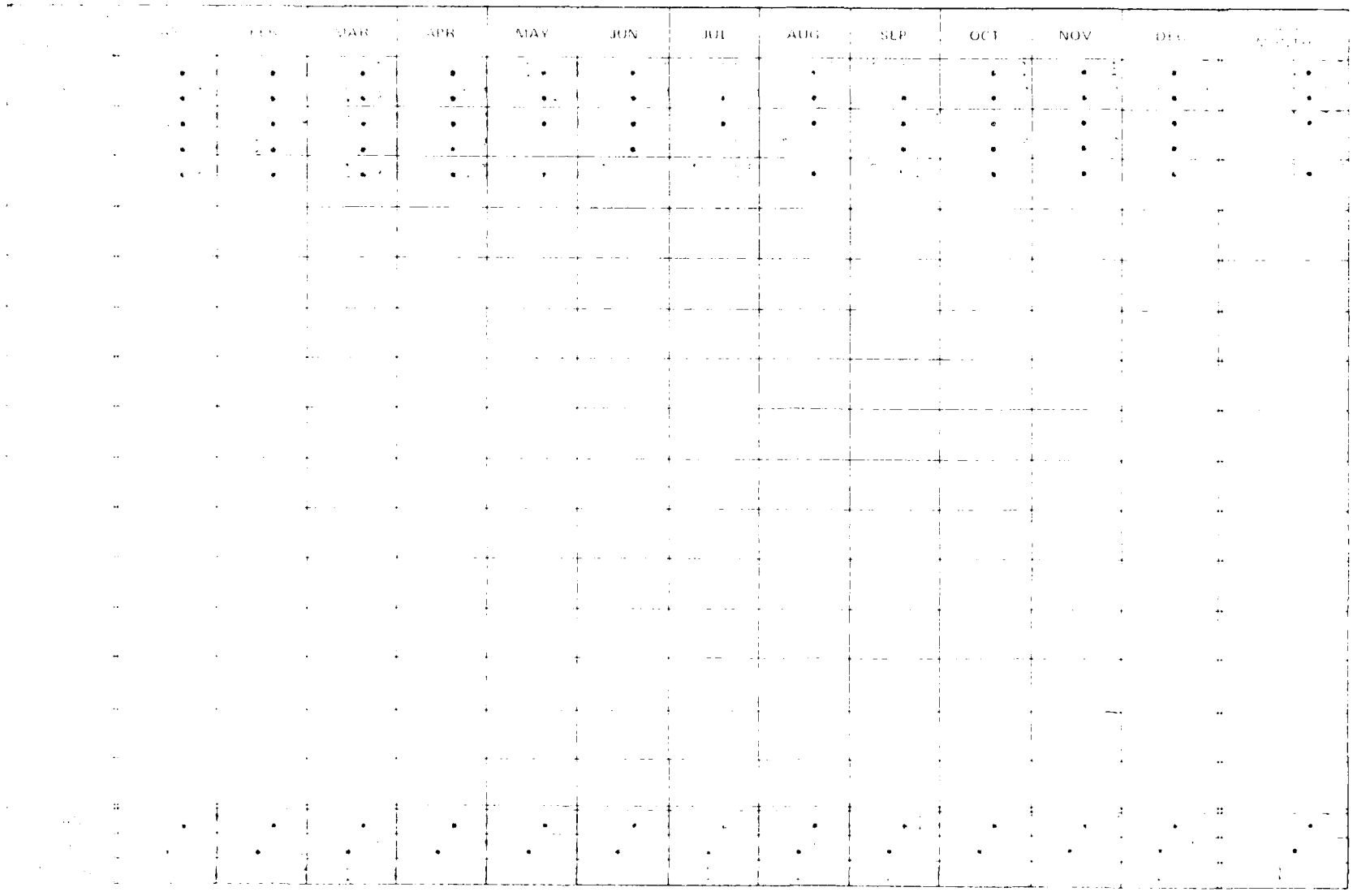
STATION STATION NAME YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 1 00	01 2 50	2 5 5 00	5 01 10 00	10 01 20 00	OVER 20 00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0 1 0 4	0 5 1 4	1 5 2 4	2 5 3 4	3 5 4 4	4 5 6 4	6 5 10 4	10 5 15 4	15 5 25 4	25 5 50 4	OVER 50 4					
SNOW DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120					
JAN																		
FEB																		
MAR																		
APR																		
MAY																		
JUN																		
JUL																		
AUG																		
SEP																		
OCT																		
NOV																		
DEC																		
ANNUAL																		

EXTREME VALUES



EXTREME VALUES



WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION NAME

YEARS

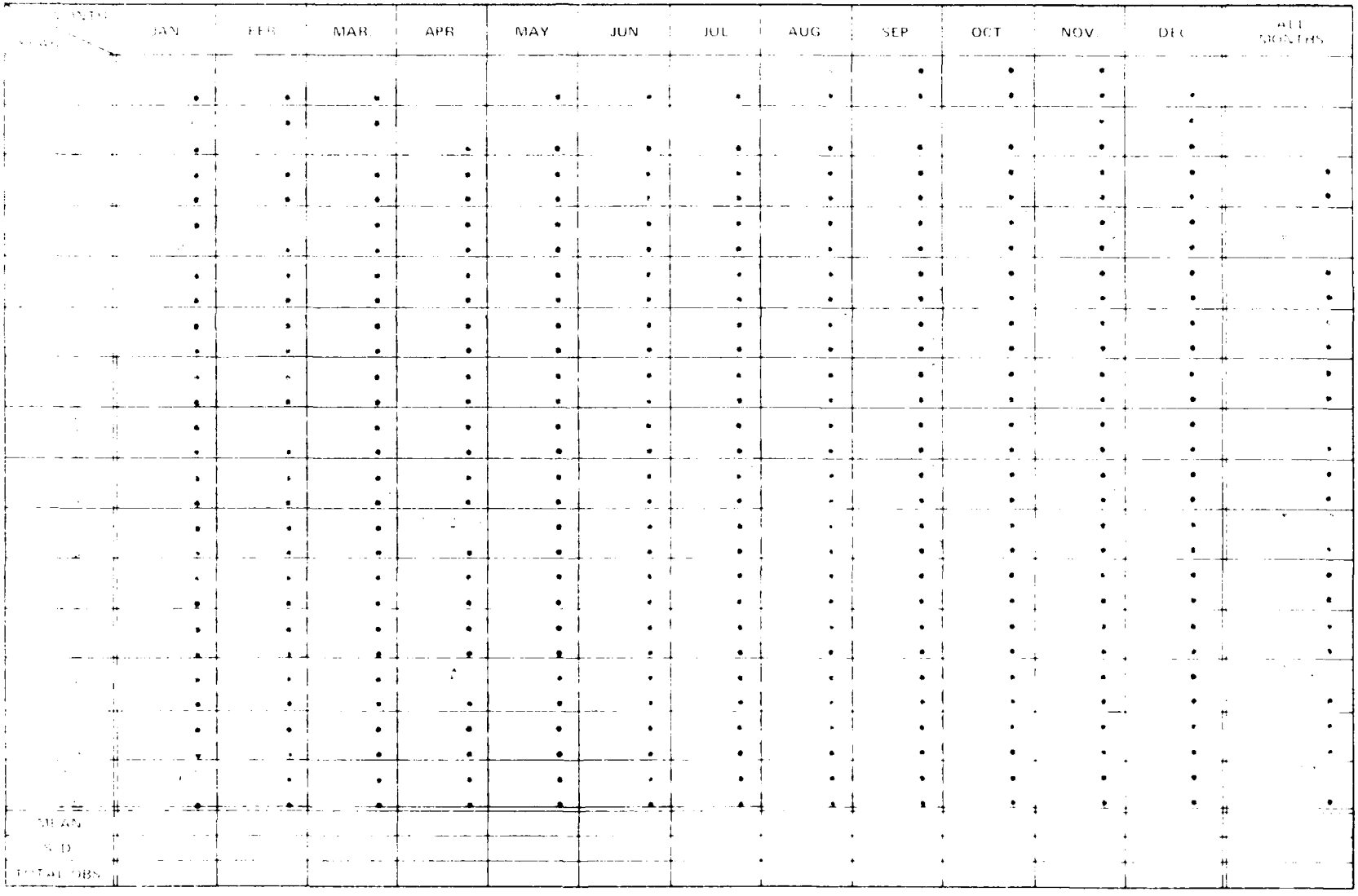
MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

[illegible] WEATHER SERVICE DETACHMENT
[illegible] VILLE, NORTH CAROLINA

EXTREME VALUES

STATION NAME _____ YEARS _____



5305

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION _____ STATION NAME _____ YEARS _____

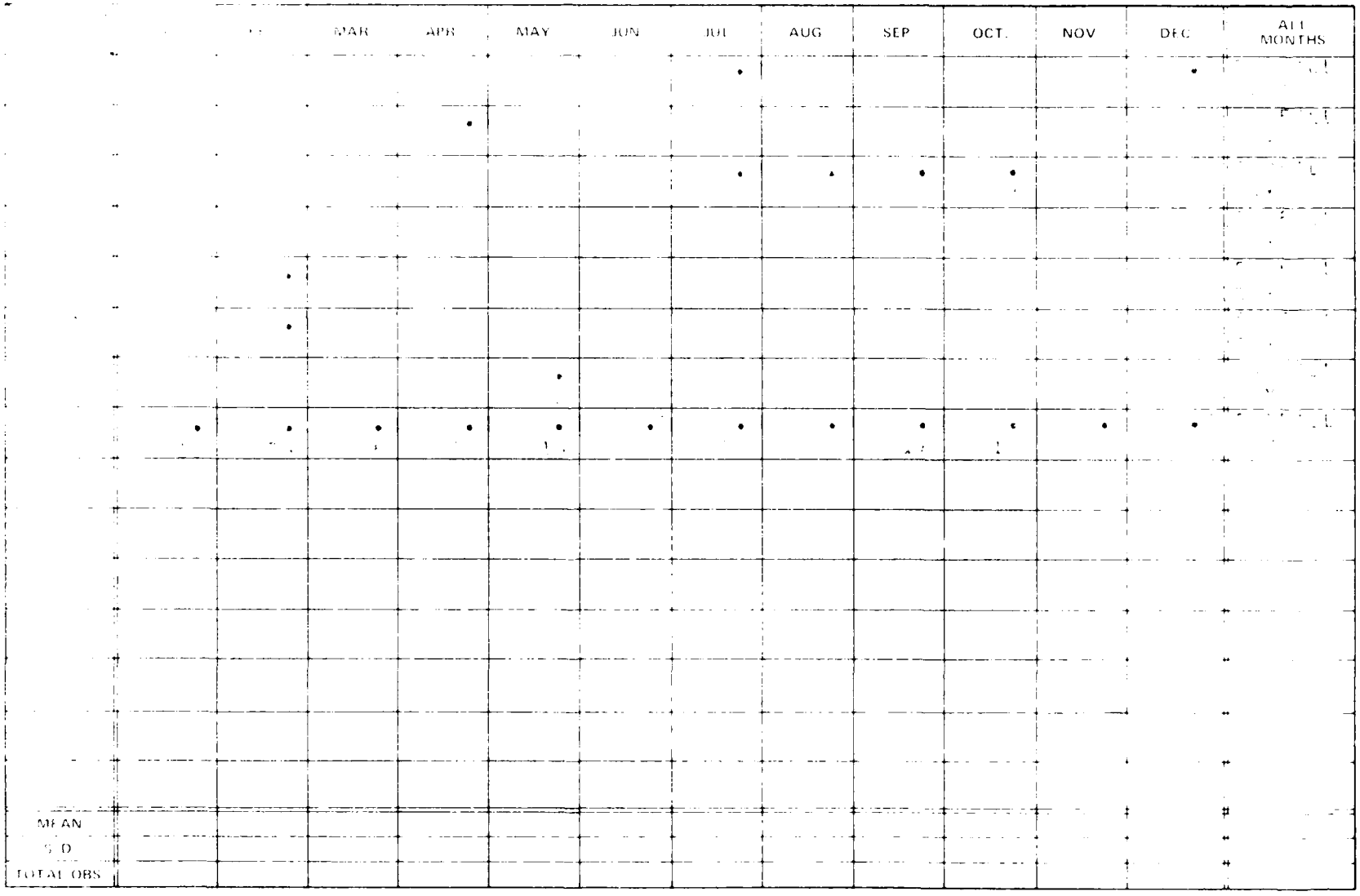
MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
[illegible] NORTH CAROLINA

EXTREME VALUES

STATION NAME _____ YEARS _____



GMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROST DATES (OBSERVED)

STATION NAME _____ YEARS _____

MONTH / YEAR	JAN	FEB	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION _____ STATION NAME _____ YEARS _____

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

AIR WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION ____ STATION NAME ____ YEARS ____

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

DAILY EXTREME AMOUNTS

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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23						
24						
25						
26						
27						
28						
29						
30						
31						

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

				SNOWFALL GREATEST		
				INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

* ALSO ON EARLIER YEARS
T TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

NAVAL OCEANOGRAPHY SERVICE DETACHMENT
[illegible] SOUTH CAROLINA

DAILY EXTREME AMOUNTS

STATION NAME _____ YEARS _____

MONTH _____ MONTH _____

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

* ALSO ON EARLIER YEARS
T TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

3

DAILY EXTREME AMOUNTS

YEARS

MONTH

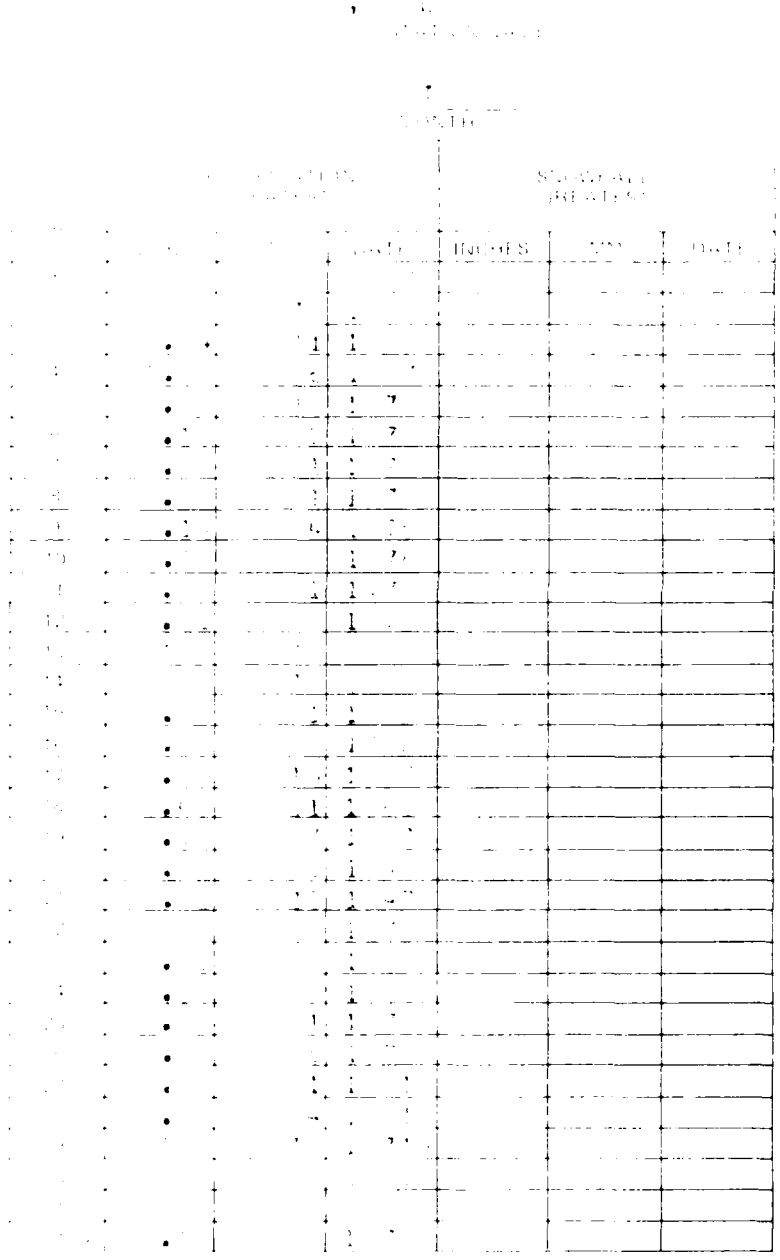
DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
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16						
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26						
27						
28						
29						
30						
31						
Monthly						

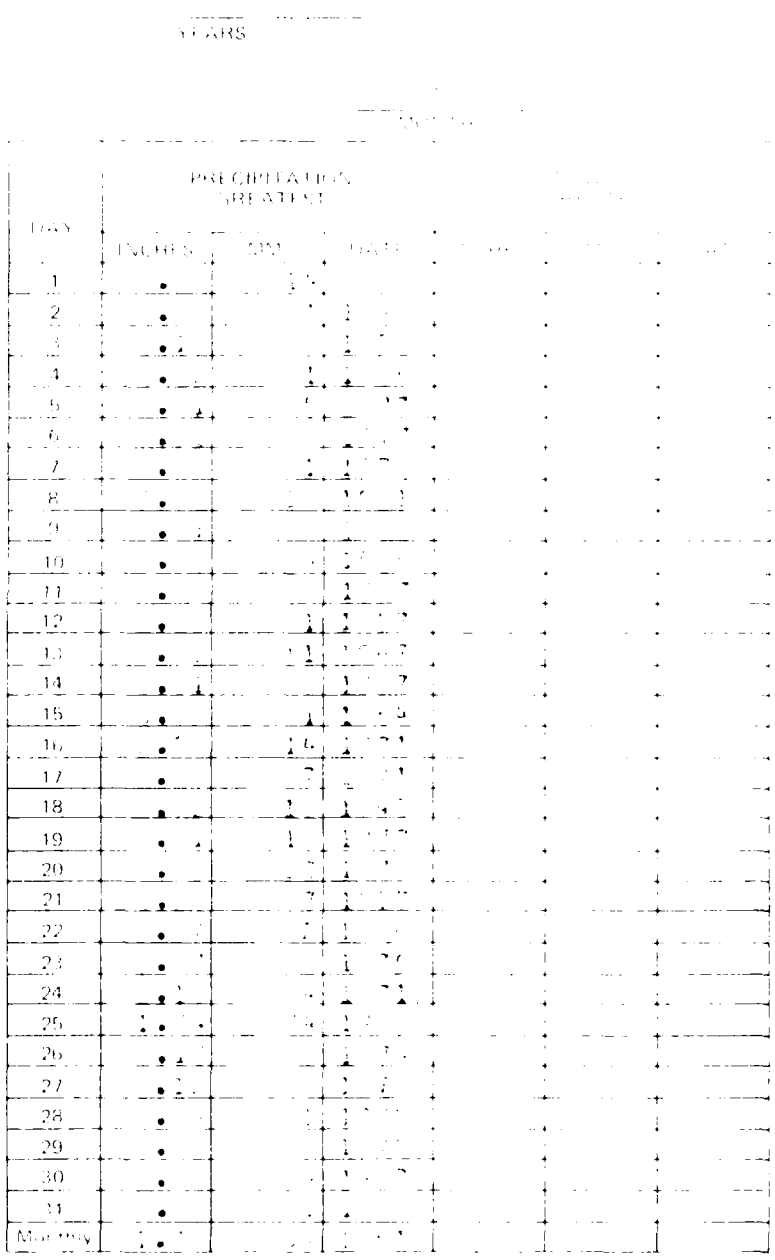
* ALSO ON EARLIER YEARS

T - TRACE - AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS



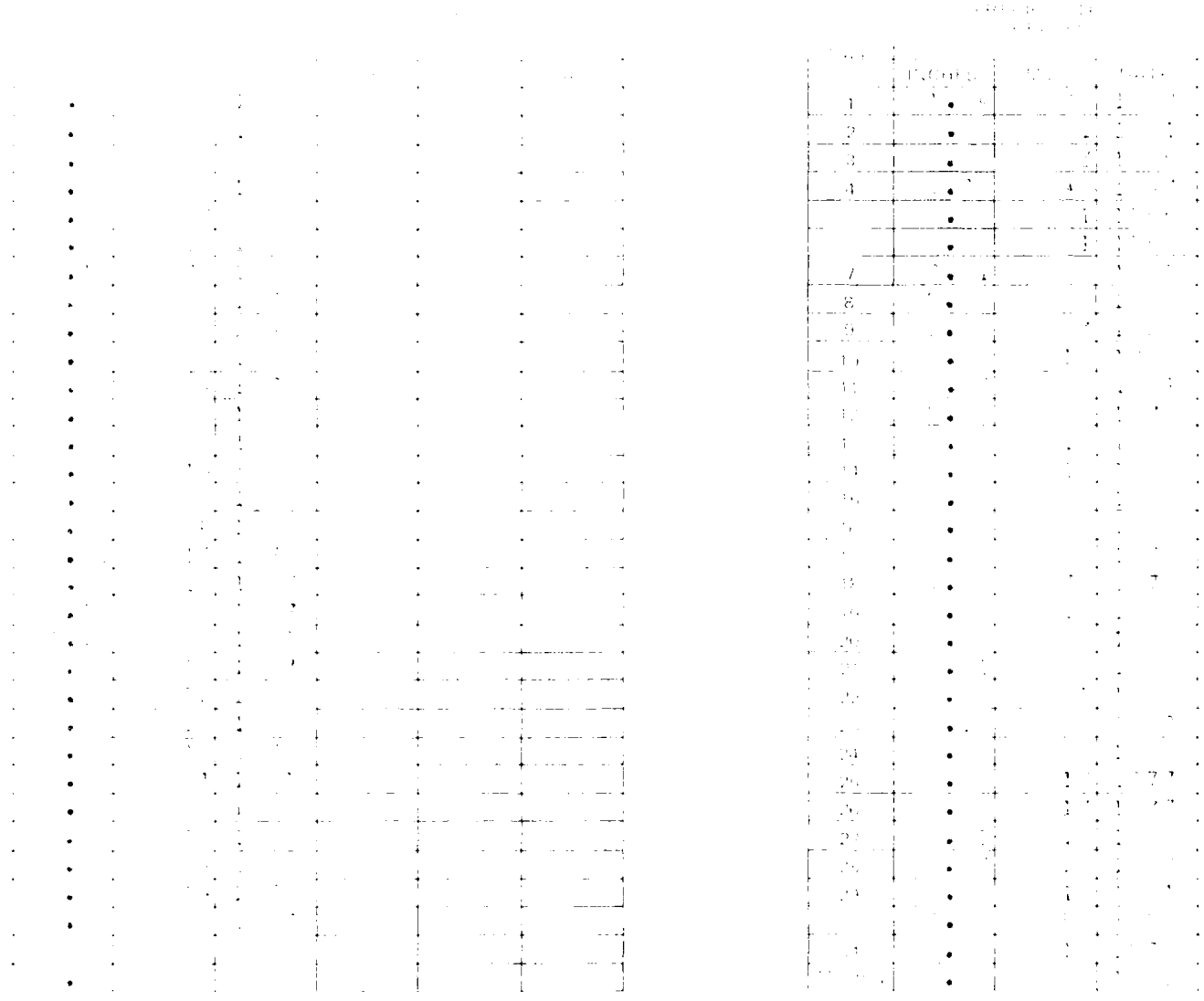


* ALSO ON EARLIER YEARS

T — TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS



PART C SURFACE WINDS

[illegible]

a. Hourly Values - Given by hour of observation and prevailing wind direction, individual [illegible] are available. Speeds are presented in knots, while directions are given in [illegible] the remaining 16 points of the compass, and in terms of degrees. Certain [illegible] of these values is the observation of peak gust wind data are available for a month, the extreme [illegible]. The values are then used to compute mean and standard deviations for the entire [illegible] 5 years or at least valid observations are available before the ALL MONTHS value is given. [illegible]. Mean and standard deviations are computed when four or more values are present for any [illegible] a separate listing of peak gusts by year-month with 70% observation reported is also provided.

N.B. [illegible] Circular N specifications, peak gust data are recorded only at stations with continuous [illegible] wind-speed recorders.

b. Hourly percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of [illegible] classifications. Percentages are shown by both direction and speed, and in addition the mean wind [illegible] direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In [illegible] data source light and variable winds are reported with no directions but with speeds given, the speeds [illegible] summarized in the appropriate groups opposite the column headed VARBL.

c. Three tables are prepared for all surface winds included, and for all years combined as follows:

(1) Annual - all hours combined

(2) By month - all hours combined

(3) By hour - by standard 3-hour groups

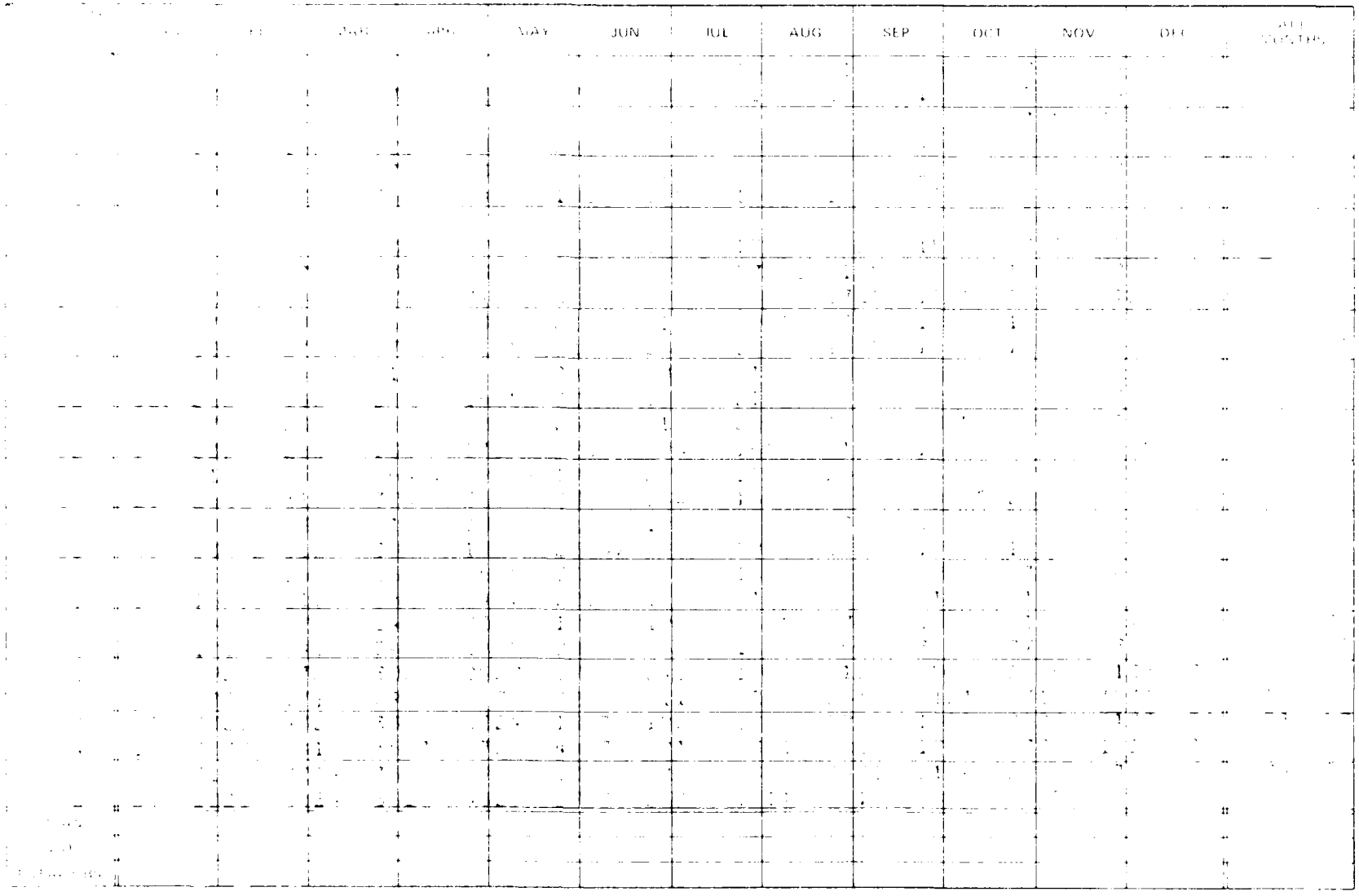
d. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

C

EXTREME VALUES

YEARS

(MPH 1949-1955)

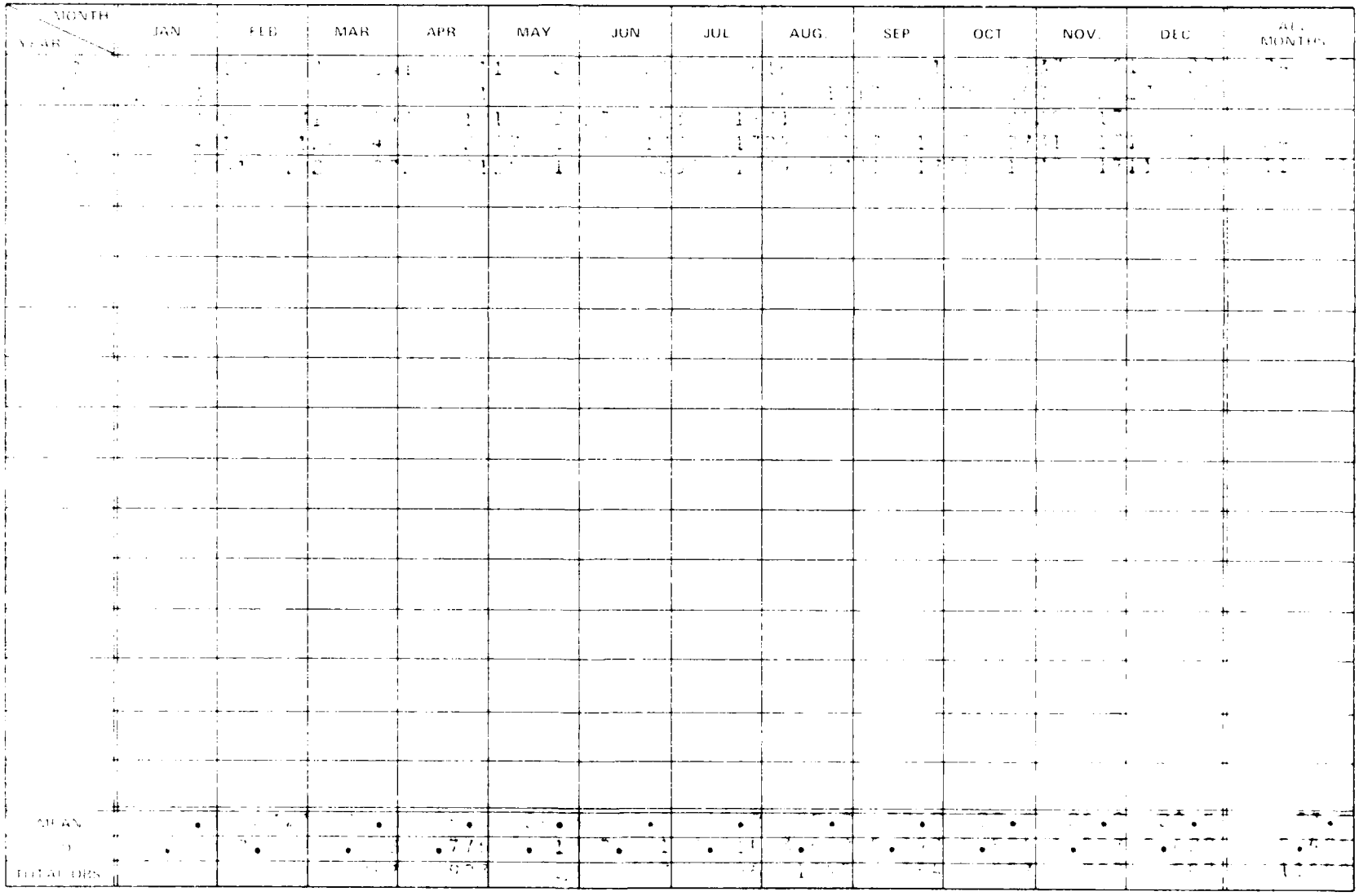


[illegible] WEATHER SERVICE DETACHMENT
[illegible] NORTH CAROLINA

EXTREME VALUES

STATION NAME _____ YEARS _____

(MPH 1949-1955)



SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION NAME

YEARS

(MPH 1949-1955)

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, N.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
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NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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SE													
SSE													
S													
SSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
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SSE													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ L.S.T.

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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SSE													
S													
SSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS G.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
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SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
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SE													
SSE													
S													
SSW													
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NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ L.S.T.

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

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TOTAL NUMBER OF OBSERVATIONS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS - L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

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CONDITION _____

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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

CONDITION

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS (L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

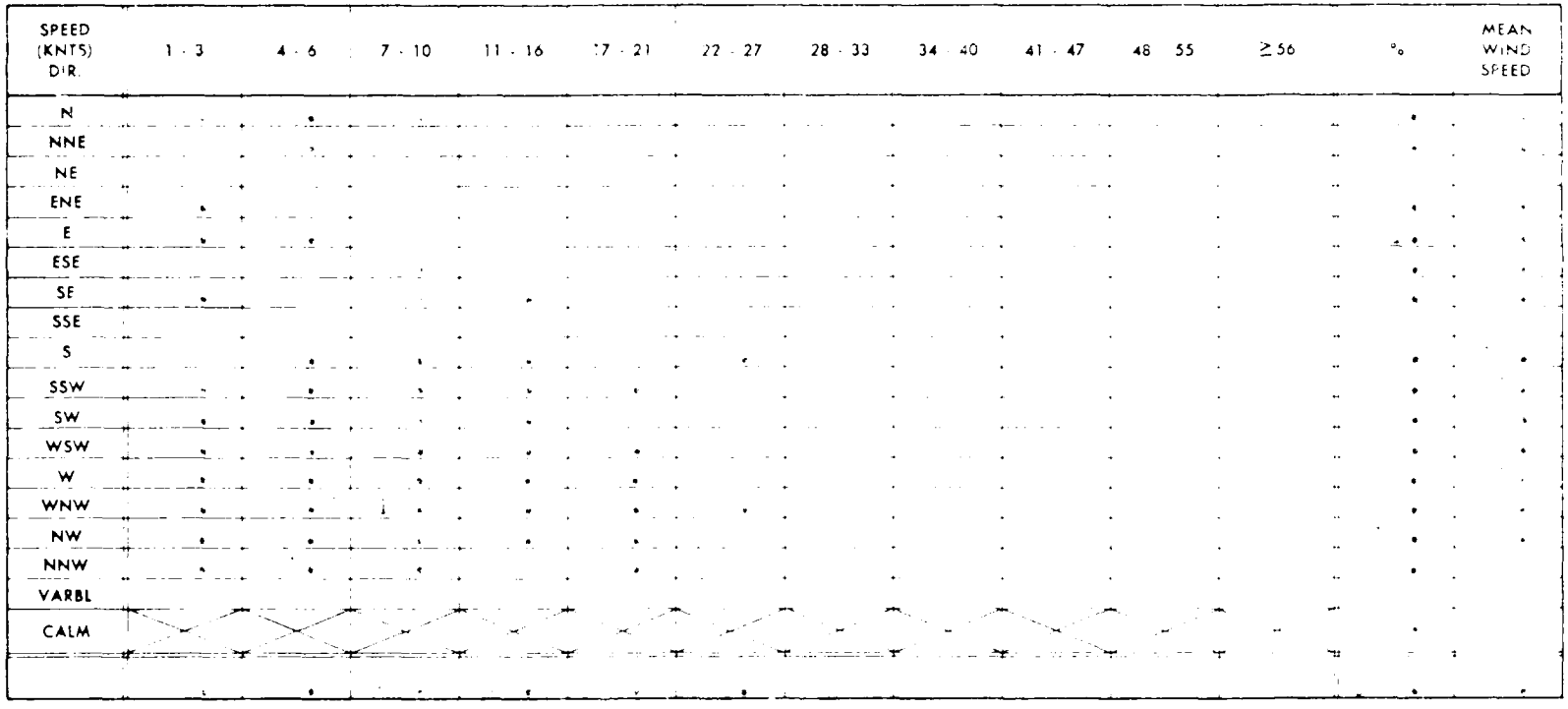
SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS G.M.T.

CONDITION



SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SECTION | STATION NAME | YEARS | MONTH

CLASS | HOURS L.S.T.

CONDITION

SPEED (KNTS) D.R.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

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TOTAL NUMBER OF OBSERVATIONS _____

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

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TOTAL NUMBER OF OBSERVATIONS _____

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ L S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

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TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, N.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T) _____

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

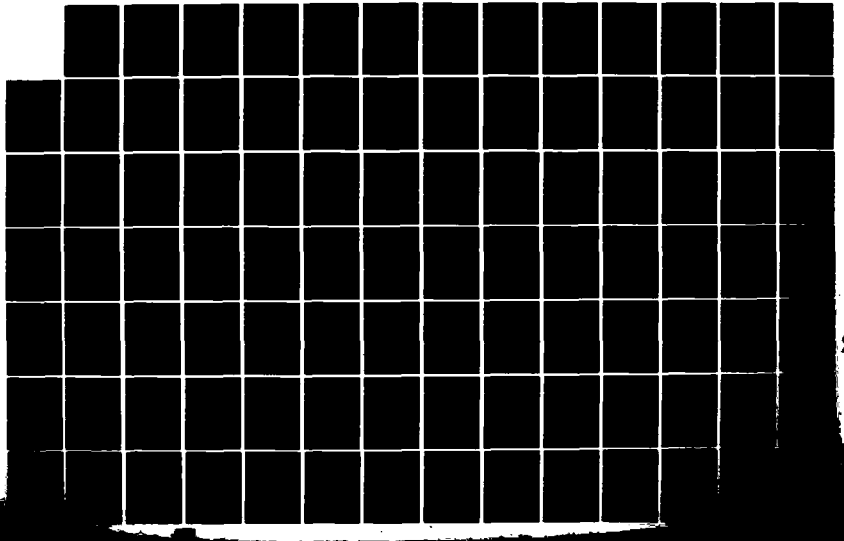
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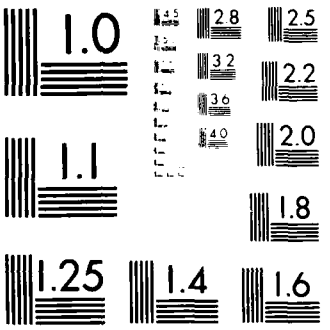
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TOTAL NUMBER OF OBSERVATIONS

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DETACHMENT ASHEVILLE NC OCT 83

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

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SMOS

SURFACE WINDS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION | STATION NAME | YEARS | MONTH

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TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

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TOTAL NUMBER OF OBSERVATIONS _____

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

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TOTAL NUMBER OF OBSERVATIONS _____

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

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SURFACE WINDS

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STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
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TOTAL NUMBER OF OBSERVATIONS _____

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NUMBER _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T) ALL

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS (L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

3

NAVAL GEOPHYSICAL DATA CENTER
ASHEVILLE, N.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ L S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, N.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ L.S.T.

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS (L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 27	28 33	34 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NUMBER _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

REPRODUCED AT GOVERNMENT EXPENSE

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____ S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L.S.T. _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

NAVAL OCEANOGRAPHIC OFFICE
ASHEVILLE, N.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L & T) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

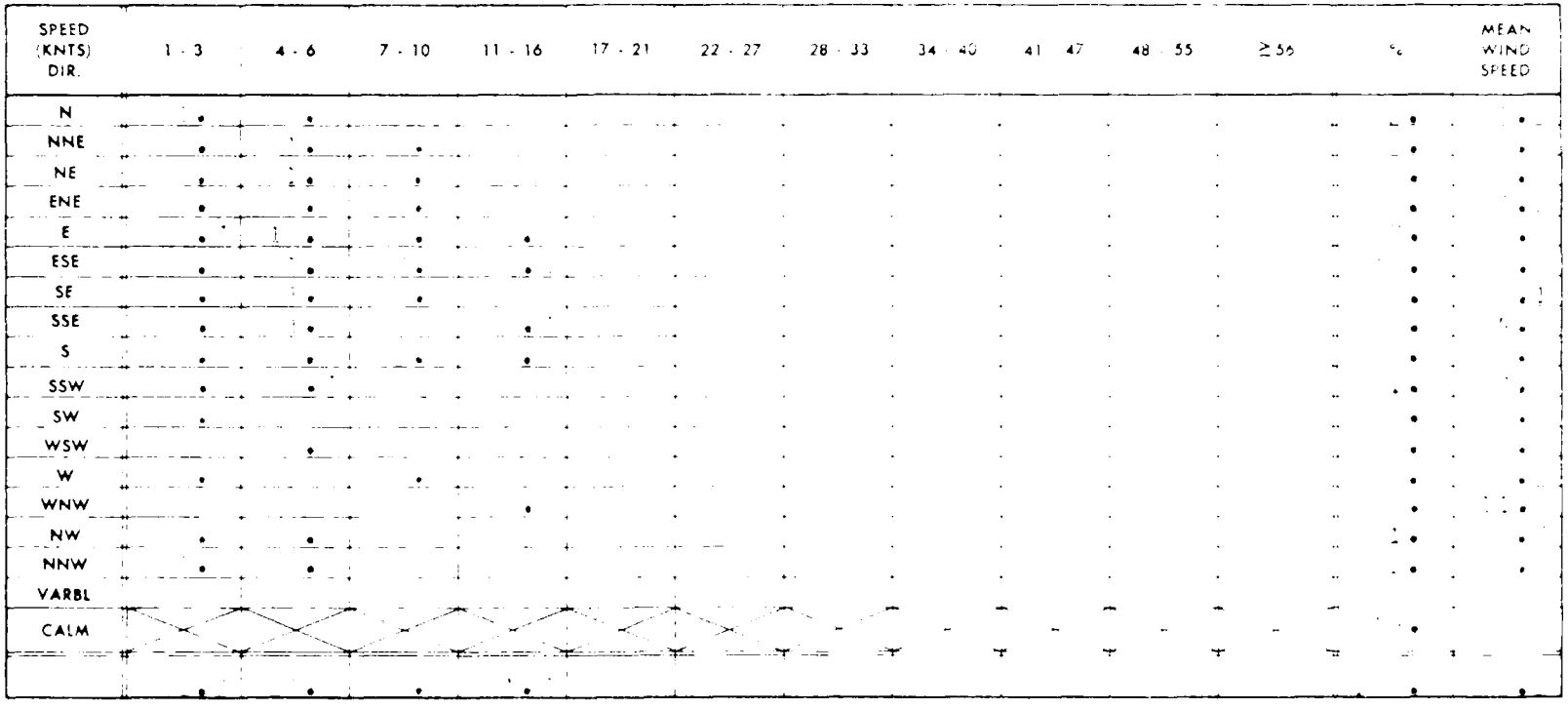
SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION



TOTAL NUMBER OF OBSERVATIONS

SMOS

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T) ALL

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS - L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS G.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS L.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH

CLASS HOURS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

[illegible]
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

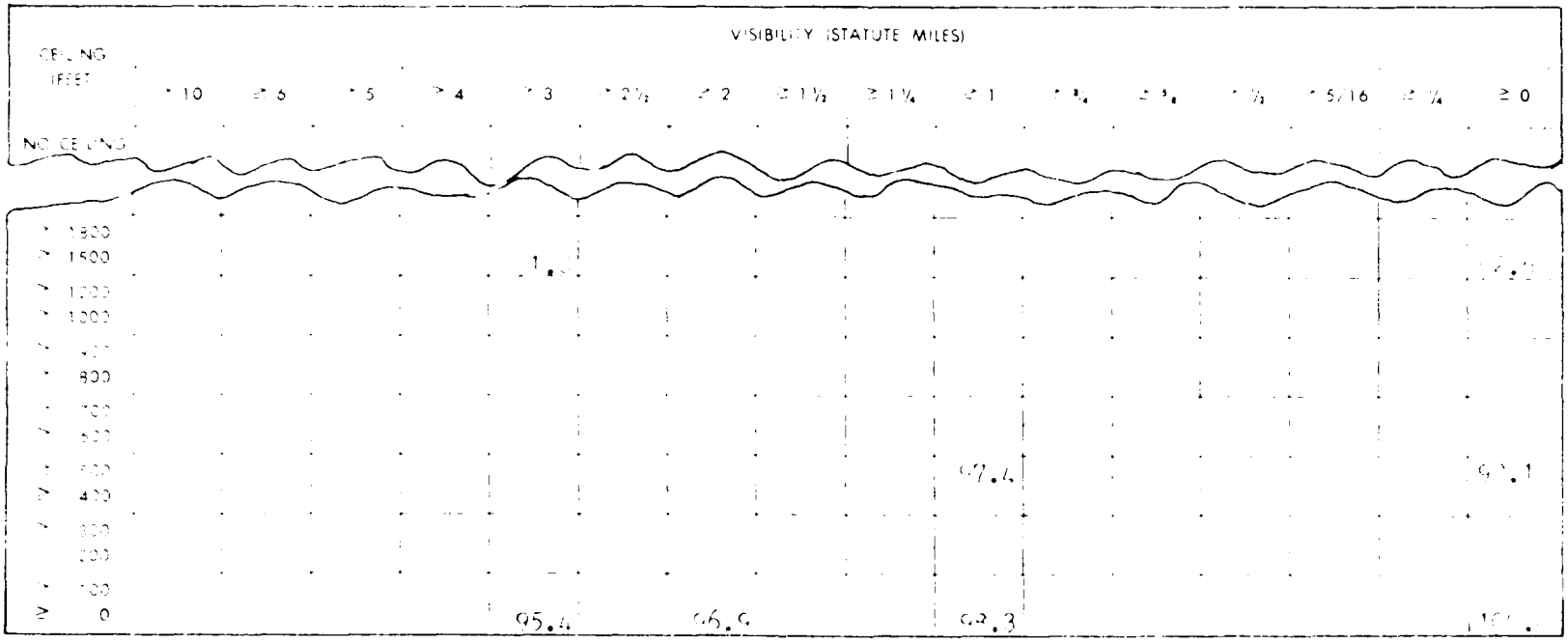
[illegible] appropriate percentage frequency distribution by classes of ceiling [illegible] greater than 1,000 feet and as a separate class "no ceiling", versus visibility in [illegible] 3/4 mile or greater than 10 miles. Data are derived from 3-hourly observations, and [illegible] are presented as follows:

- [illegible] - all years and all hours combined
- [illegible] - all hours for all years combined
- [illegible] - by individual 3-hour groups

[illegible] the graphic nature of this presentation, it is possible to determine the percentage frequency [illegible] ceiling or visibility separately, or in combination [illegible] ceiling and visibility. Ceilings are tabulated in the first column and downward. Ceilings can be determined independently [illegible] in the extreme right hand column. Also, visibilities can be determined independently [illegible] the horizontal row of totals at the bottom of the page. The percentage frequency [illegible] ceiling and visibility or ceiling and visibility exceedance and given set of limits may be determined from the figure at the [illegible] of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

[illegible] 1945 for Air Force stations and January 1949 for CAA and U.S. Navy stations the "no ceiling" [illegible] observations with less than 6/10 total sky cover and those cases where total [illegible] 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION



EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0. For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of $\geq$ 1500 feet with $\geq$ 3 miles, subtracted from 97.4 read from the table at the intersection of $\geq$ 500 feet with $\geq$ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling $\geq$ 500 feet with visibility $\geq$ 1 mile, but < 3 miles; or ceiling $\geq$ 500 feet, but < 1500 feet with visibility $\geq$ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D SKY COVER

[illegible] is prepared from 3-hourly observations and is a percentage frequency distribution of total [illegible] total number of observations. It is presented in two tables as follows:

1. [illegible] months and annual - all hours and all years combined.

2. [illegible] months - by standard 3-hour groups.

Note 1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

Note 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the box to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS	TENTHS
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

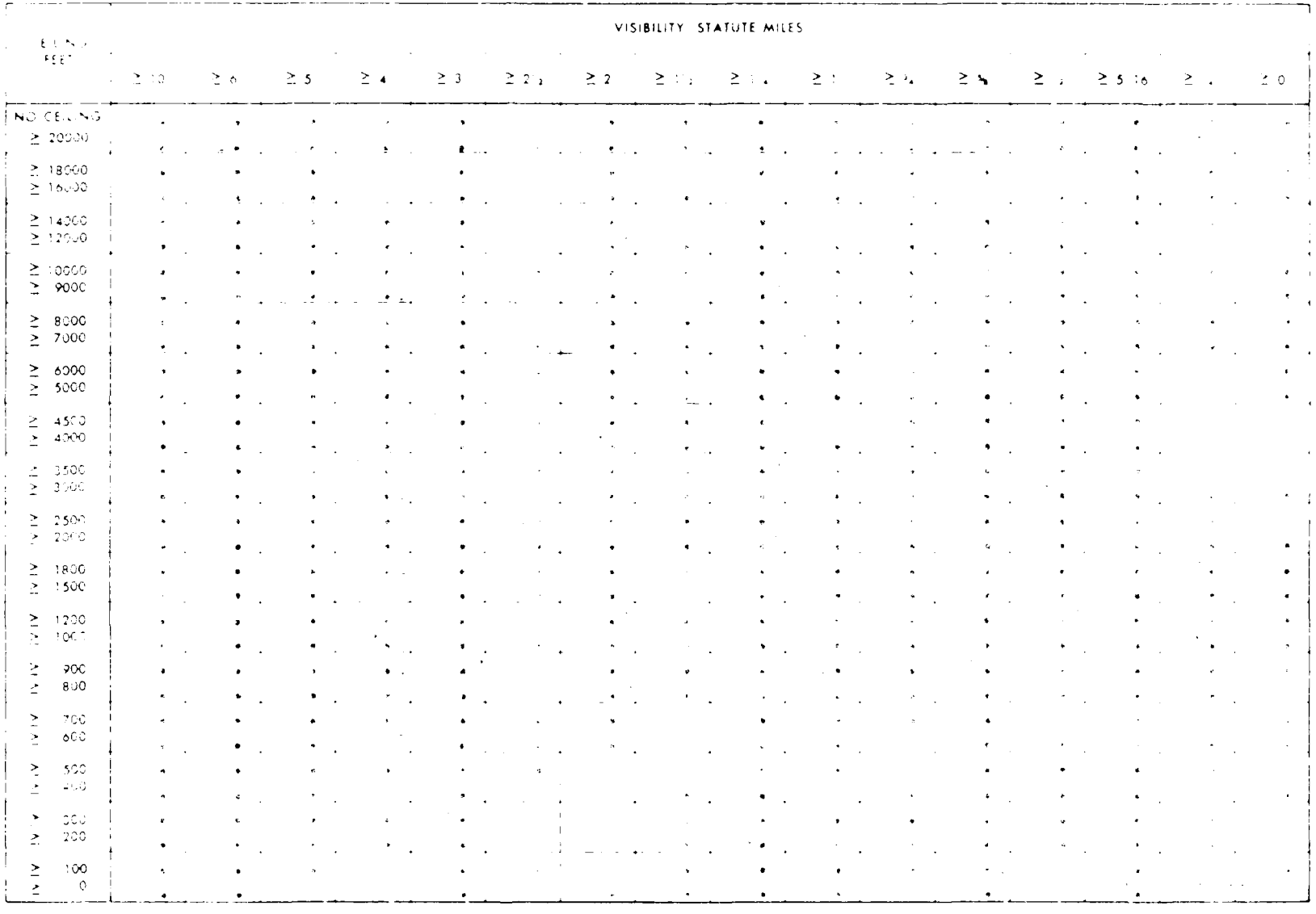
Note 3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10
Scattered converted to 3/10
Broken converted to 9/10
Overcast converted to 10/10
Obscured converted to 10/10

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

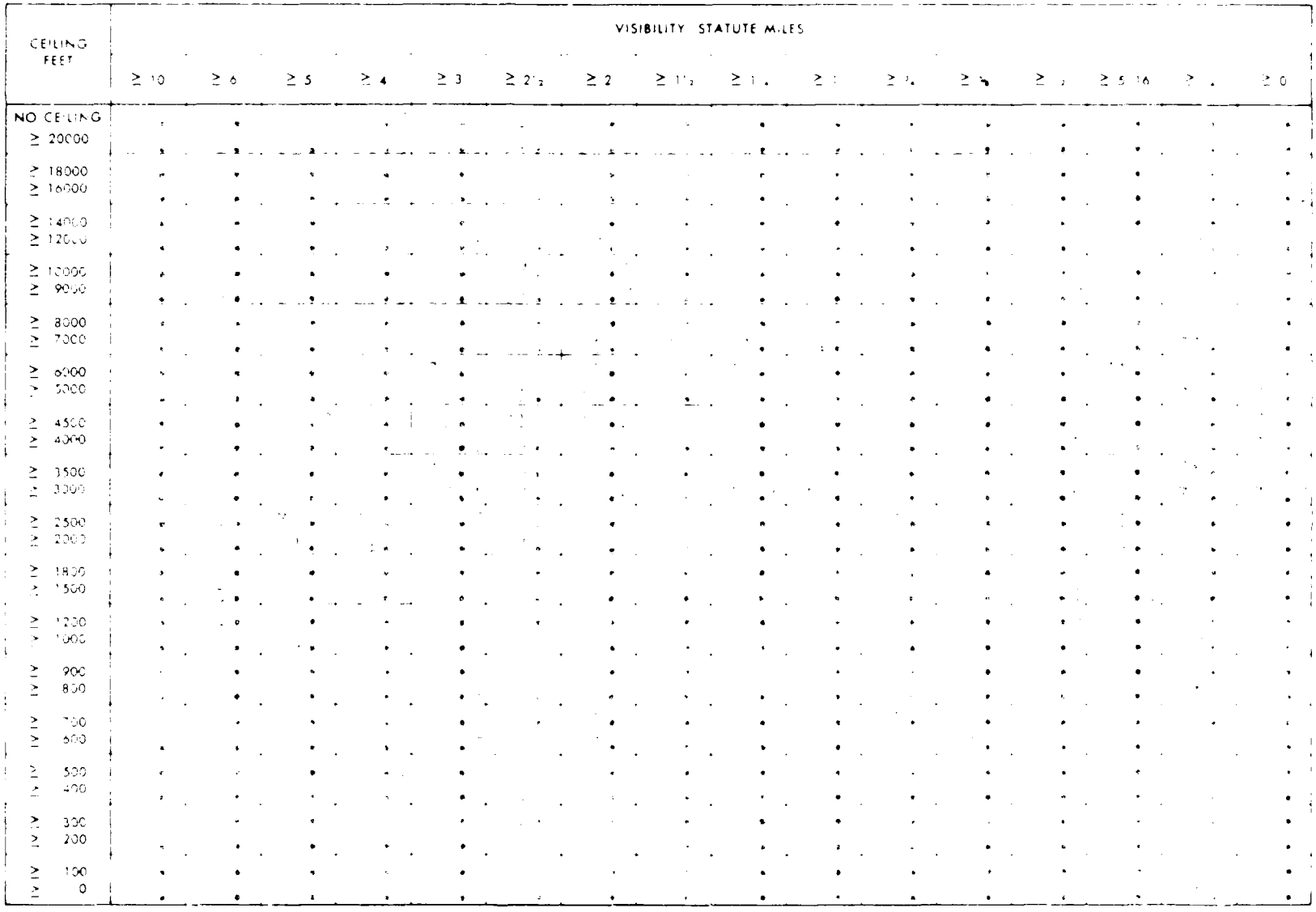


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



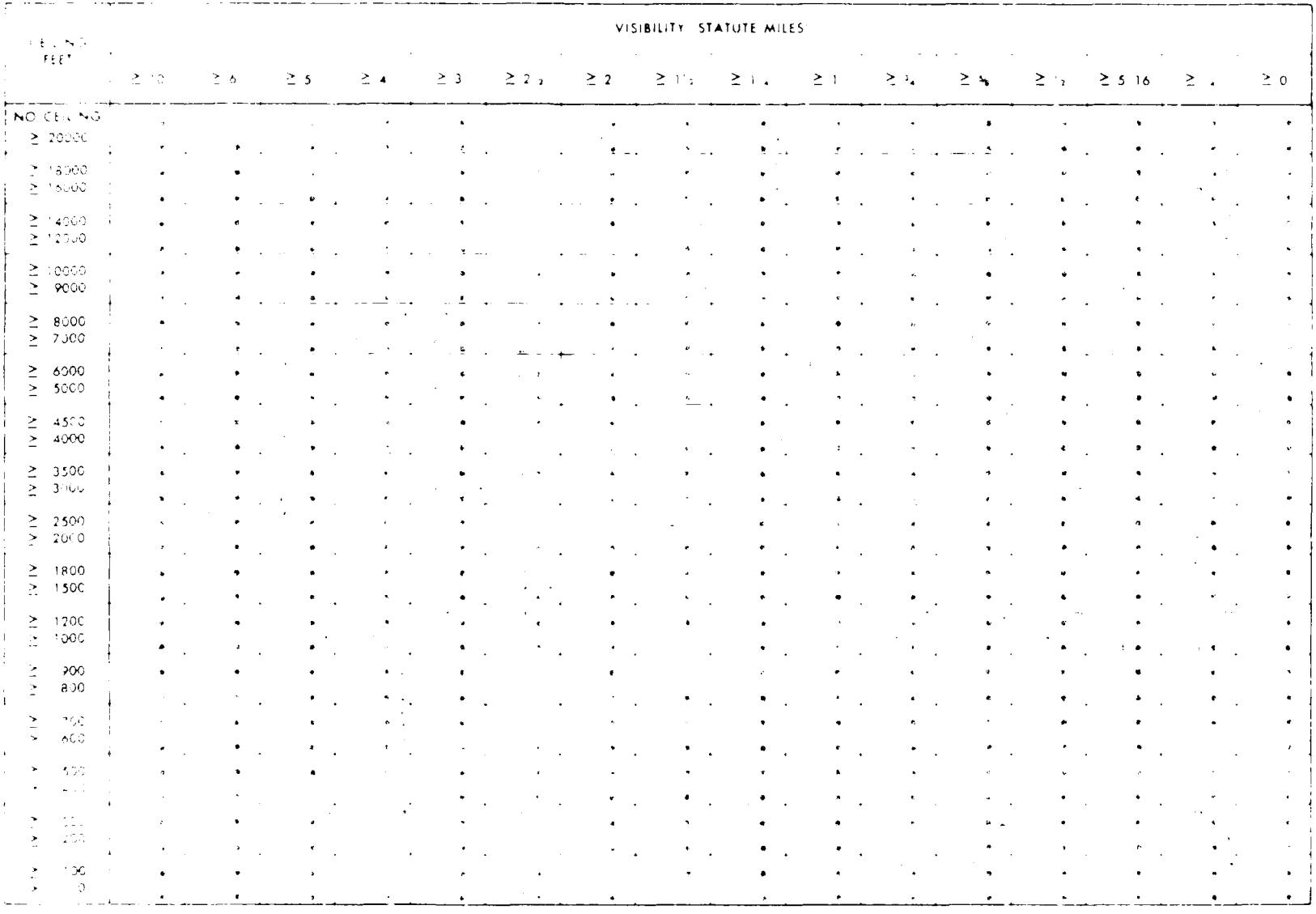
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRFNCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)



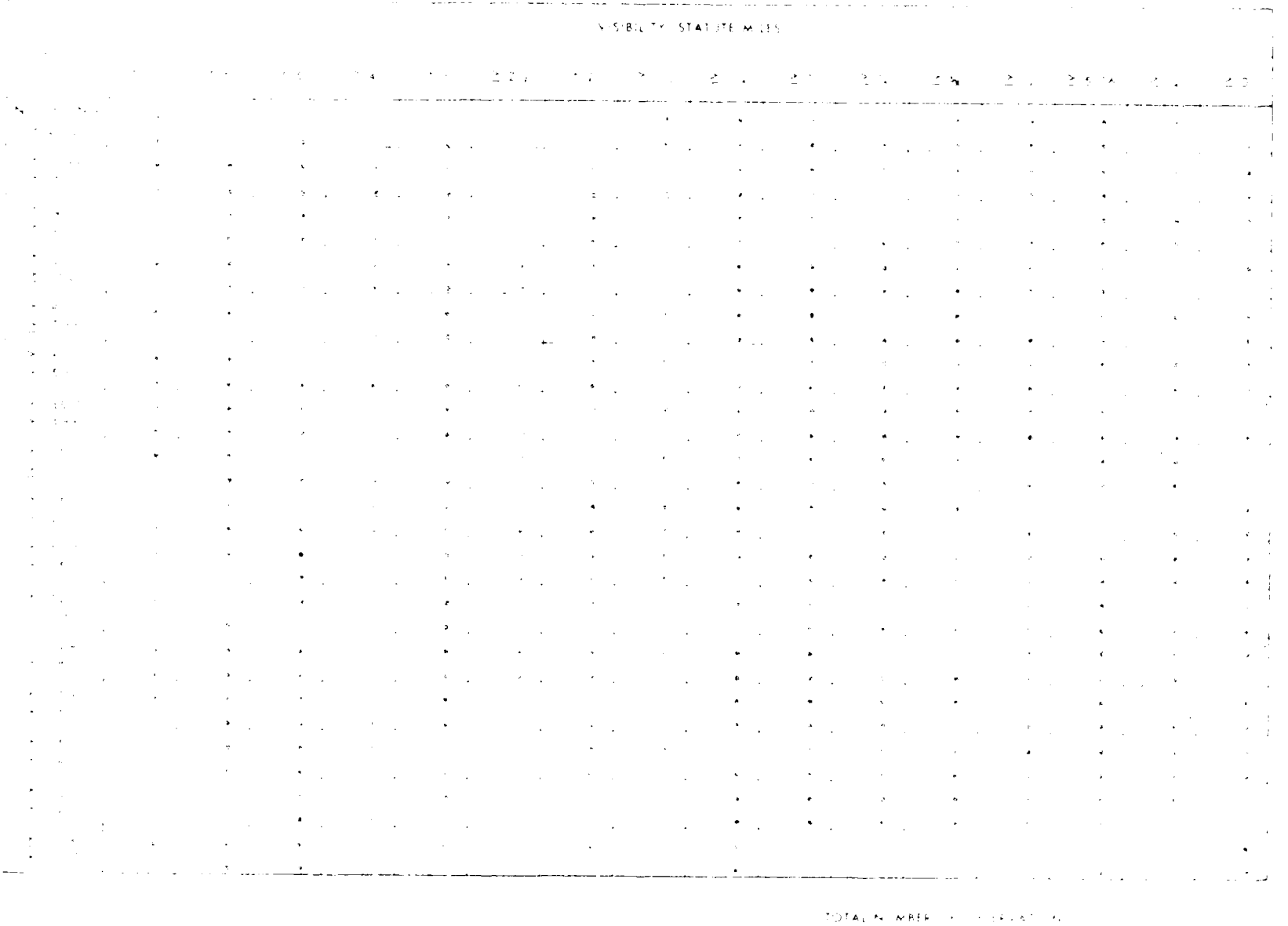
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

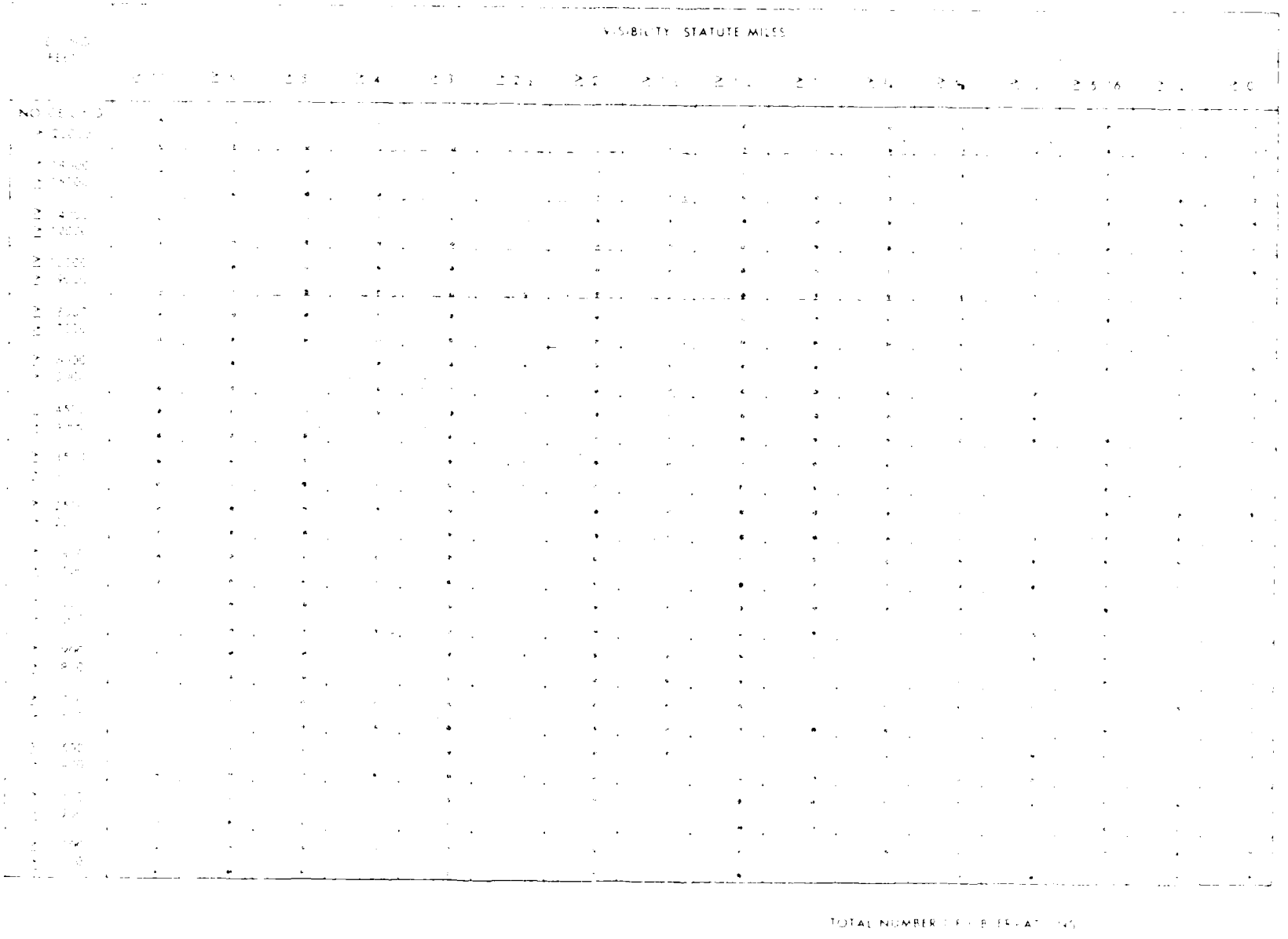
CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



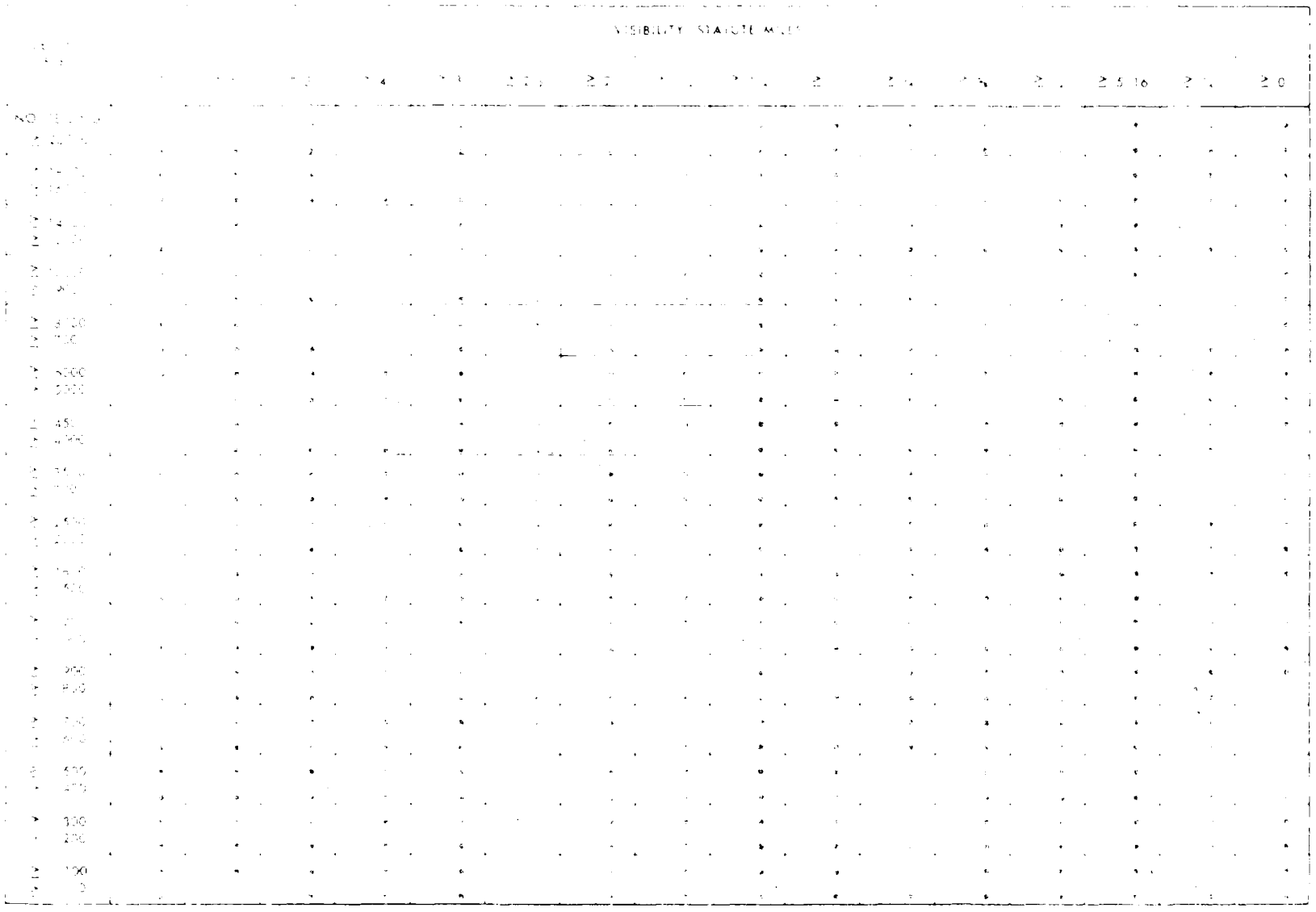
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

POTENTIAL PROBABILITY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

CEILING VERSUS VISIBILITY

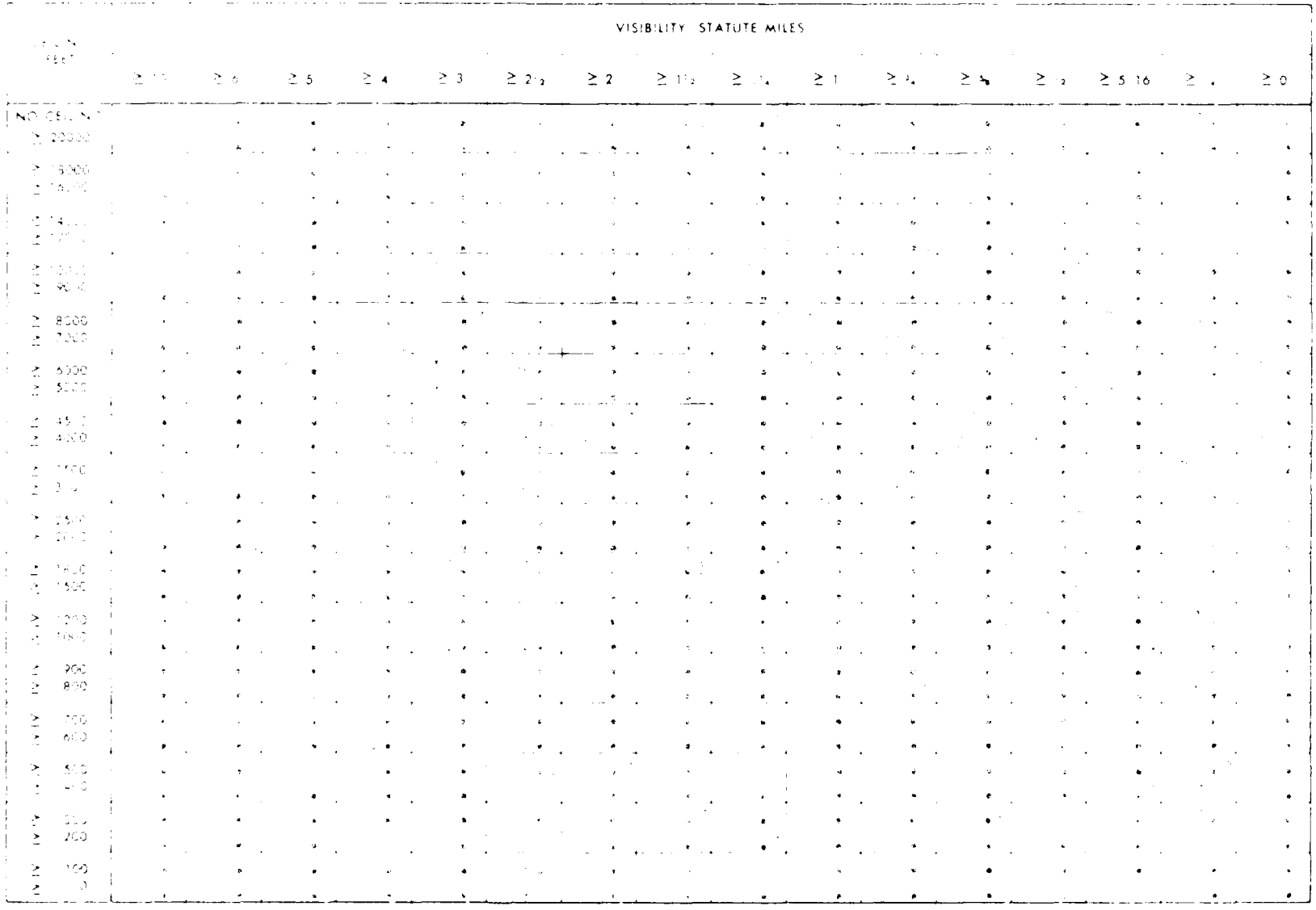
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

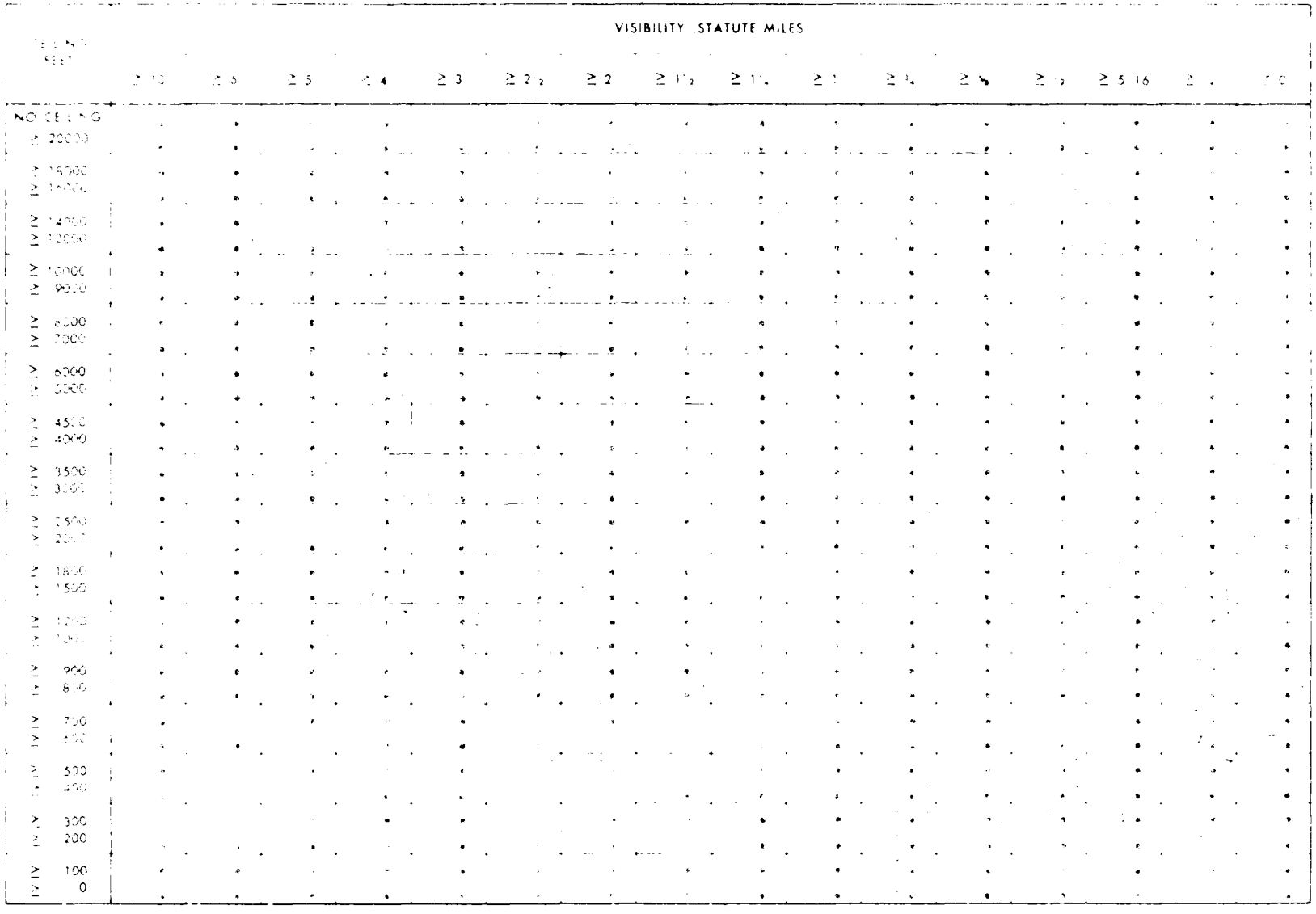


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

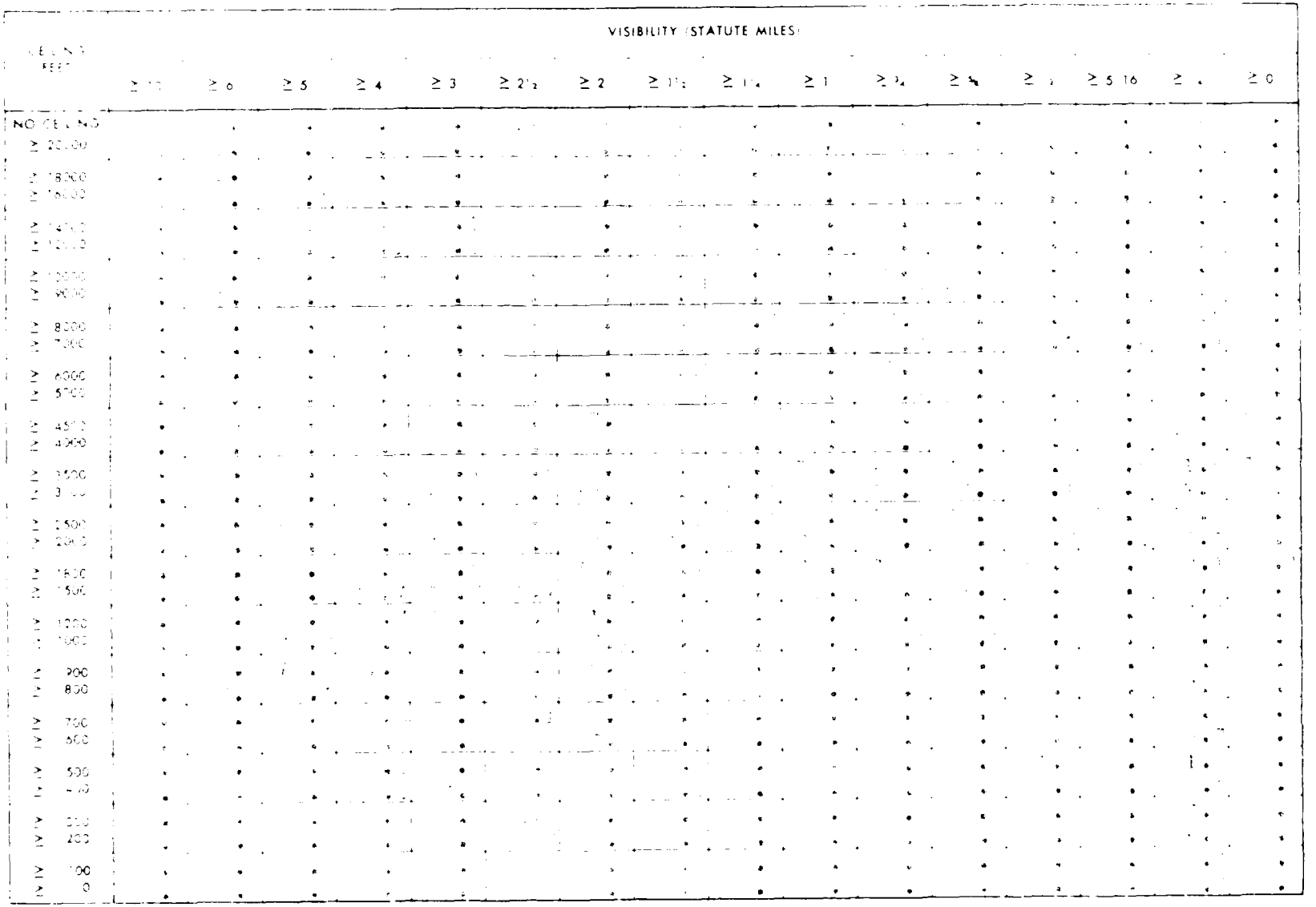


TOTAL NUMBER OF OBSERVATIONS _____

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



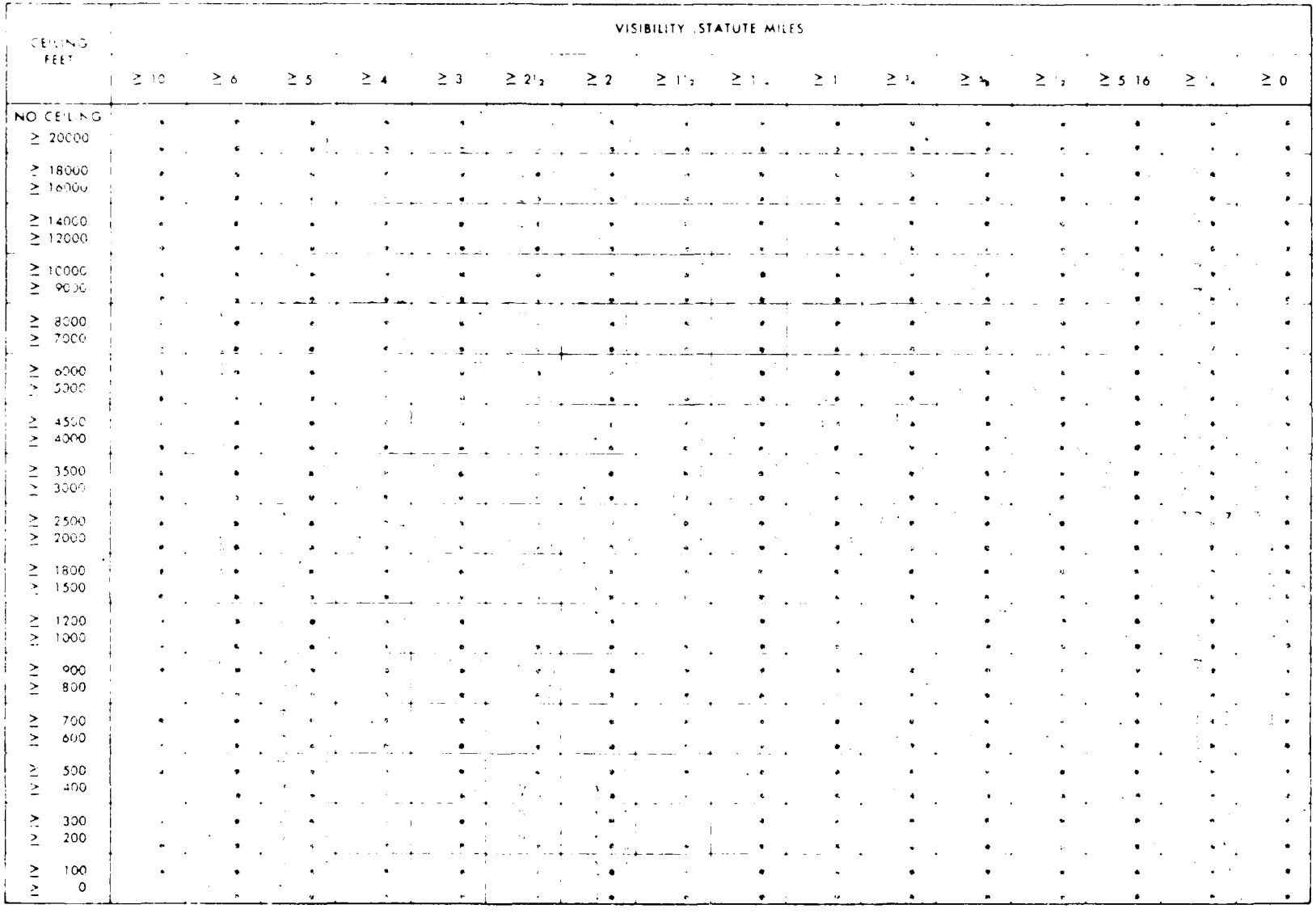
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

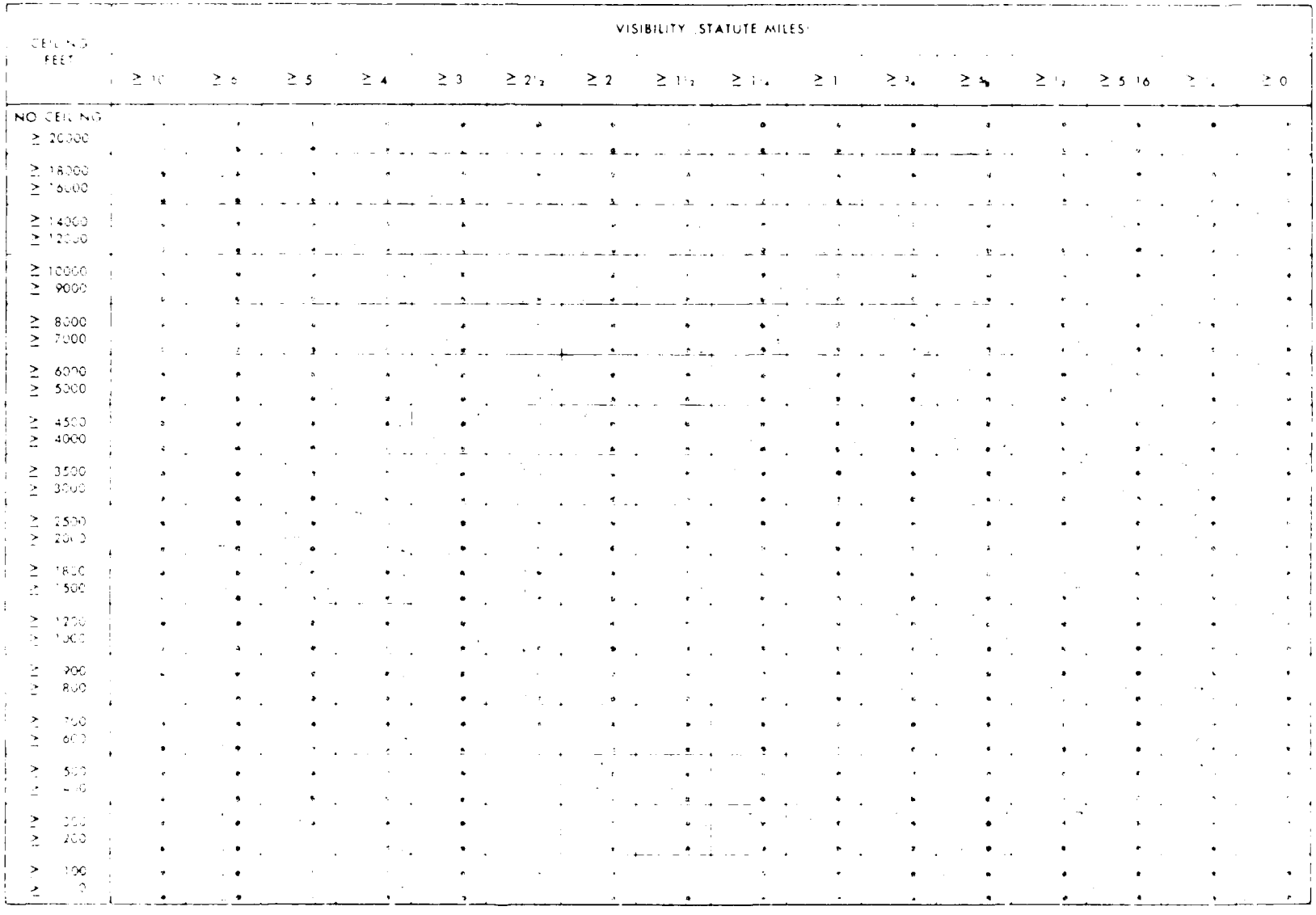


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

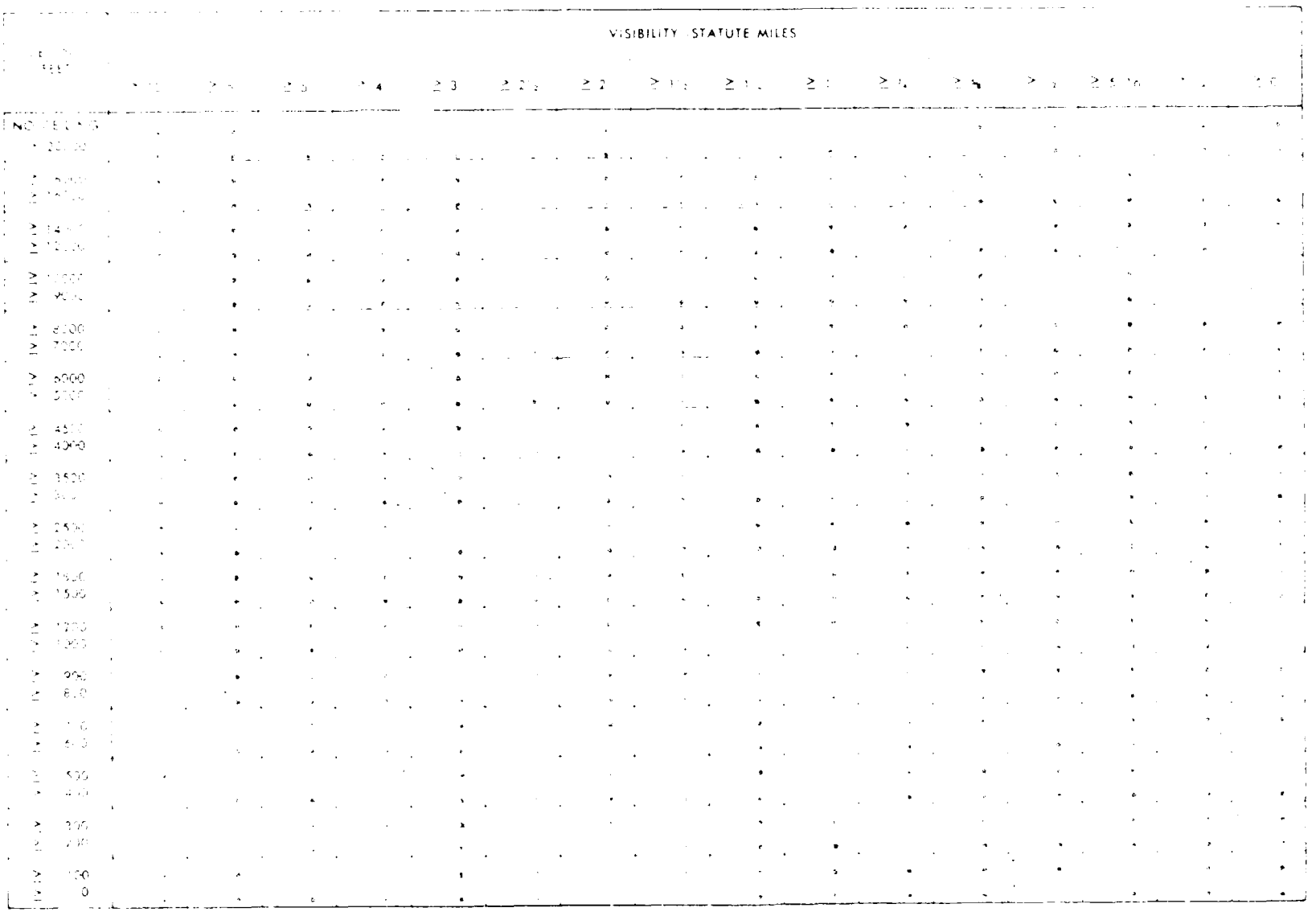
CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



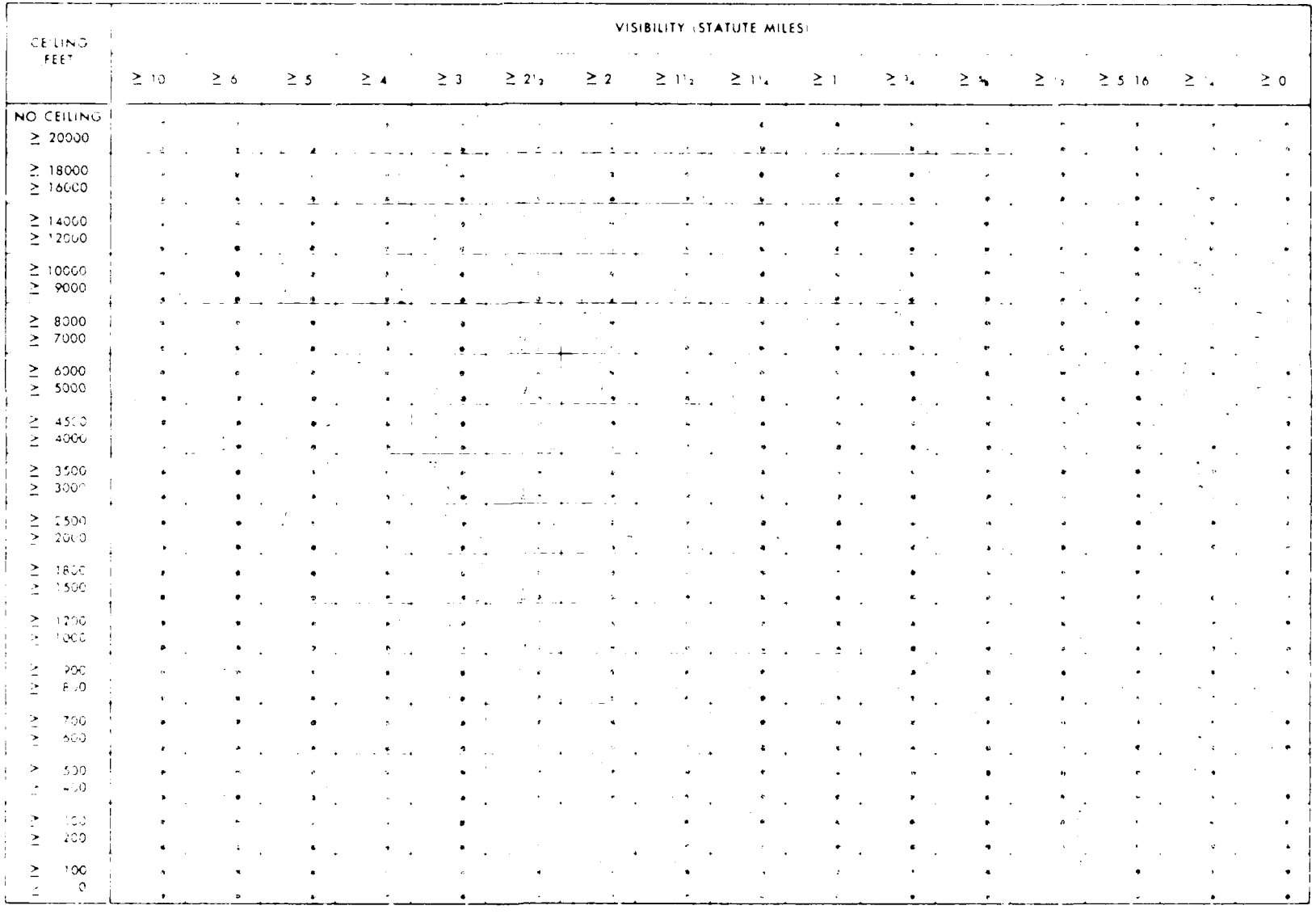
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)



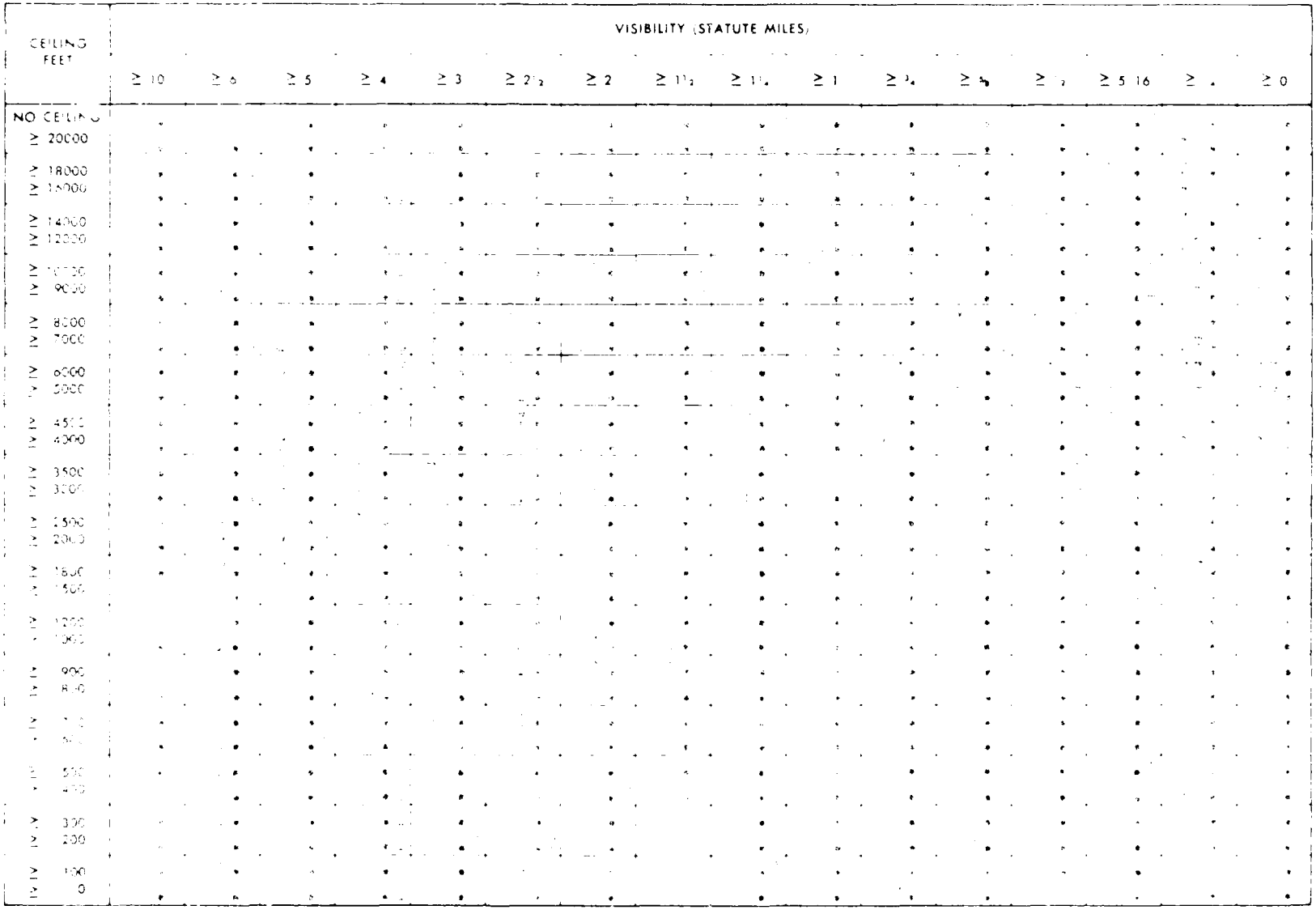
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)



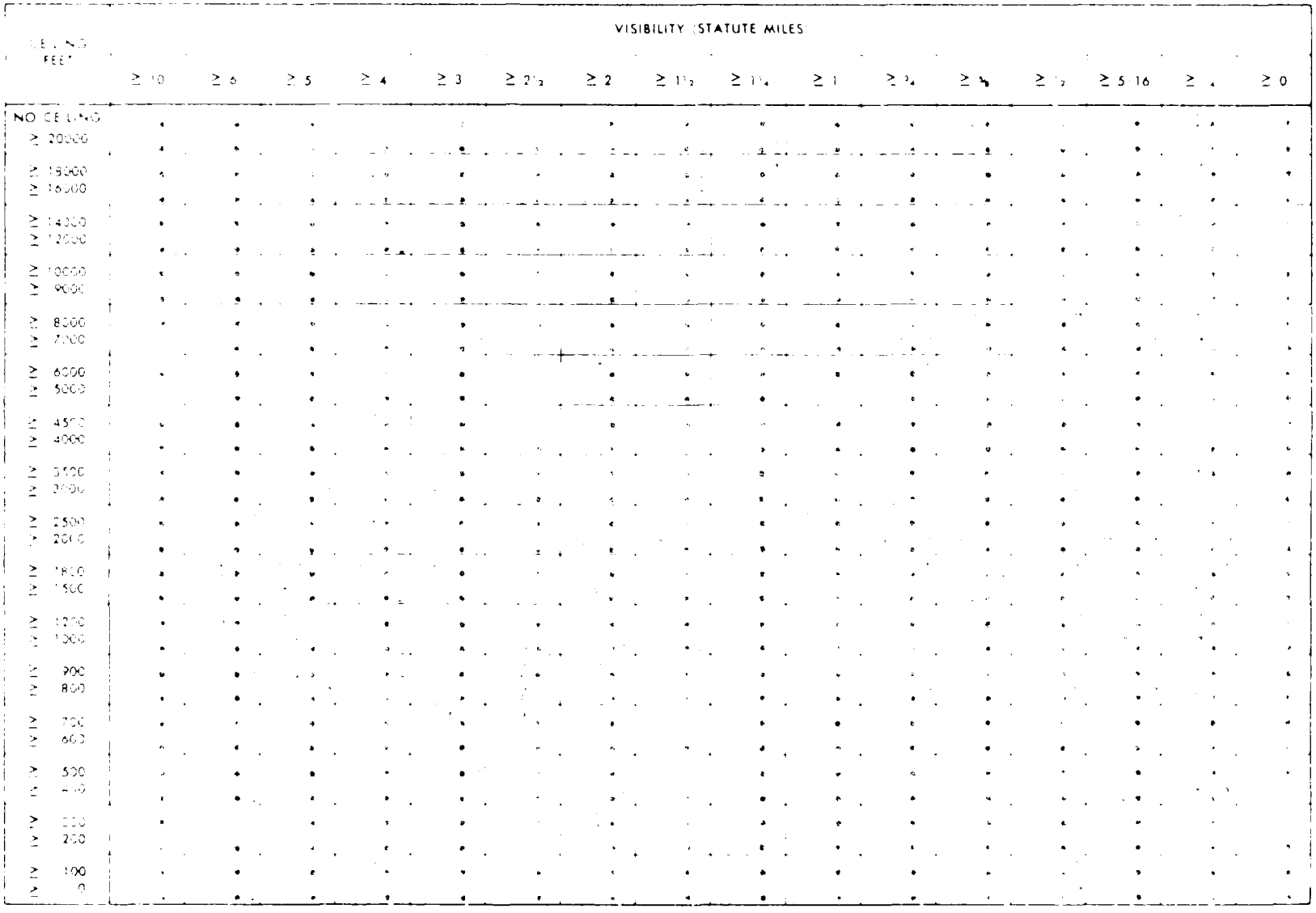
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)



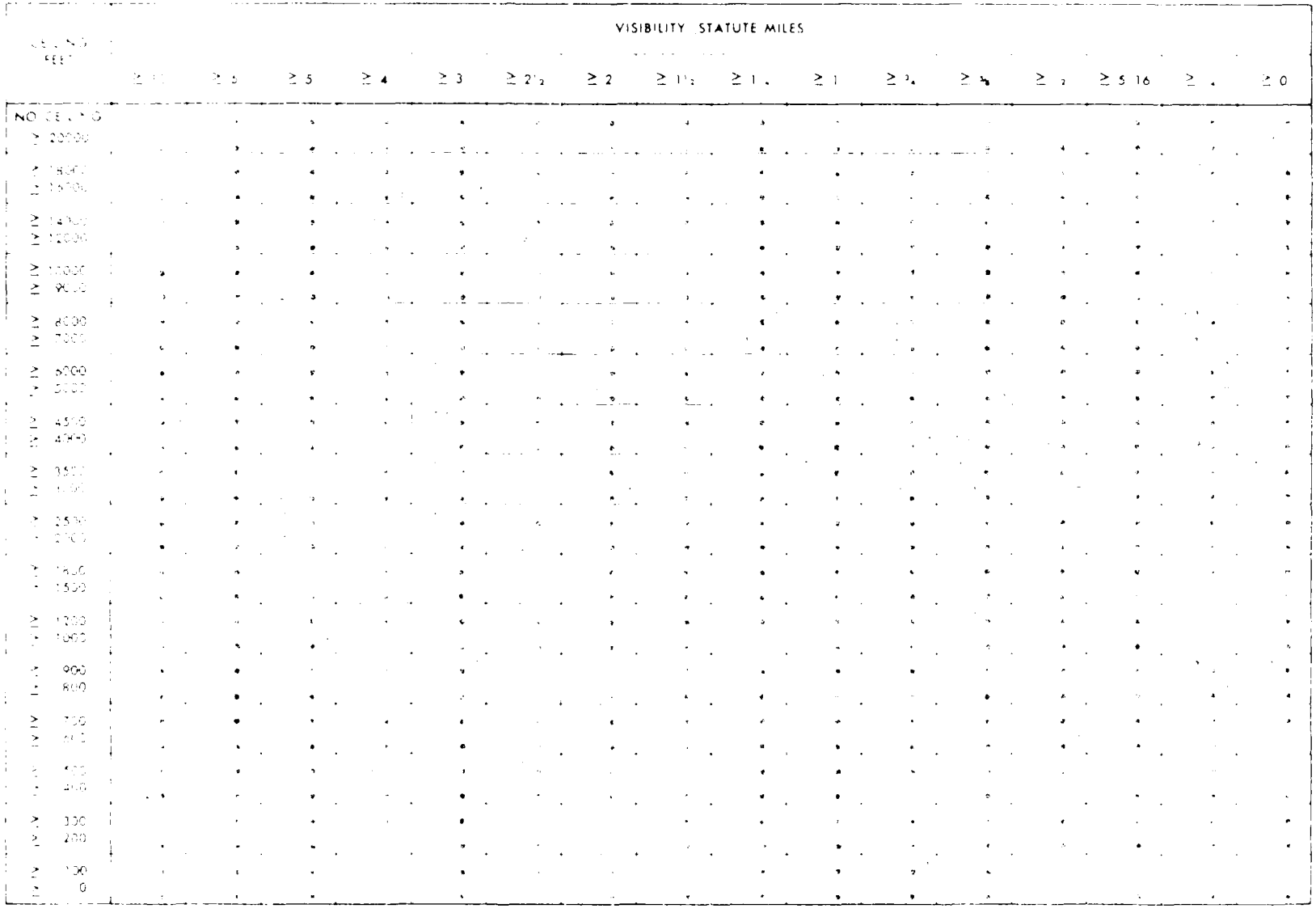
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

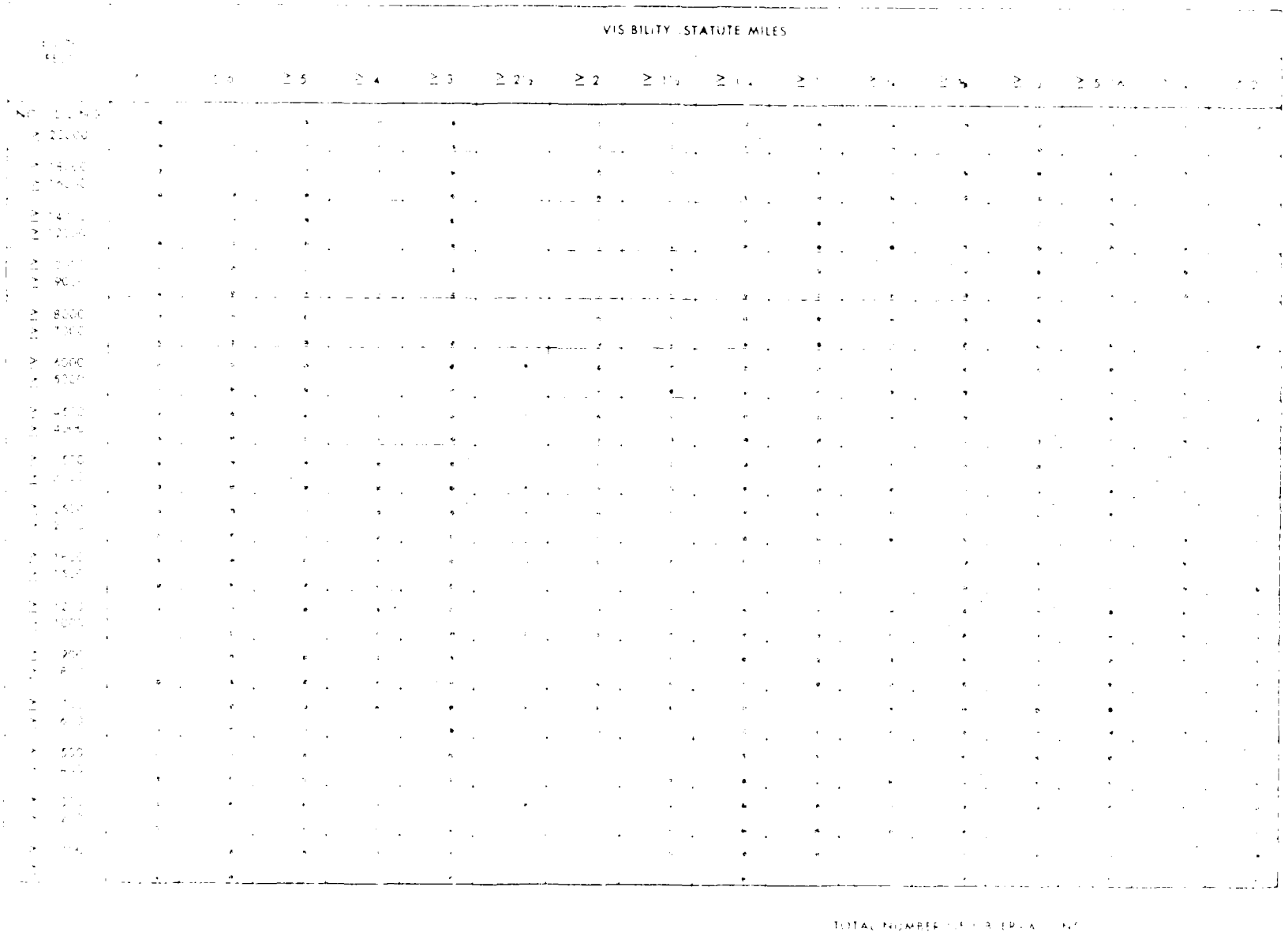
HOURS (LST)



TOTAL NUMBER OF OBSERVATIONS

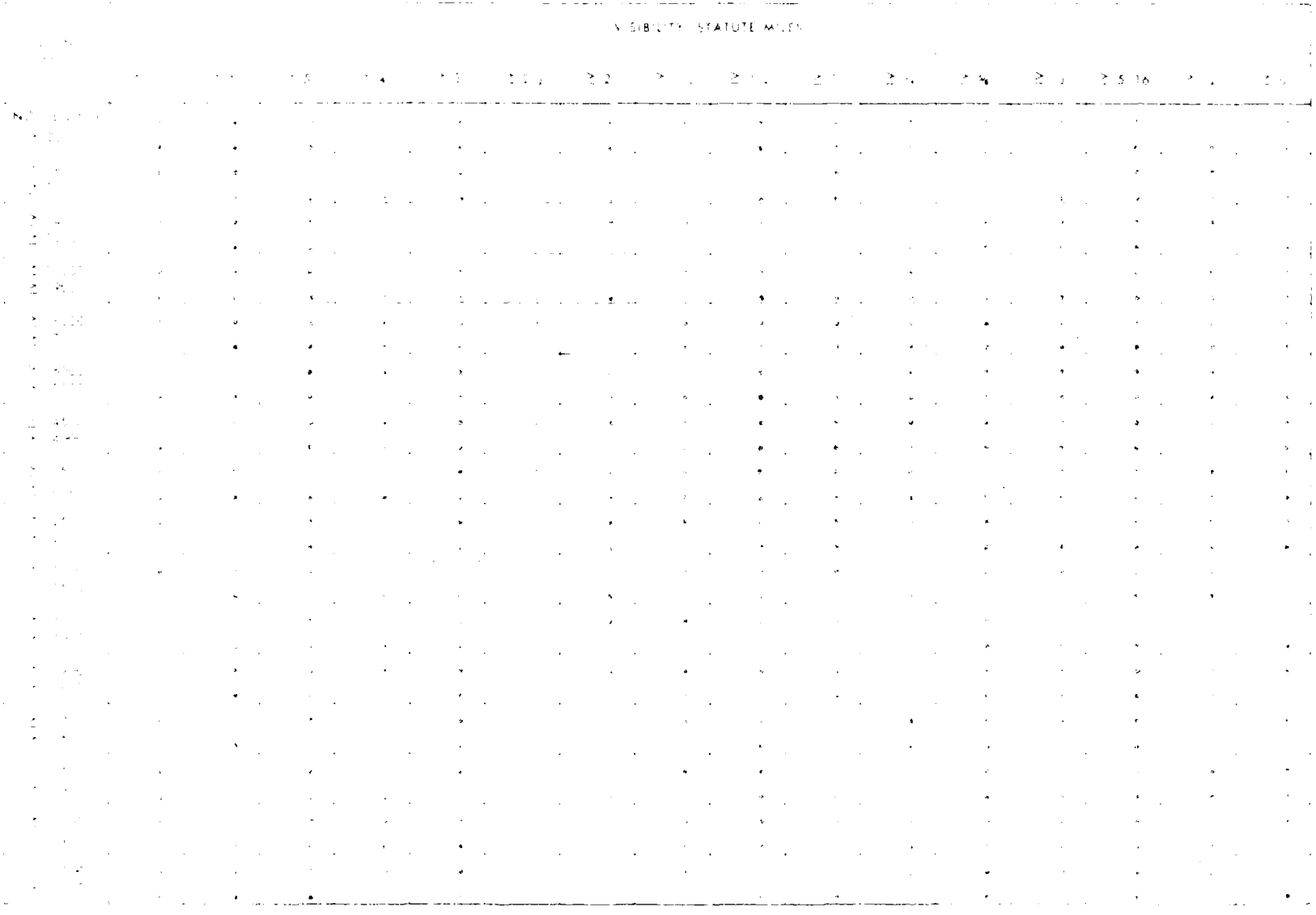
CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



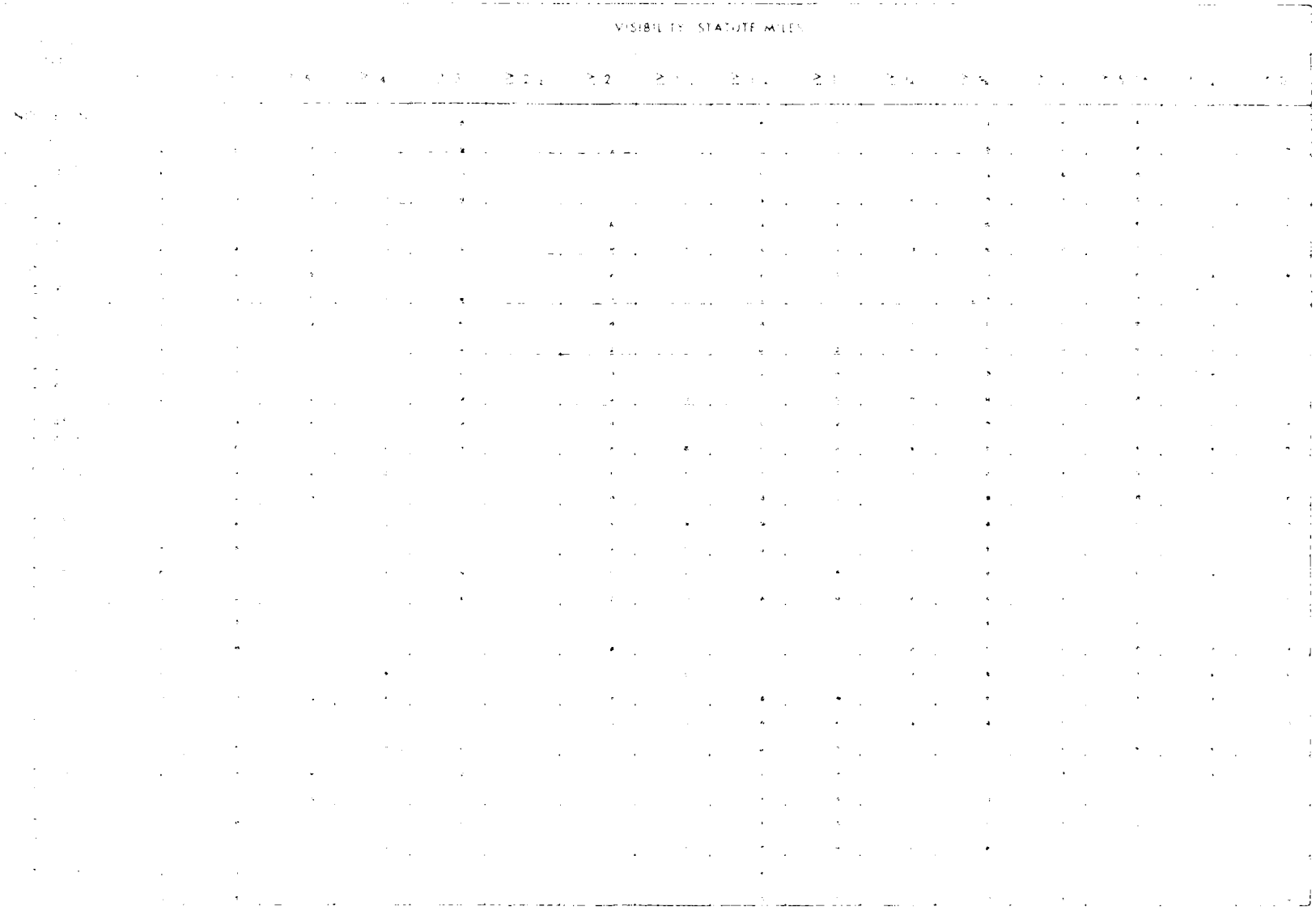
CEILING VERSUS VISIBILITY

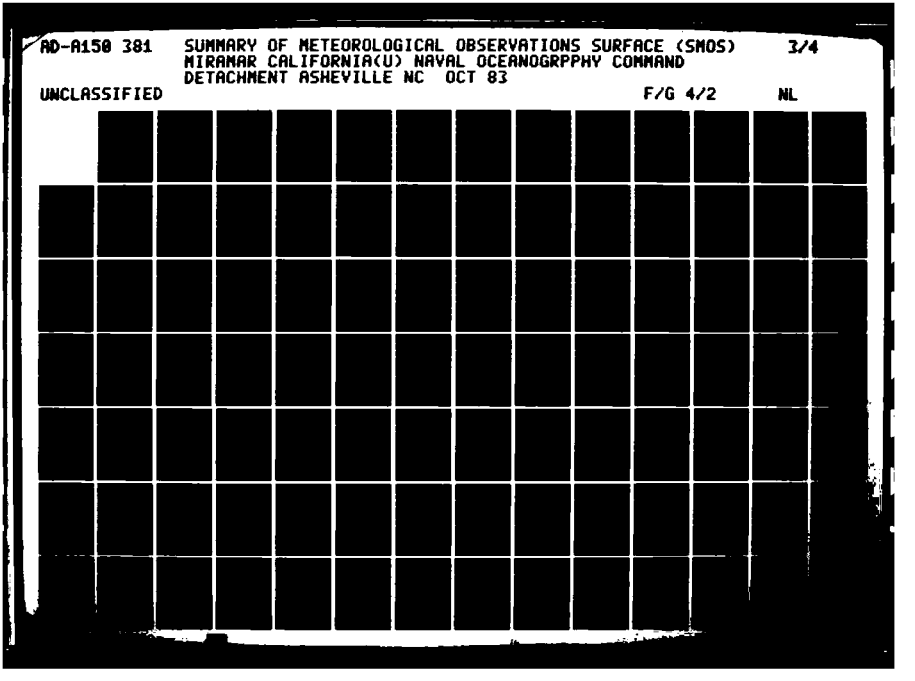
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

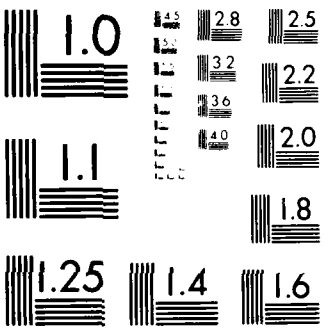


CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS




AD-A150 381 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 3/4
MIRAMAR CALIFORNIA(U) NAVAL OCEANOGRPPHY COMMAND
DETACHMENT ASHEVILLE NC OCT 83
UNCLASSIFIED F/G 4/2 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L S T

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅜	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
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≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

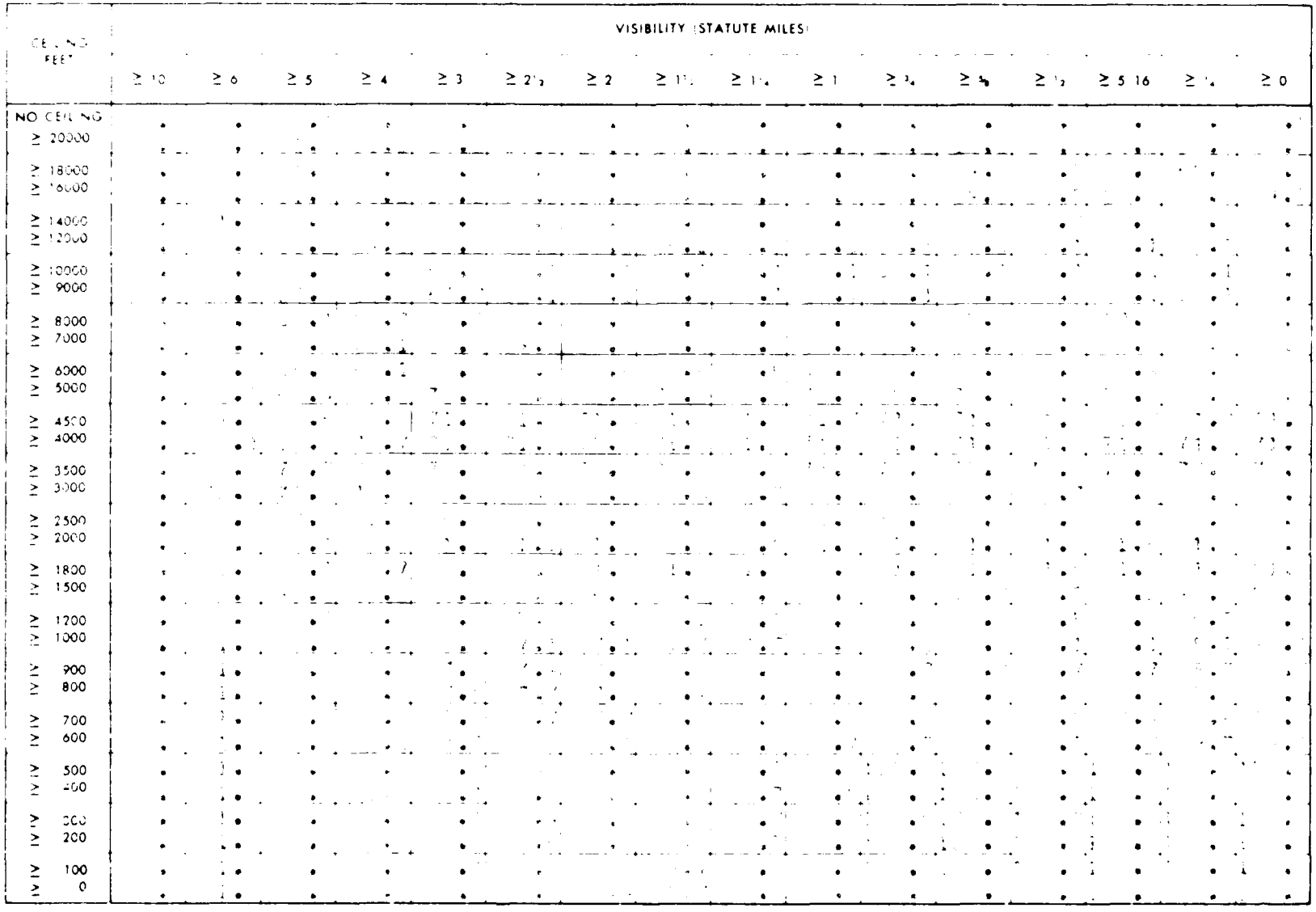
DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



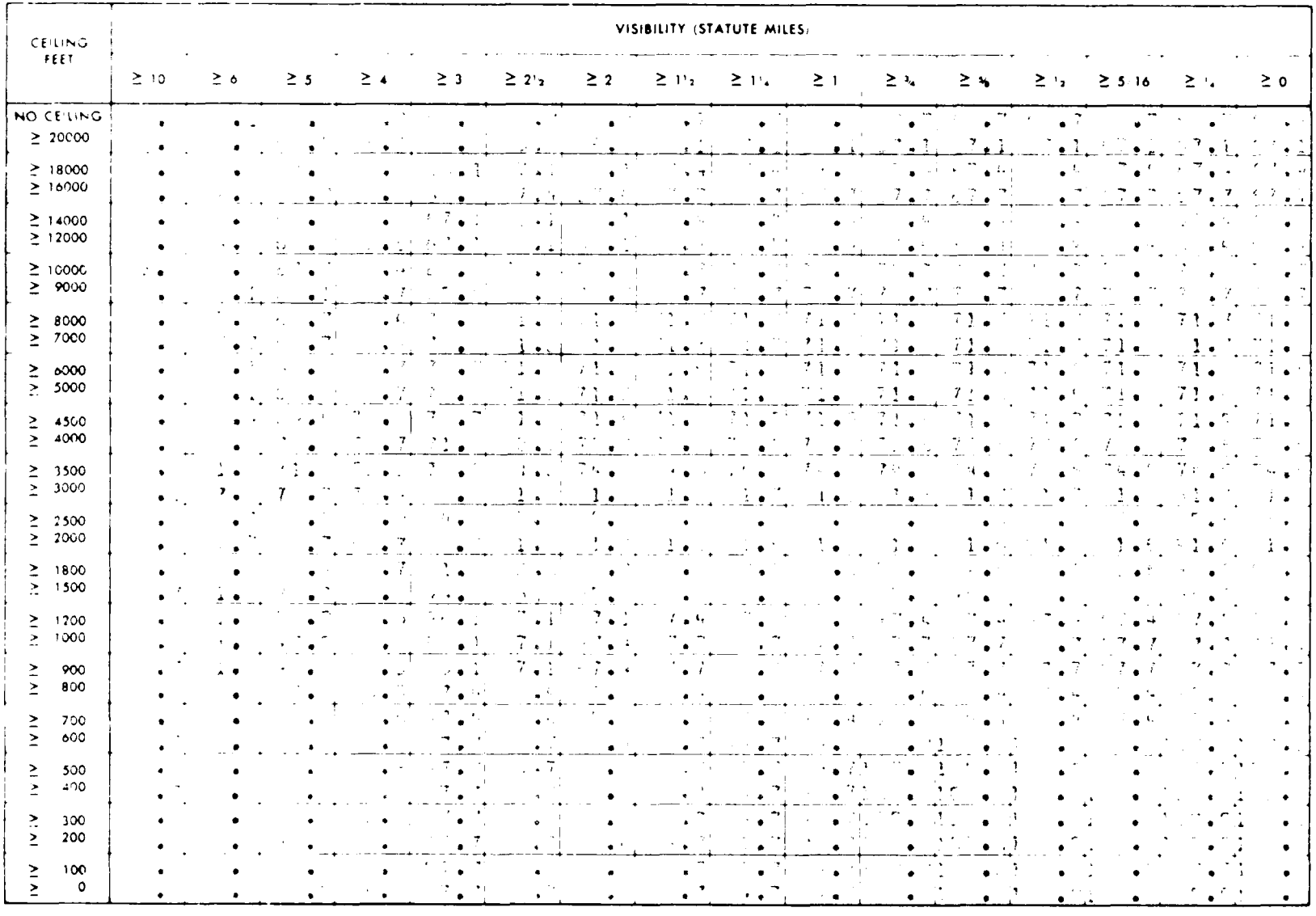
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS E S T



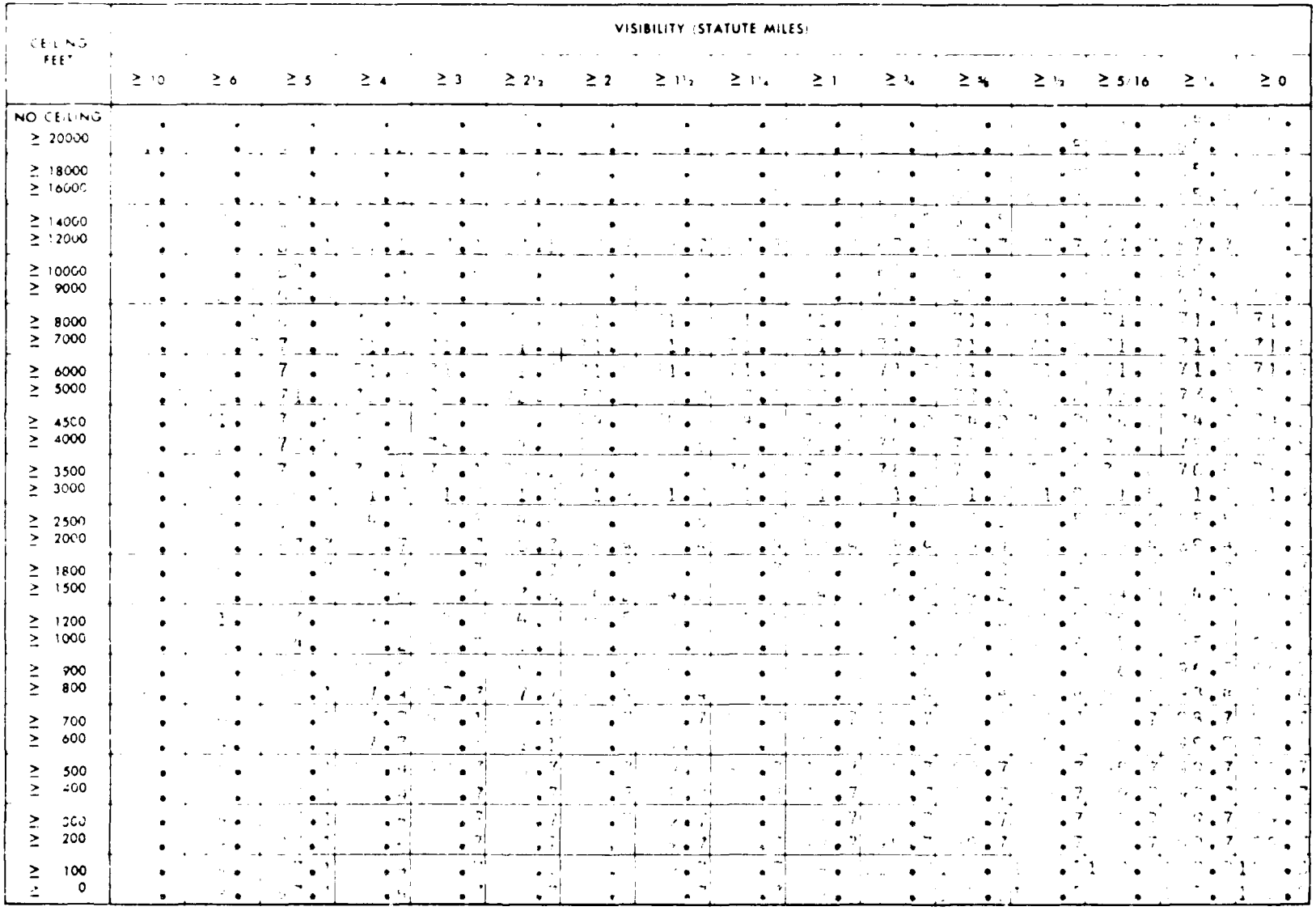
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L S T



TOTAL NUMBER OF OBSERVATIONS

USAFETAC/DEARTCET 8005

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 900																
≥ 800																
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≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

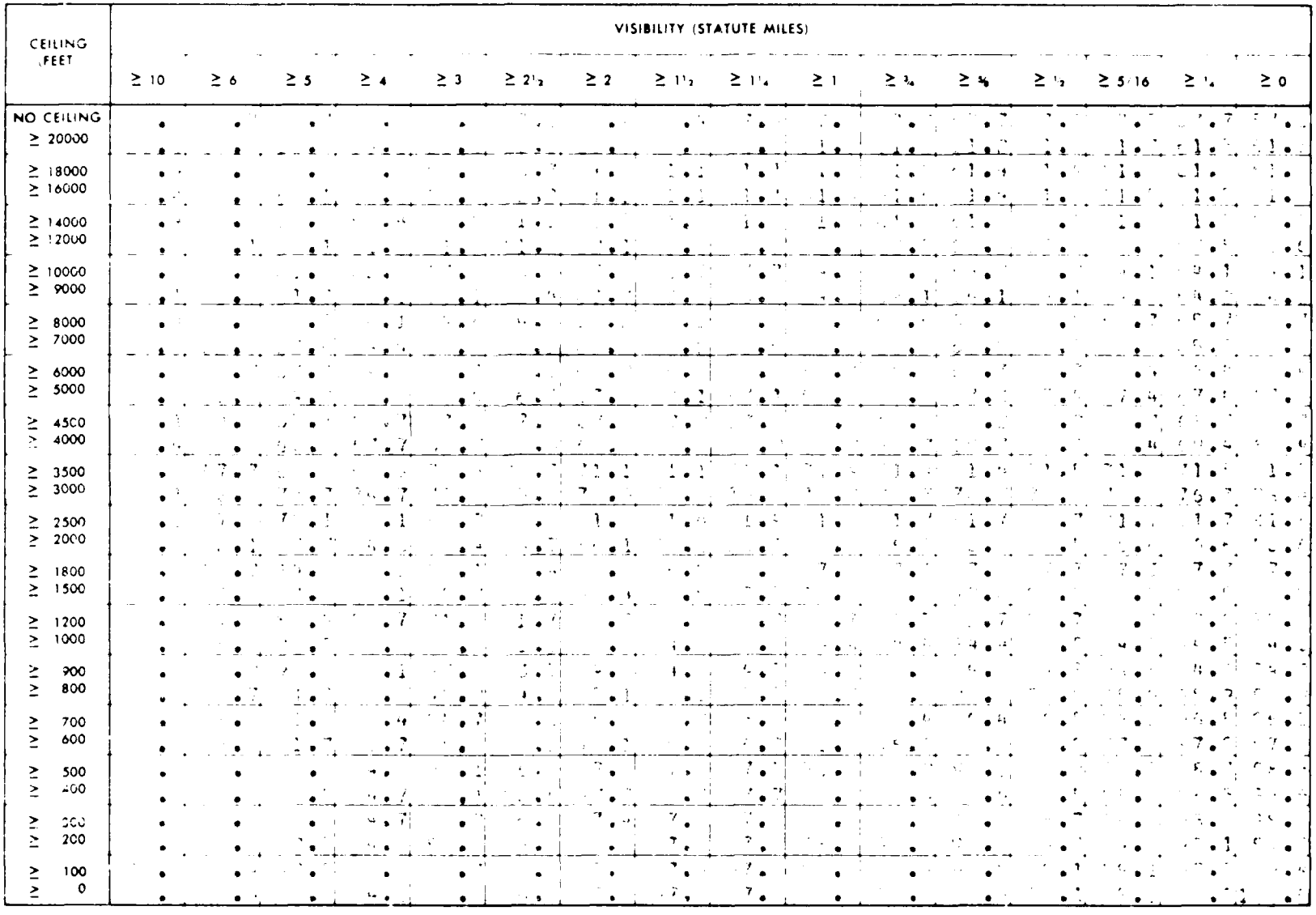
DIRNAVOCEANMET [illegible]/OS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

HOURS (L.S.T.) _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS _____

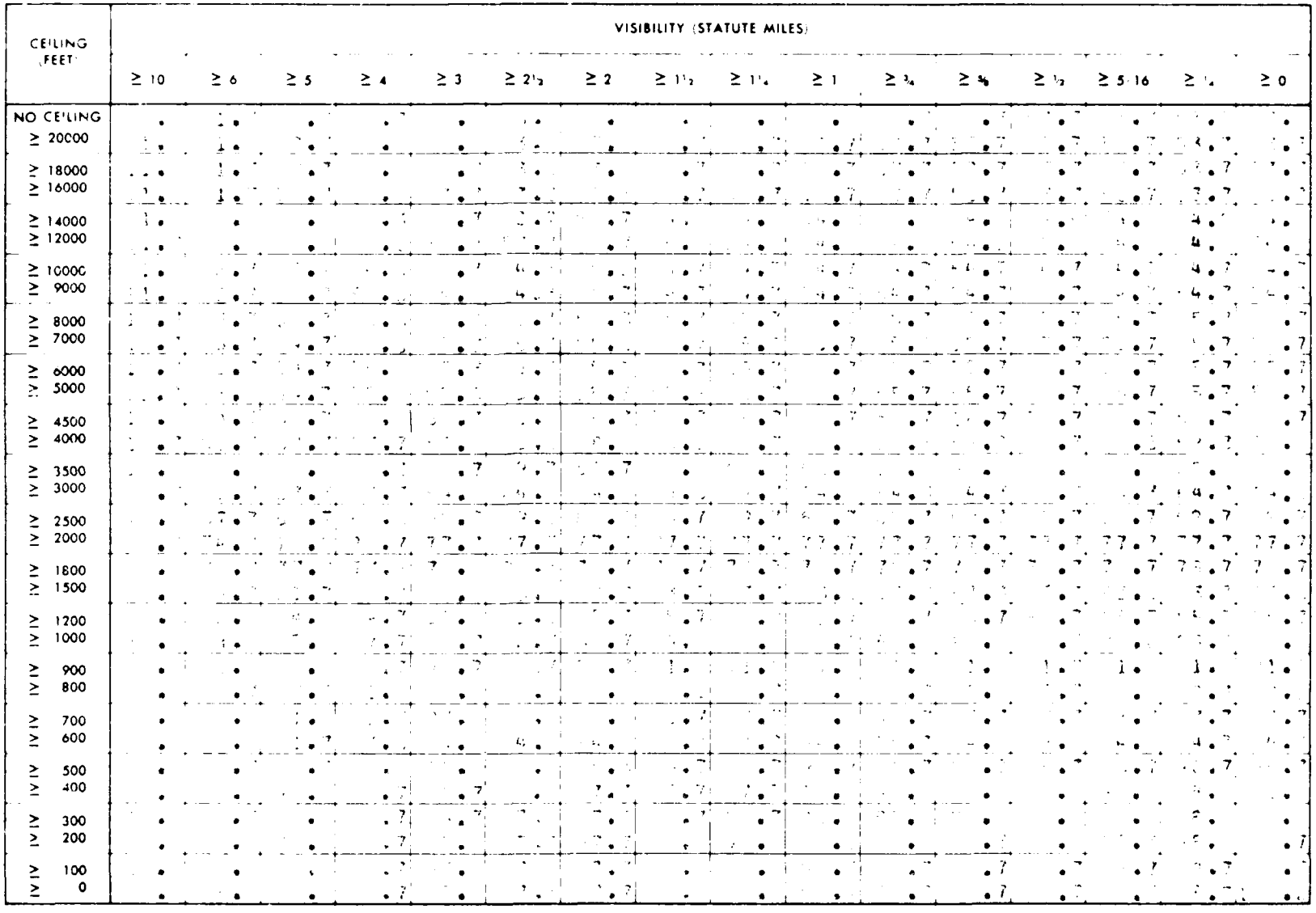
DD FORM 1 FEB 57 5605

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L S T



TOTAL NUMBER OF OBSERVATIONS

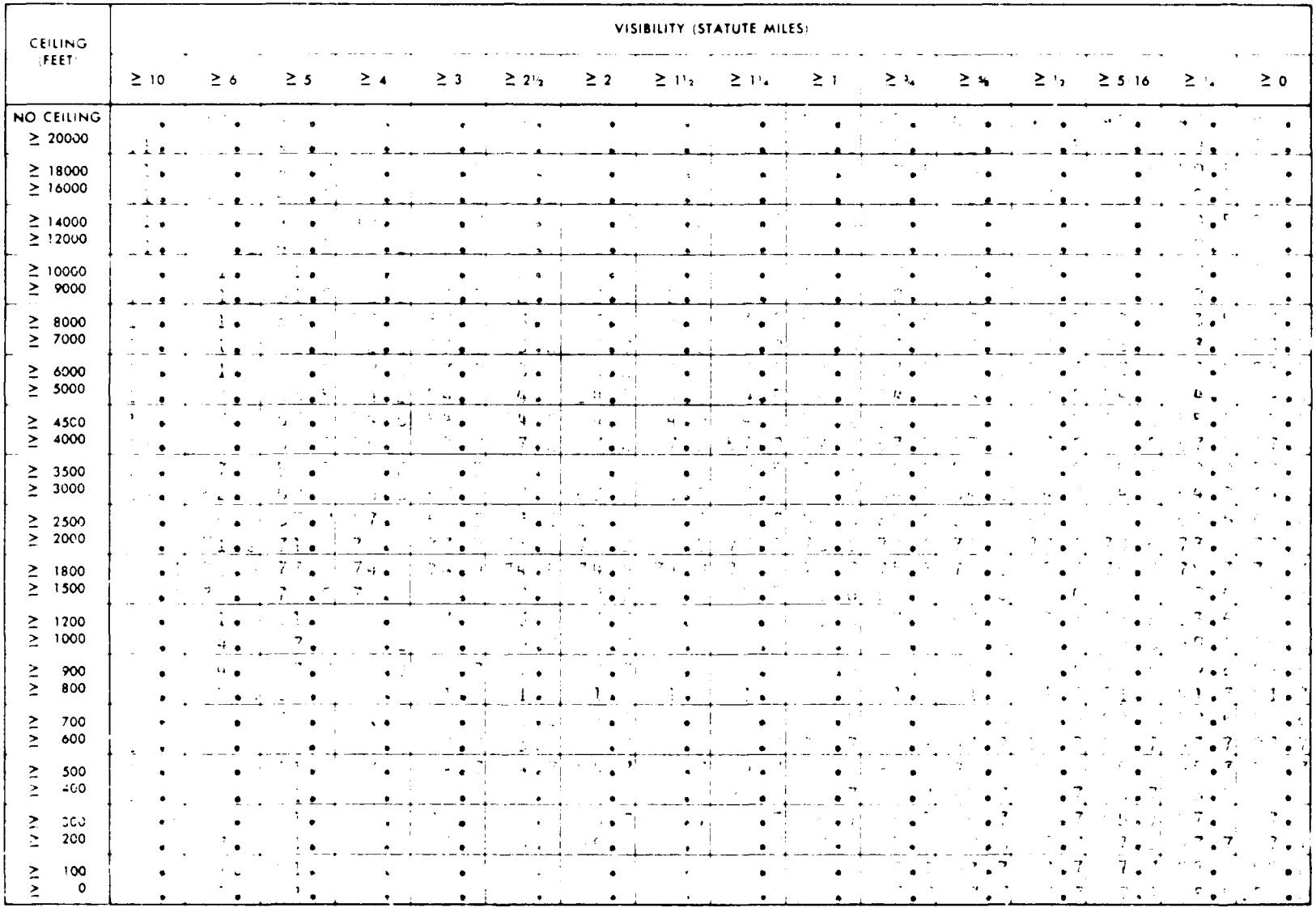
DIRNAVOCEANVEST 5705

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)



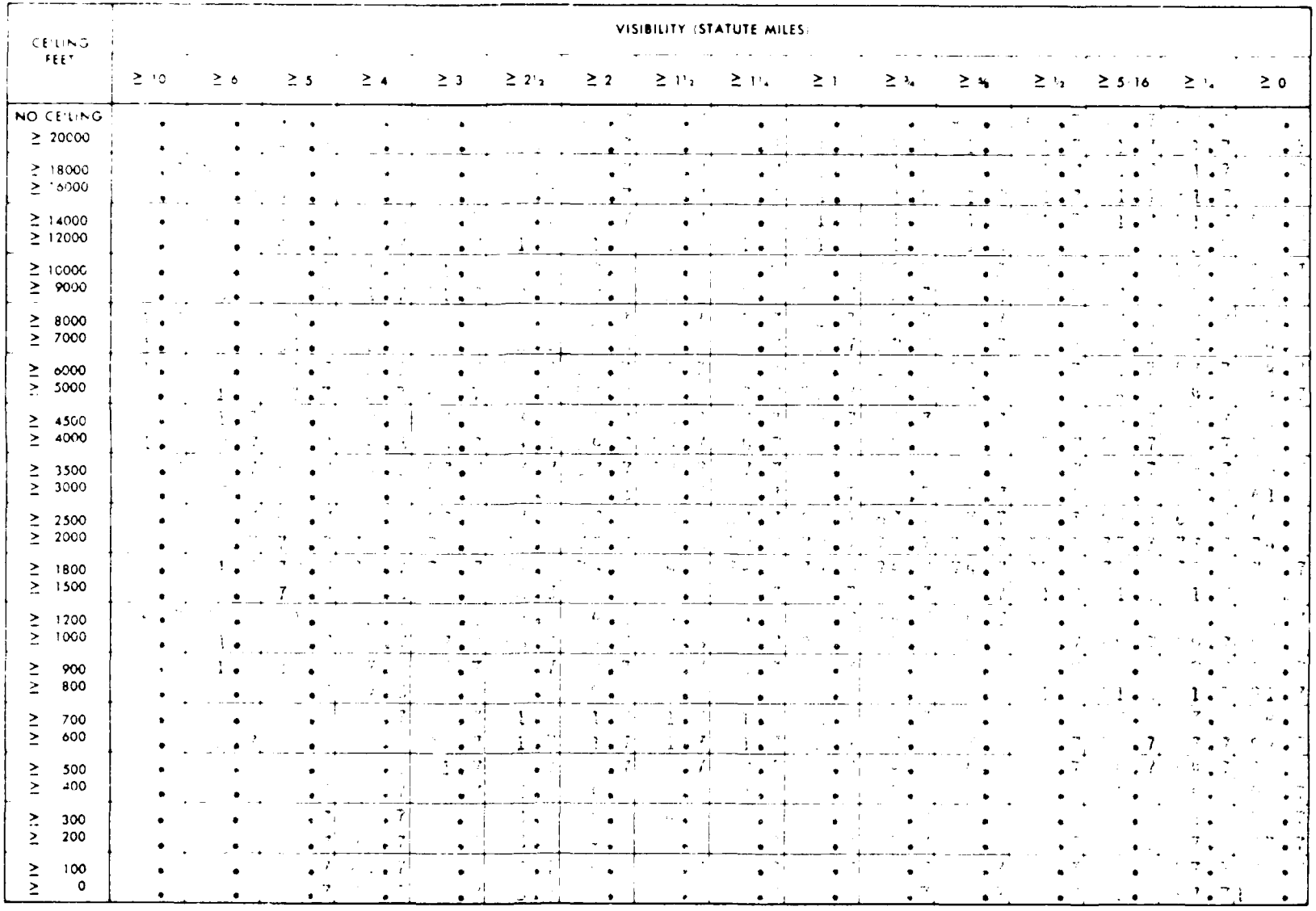
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L S T



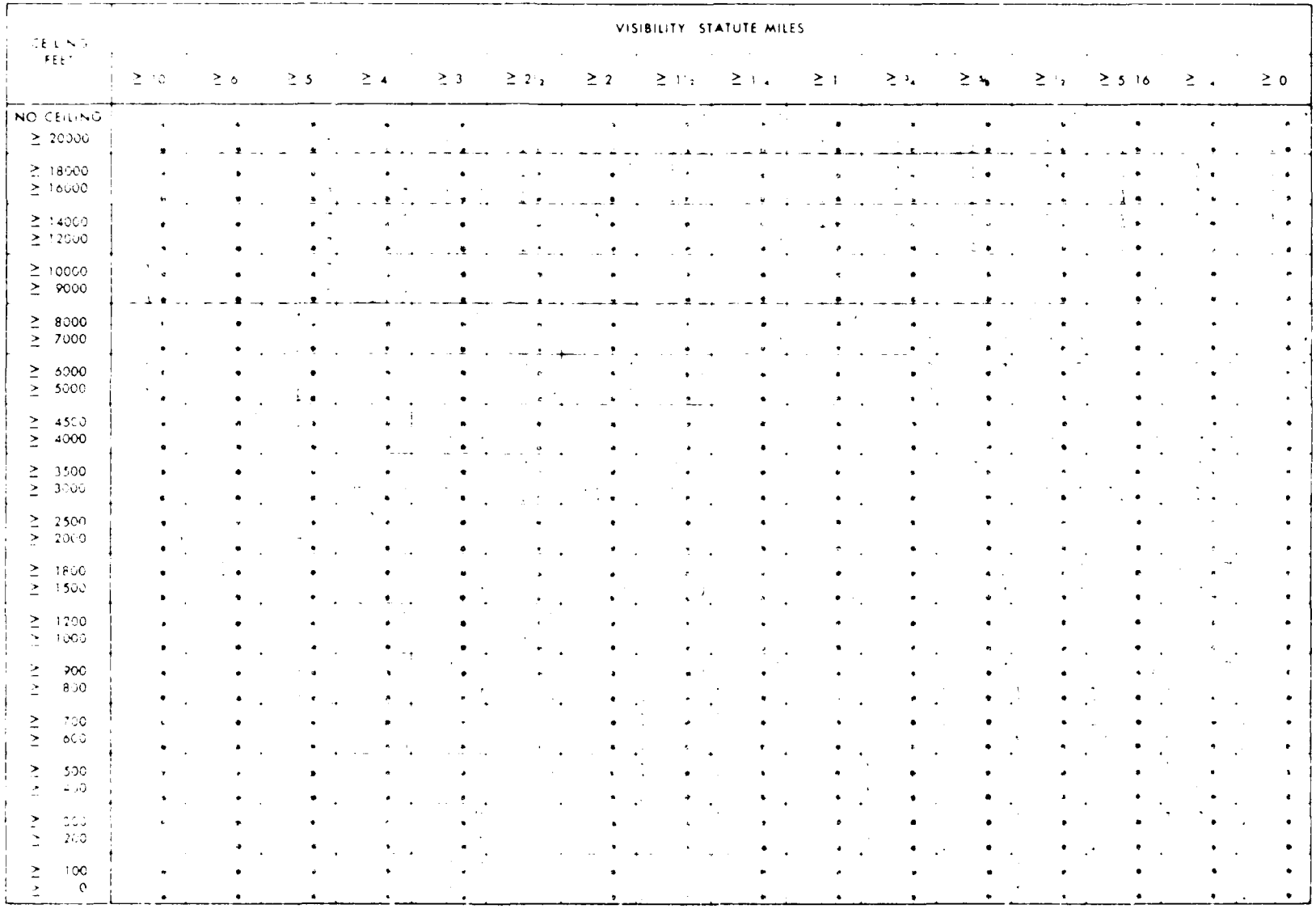
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)



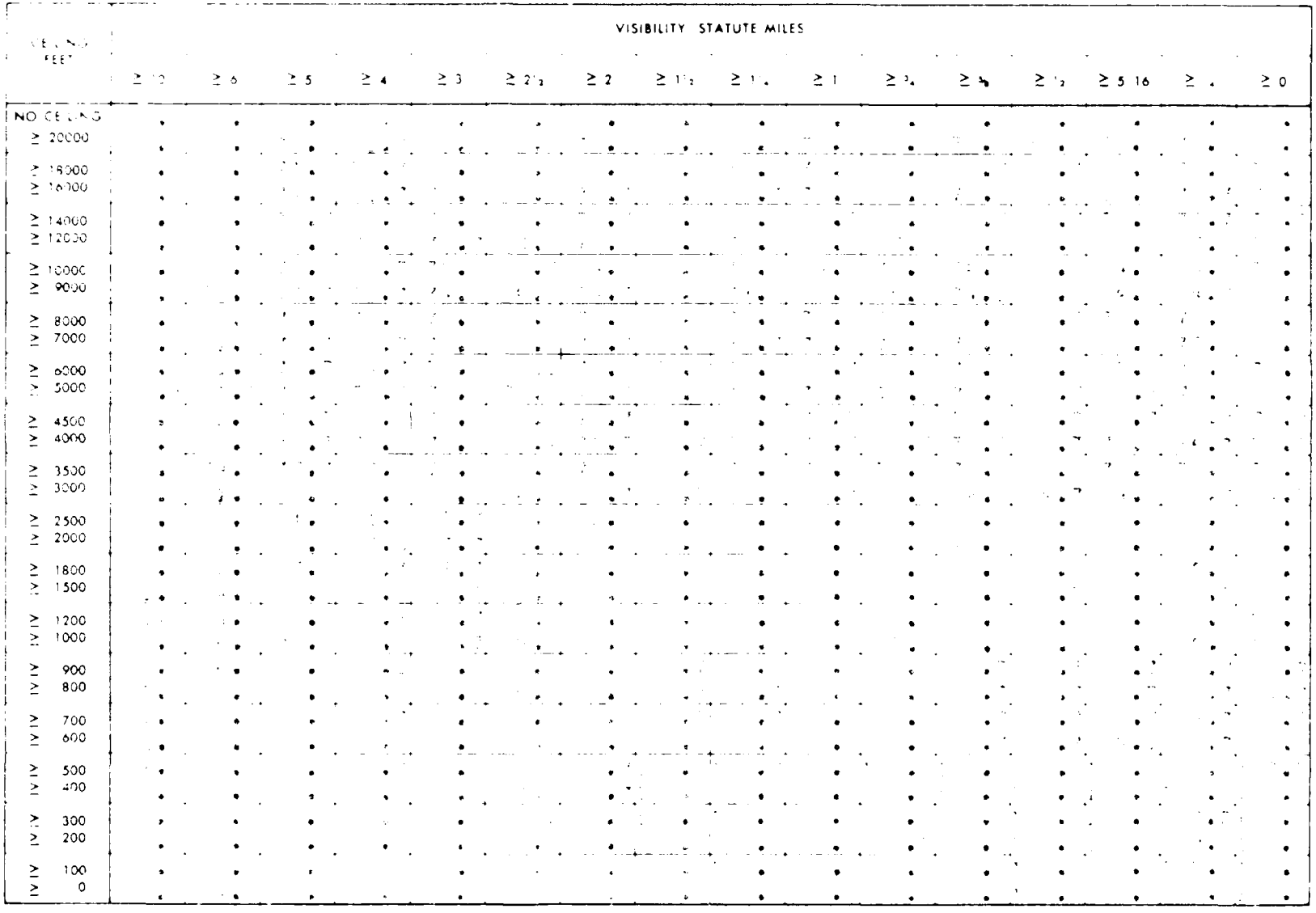
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (LST)

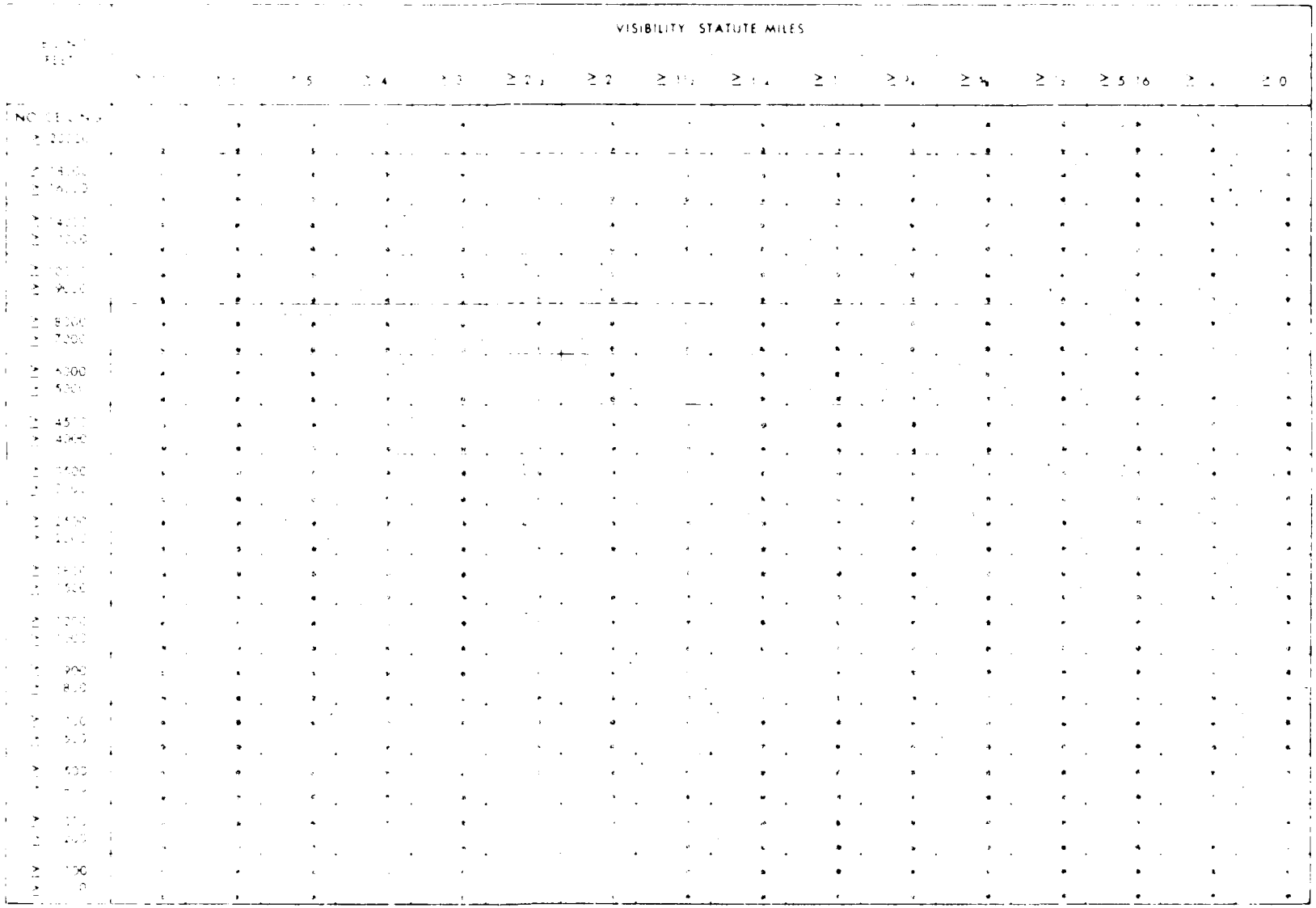
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



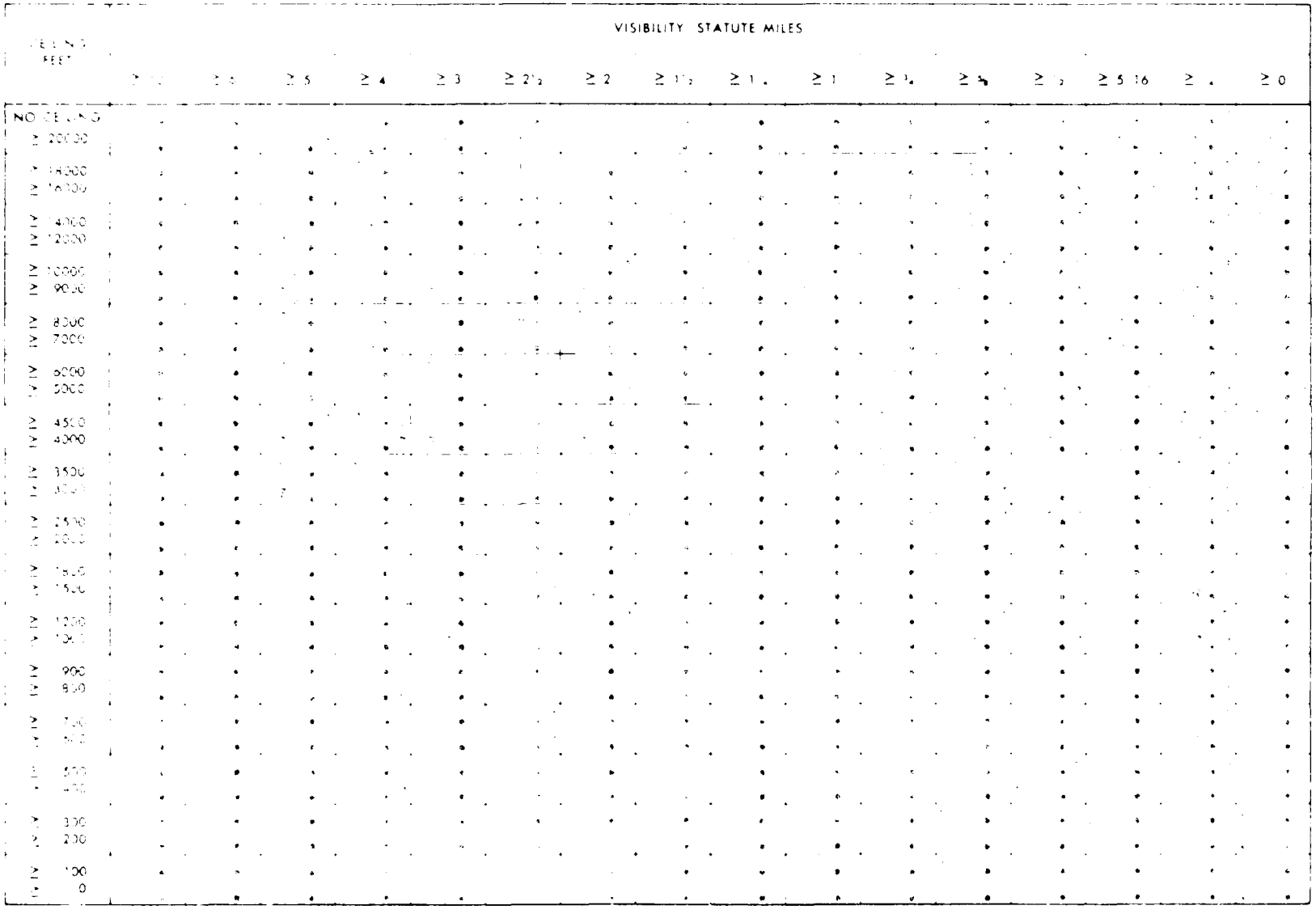
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION _____ STATE NAME _____ YEARS _____ MONTH _____

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS _____

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
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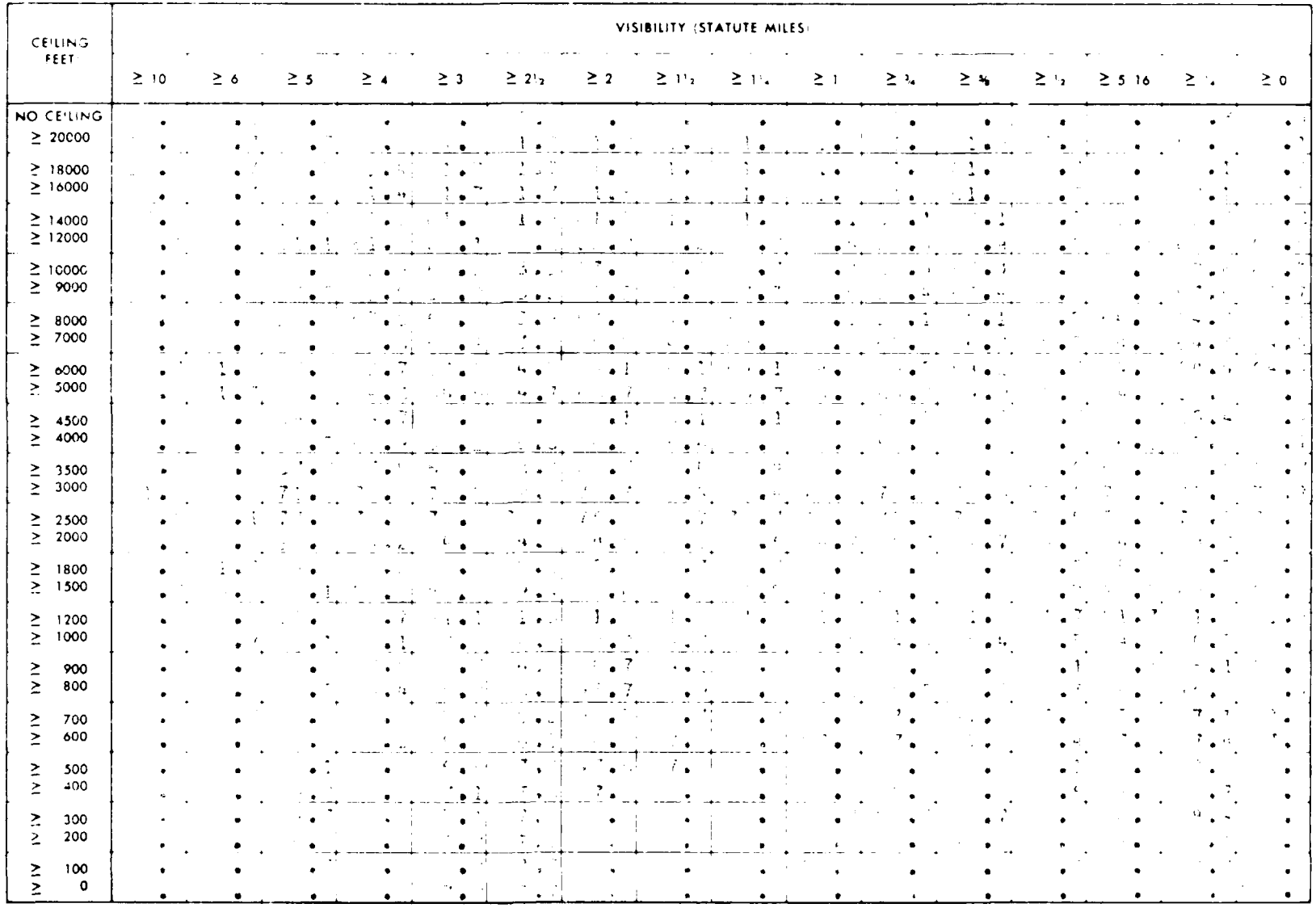
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



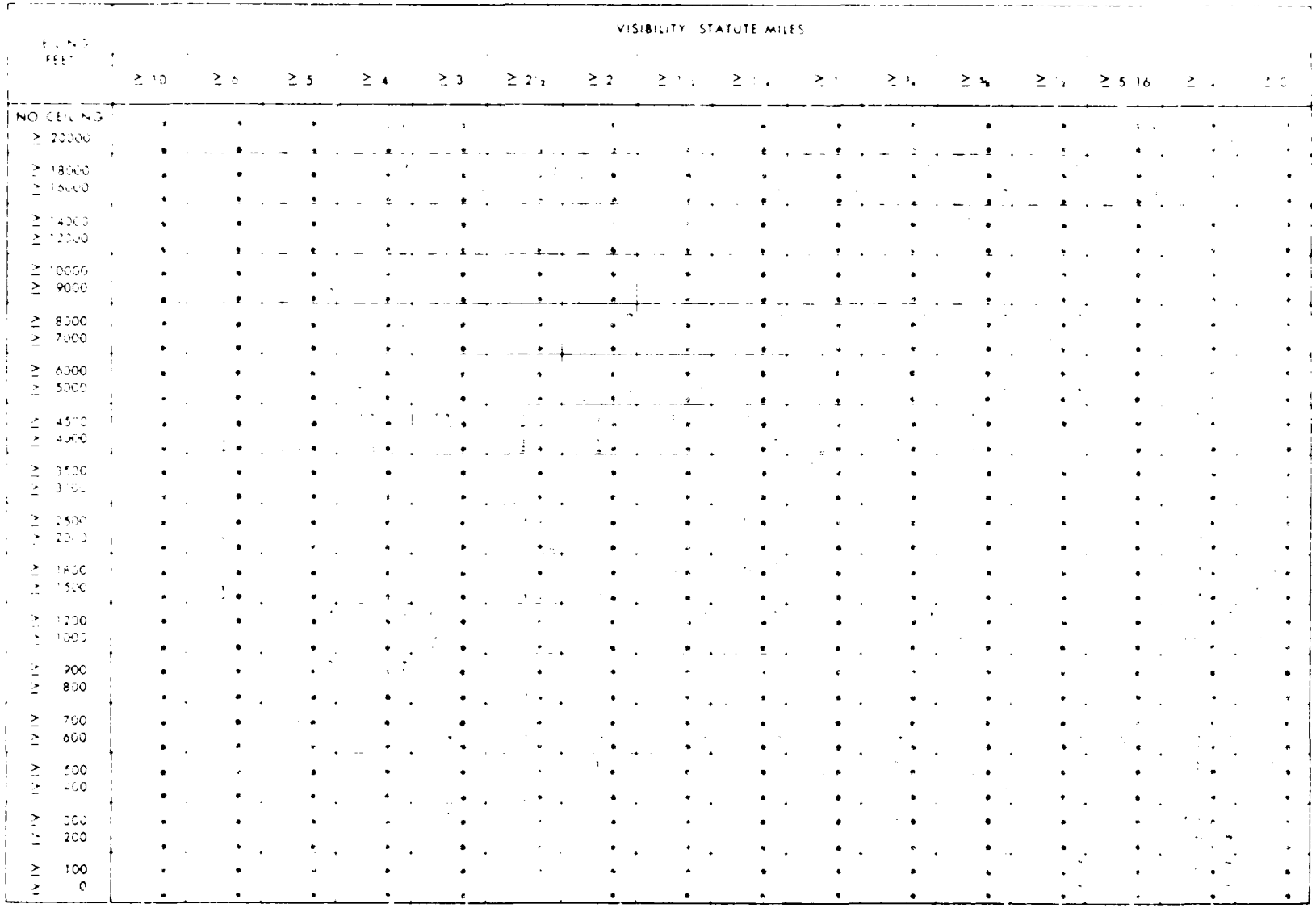
TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 5110S

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

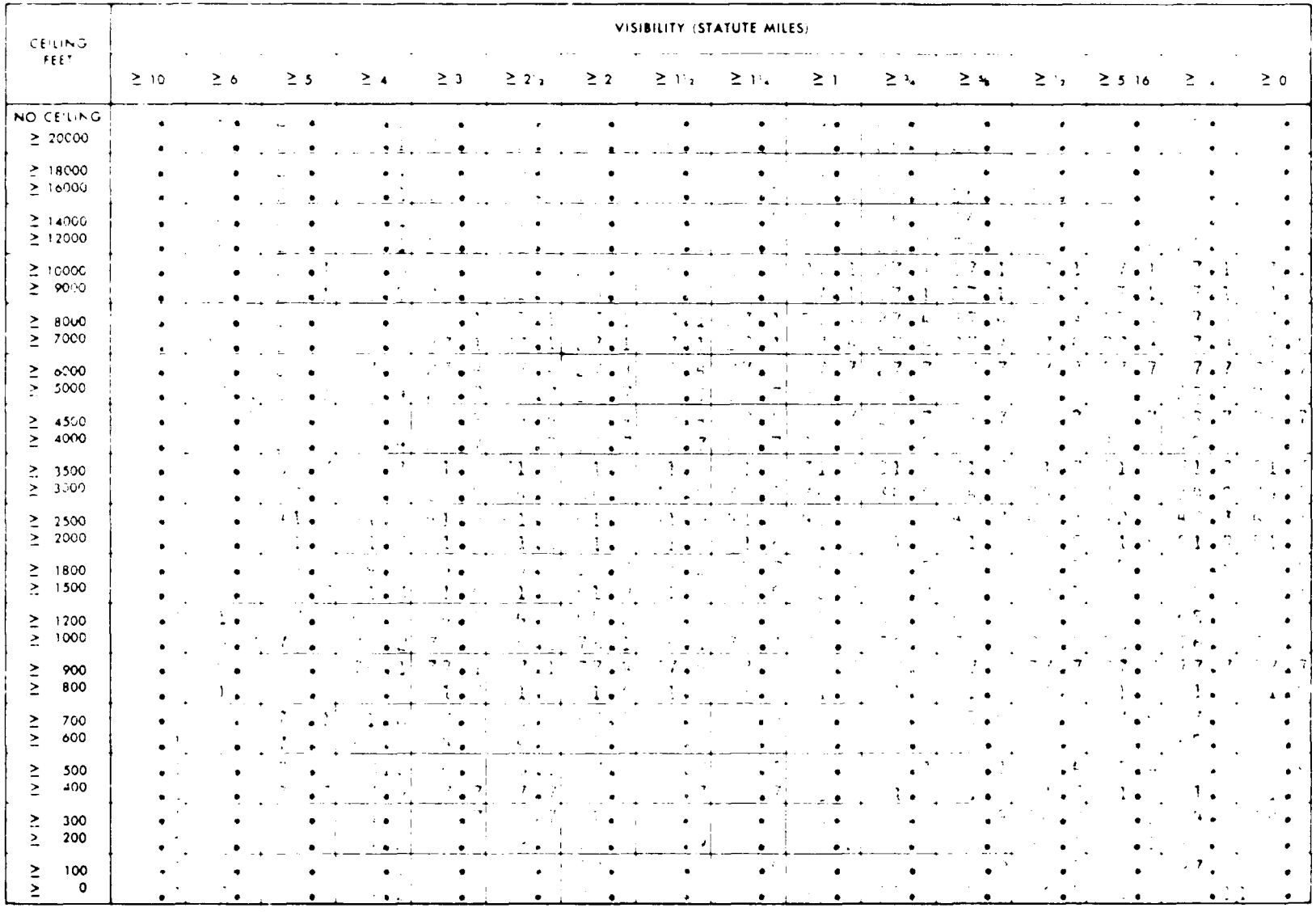


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



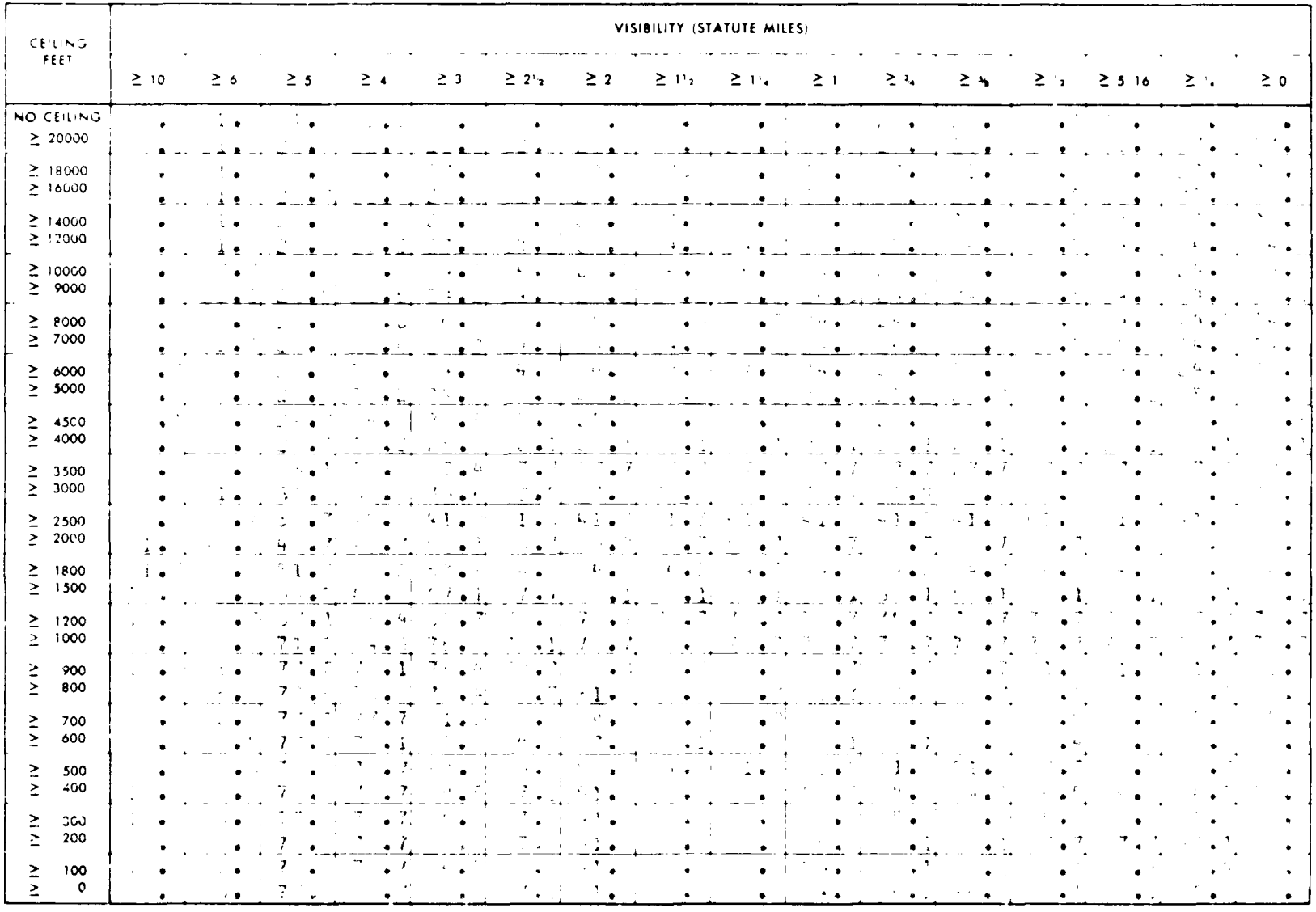
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.



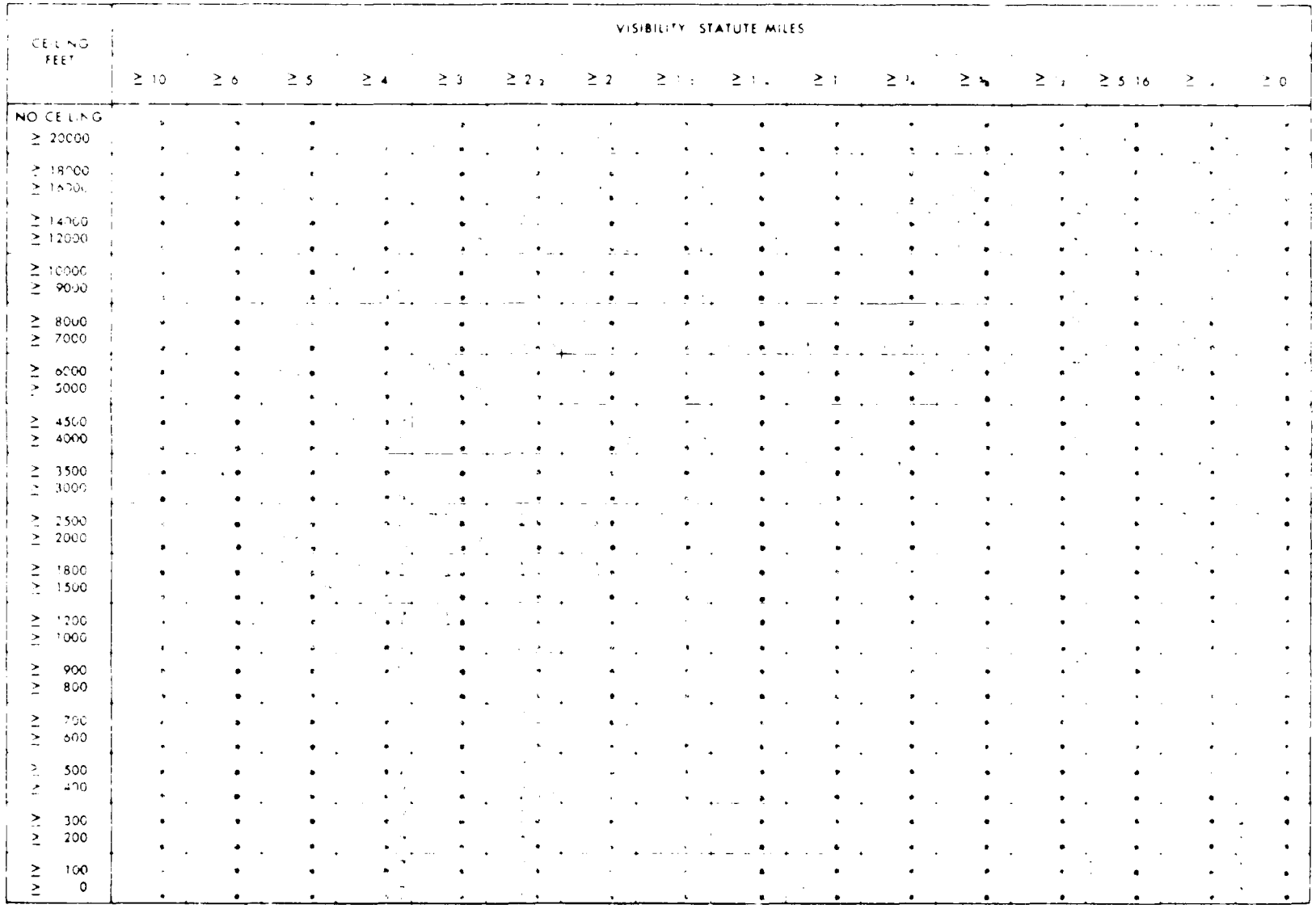
TOTAL NUMBER OF OBSERVATIONS

DEPARTMENT OF [illegible]

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



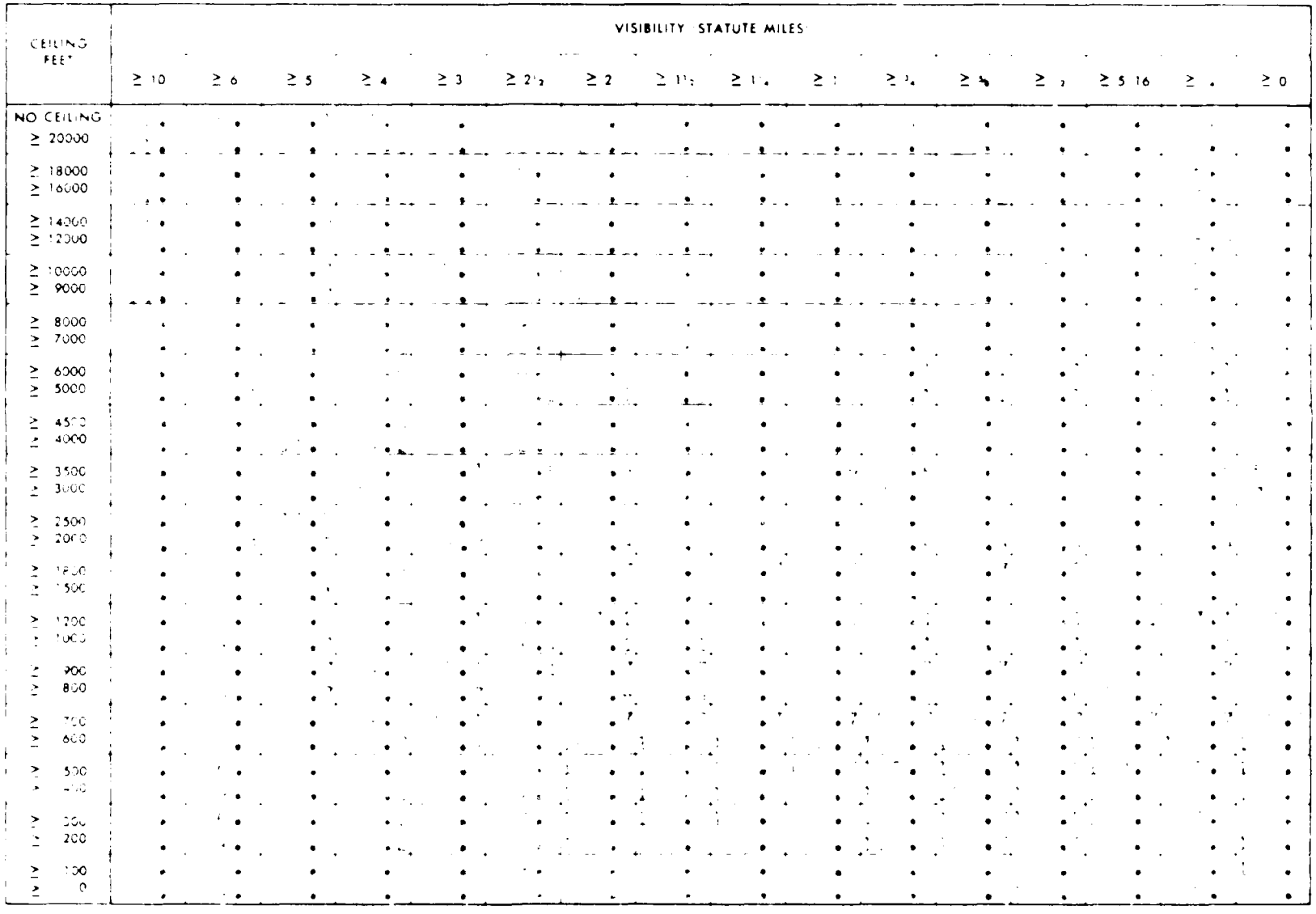
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

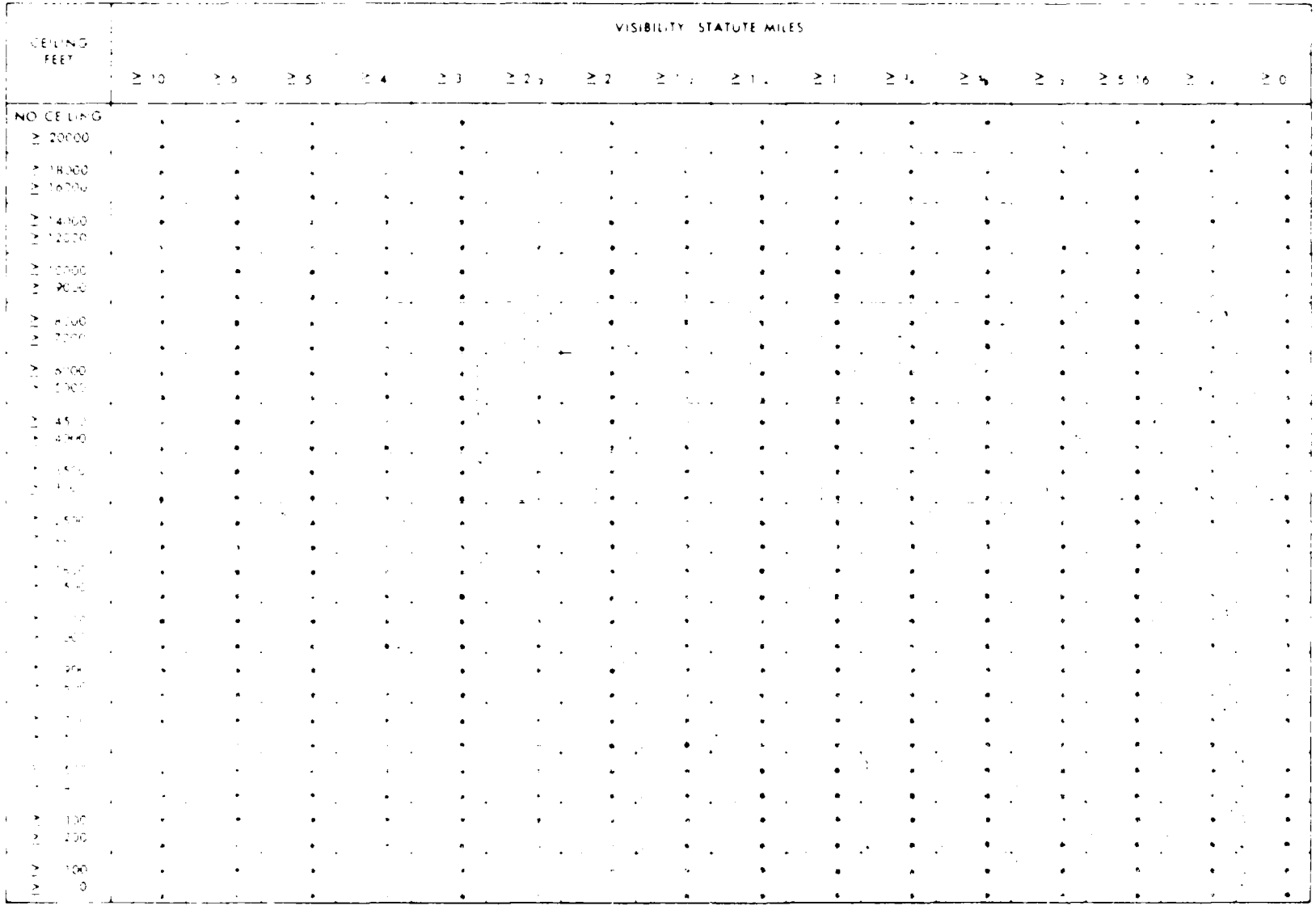


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



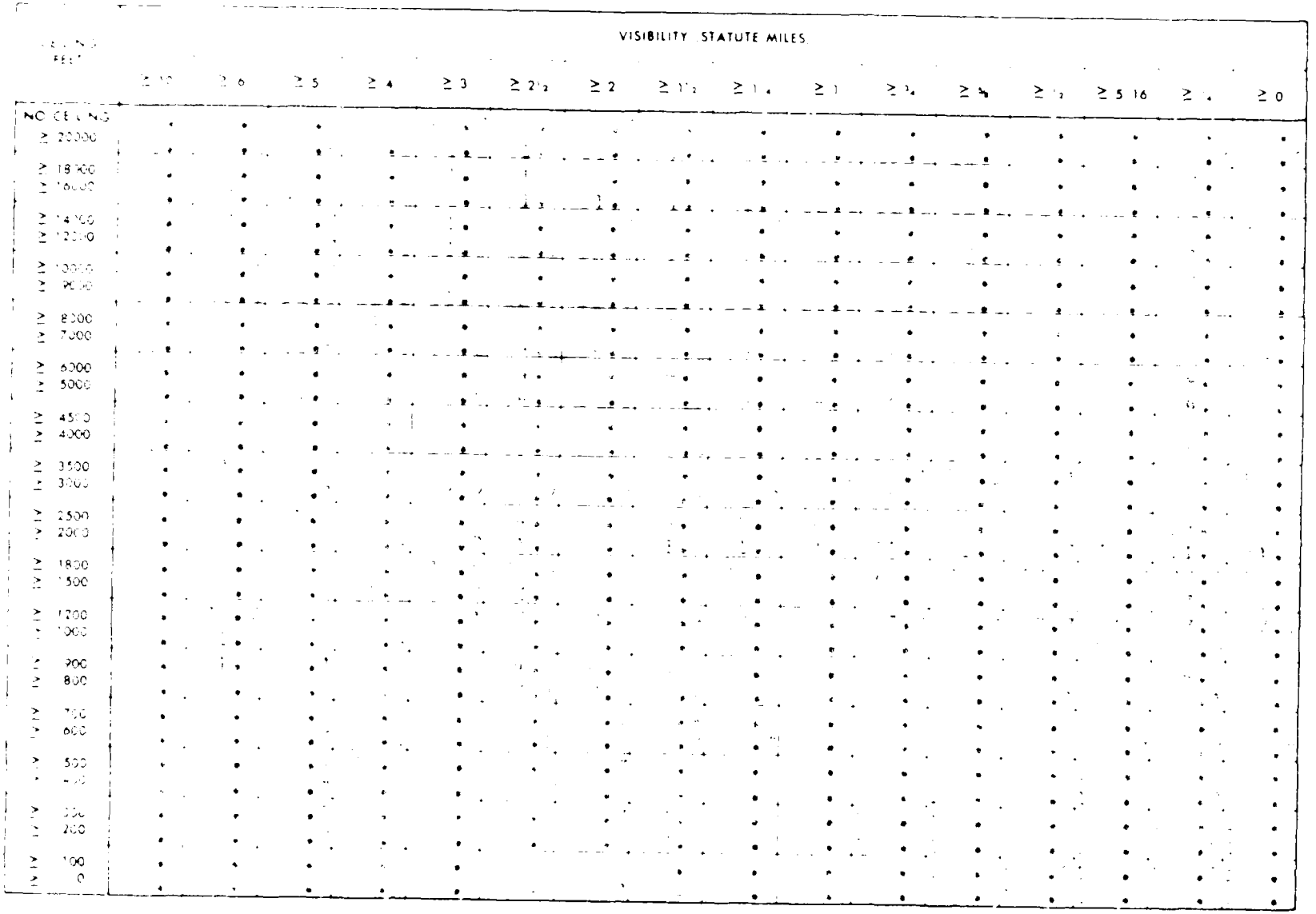
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRFNCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)



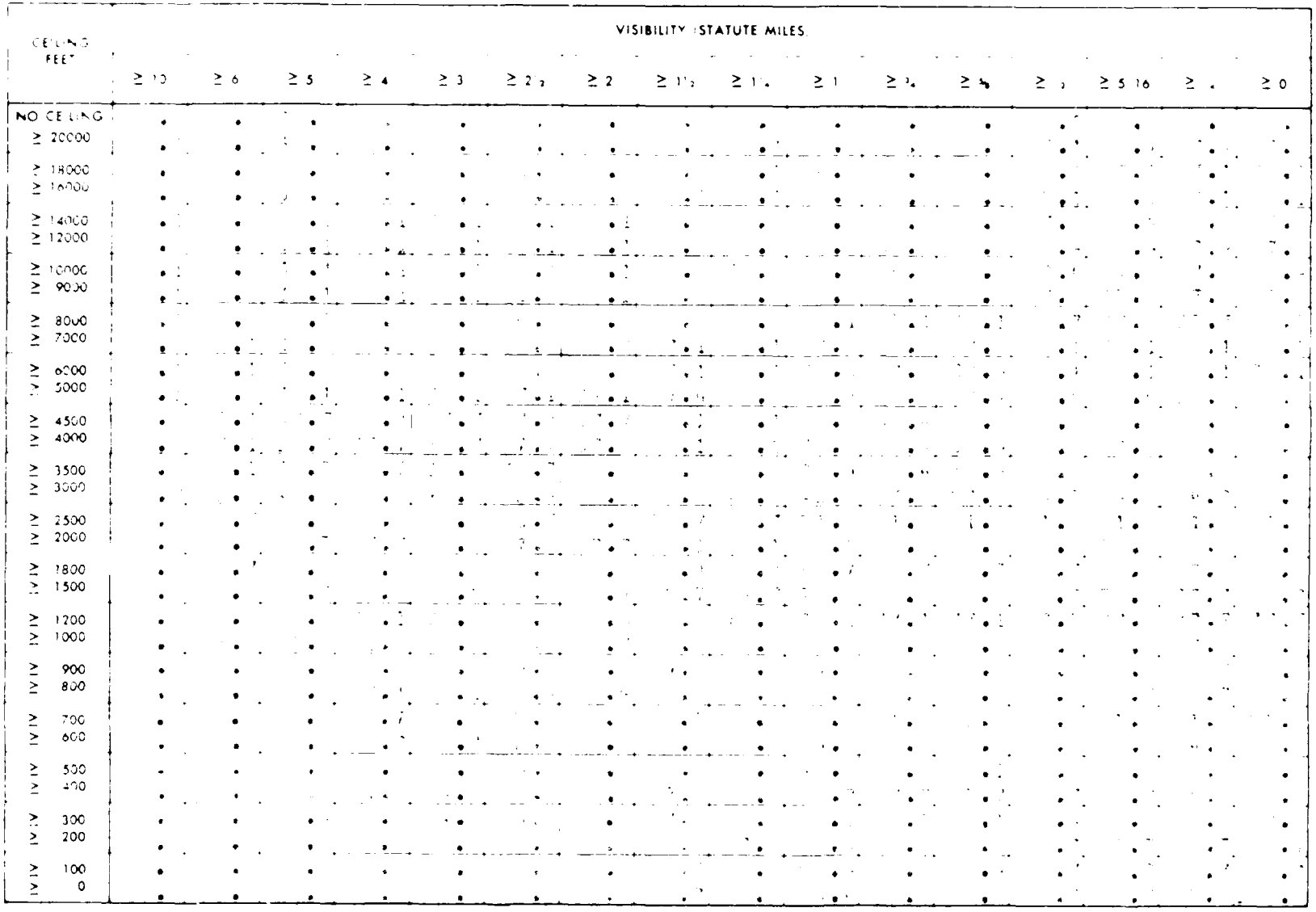
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST



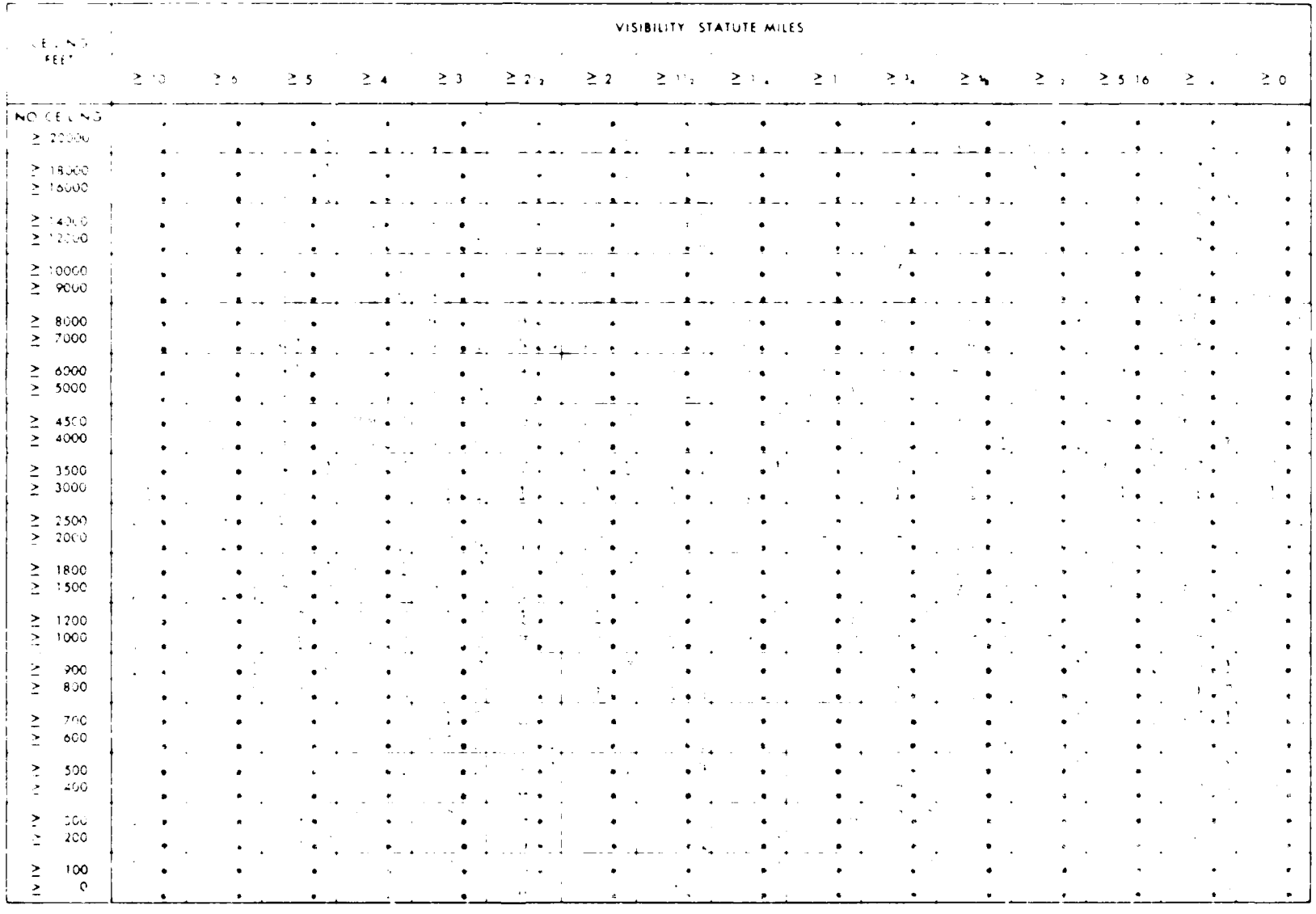
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

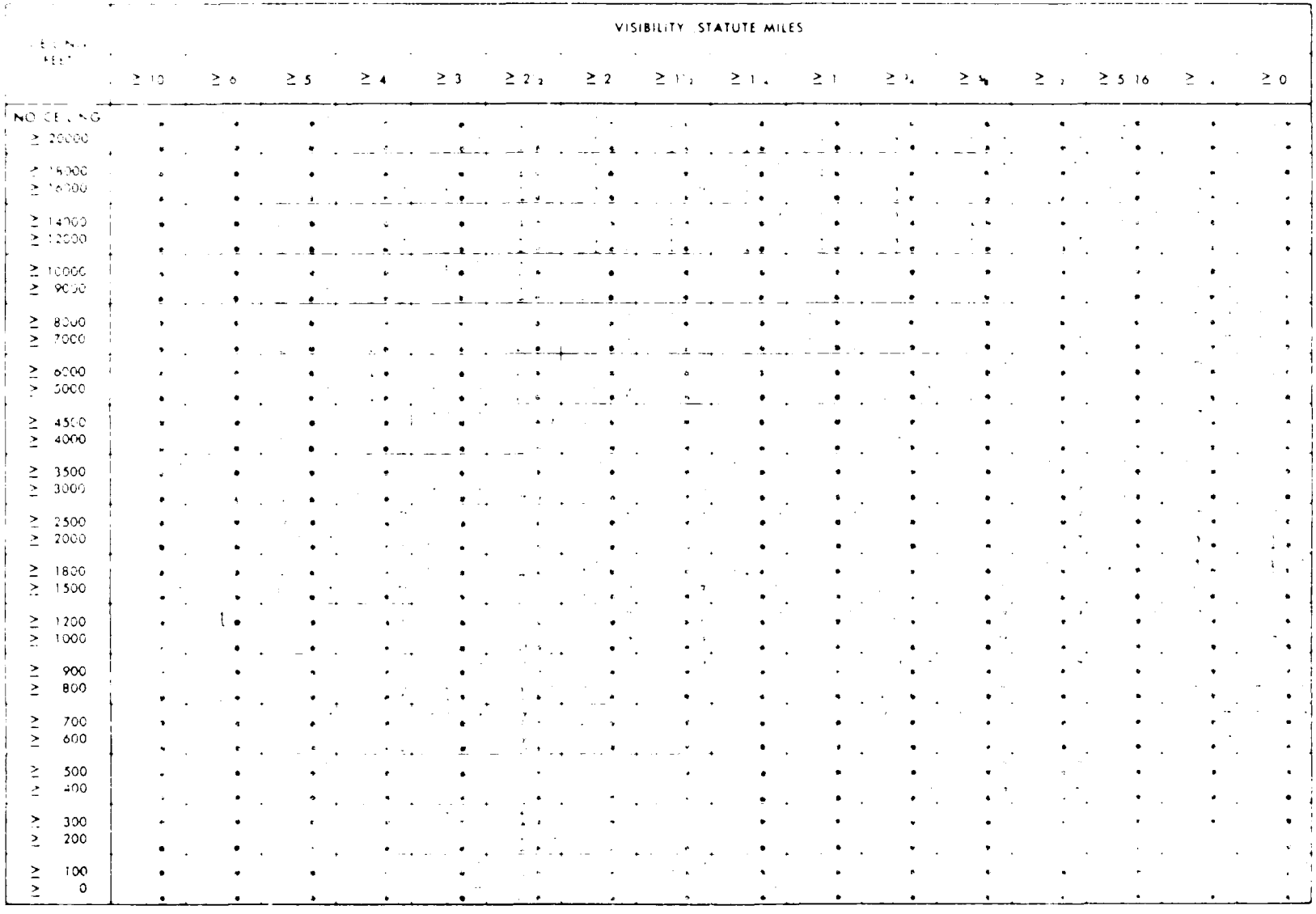


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

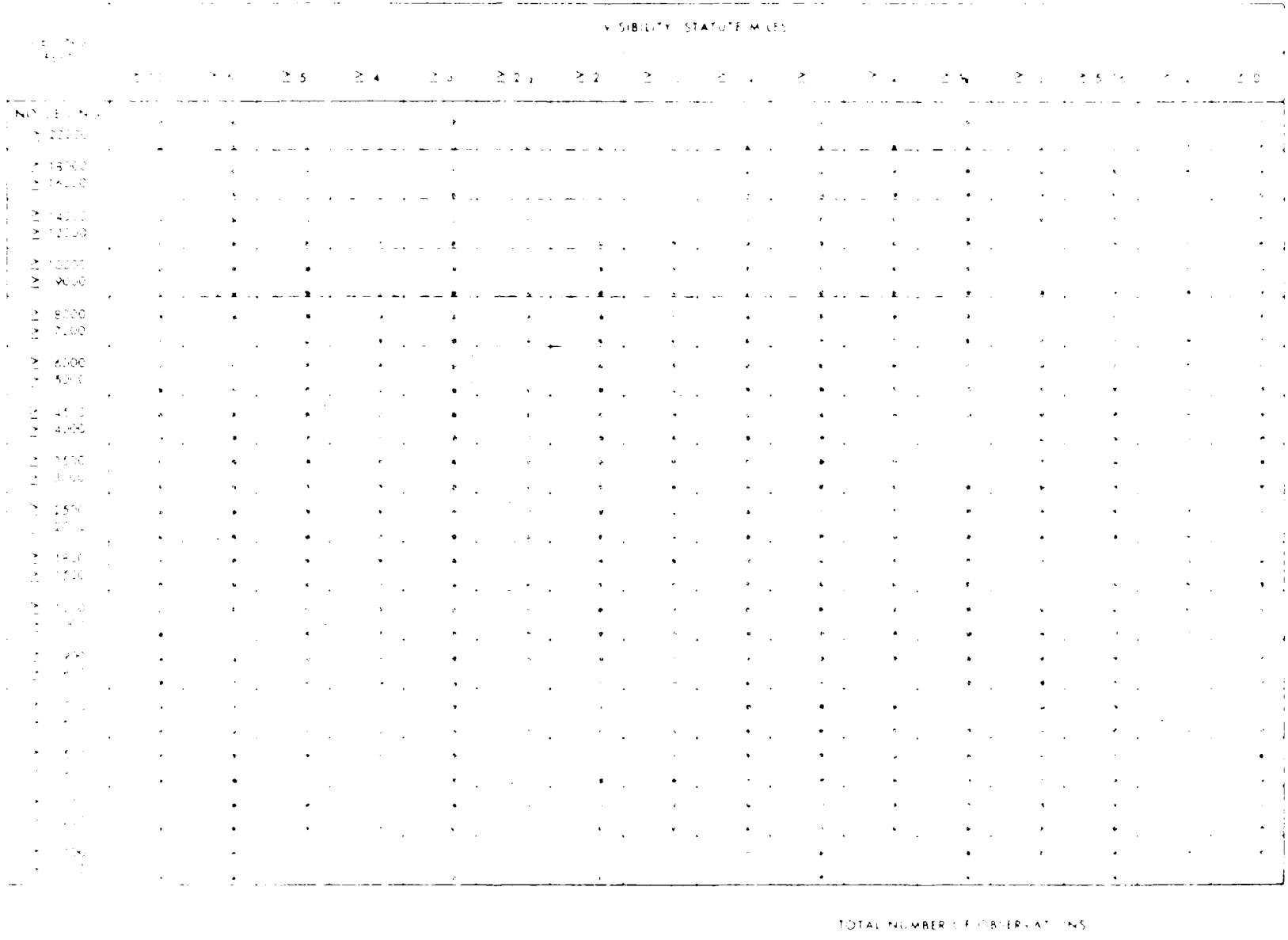
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



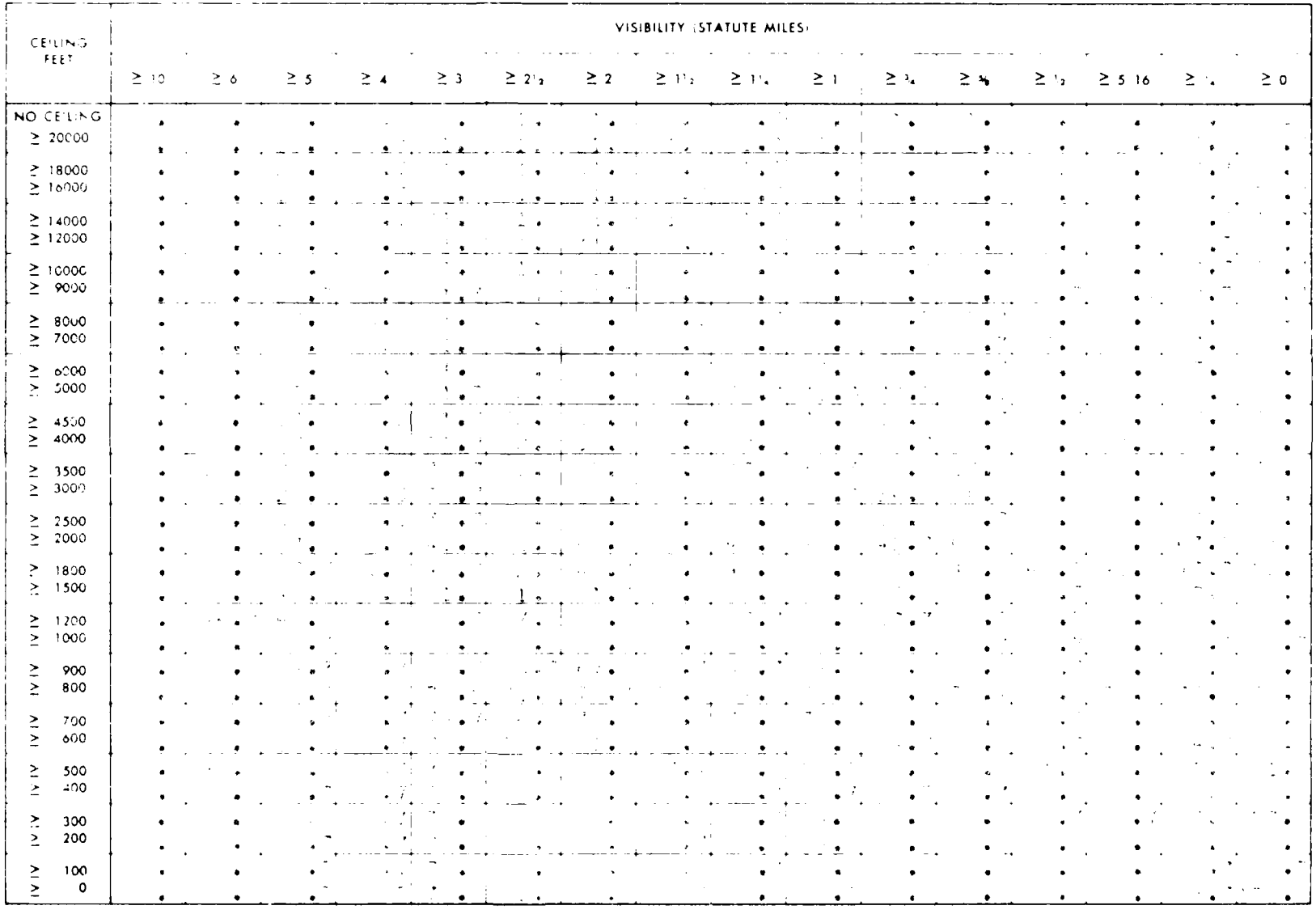
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

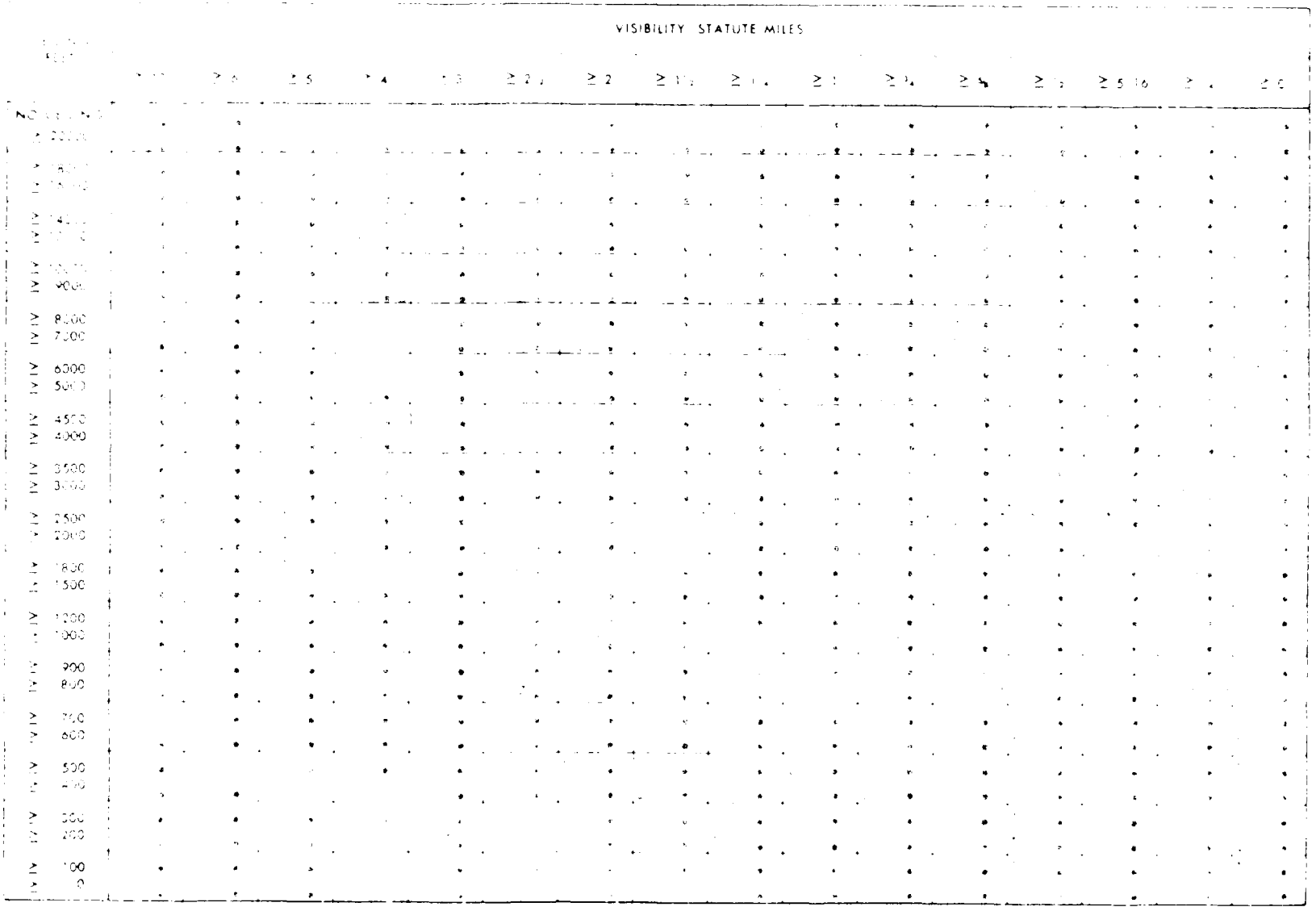
HOURS L.S.T.



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

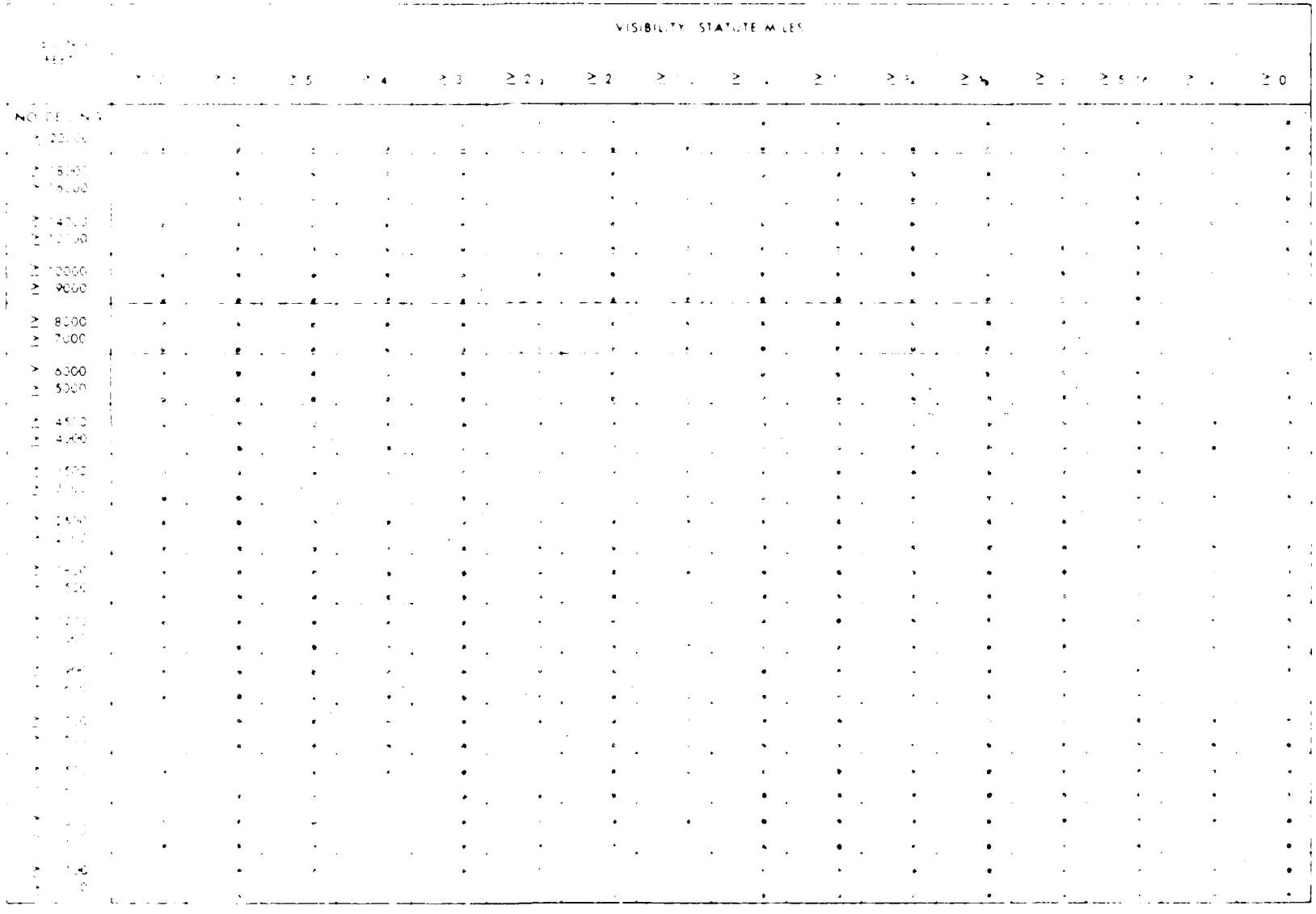
HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

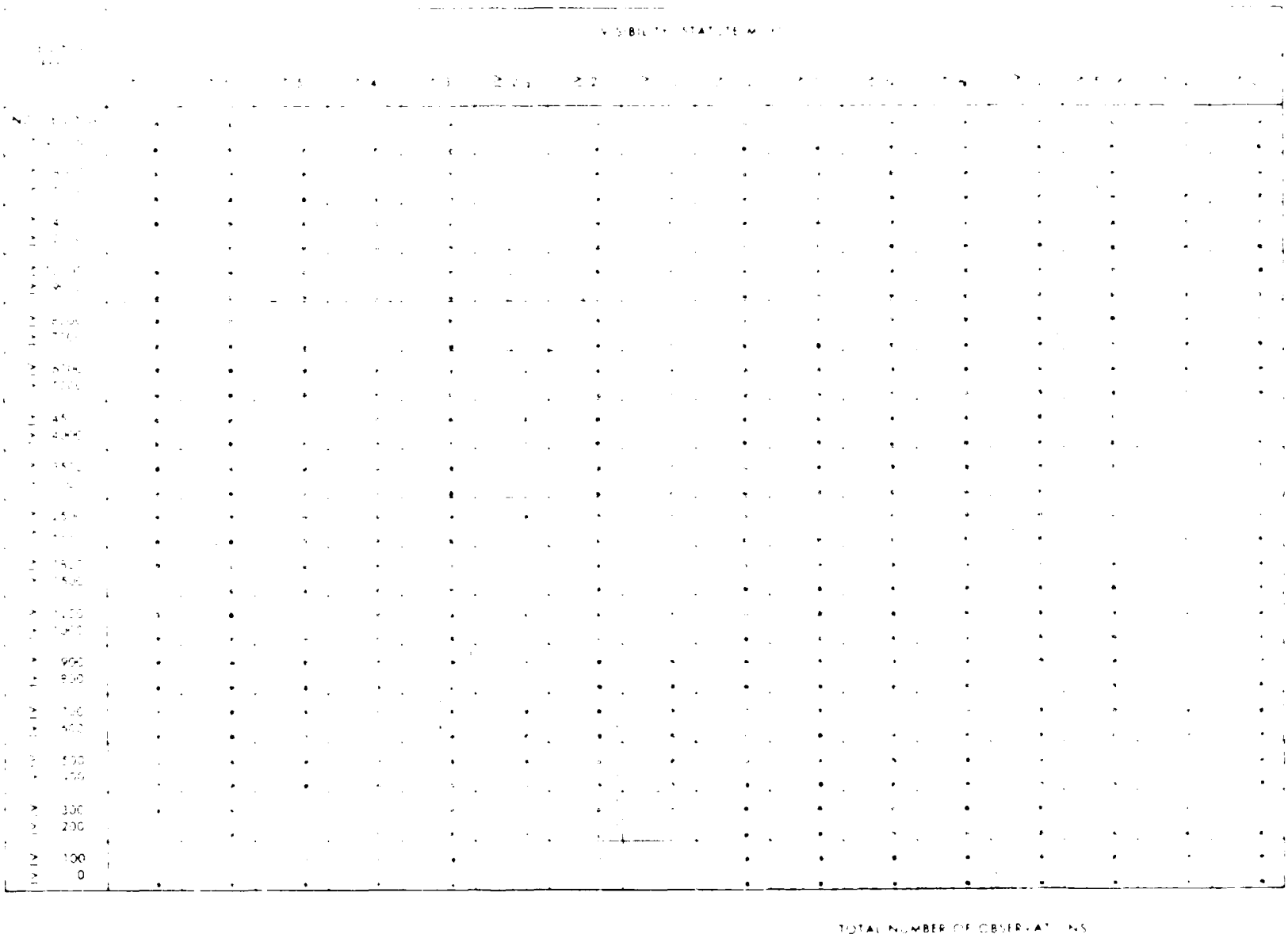
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



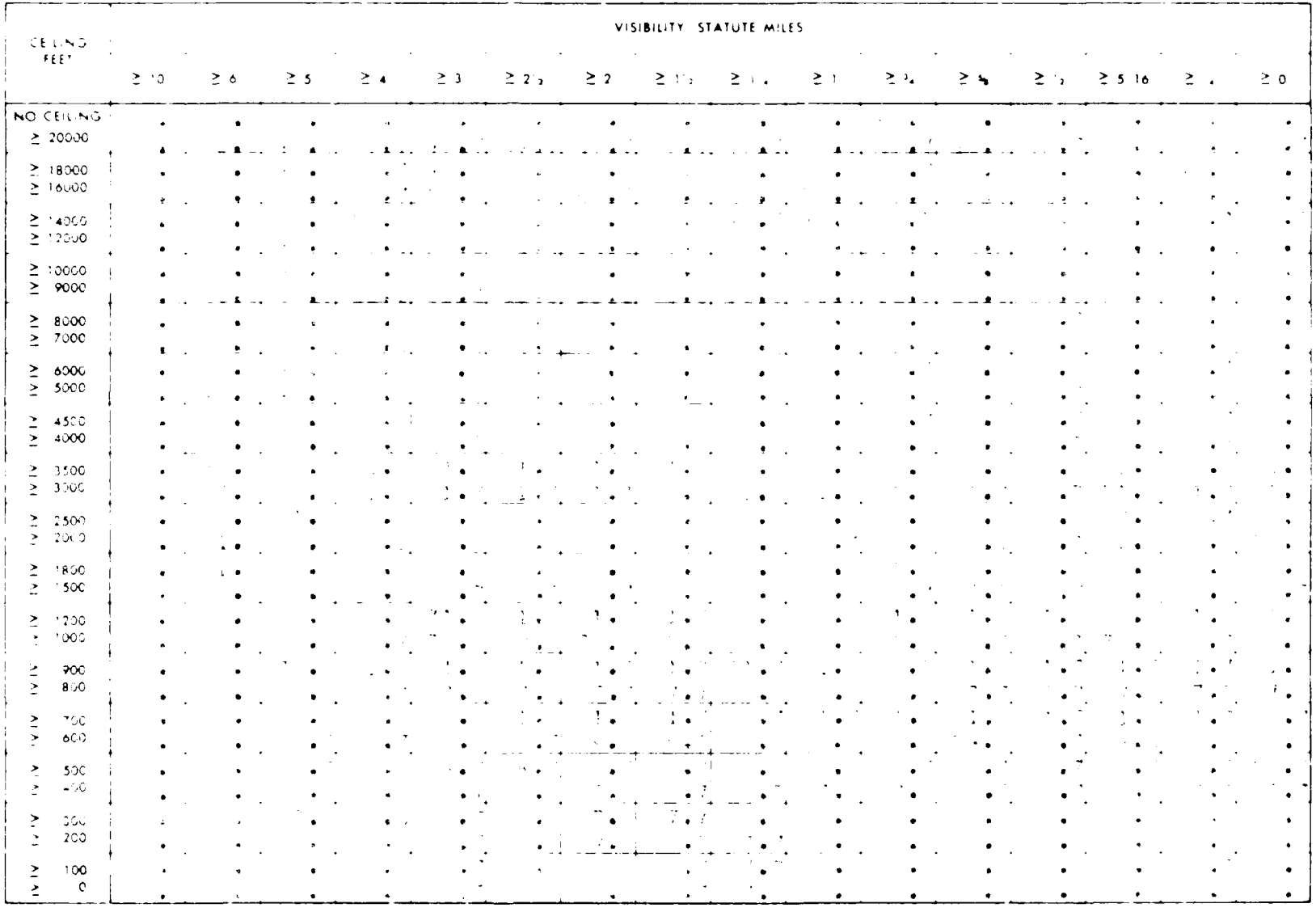
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST

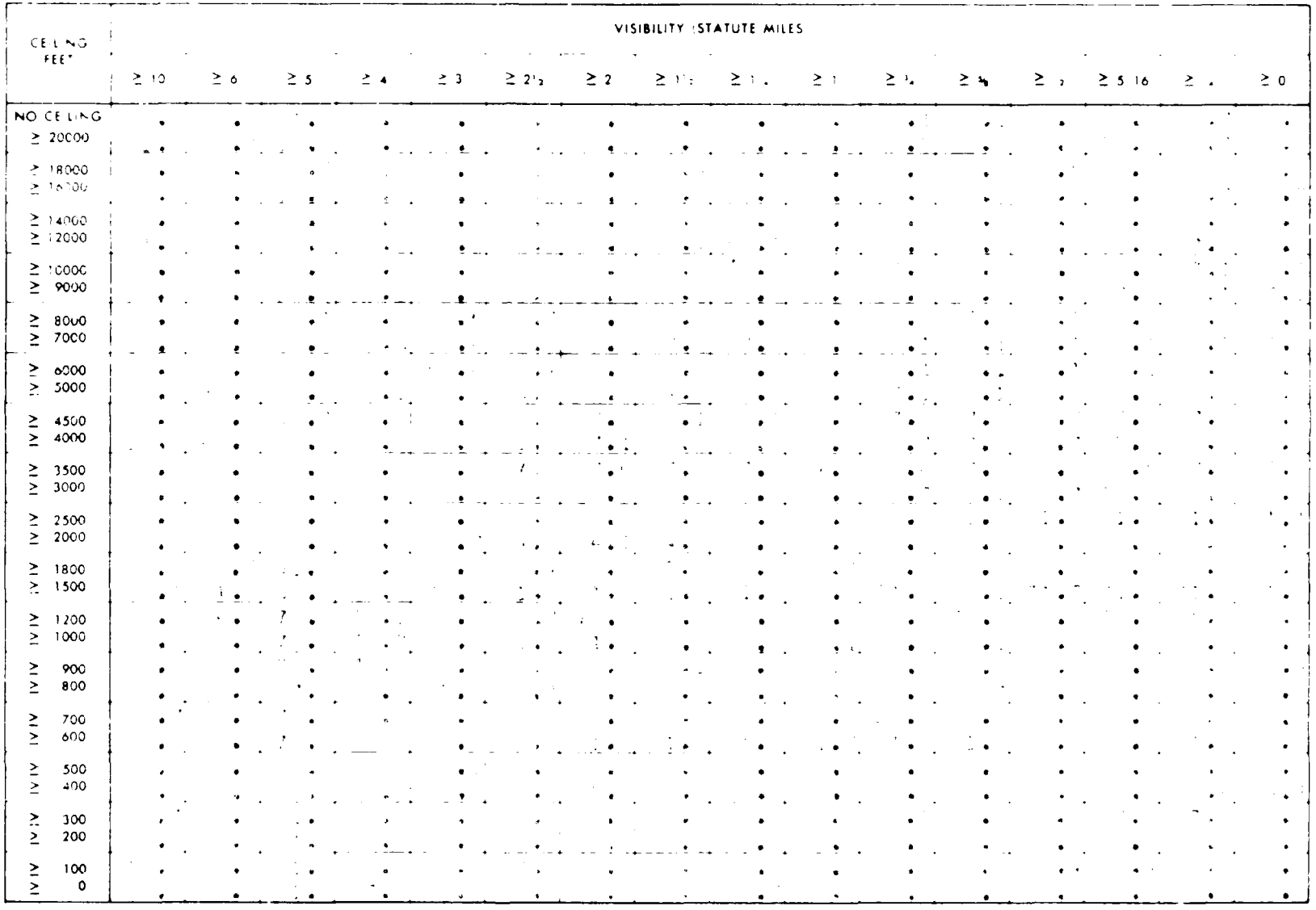


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



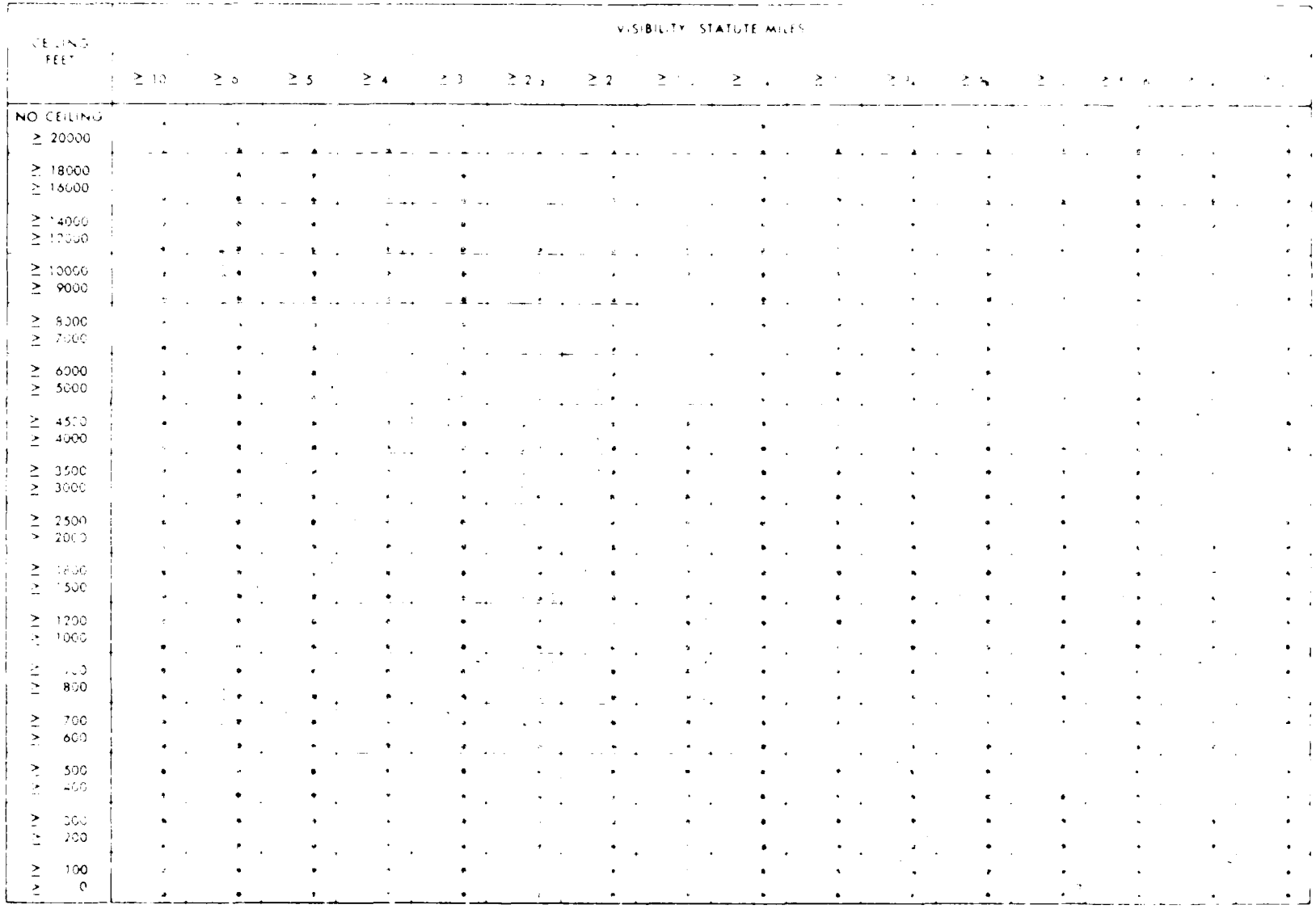
TOTAL NUMBER OF OBSERVATIONS

OPTIONAL CEILING SET

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

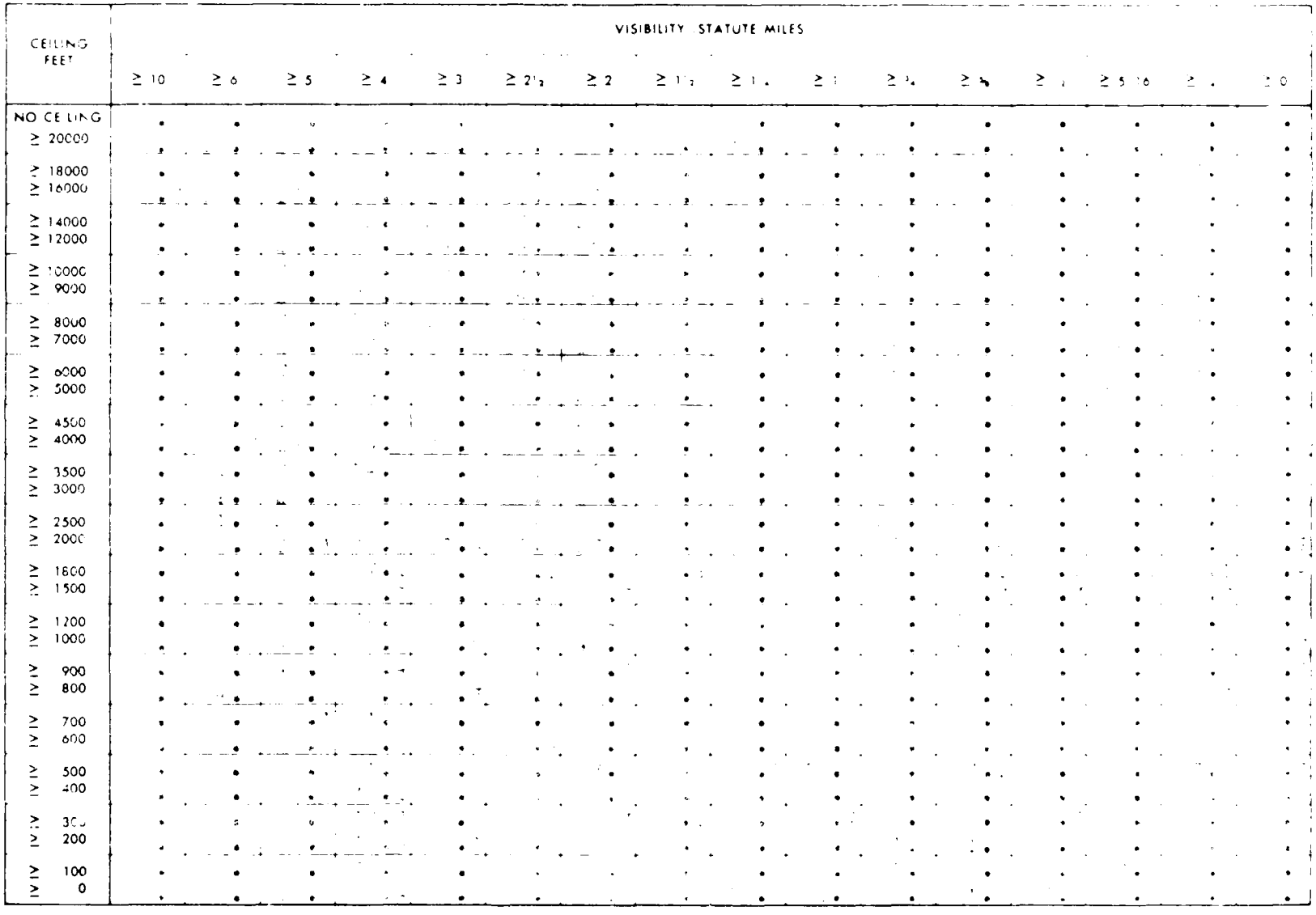


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

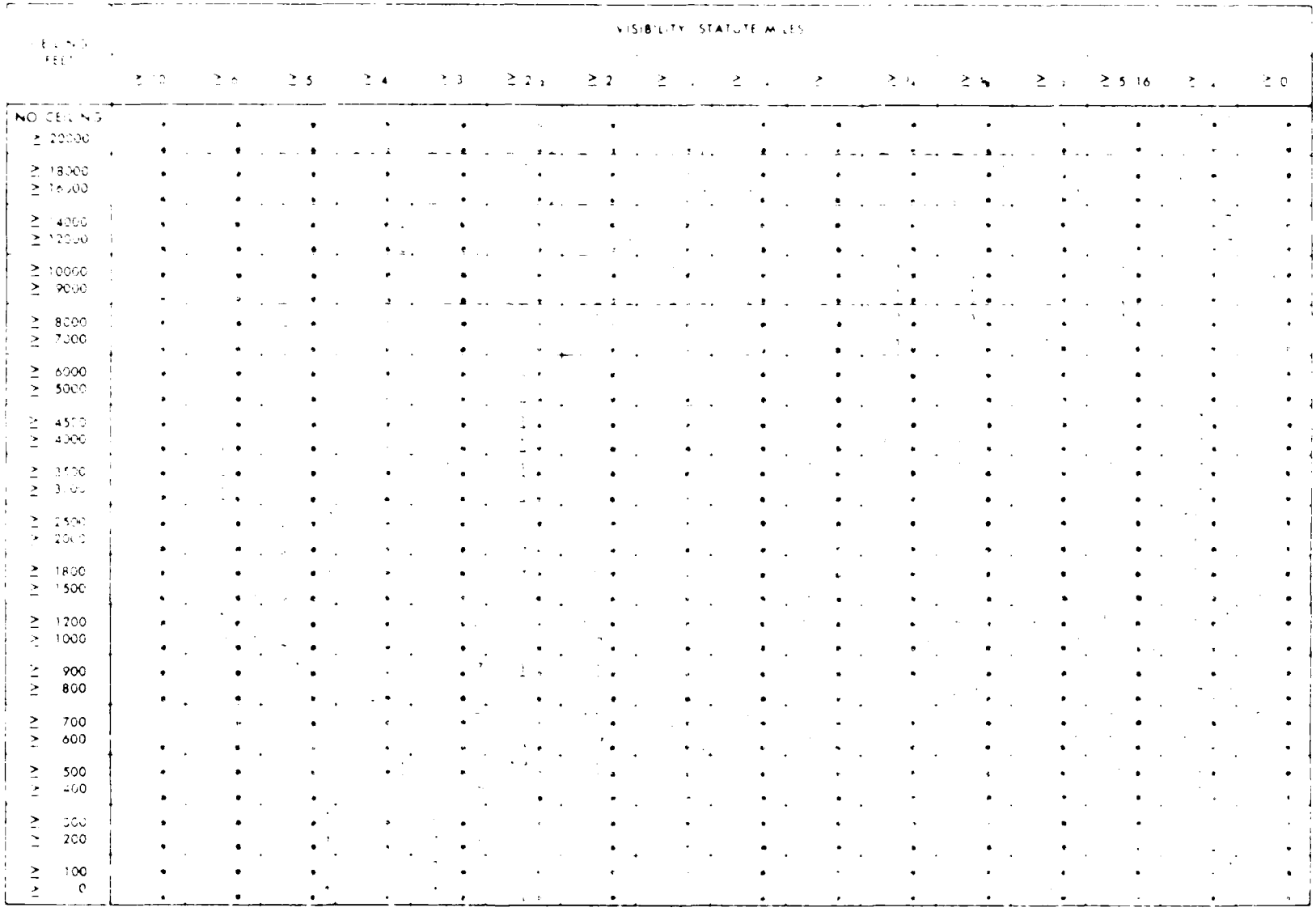


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

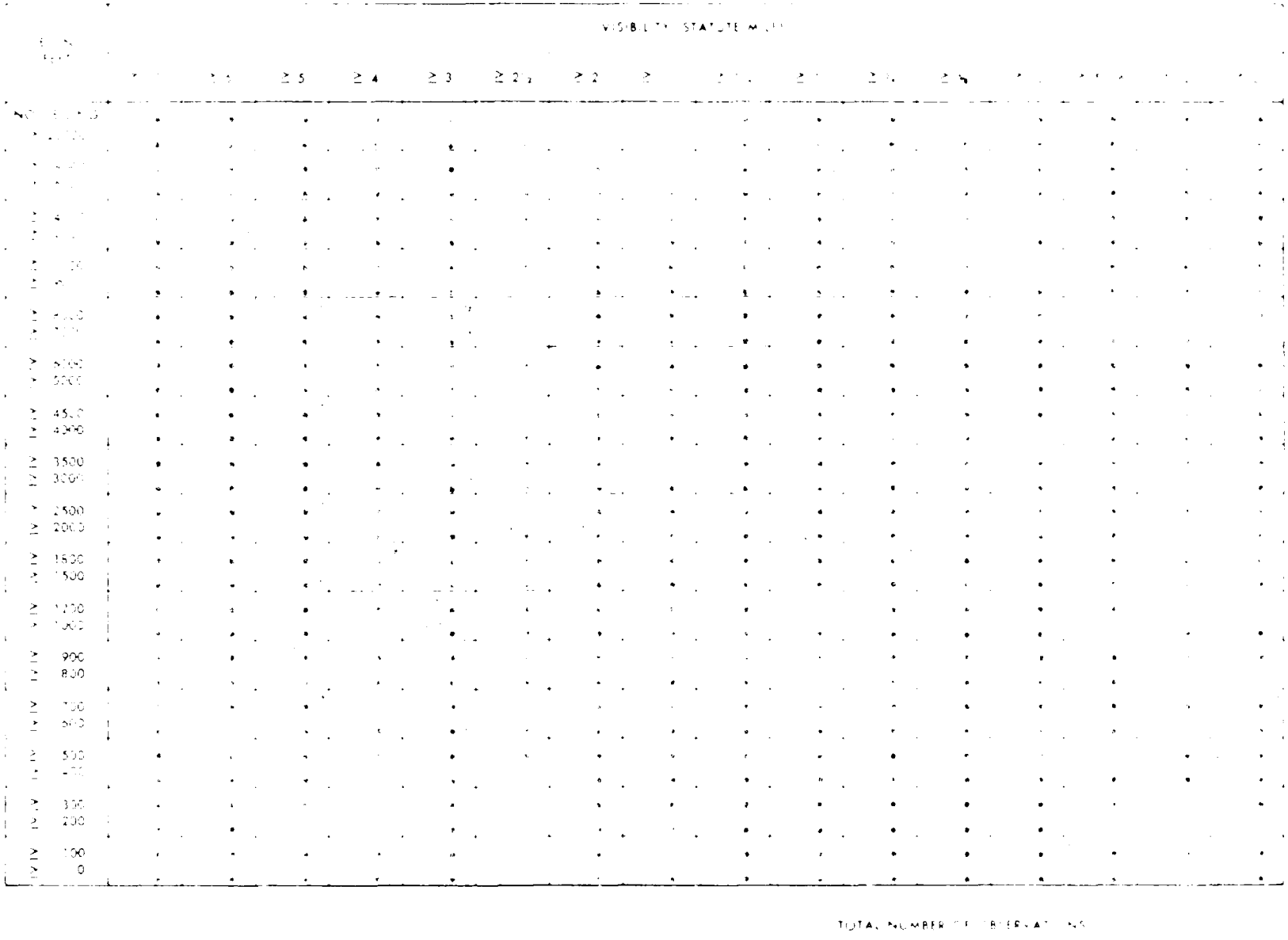
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

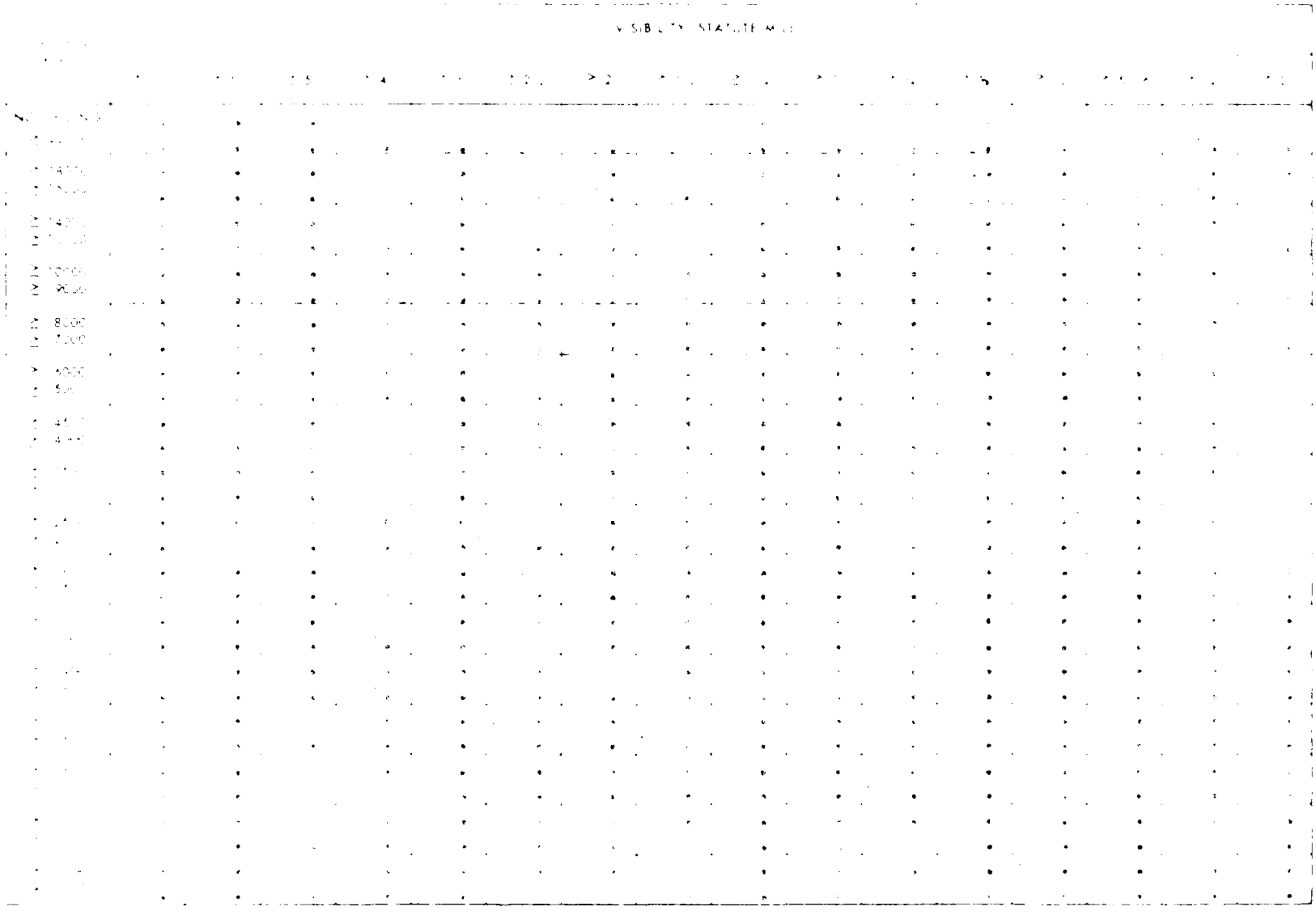
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

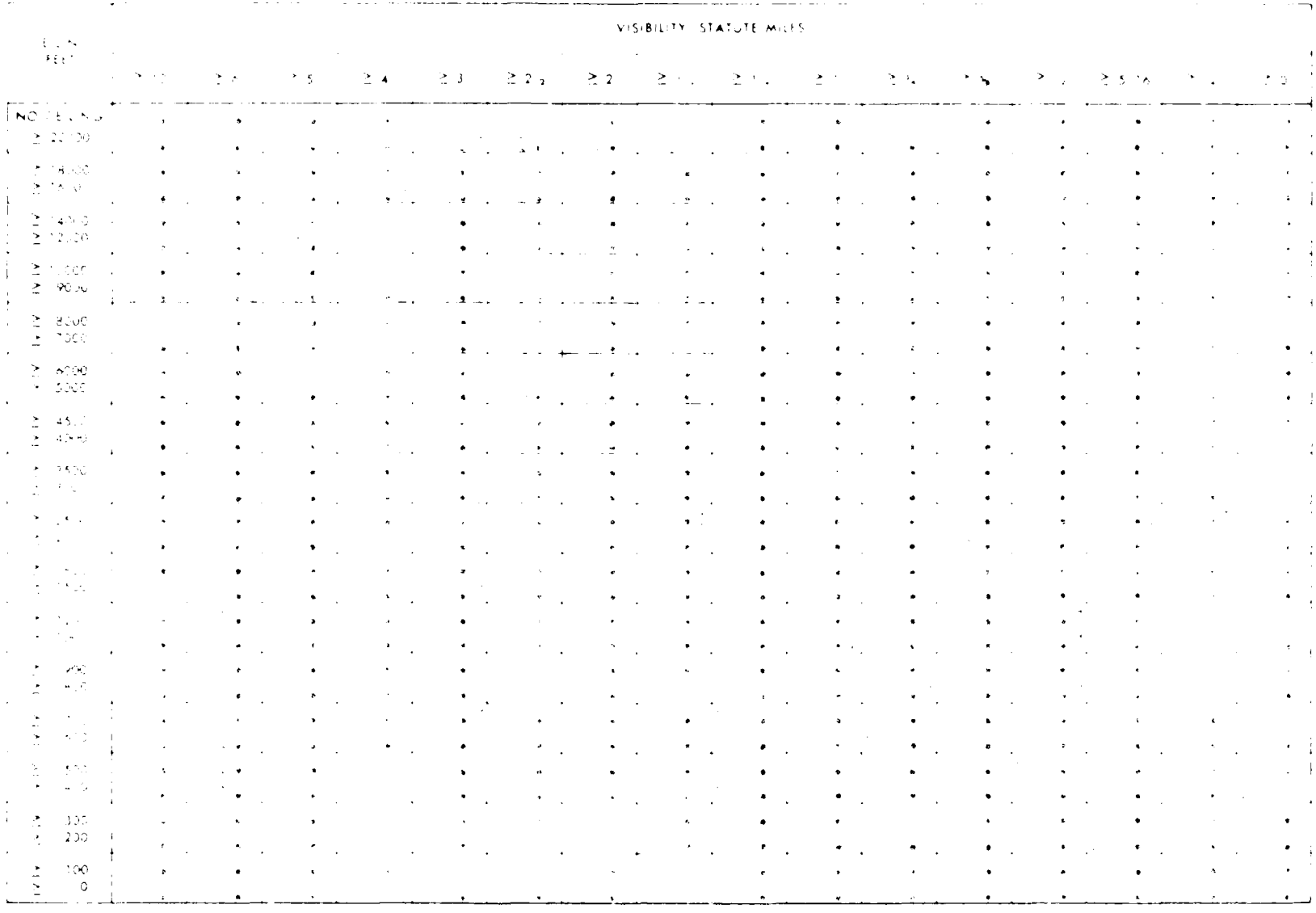
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PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



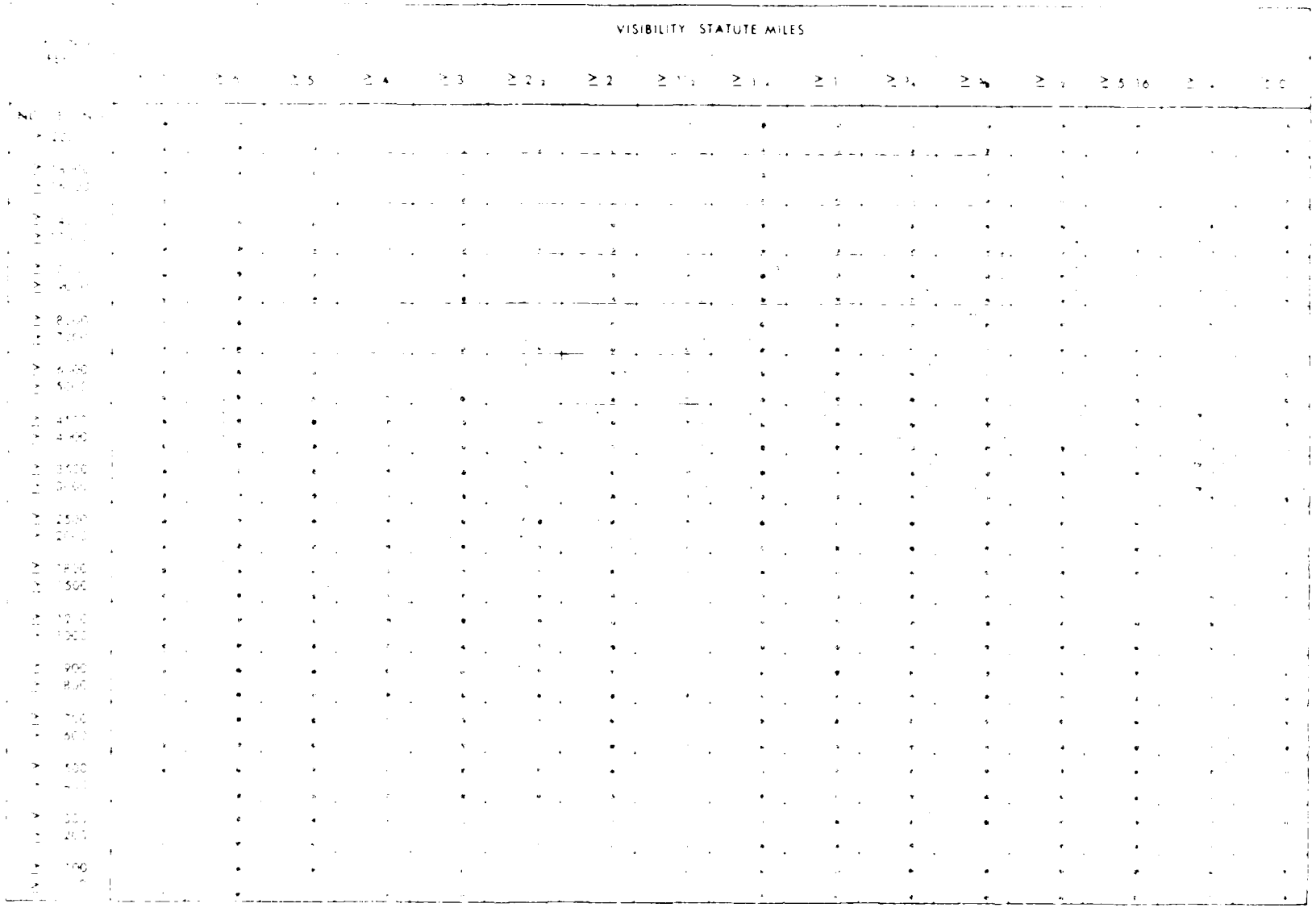
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PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS)



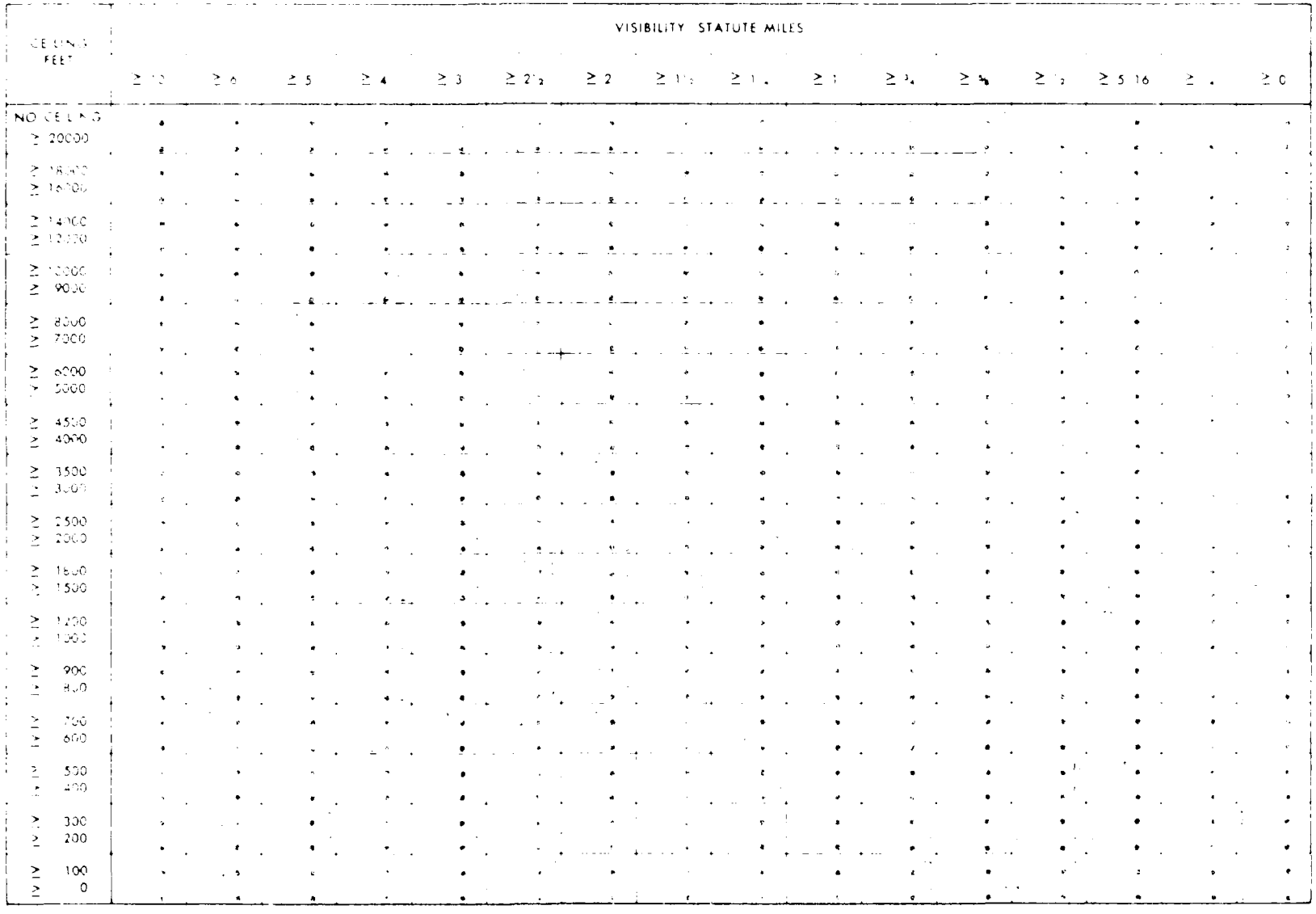
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NUMBER YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)



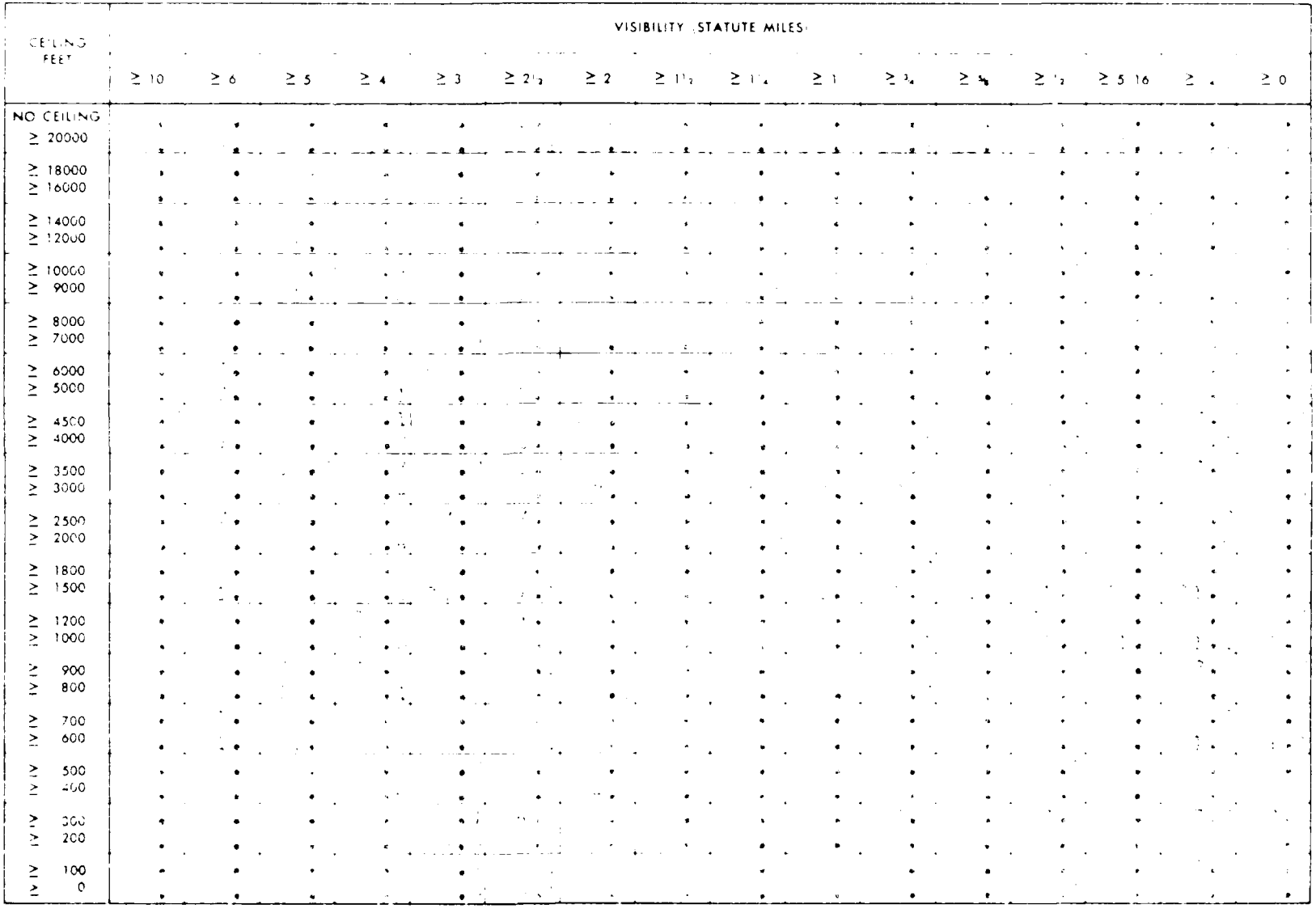
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
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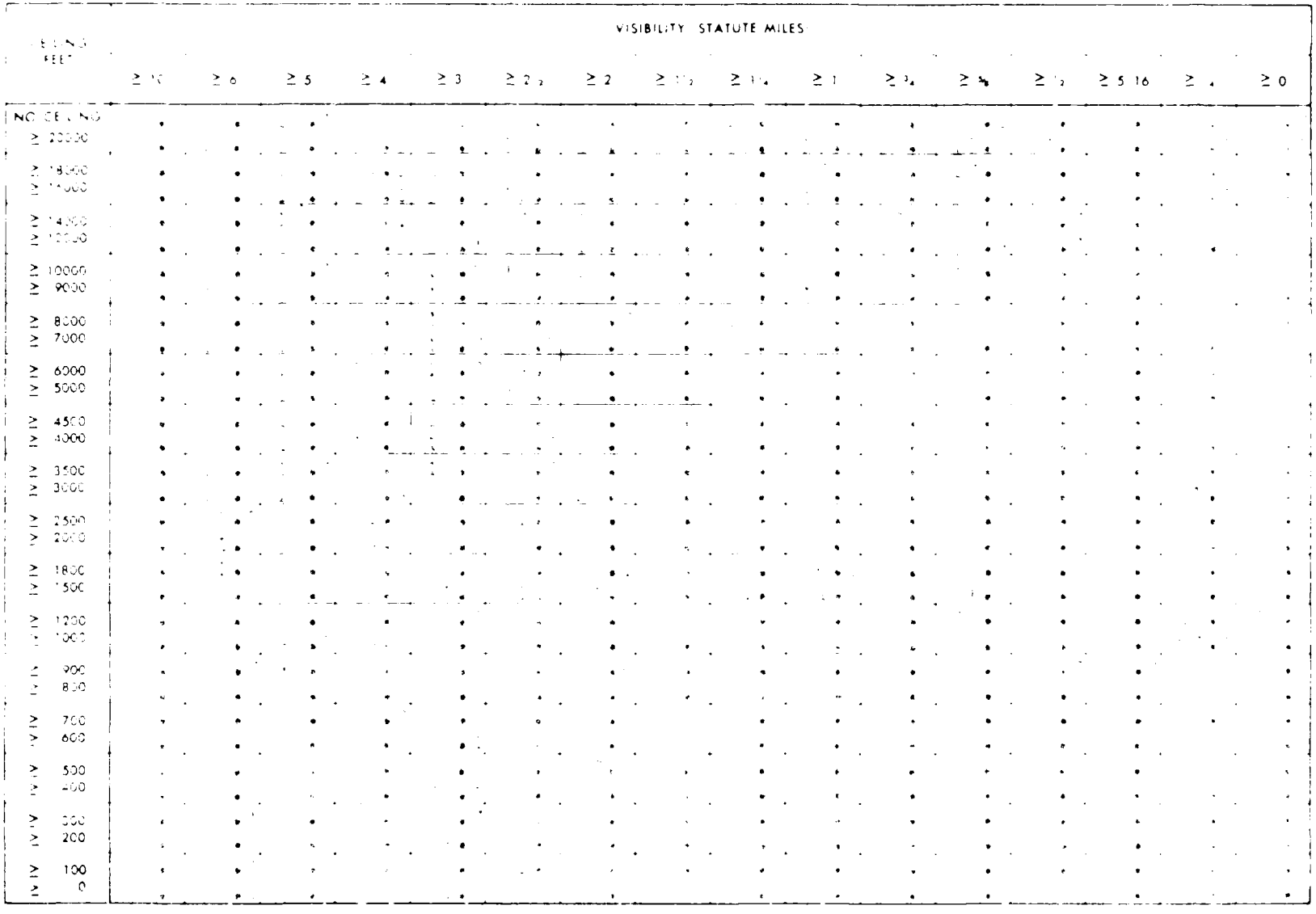
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



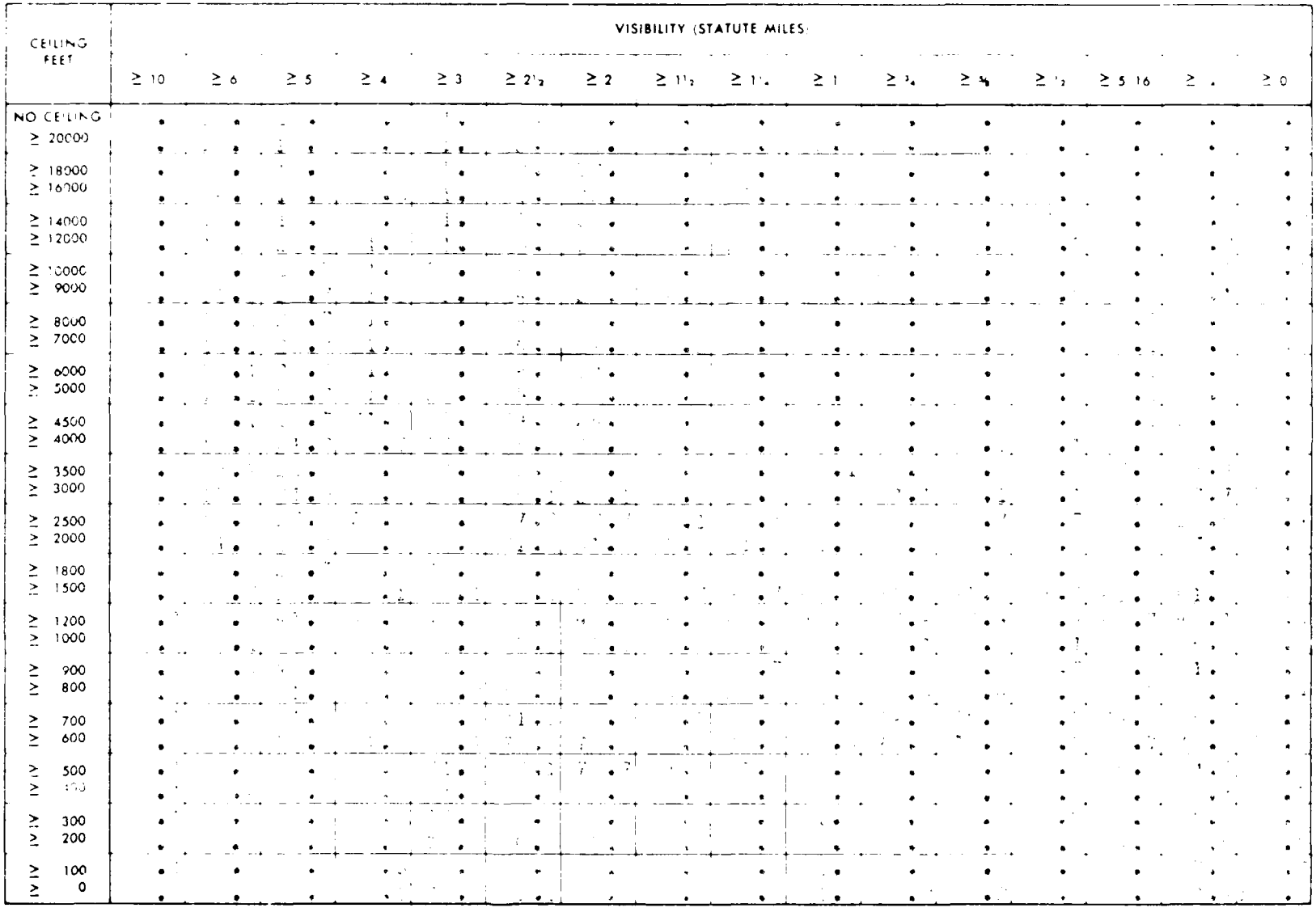
TOTAL NUMBER OF OBSERVATIONS

PREPARED BY

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

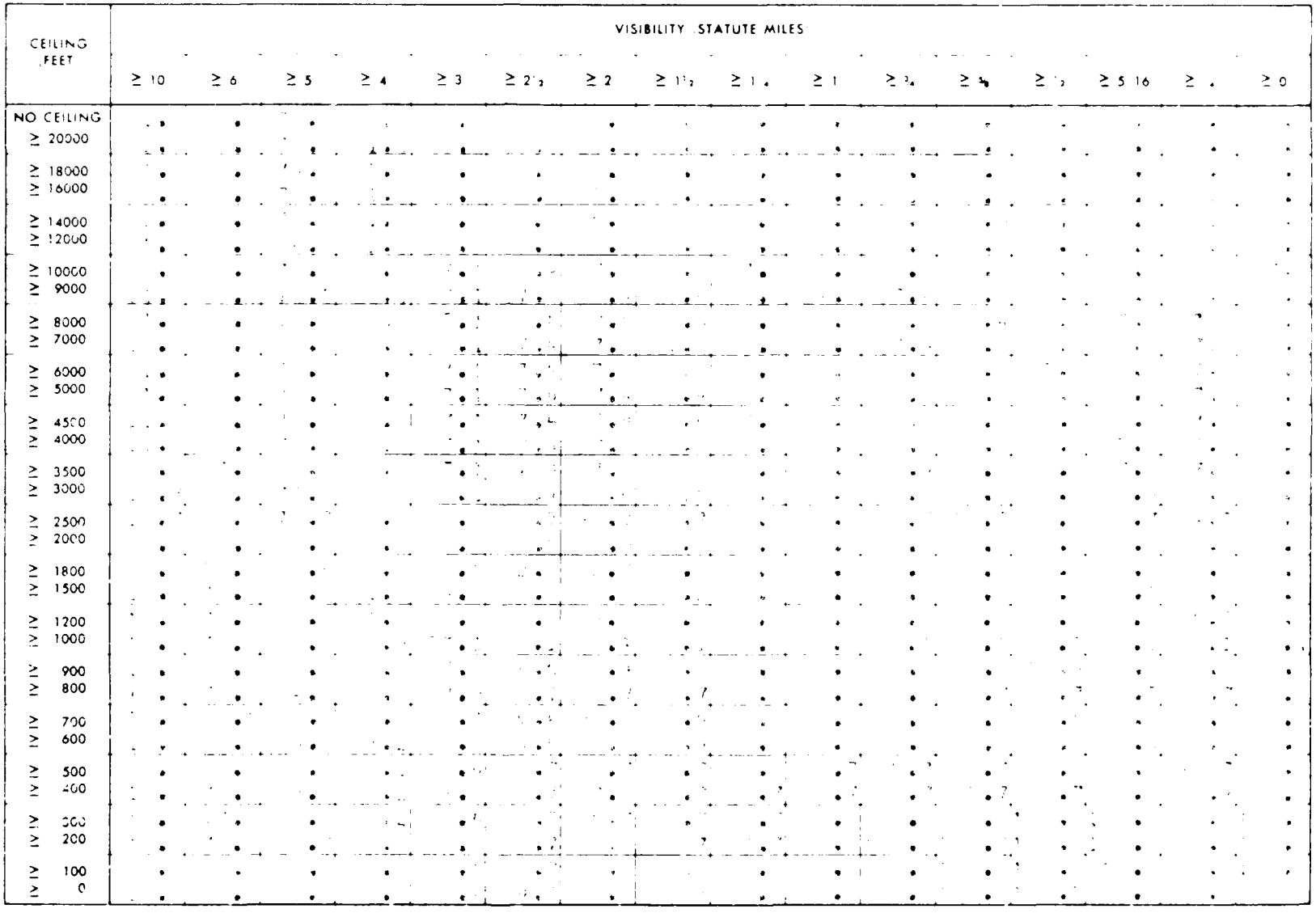
FORM 0-1 (GEA/GSET) (55-35)

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HRS. L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



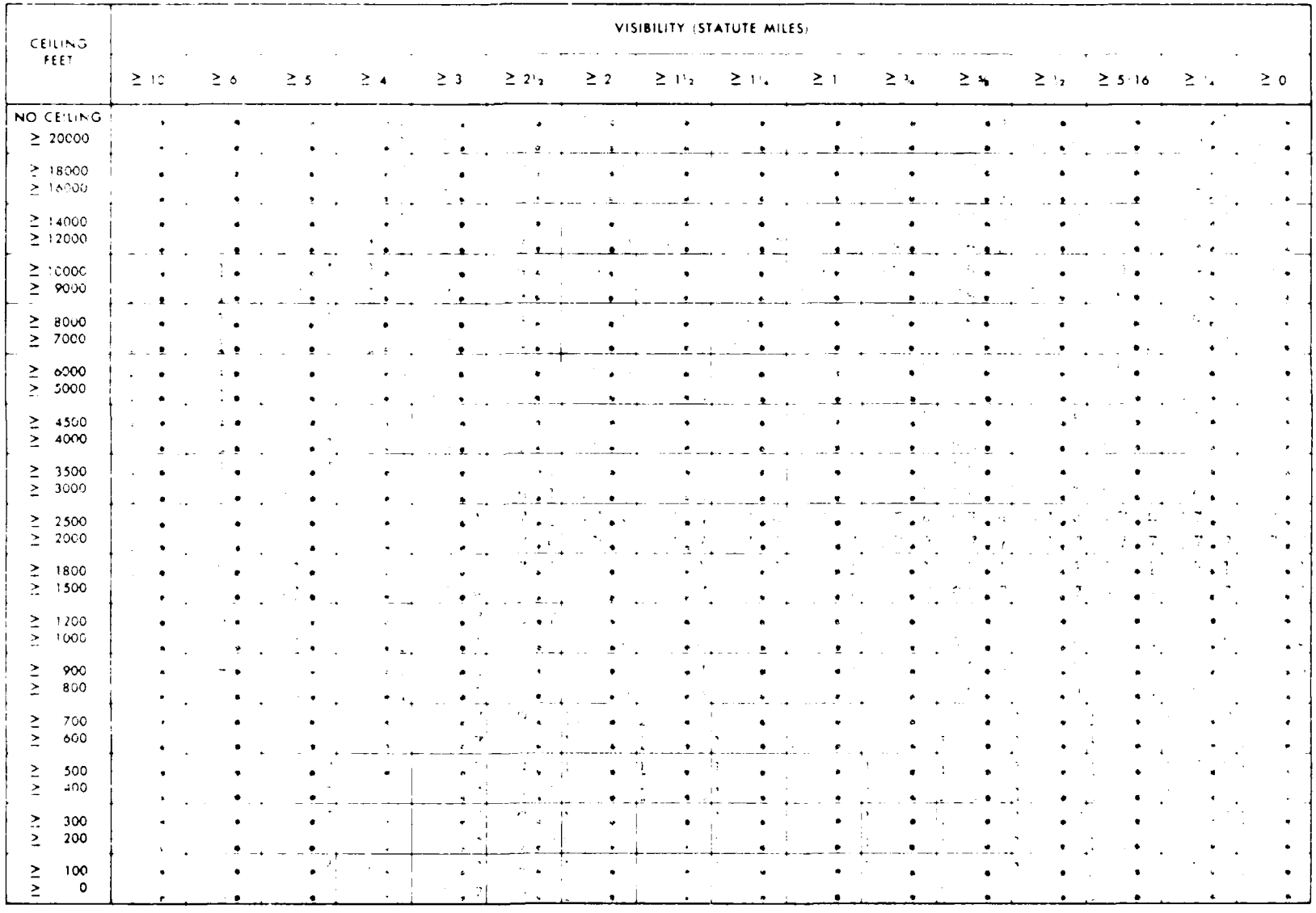
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.



TOTAL NUMBER OF OBSERVATIONS

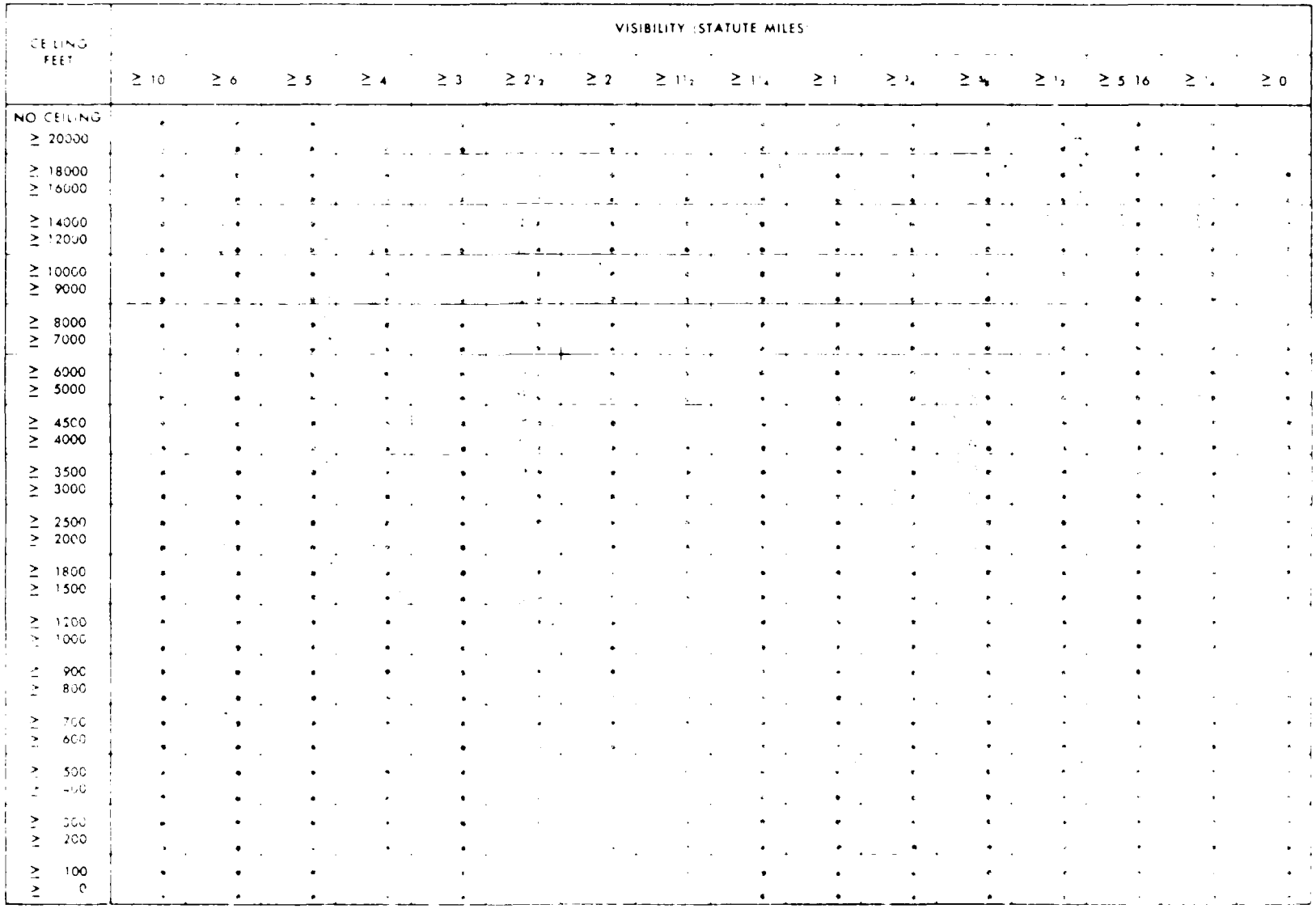
SUPERVISOR CLEARANCE SHEET

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

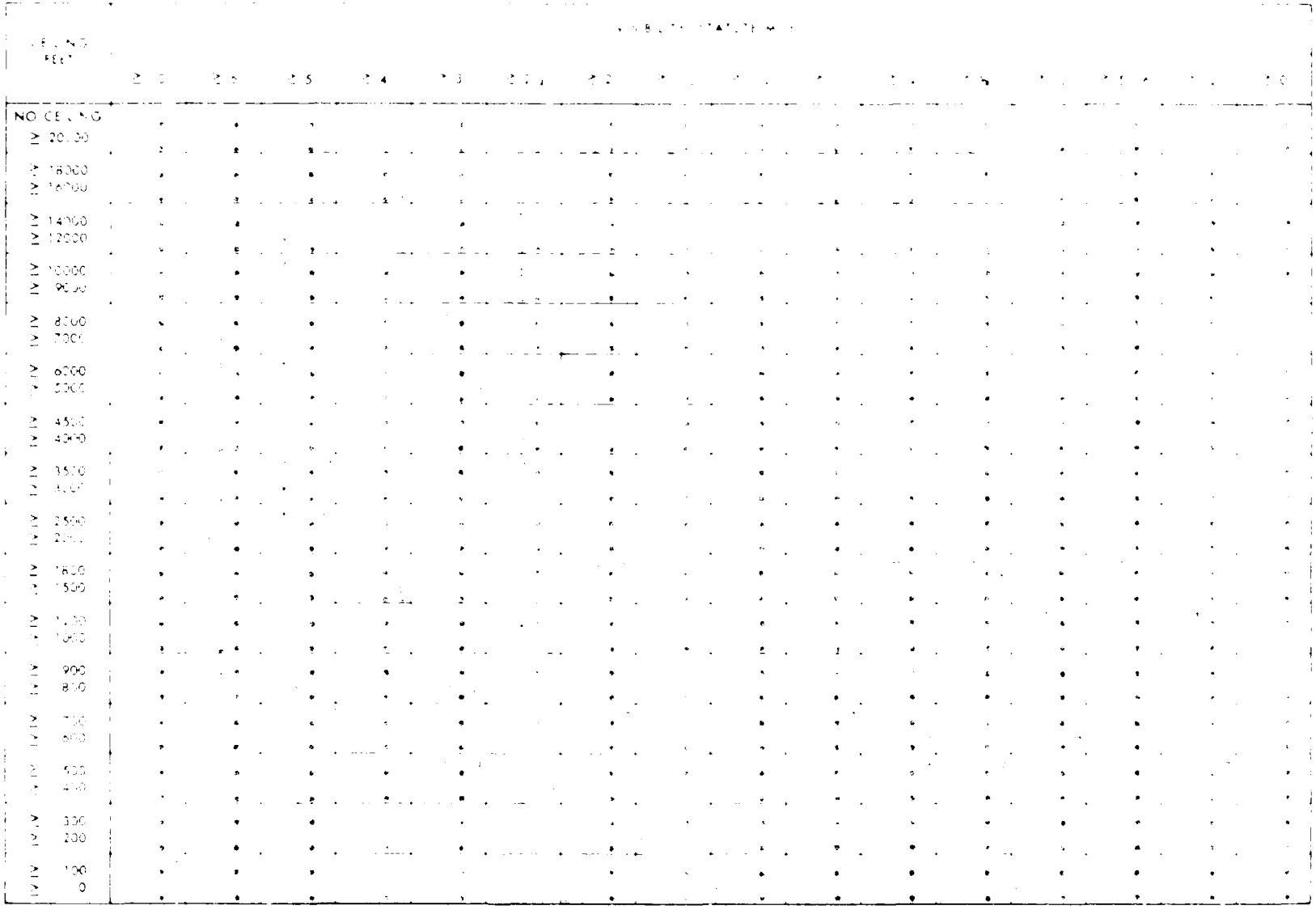
HOURS L.S.T.



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



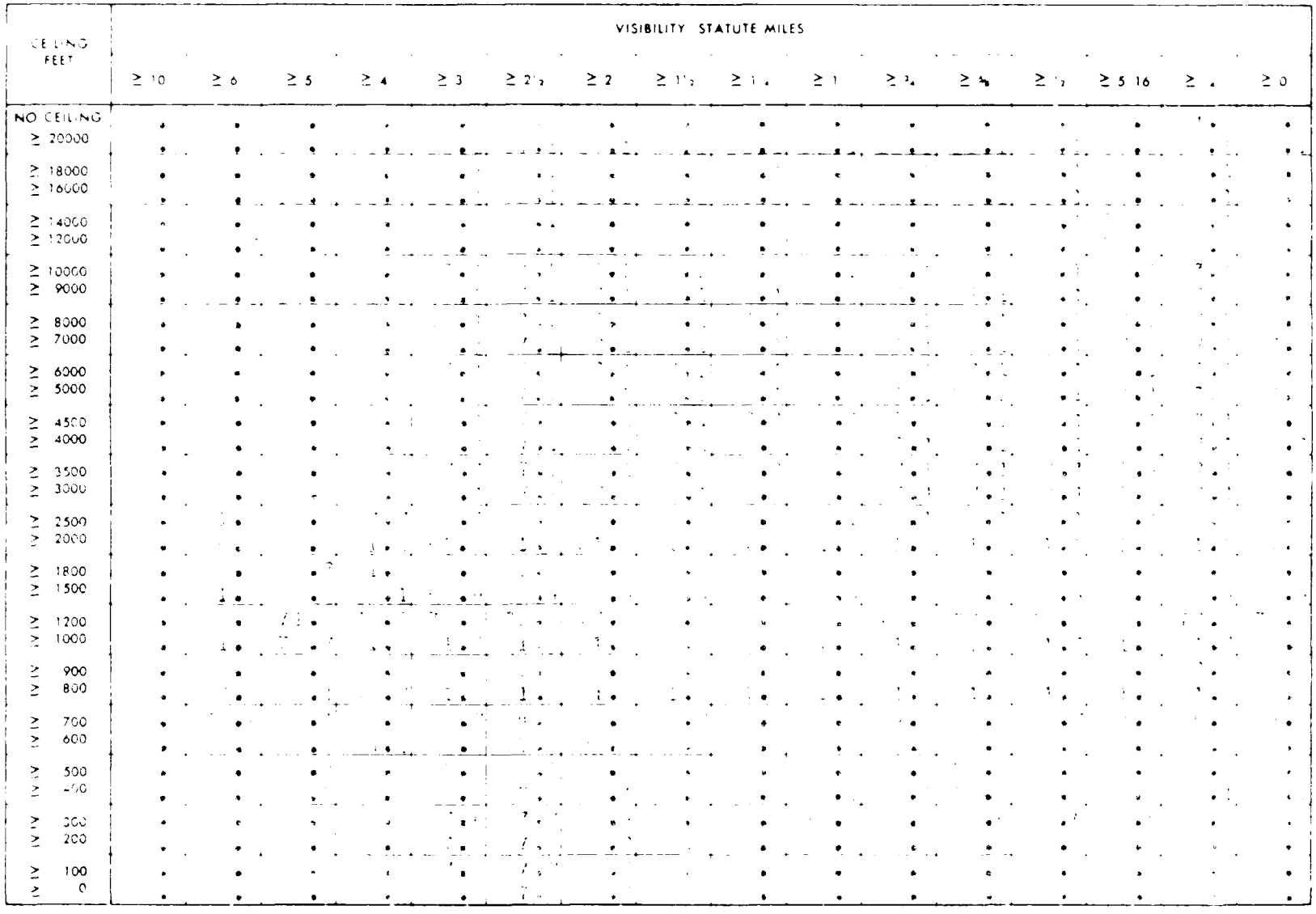
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



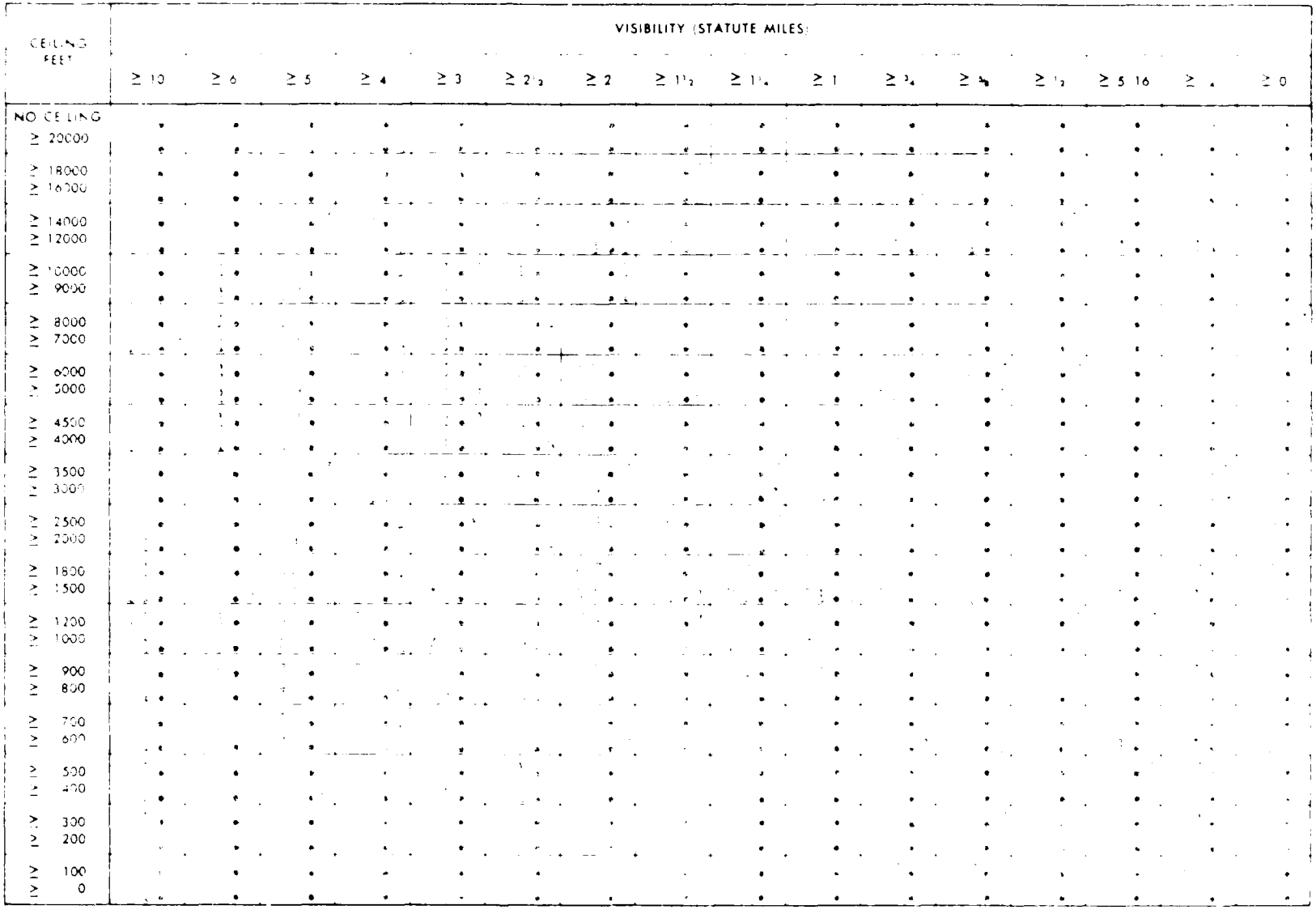
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (LST)

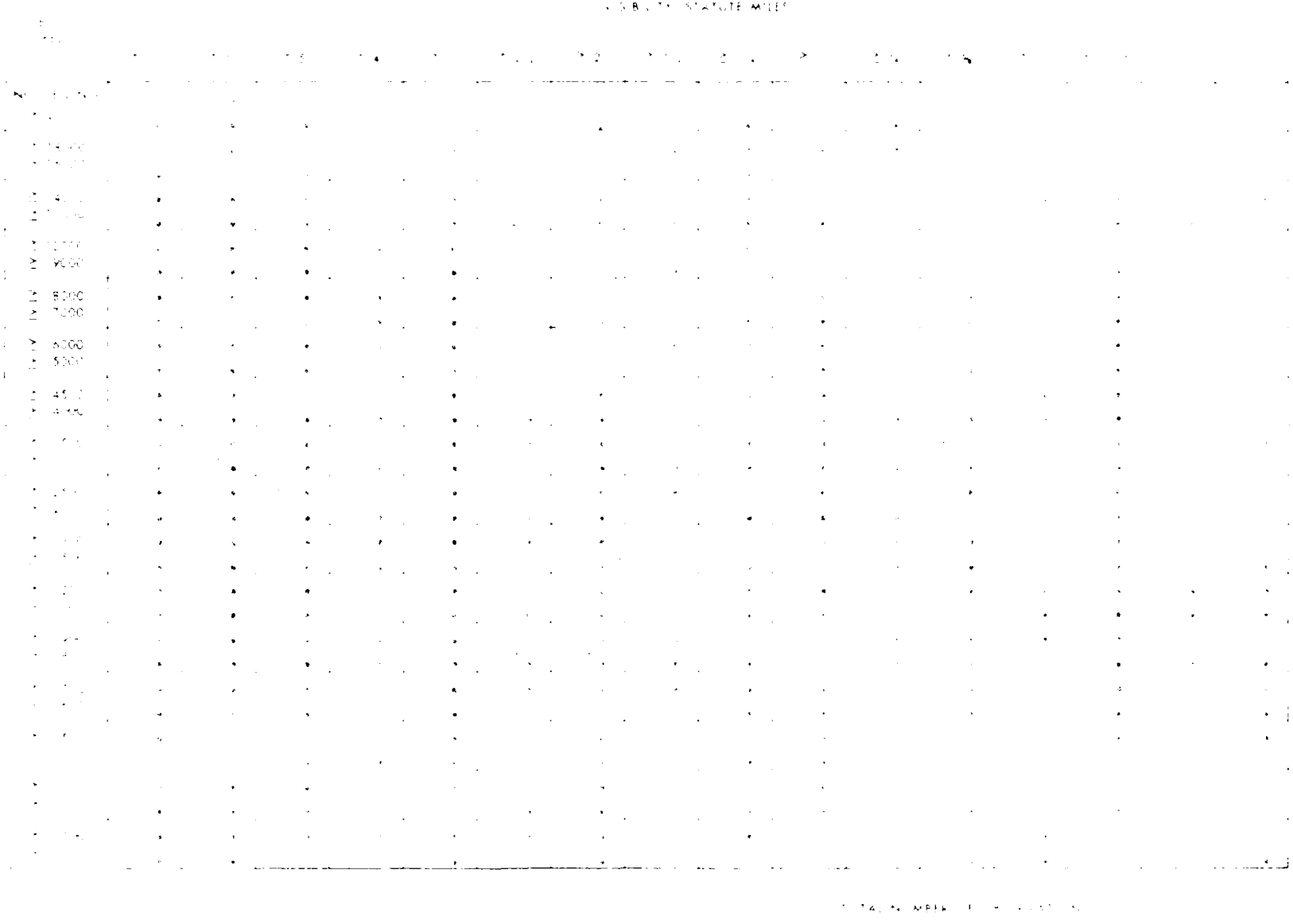
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

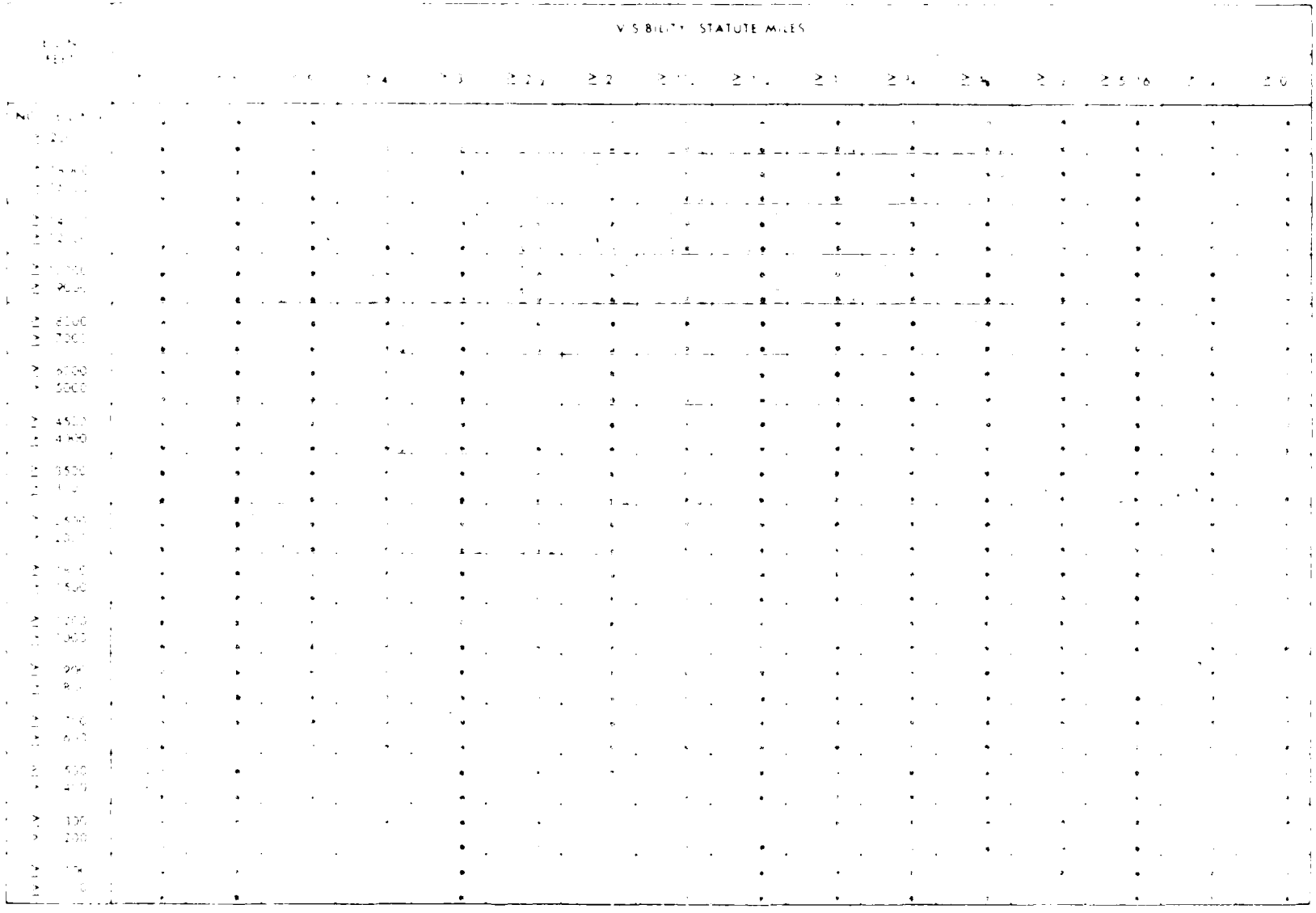
CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

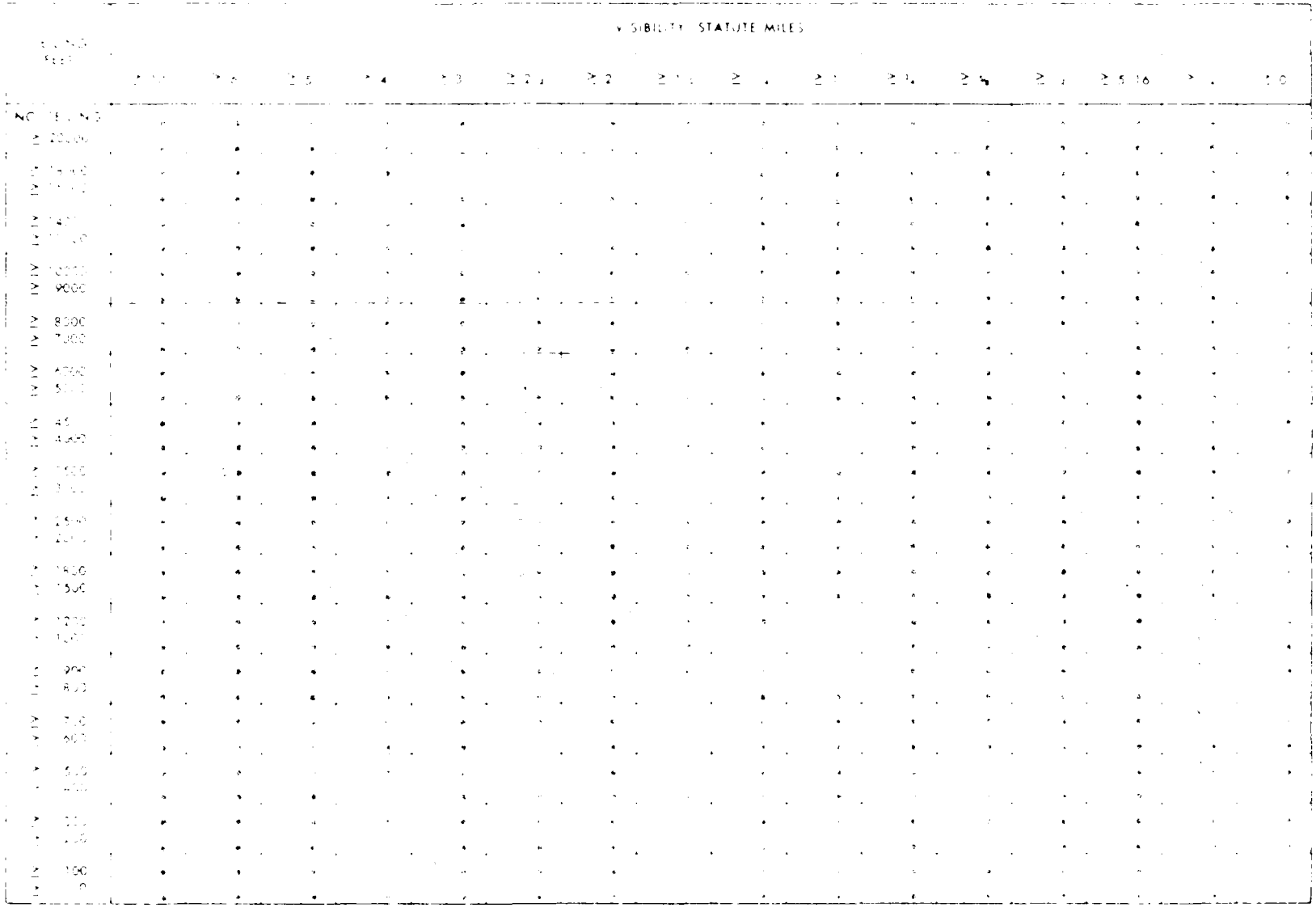
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FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

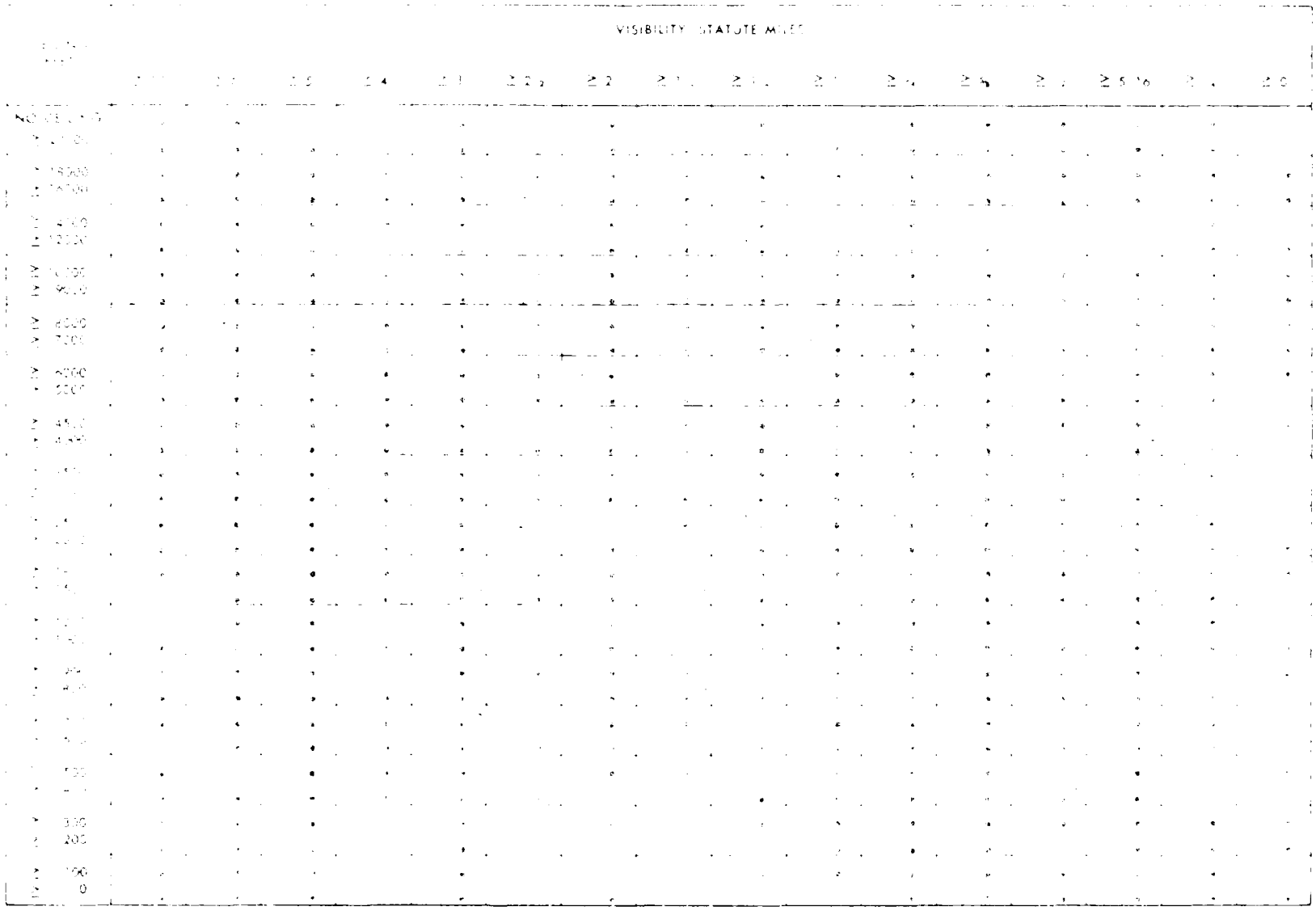
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FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

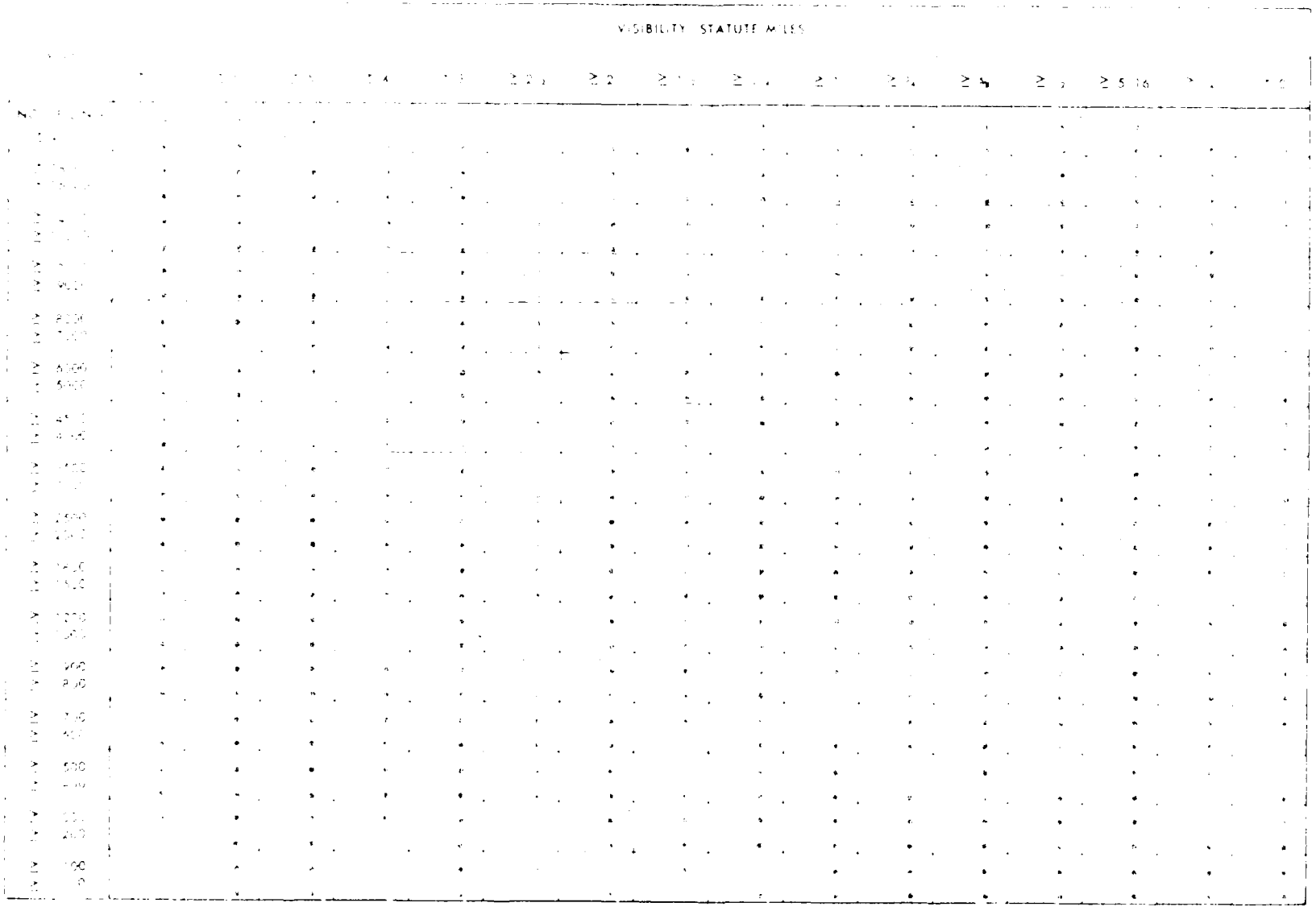
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FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

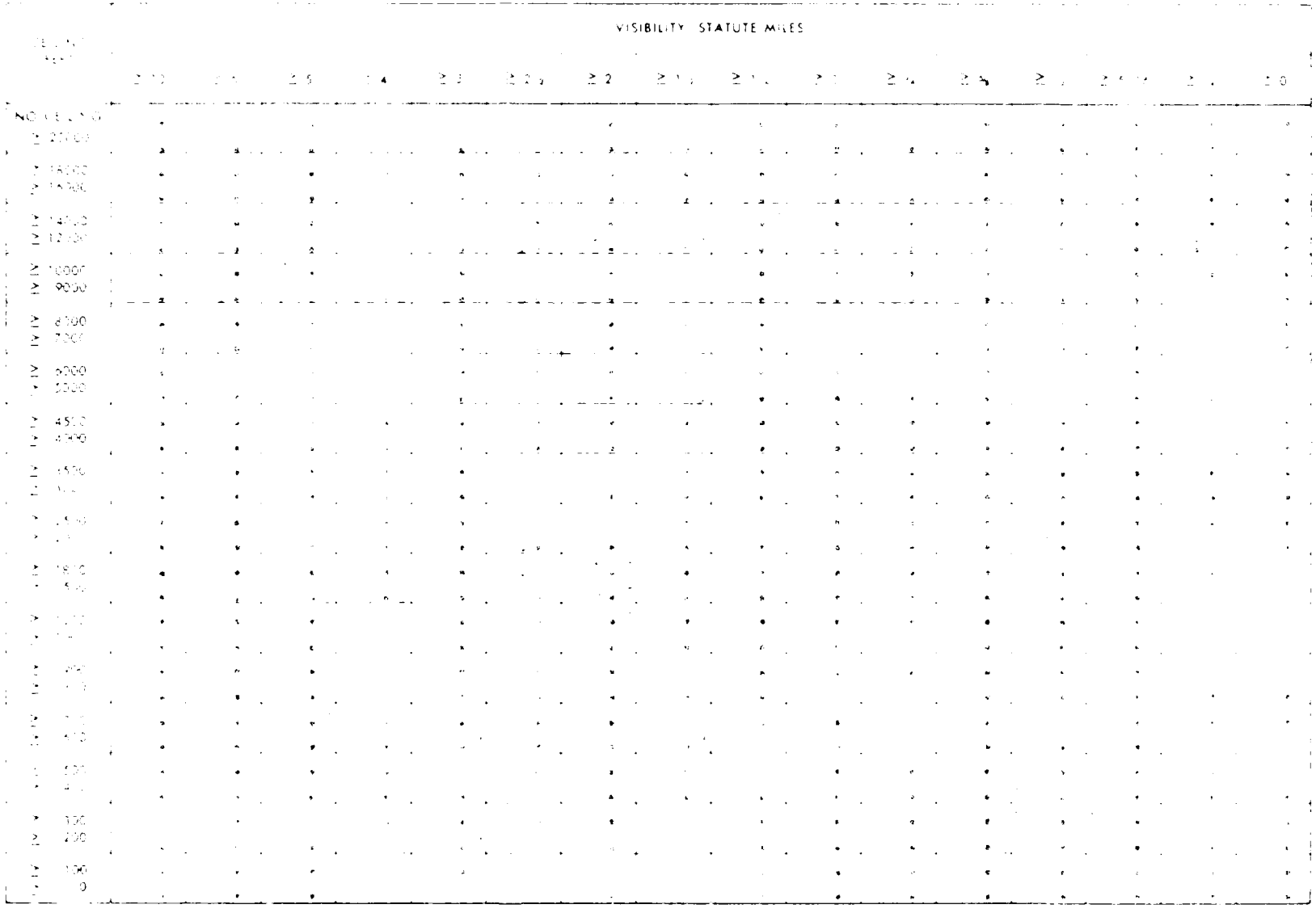
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FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

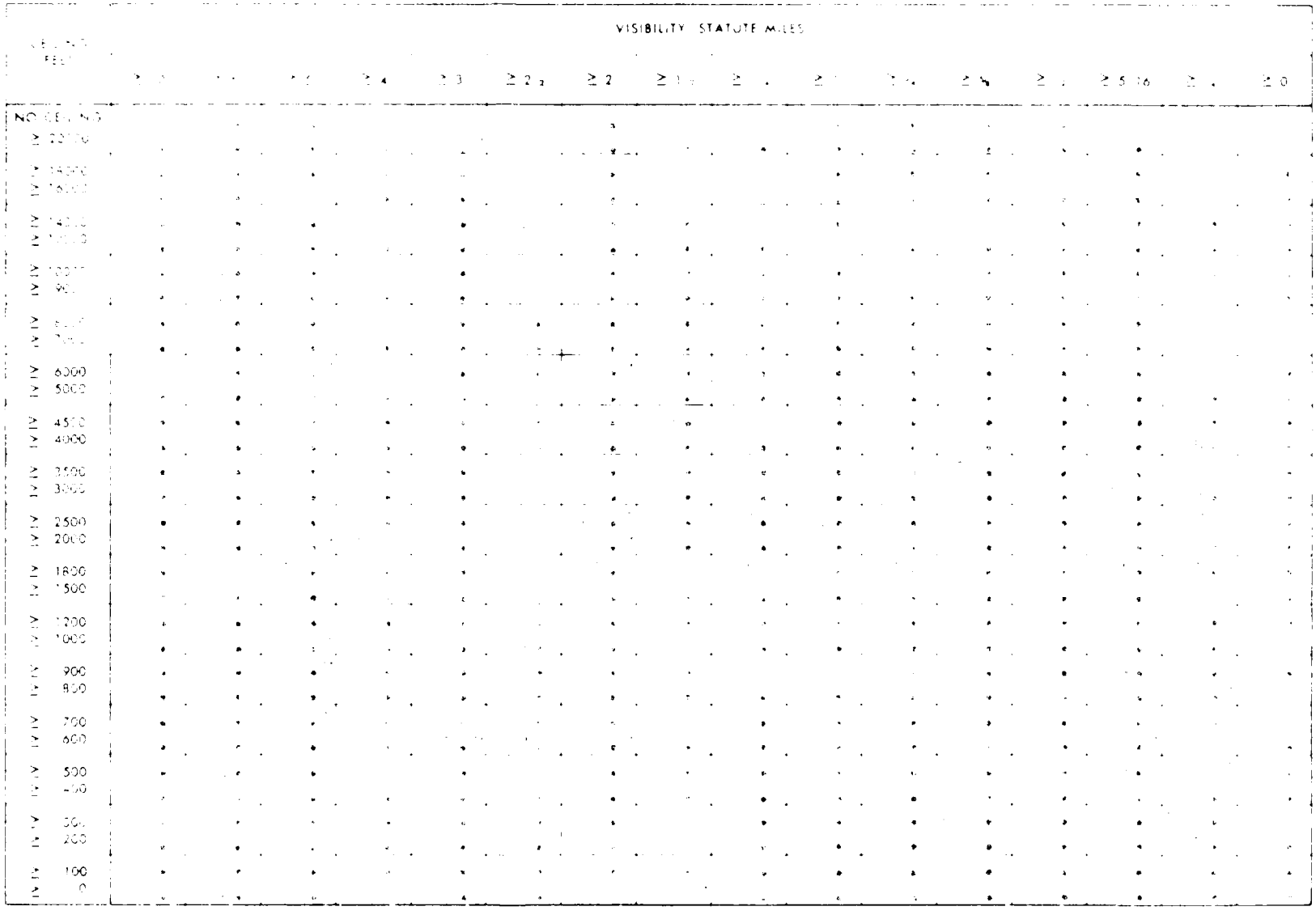
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(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



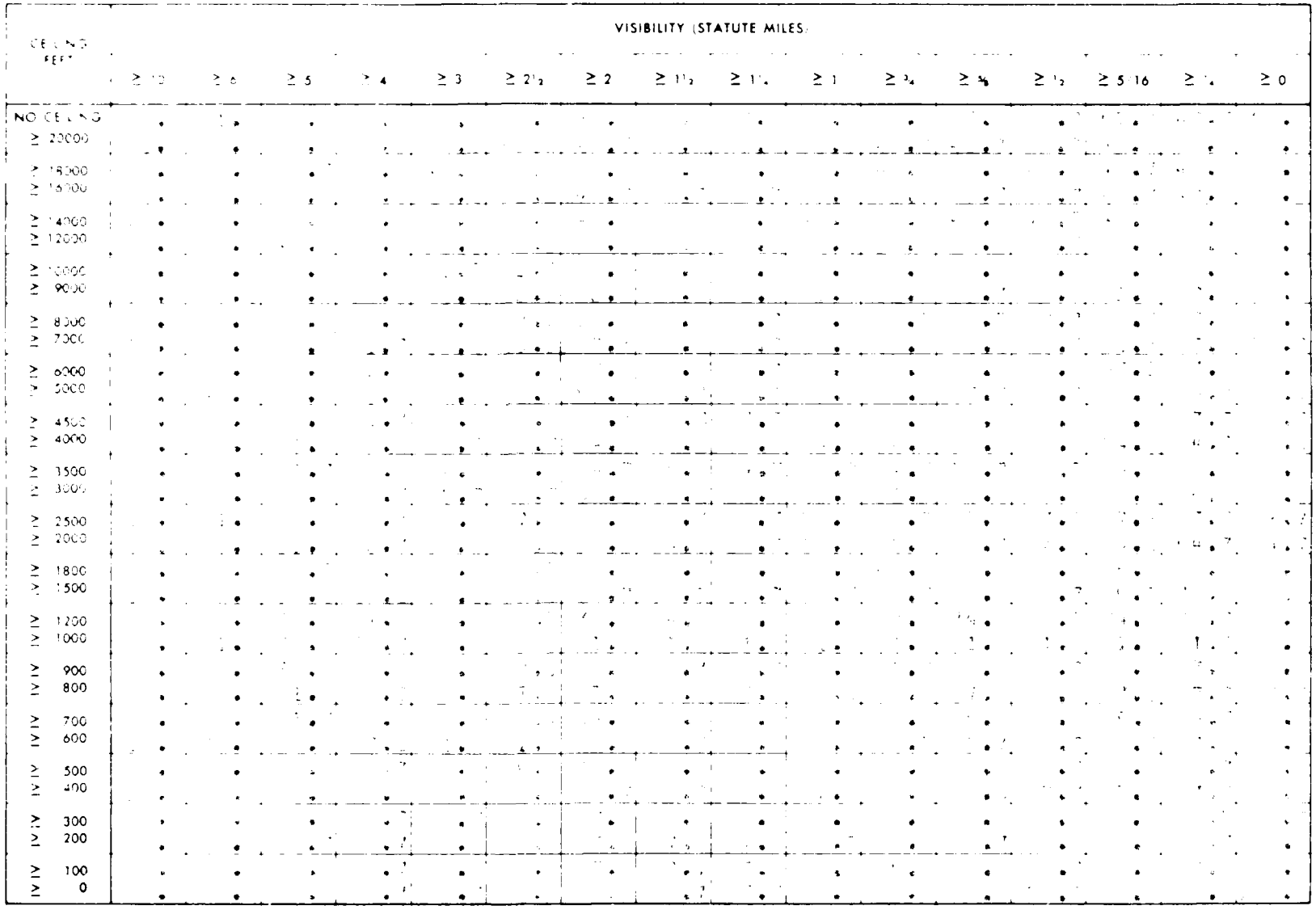
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.



TOTAL NUMBER OF OBSERVATIONS

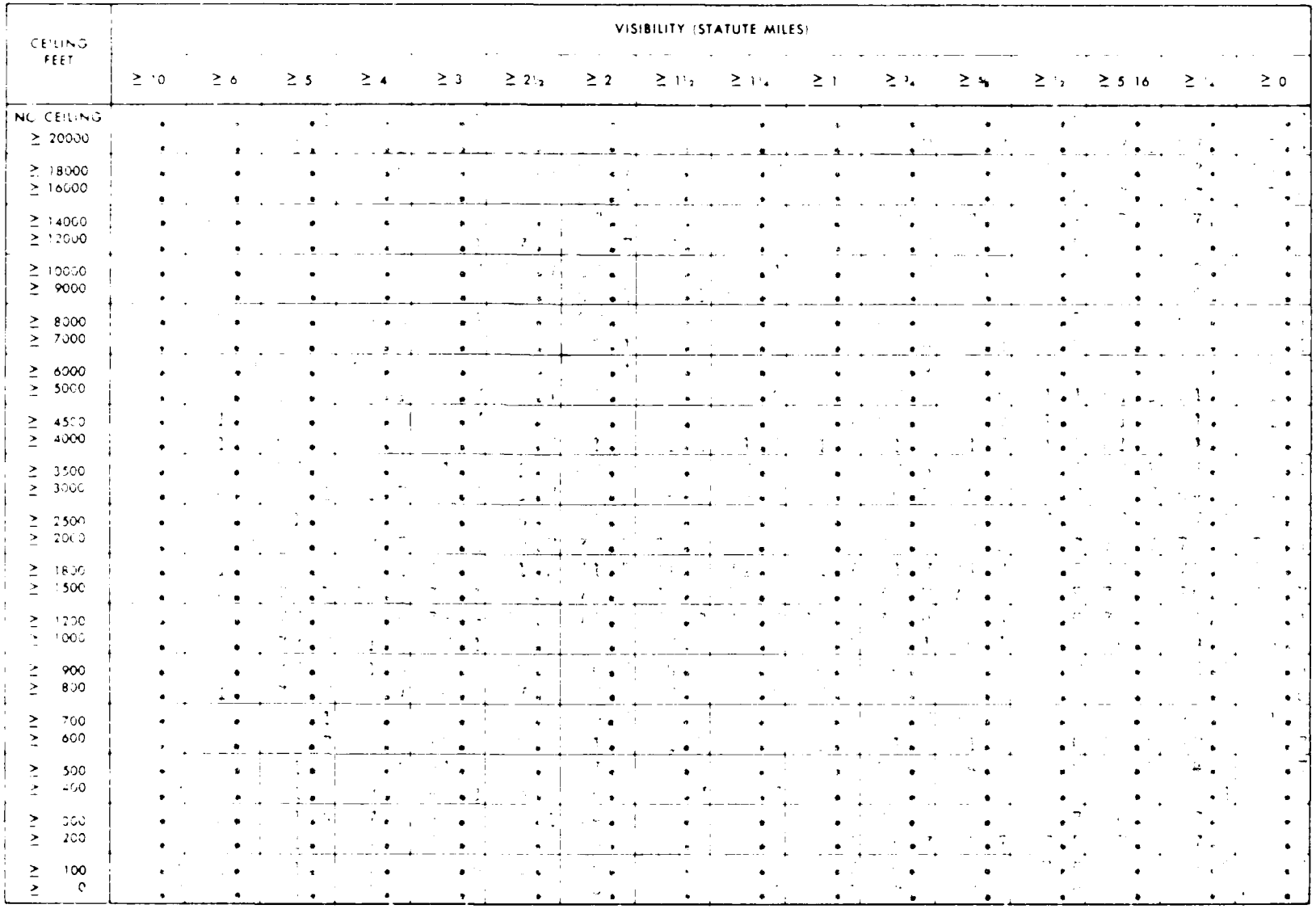
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CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

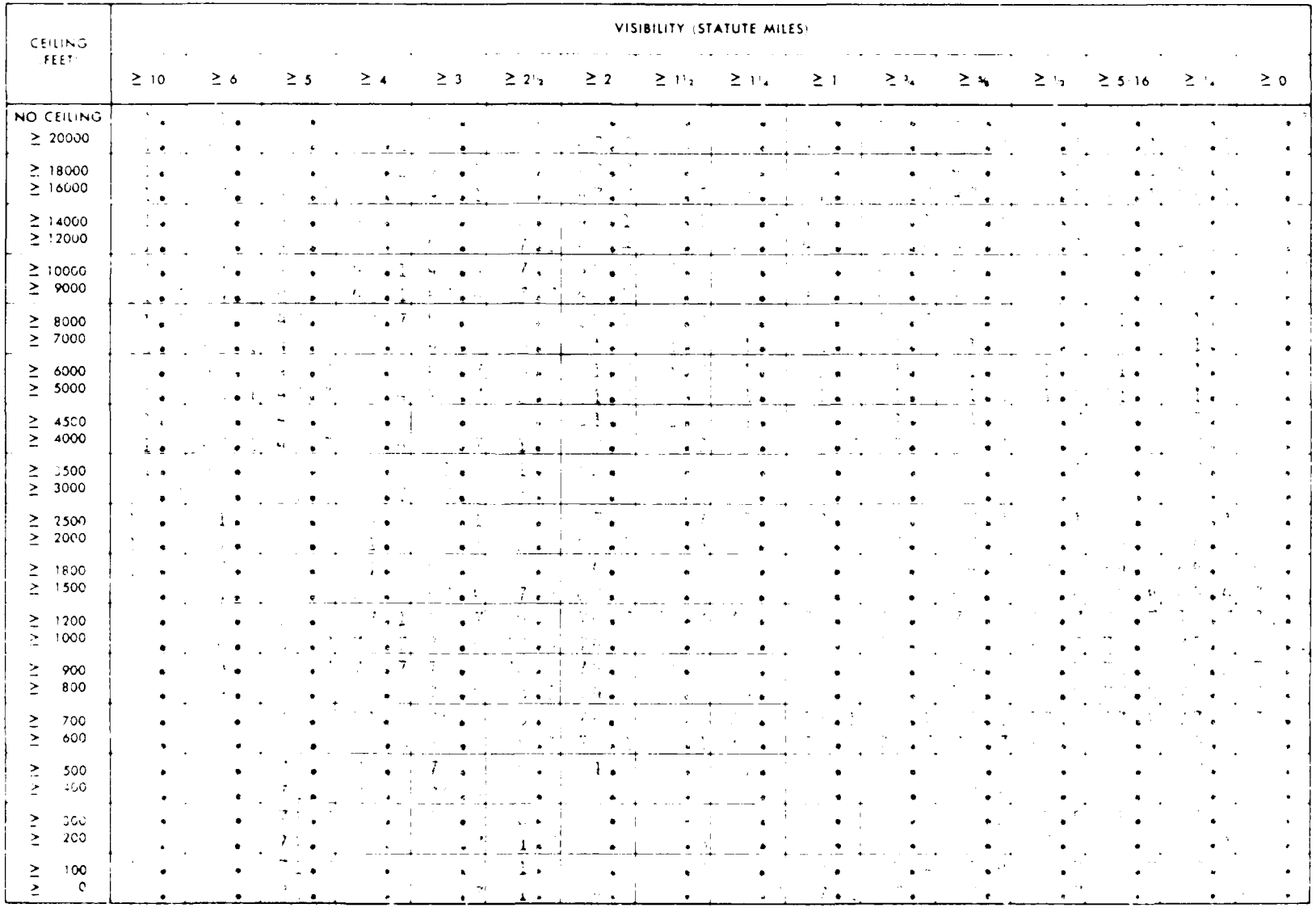
CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
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600																
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400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



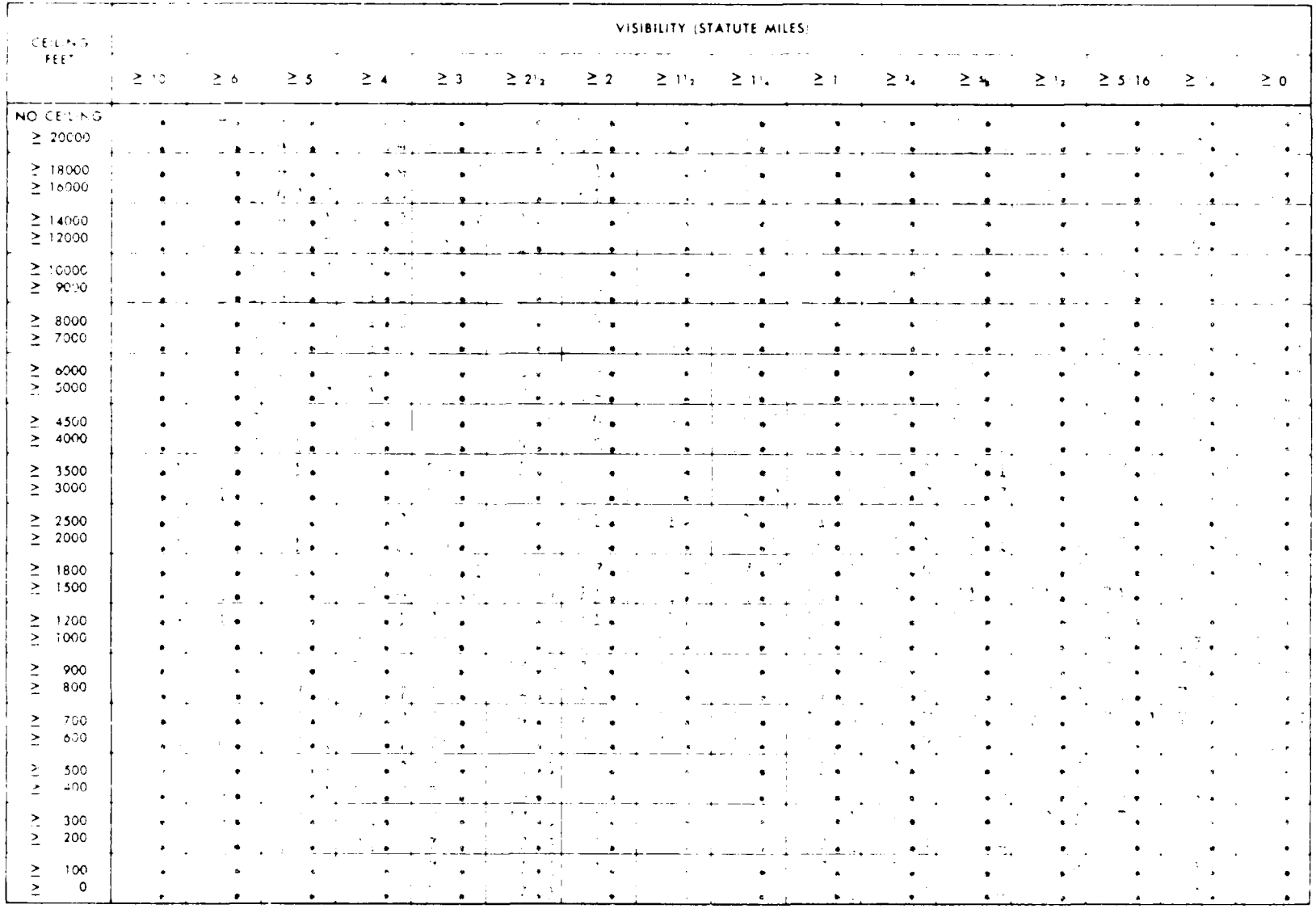
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

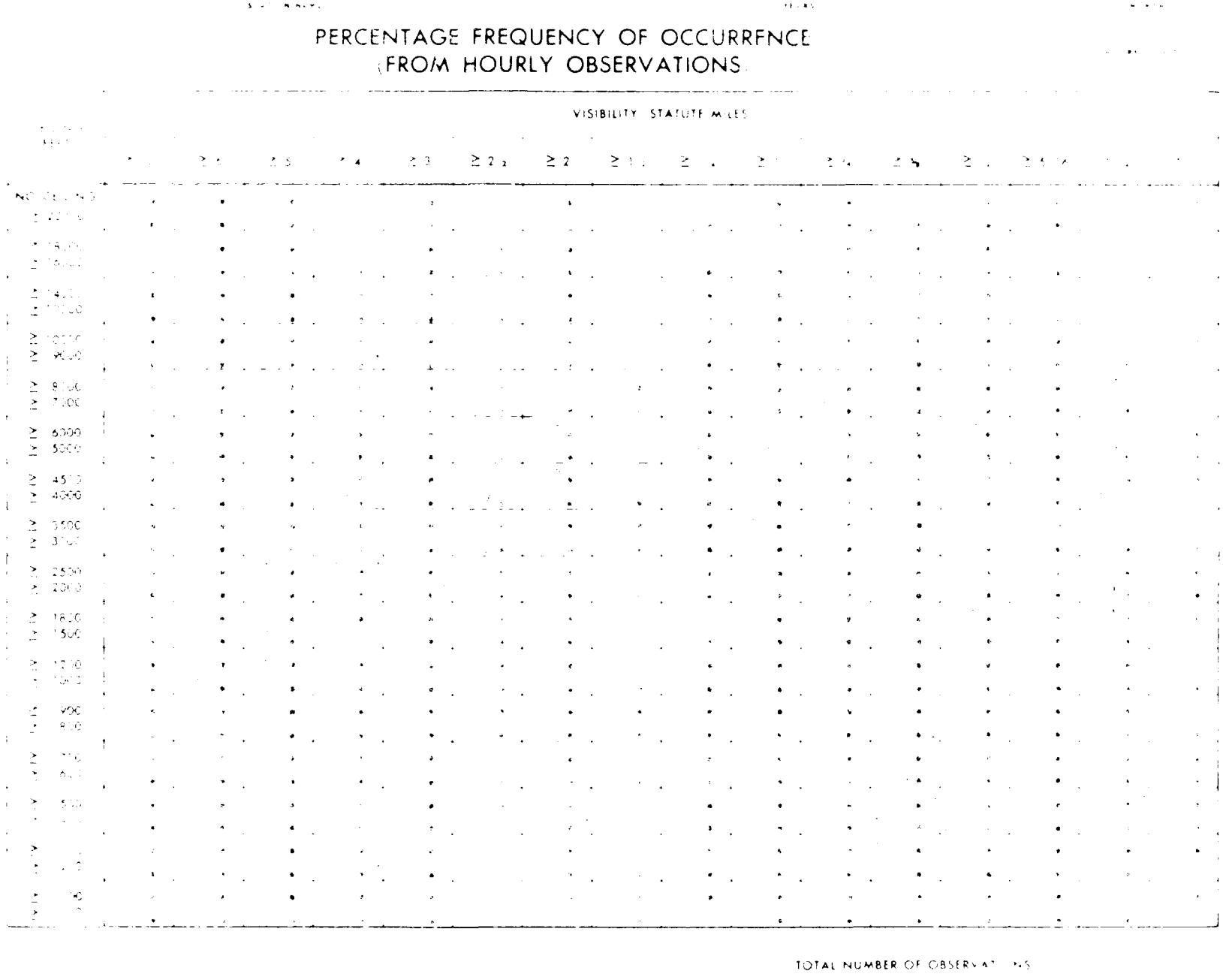
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.



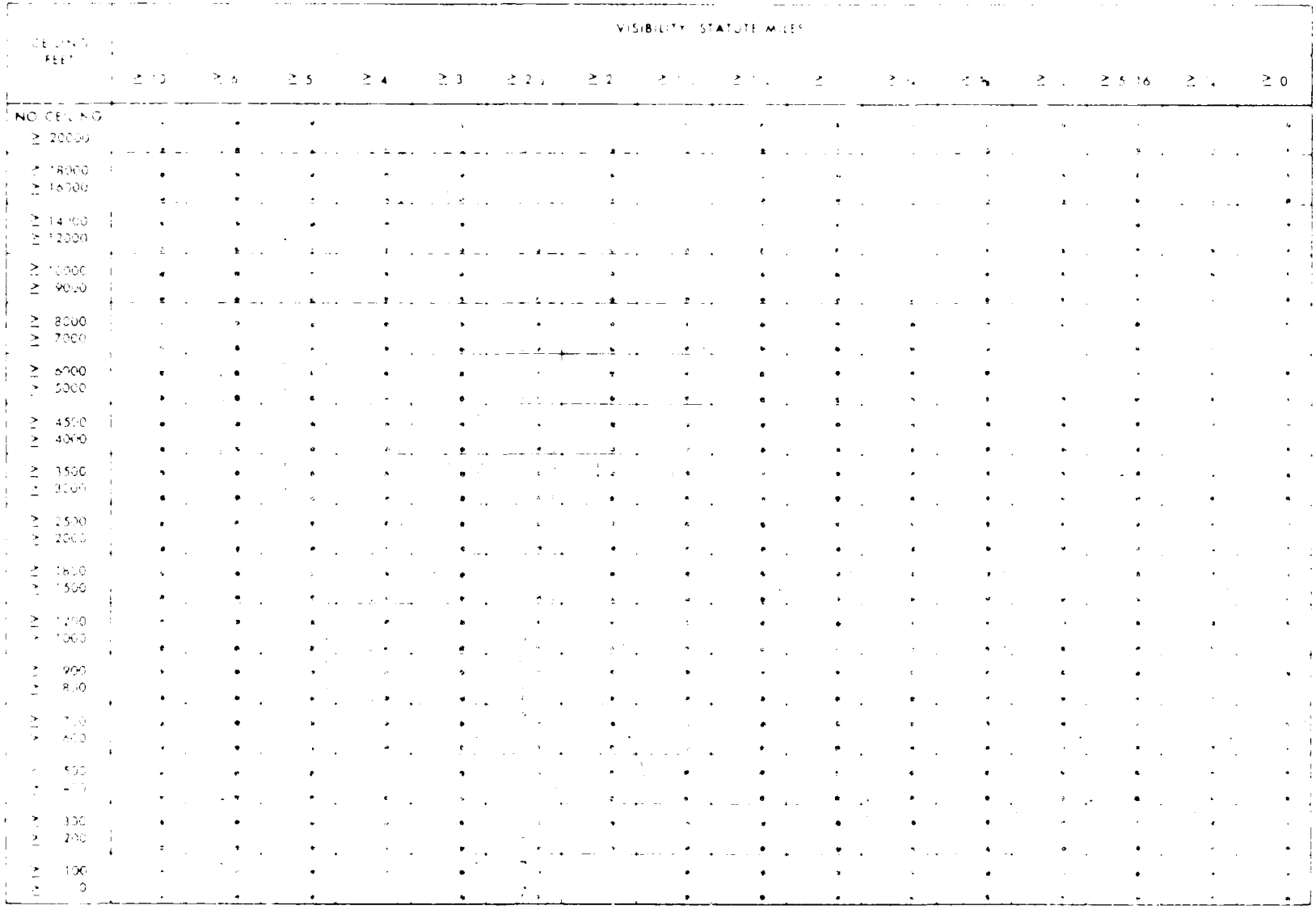
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CEILING VERSUS VISIBILITY



CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS

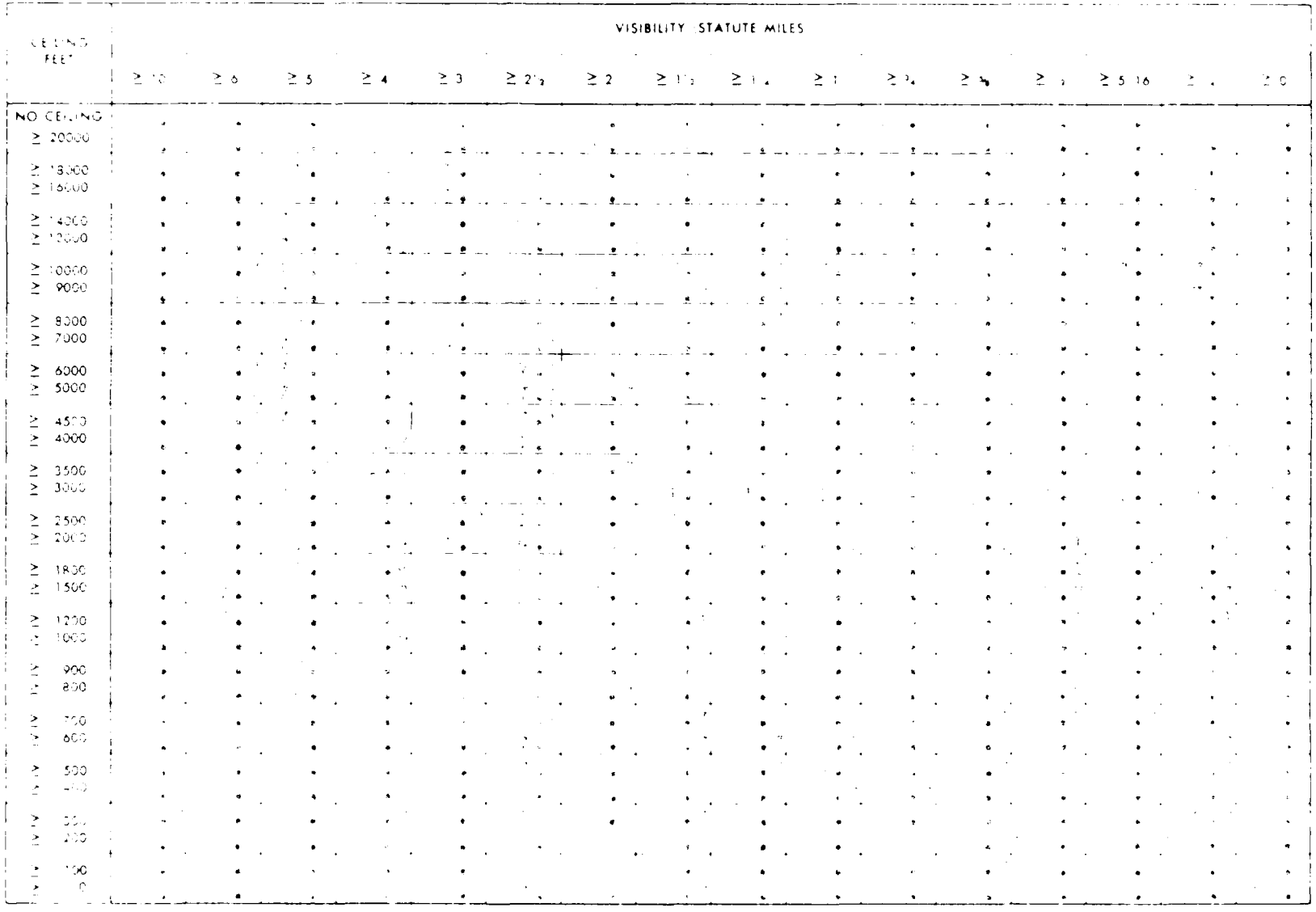


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

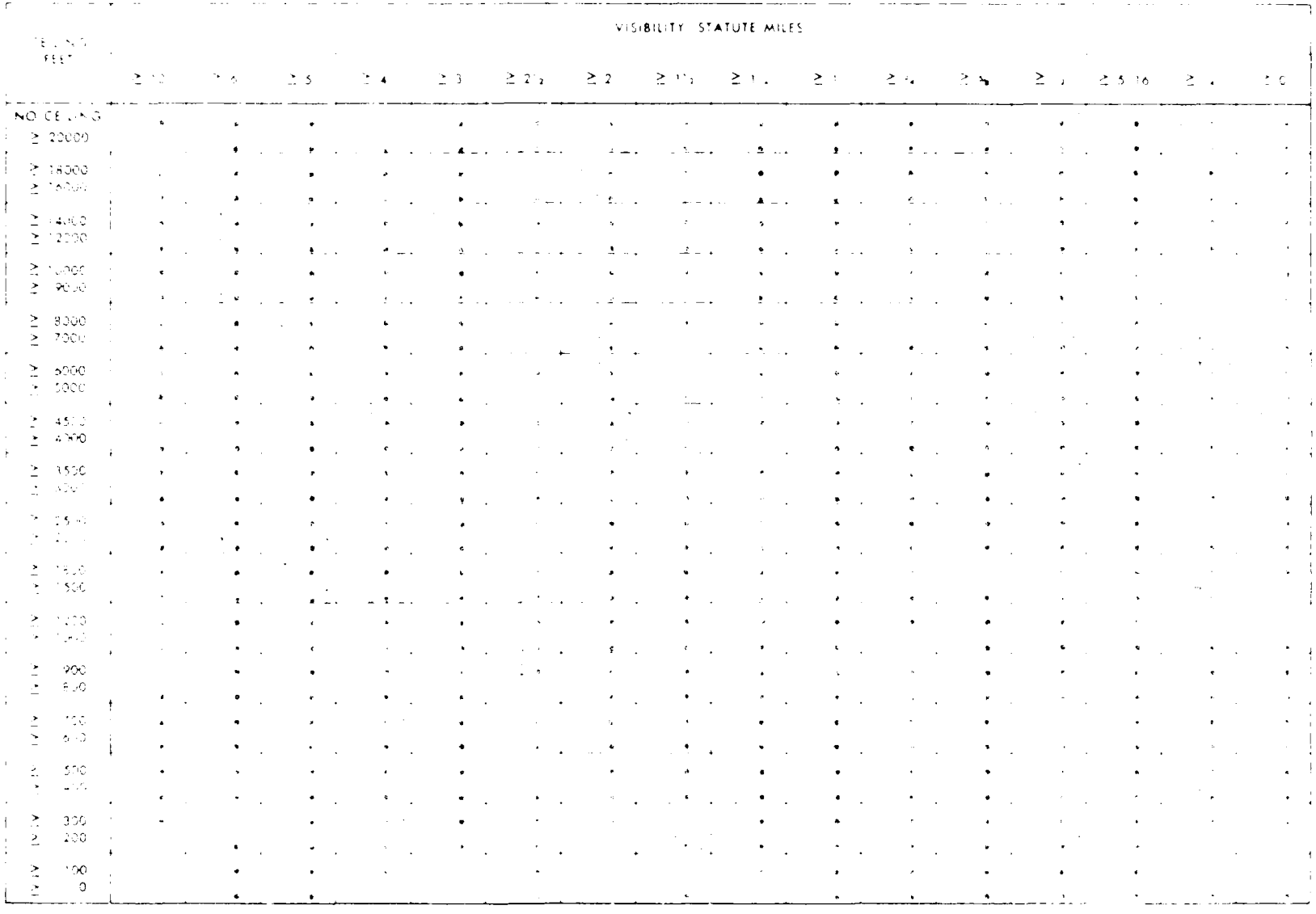
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(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

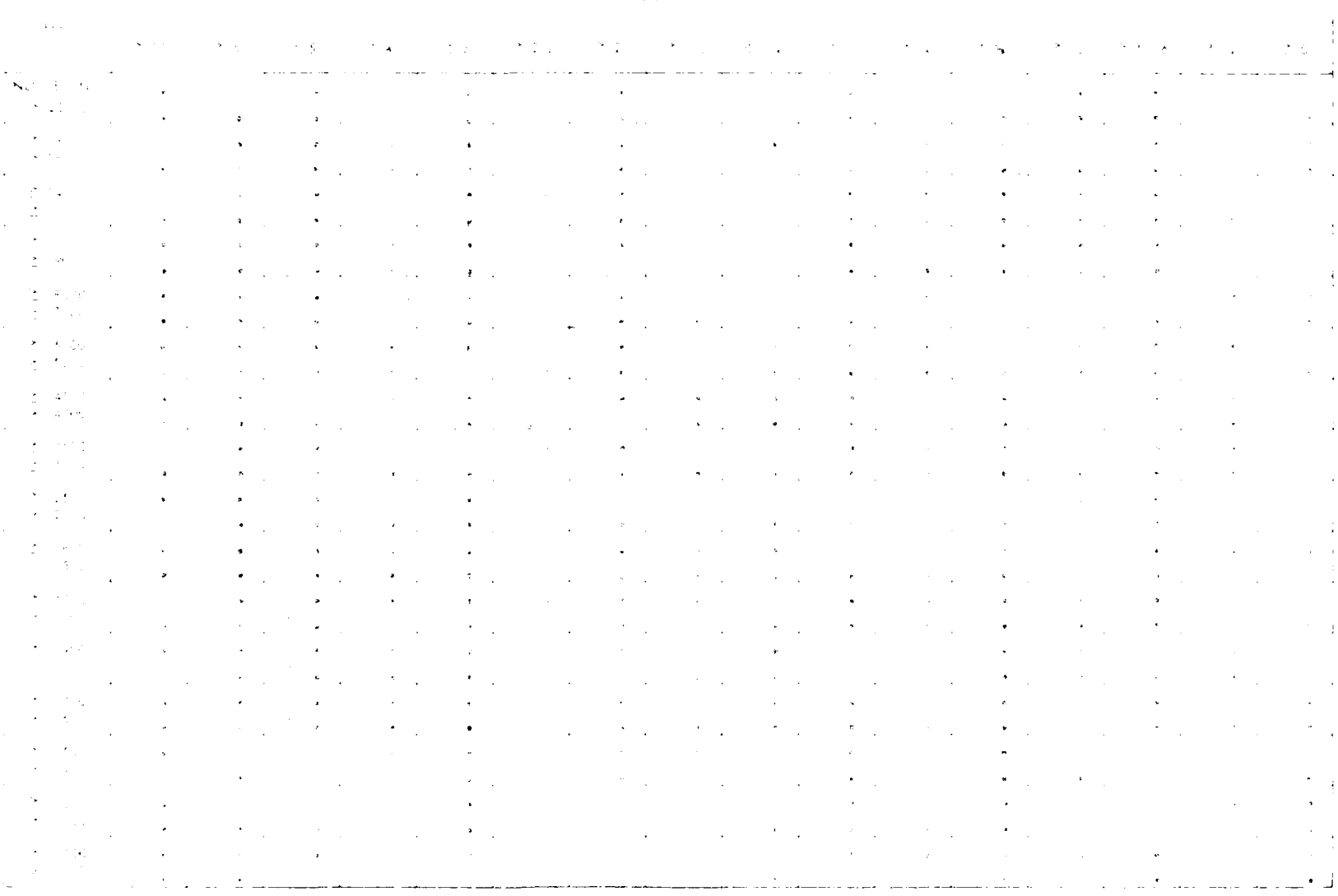
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FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

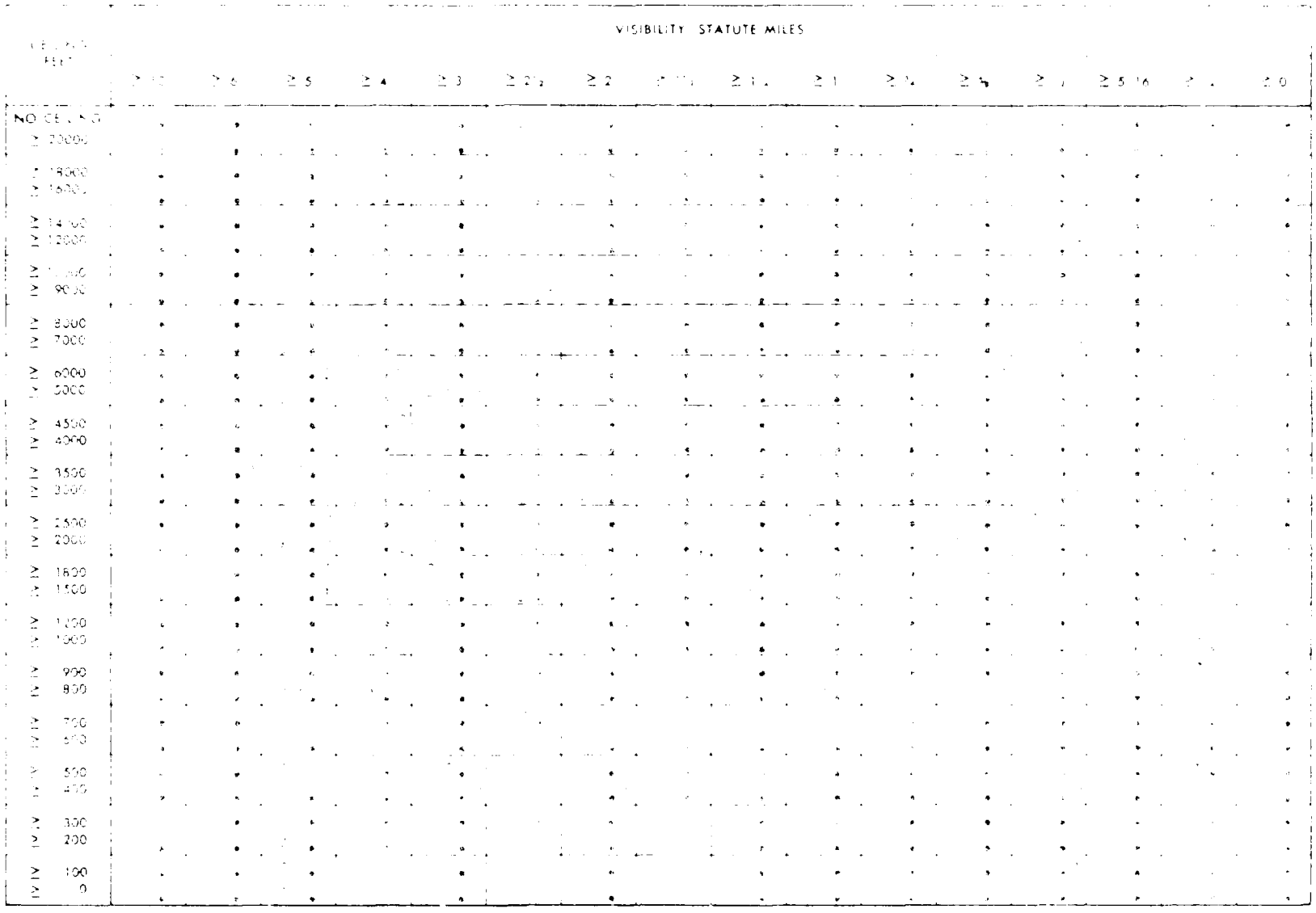
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PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

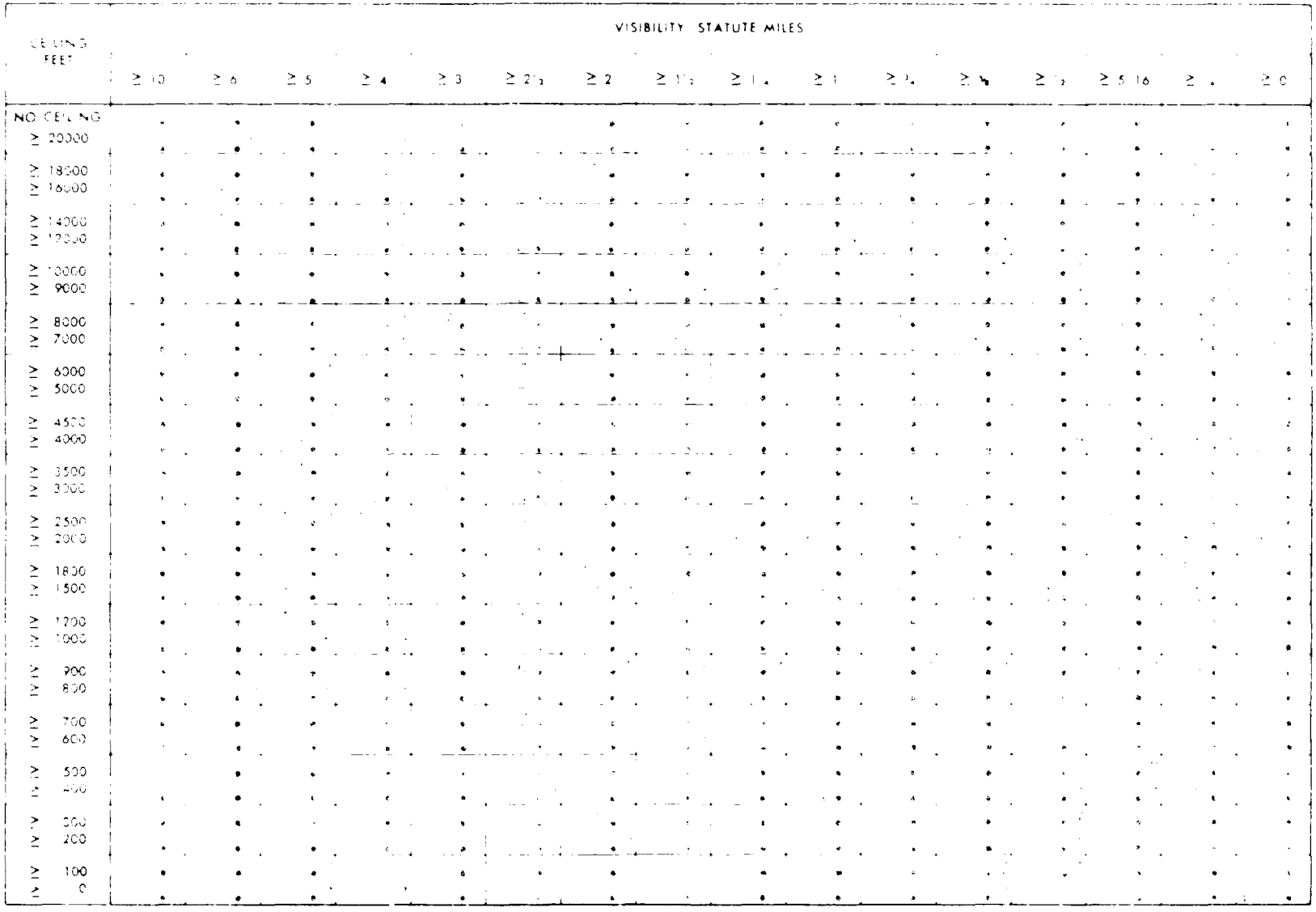


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

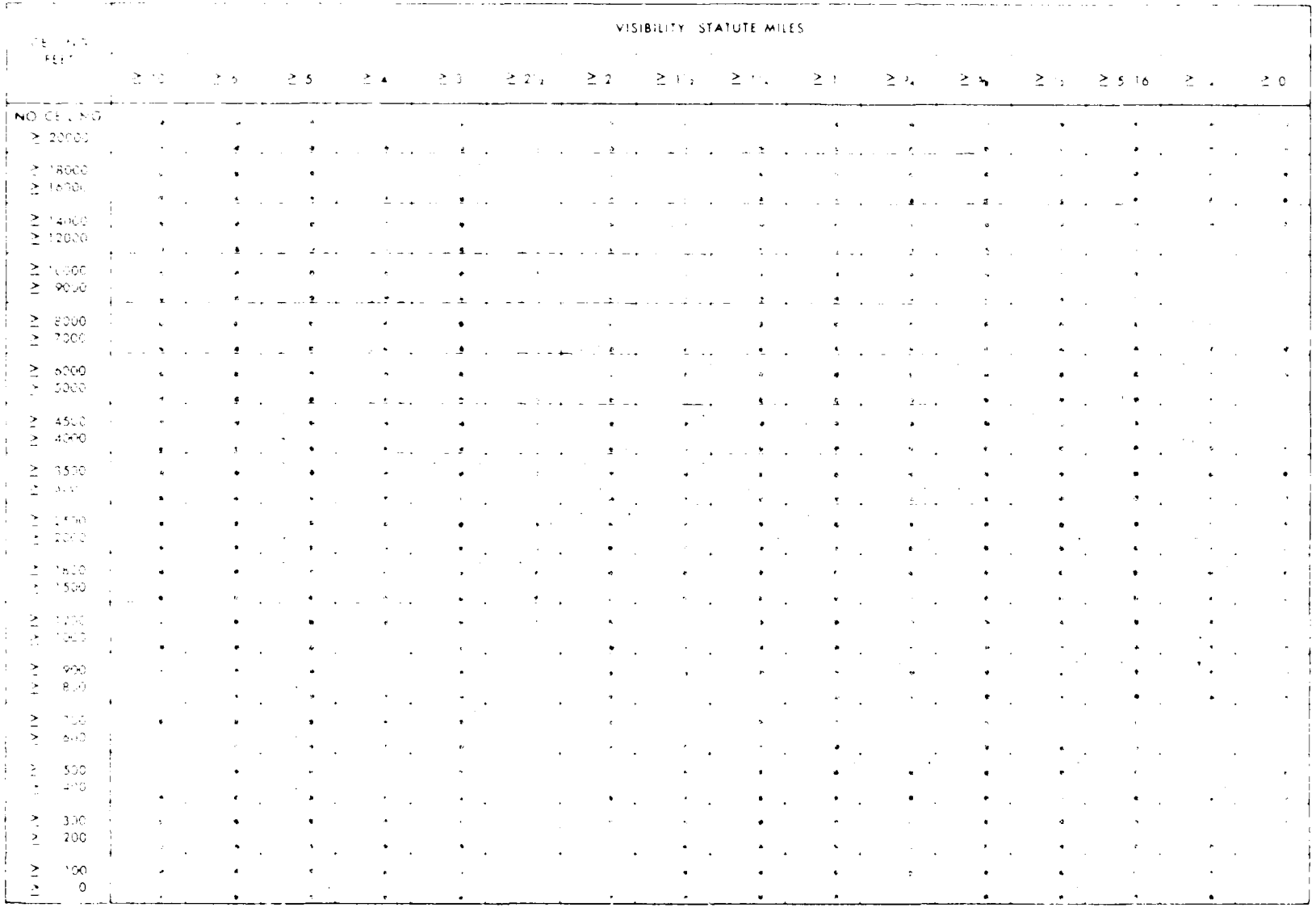
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

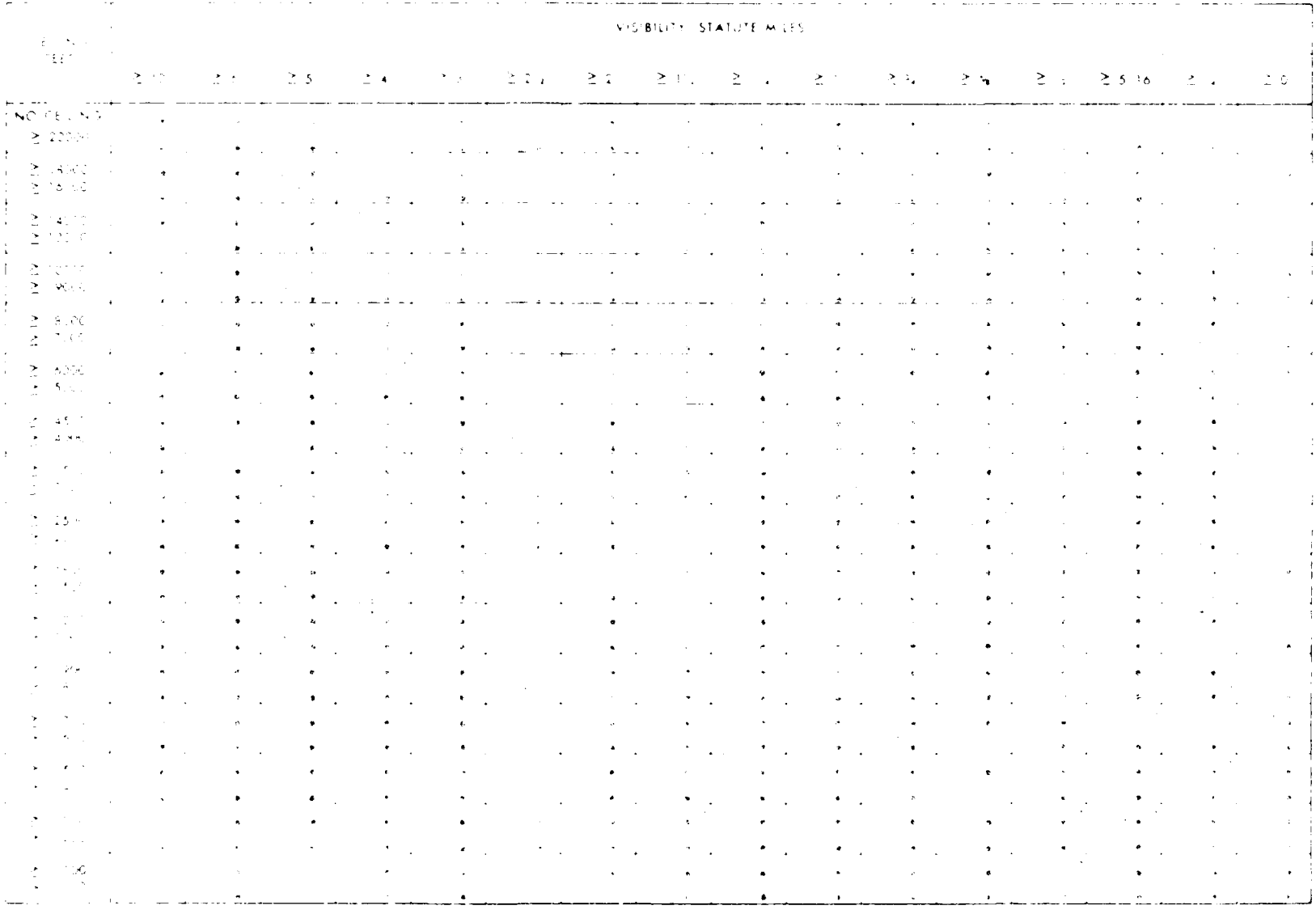
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

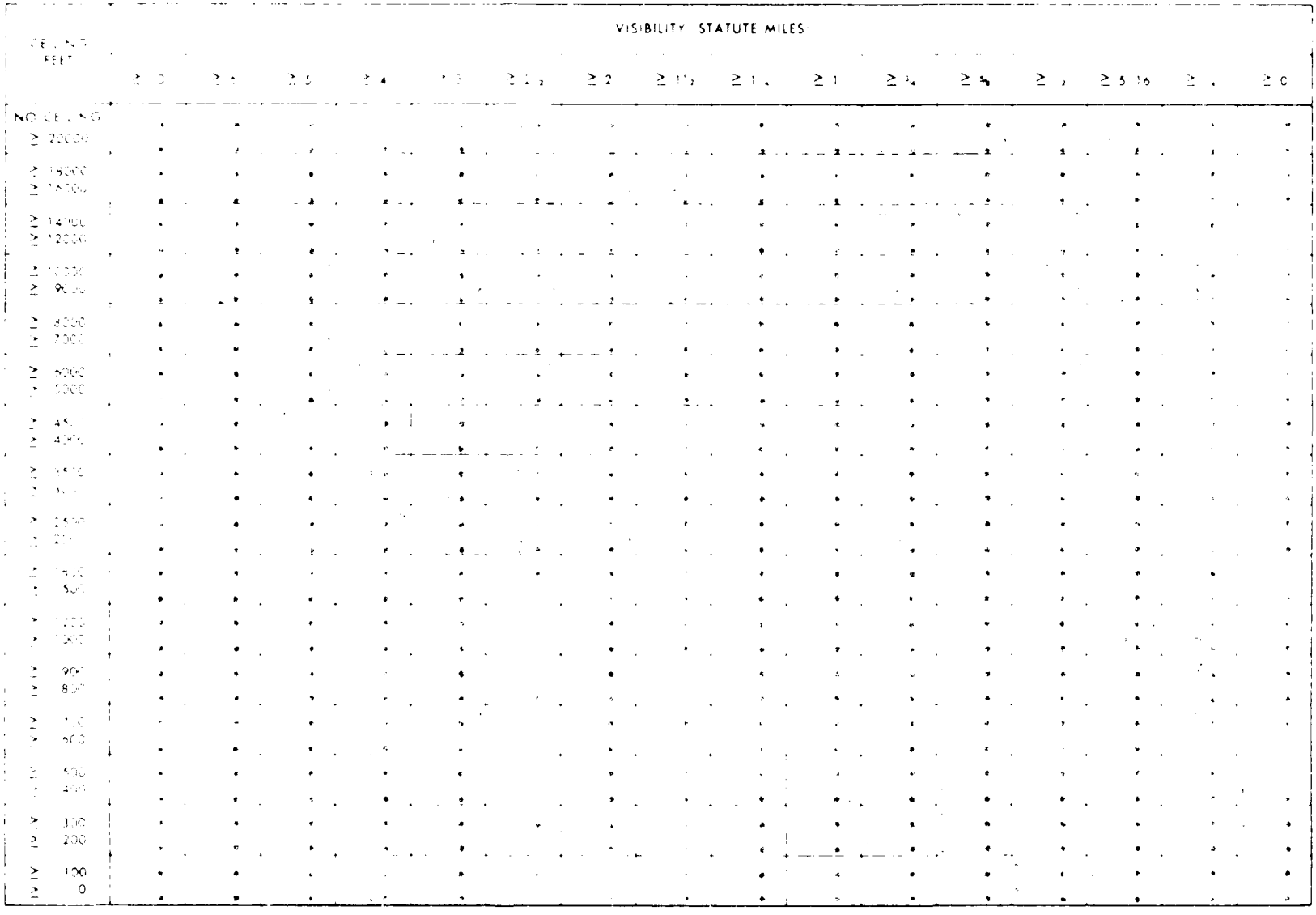
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

STATION STATE YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

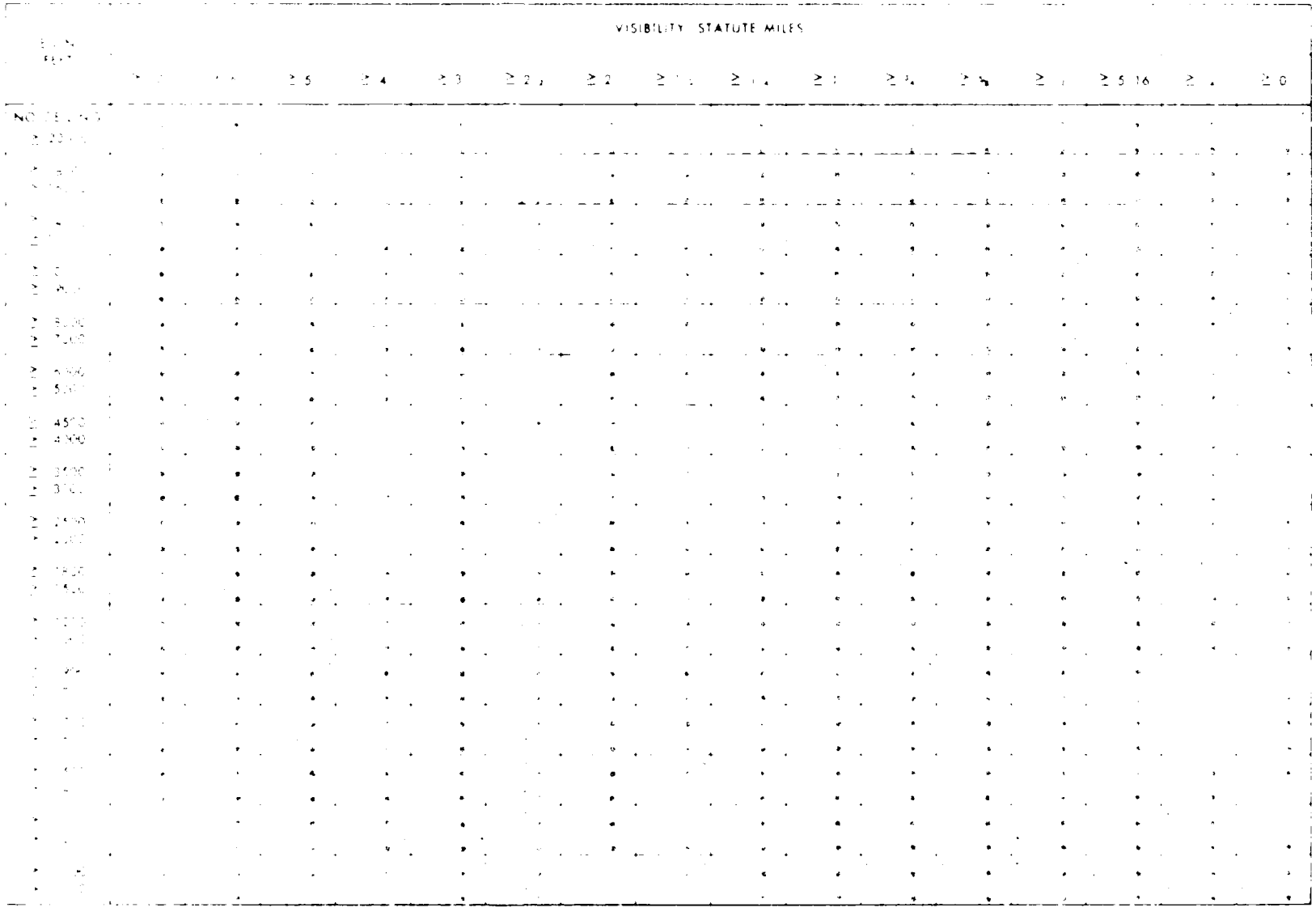


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



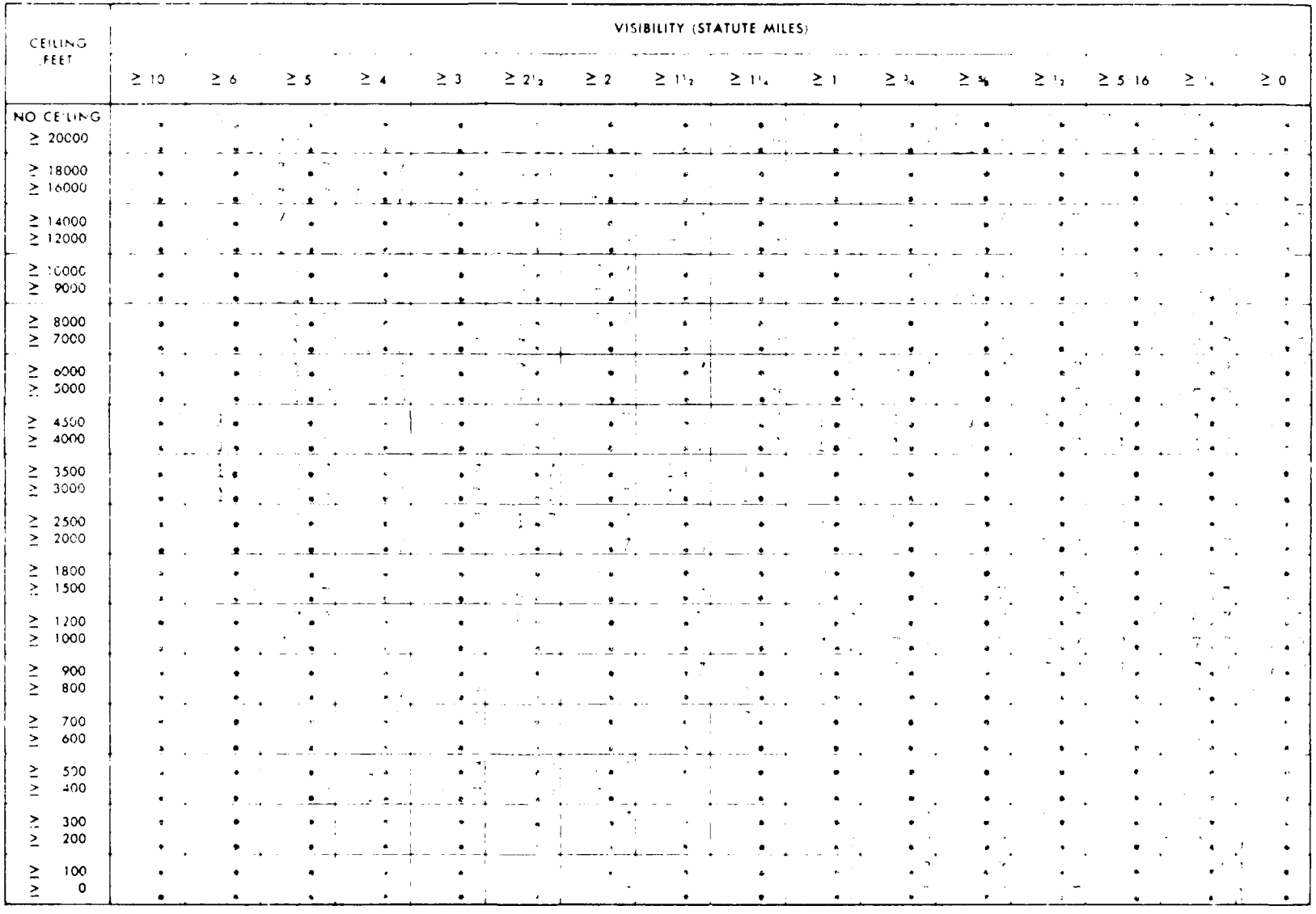
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.



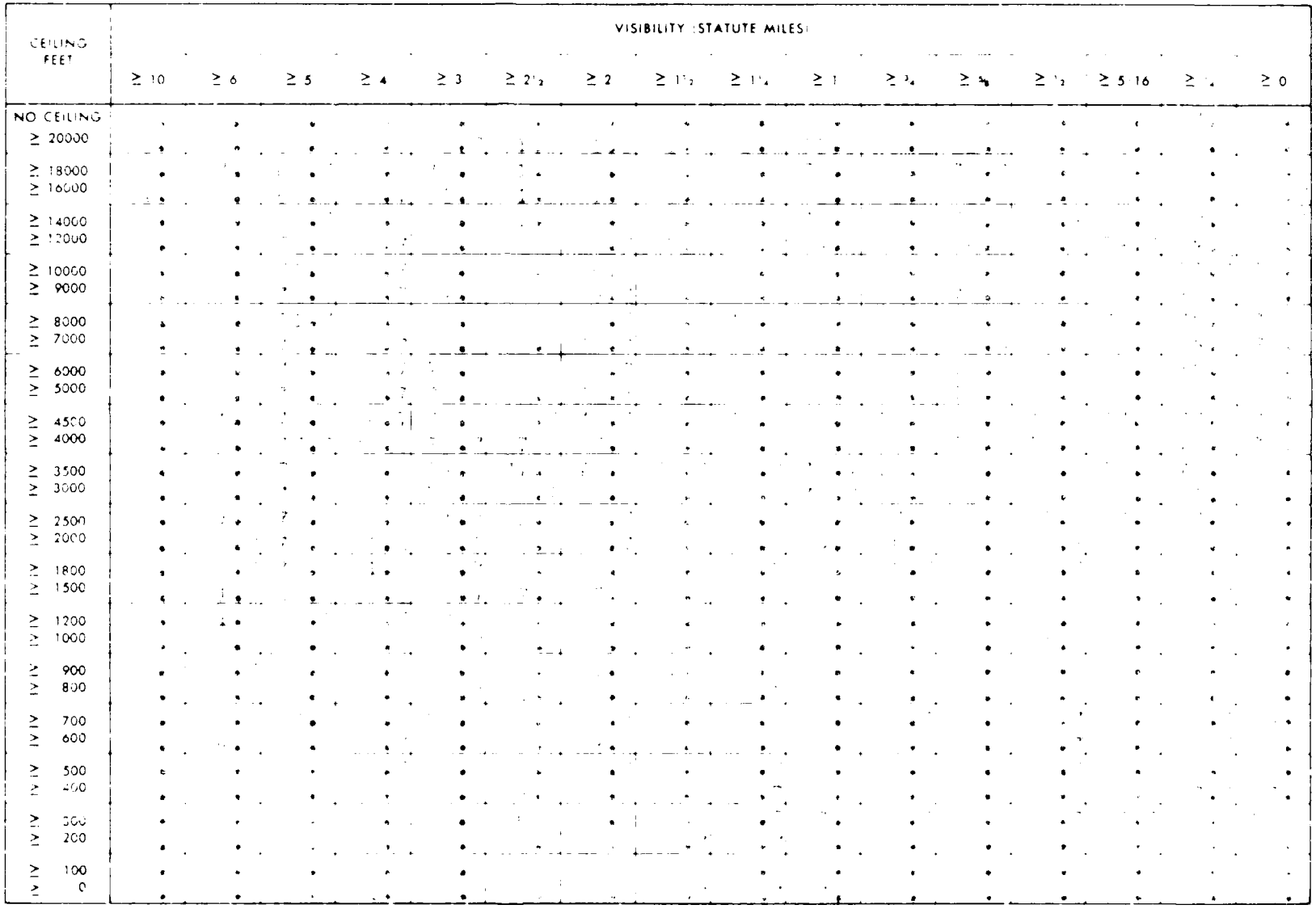
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRFNCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.



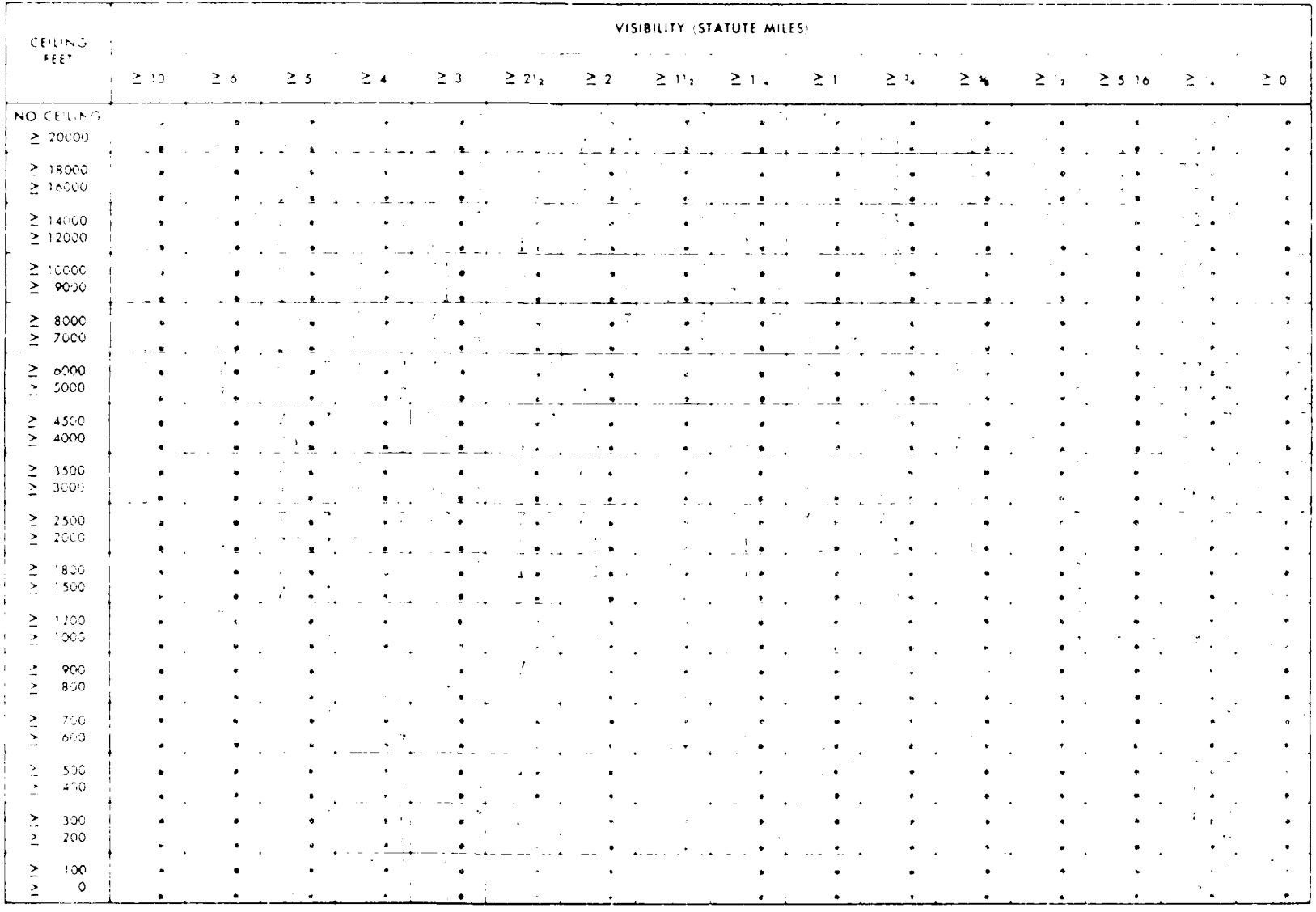
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

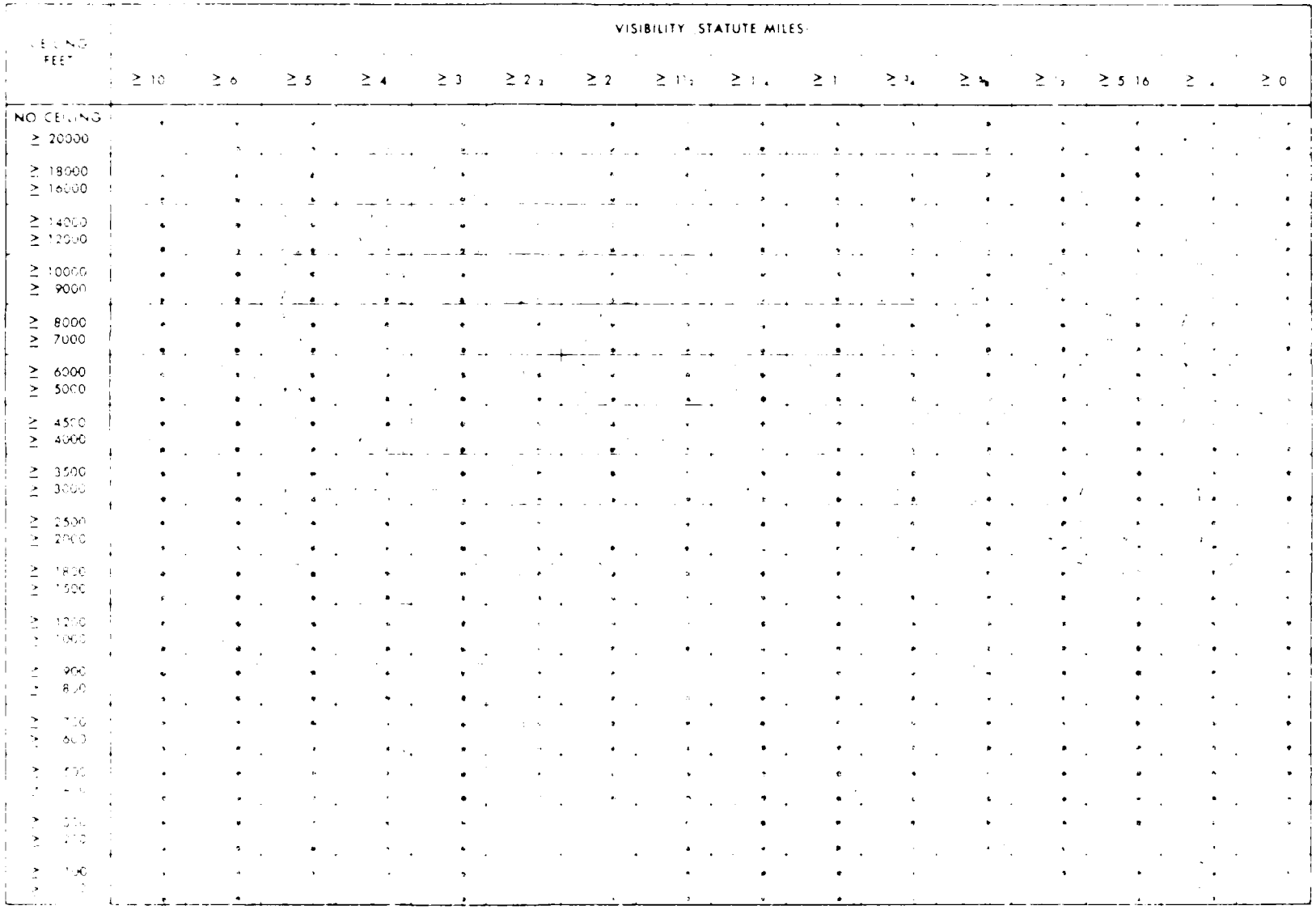


TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

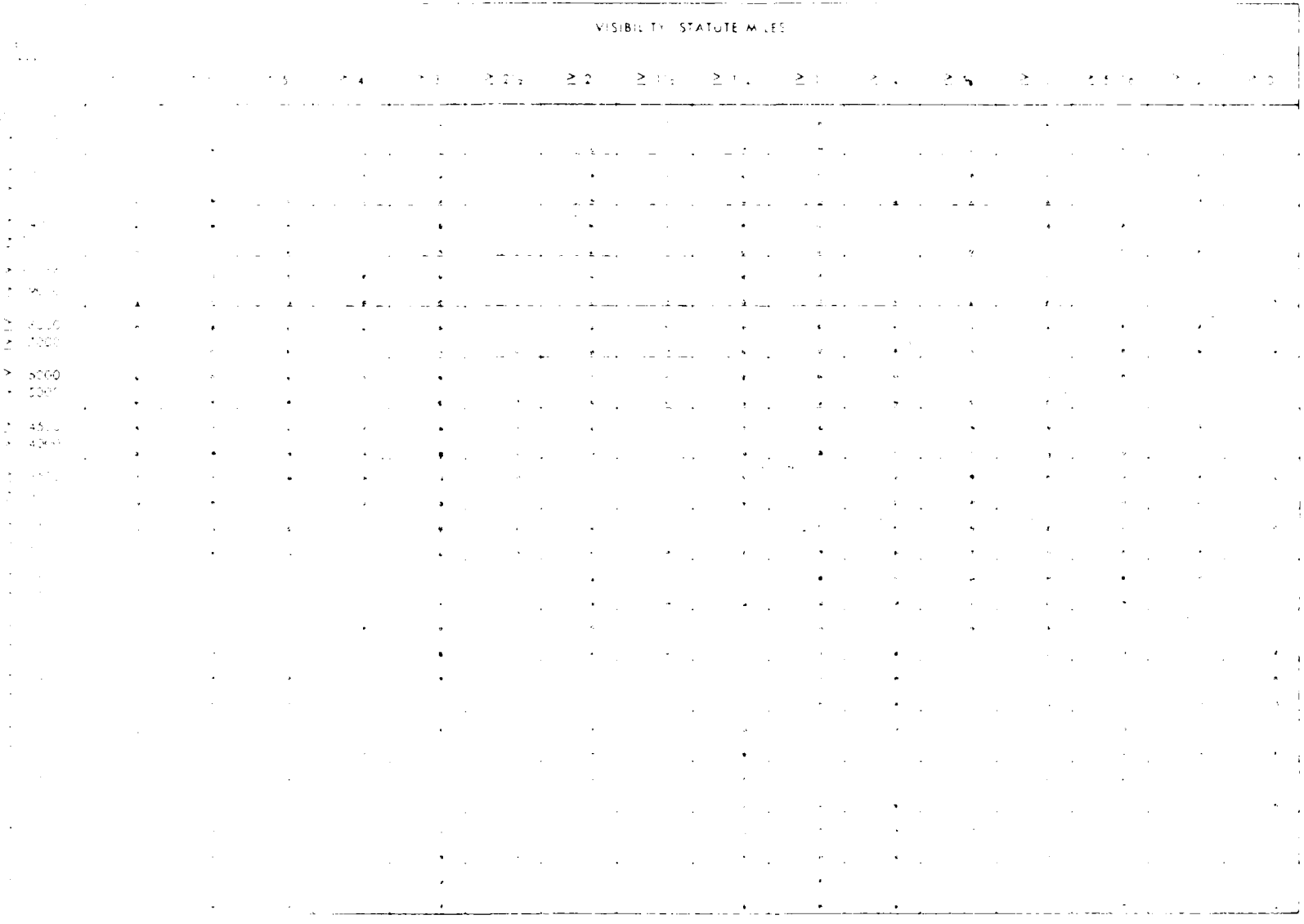
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(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

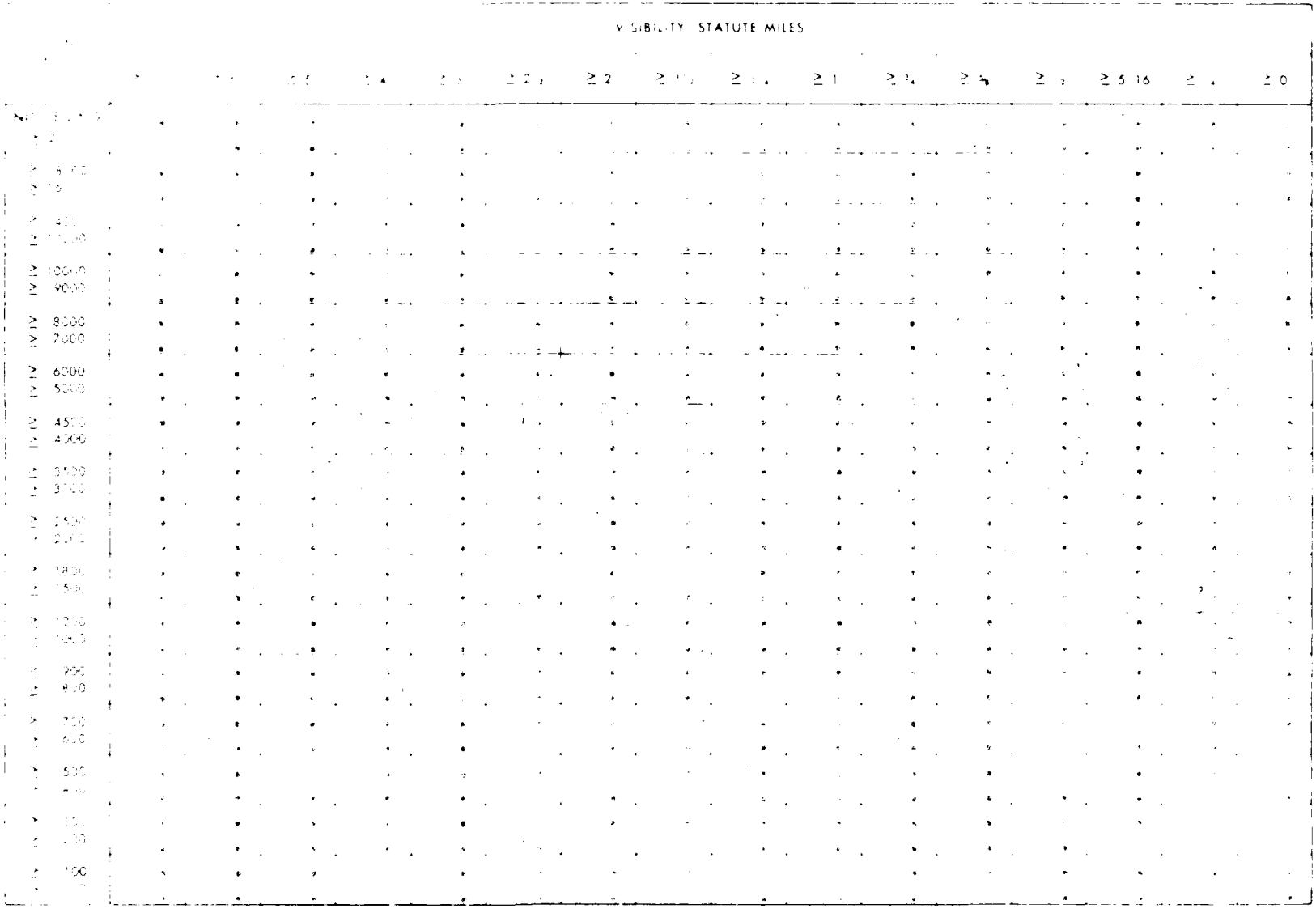
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PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

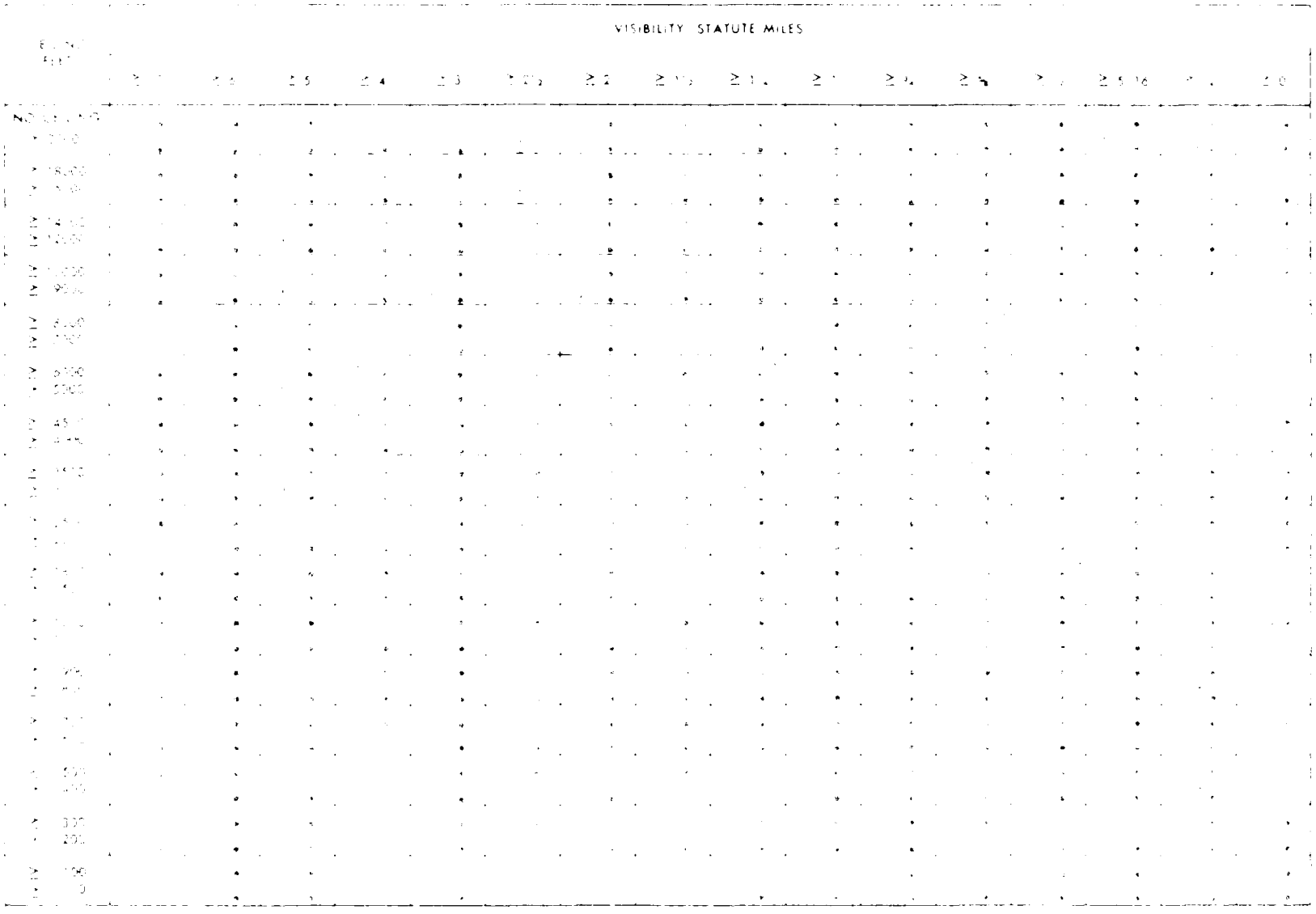
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



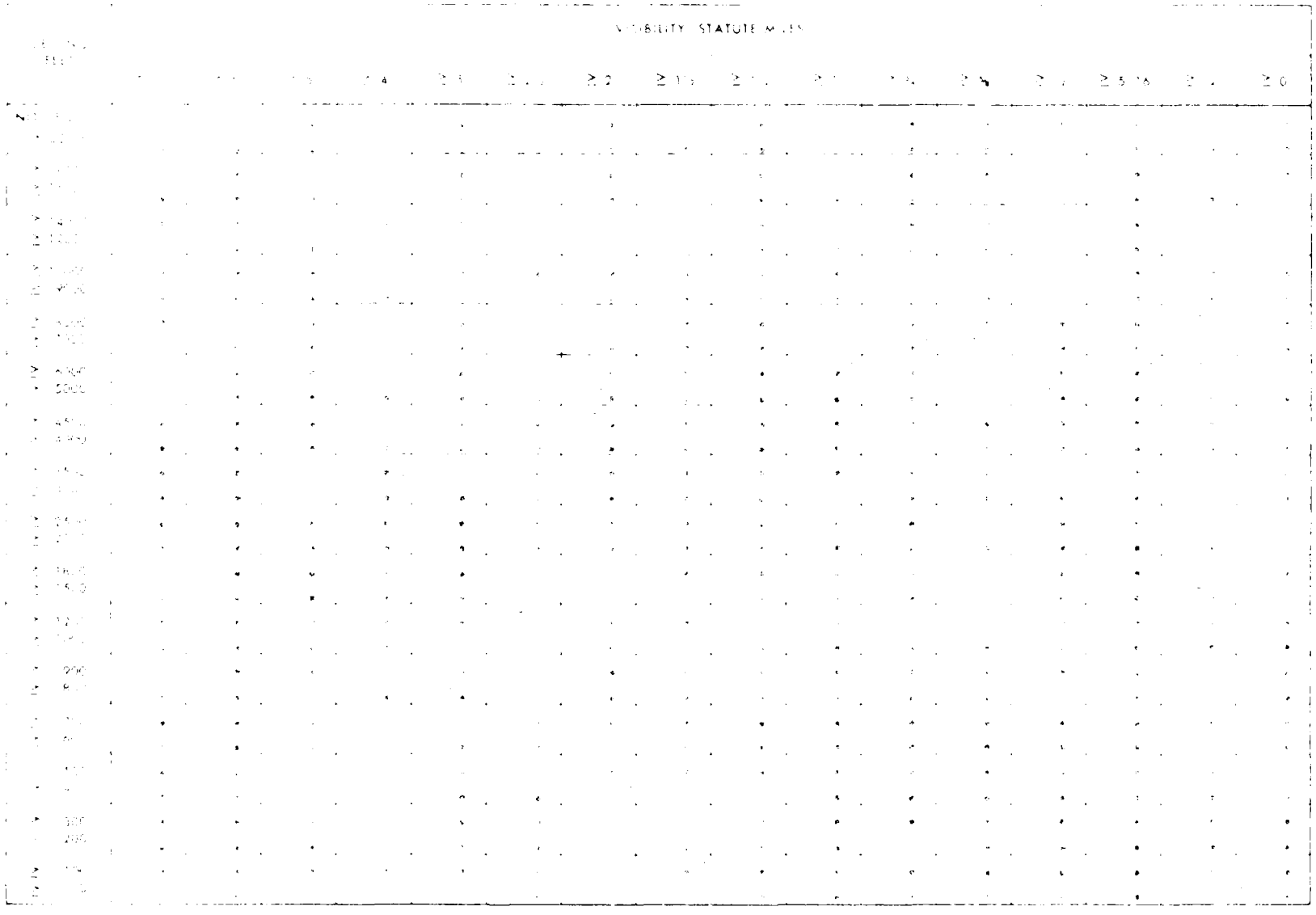
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

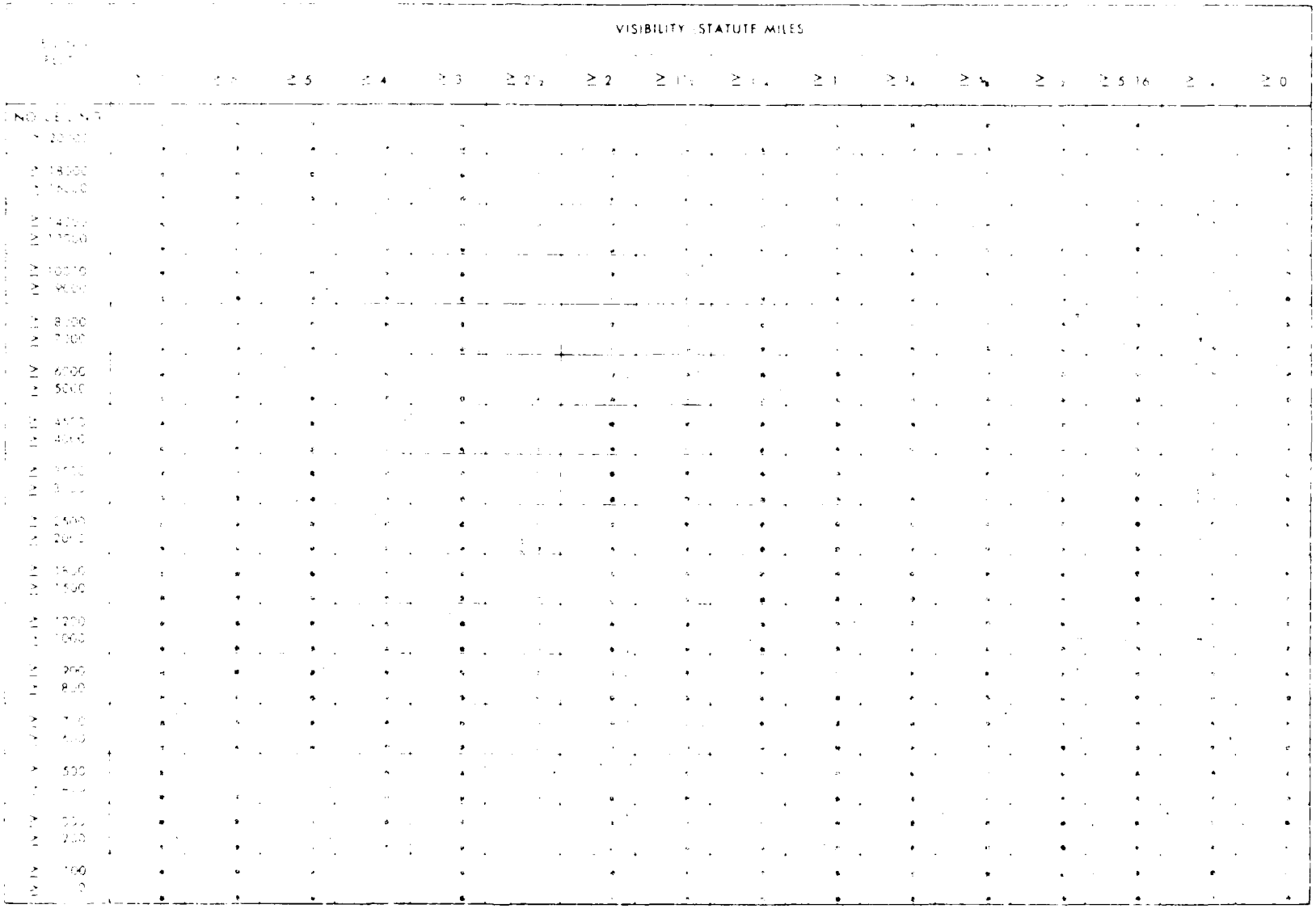
CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



CEILING VERSUS VISIBILITY

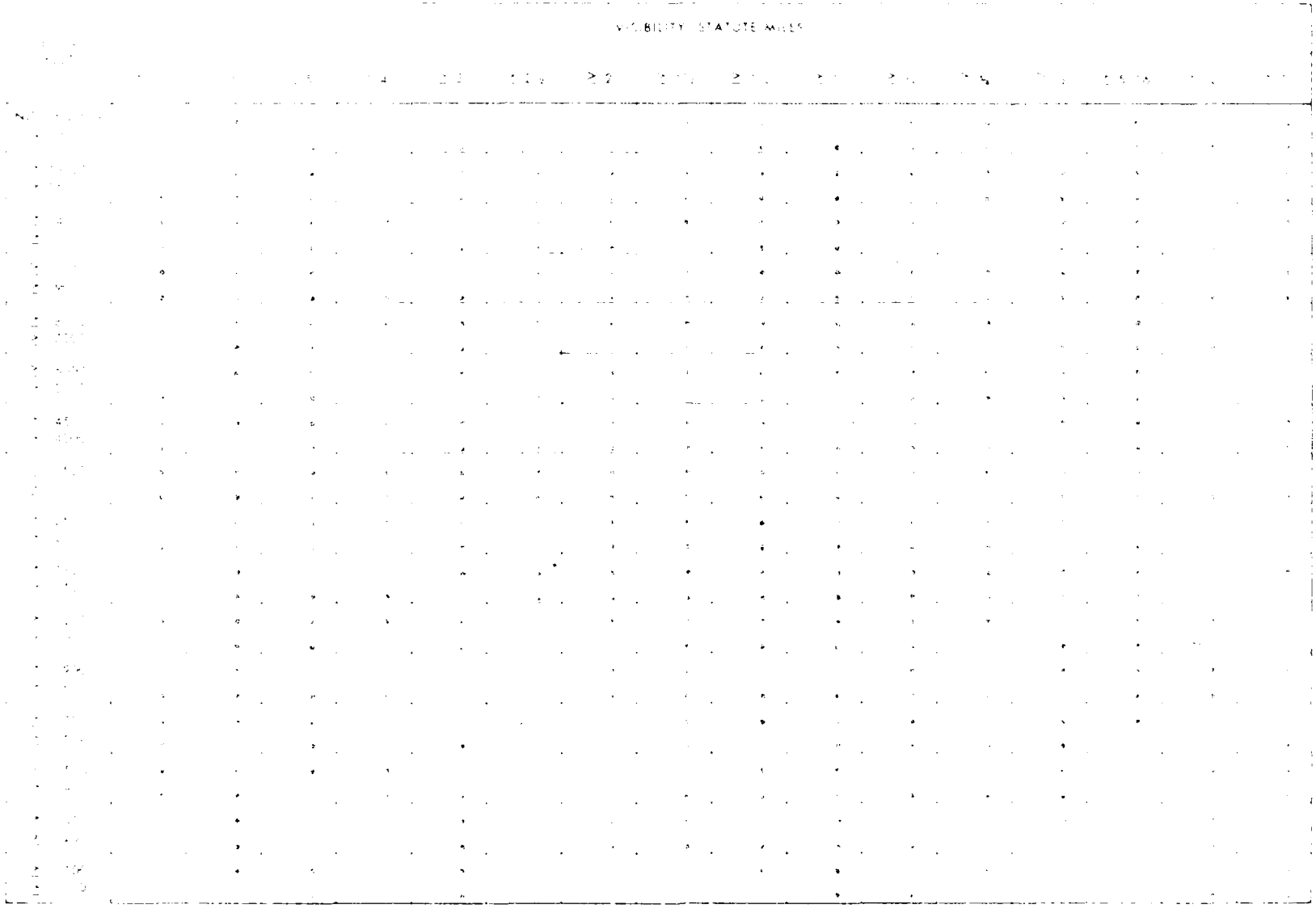
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(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

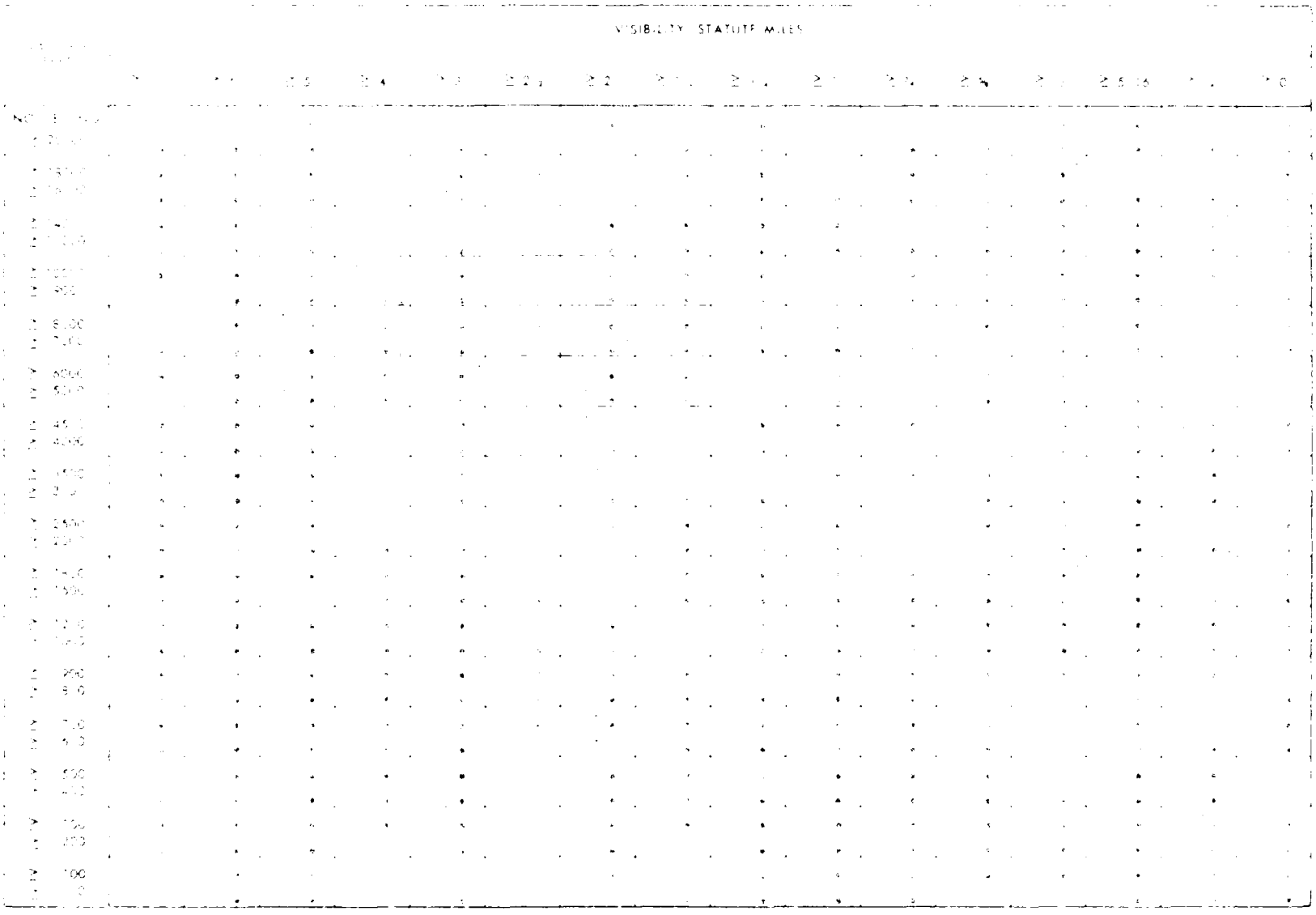
PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



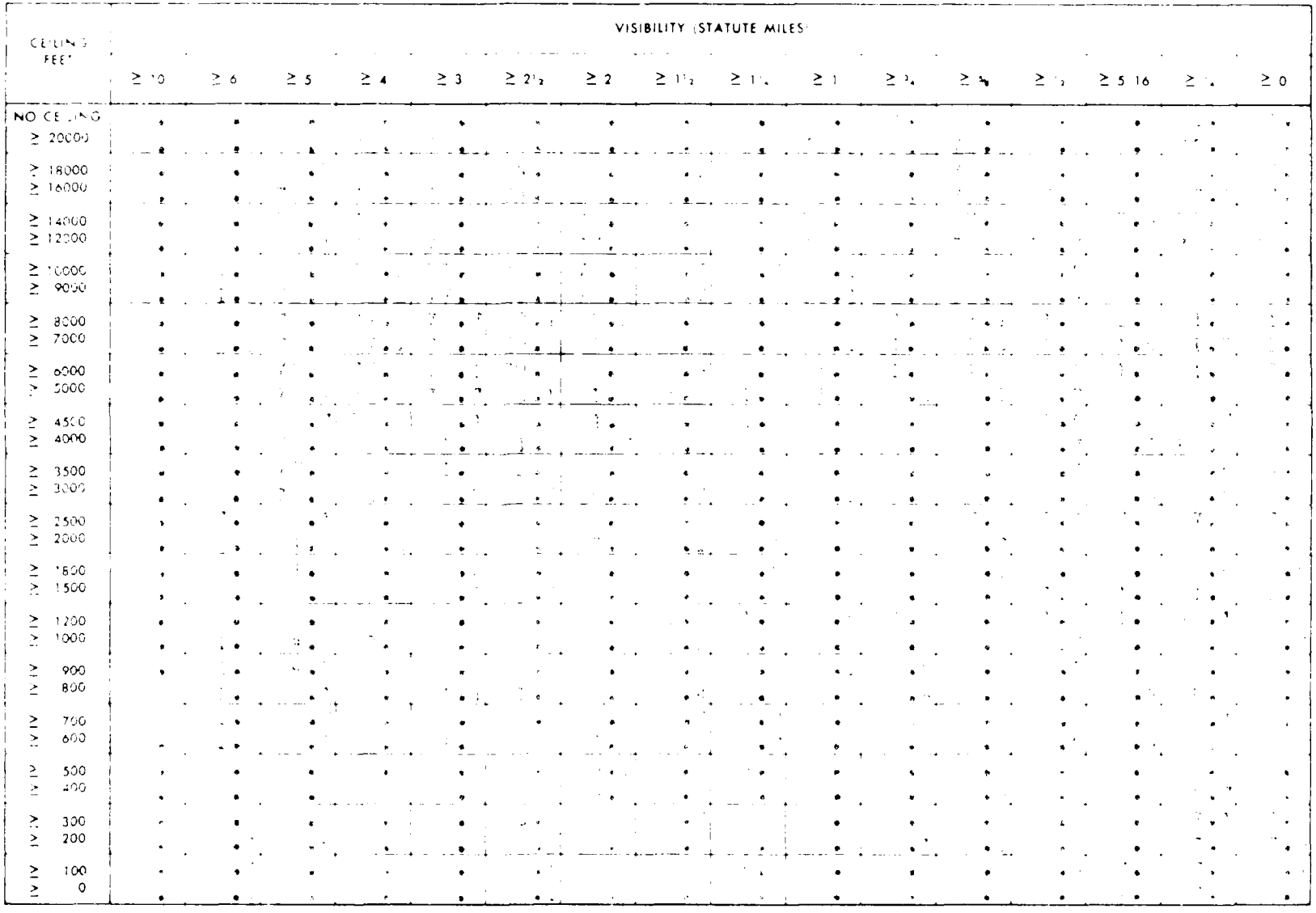
TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)



TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
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≥ 8000																
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≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
TOTALS														

SKY COVER

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
TOTALS														

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
	0	1	2	3	4	5	6	7	8	9	10		
TOTAL													

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
	0	1	2	3	4	5	6	7	8	9	10		
TOTAL													

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
	0	1	2	3	4	5	6	7	8	9	10		
TOTAL													

NAVMETOCCOM

SKY COVER

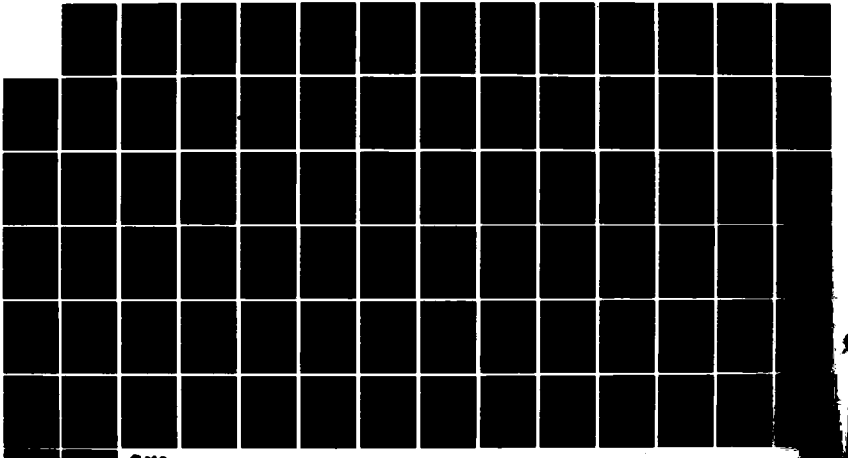
SKY COVER

MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.

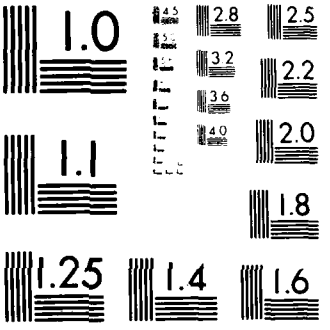
SKY COVER

AD-A150 381 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 4/4
MIRAMAR CALIFORNIA(U) NAVAL OCEANOGRPPHY COMMAND
DETACHMENT ASHEVILLE NC OCT 83

UNCLASSIFIED F/G 4/2 NL



END
4-85



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

SKY COVER

STATION STATION NAME TYPE MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
	1	2			1						1	1	.4	
		2			1						12	7	7.1	
	7	1			1						1	1	7.1	
	1	3			2						1	2	6.7	
	1	31			4						17	17	5.9	
	1	32			3						22	11	5.9	
	1	3			3						15	9	6.5	
	2	3			1						17	42	6.9	
TOTALS														

SKY COVER

STATION STATION NAME MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
	1	34.5			11.5						1.4	42.9	.6	71
		31.5			14.7						11.7	42.0	5.7	31
	7	2 .7			17.4						17.7	14.1	5.7	31
	13	3 .1			24.5						27.2	14.5	4.3	31
	1	47.5			27.1						21.4	3.4	3.3	71
	11	41.7			21.7						1 .7	9.4	3.5	71
	1	37.1			27.1						17.4	17.4	4.7	31
	12	34.5			1 .7						17.7	11.5	5.1	31
TOTALS		3 .1			21.7						1 .4	25.7	4.7	24

SKY COVER

STATION	STATION NAME	YEARS	MONTH
[illegible]	[illegible], CALIF[illegible]	[illegible]	[illegible]

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
[illegible]	[illegible]	[illegible]			1[illegible]						1[illegible].7	[illegible].3	[illegible].5	[illegible]
	[illegible]	4[illegible]			1[illegible]						1[illegible]	[illegible]	[illegible].7	[illegible]
	[illegible]	[illegible]			[illegible]1[illegible]						1[illegible]	1[illegible]	[illegible].5	[illegible]
	1[illegible]	3[illegible]			[illegible].7						[illegible]	12.7	[illegible].1	[illegible]
	1[illegible]	31.7			[illegible]1[illegible]						[illegible].3	1[illegible].7	[illegible].4	[illegible]
	1[illegible]	[illegible]			[illegible].7						[illegible]	1[illegible]	[illegible].4	[illegible]
	1[illegible]	3[illegible]			2[illegible]						[illegible]	1[illegible]	[illegible].3	[illegible]
	[illegible]	44.7			1[illegible].7						13.7	[illegible]	[illegible].1	3[illegible]
TOTALS		[illegible]			2[illegible]						1[illegible].1	17.6	[illegible].3	[illegible]

SKY COVER

STATION [illegible] STATION NAME [illegible] MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
[illegible]	01	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	07	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	13	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	19	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	1	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	1	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	1	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
TOTALS		[illegible]			[illegible]						[illegible]	[illegible]	[illegible]	[illegible]

SKY COVER

STATION _____ STATION NAME _____ PERIOD _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
	ALL	22.7			2-.5						27.1	27.7	5.1	24
		27.8			24.0						21.2	24.2	5.1	2154
		27.			32.2						2 .4	14.3	5.4	24
		22.1			1 ..						21.9	2 .4	5.1	2399
		21.9			1 .1						1 .9	42.3	5.5	24
		2 .			21.7						1 .1	35.7	5.4	2400
		2 .8			21.						1 .9	29.6	5.1	24 1
		27.			2 .7						15.6	31.2	5.2	24
		2 .3			27.						1 .5	33.4	5.4	24
		3 .1			21.						1 .	25.7	4.7	24
		27.3			2 .5						1 .1	17.6	4.3	24
		3 .			27.4						17.1	1 .9	4.2	2477
	TOTALS	.4			22.						1 .1	2 .6	5.1	29213

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:

   a. Daily maximum temperature
   b. Daily minimum temperature
   c. Daily mean temperature

2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:

   a. Extreme maximum temperature
   b. Extreme minimum temperature

   NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:

   a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

      NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means ($\bar{X}$), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

a. Dry-bulb temperature
b. Wet-bulb temperature
c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

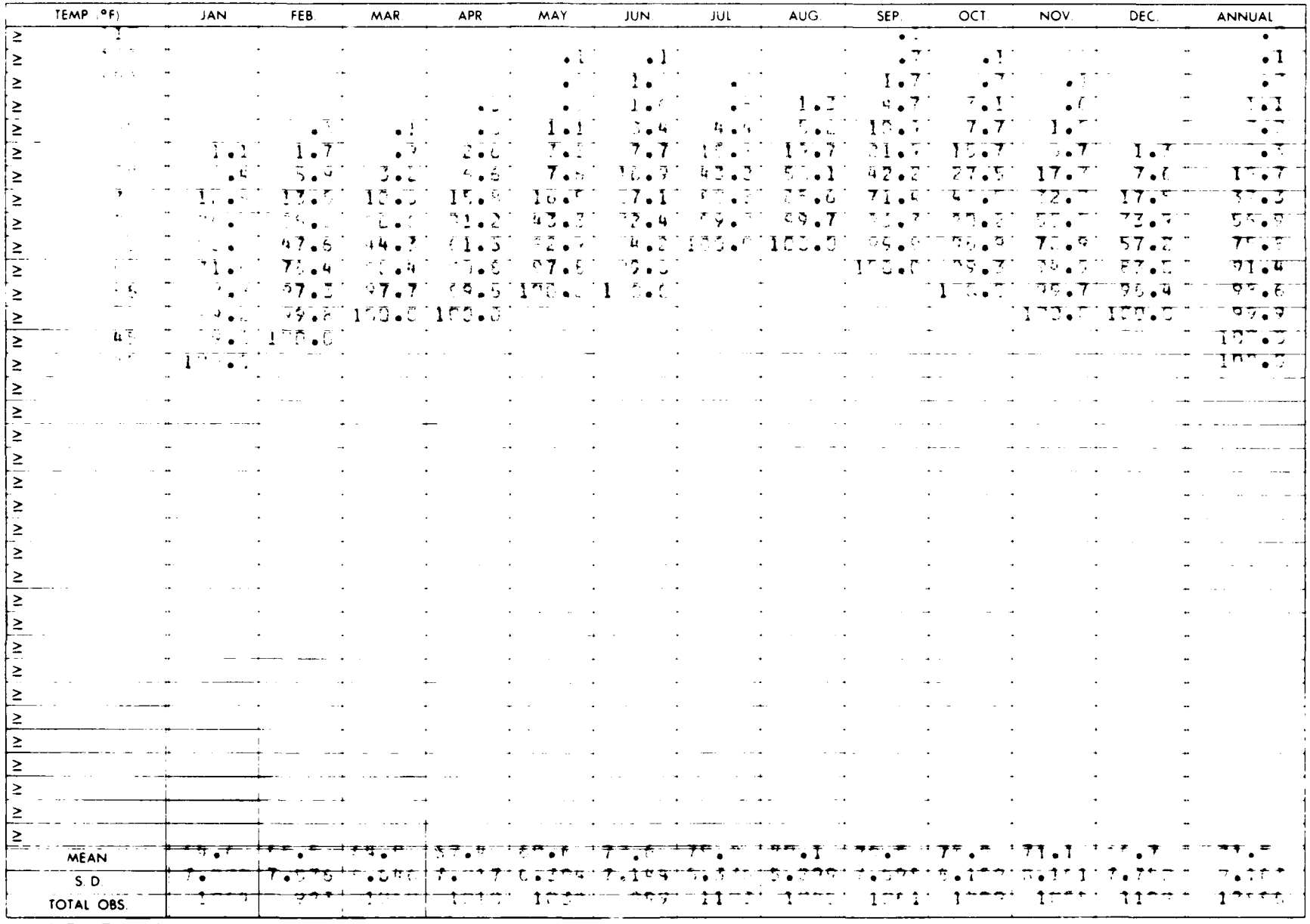
b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Cumulative frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry-bulb temperatures spread vertically in four degree increments and horizontally by wind directions (plus calm).

DAILY TEMPERATURES

STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

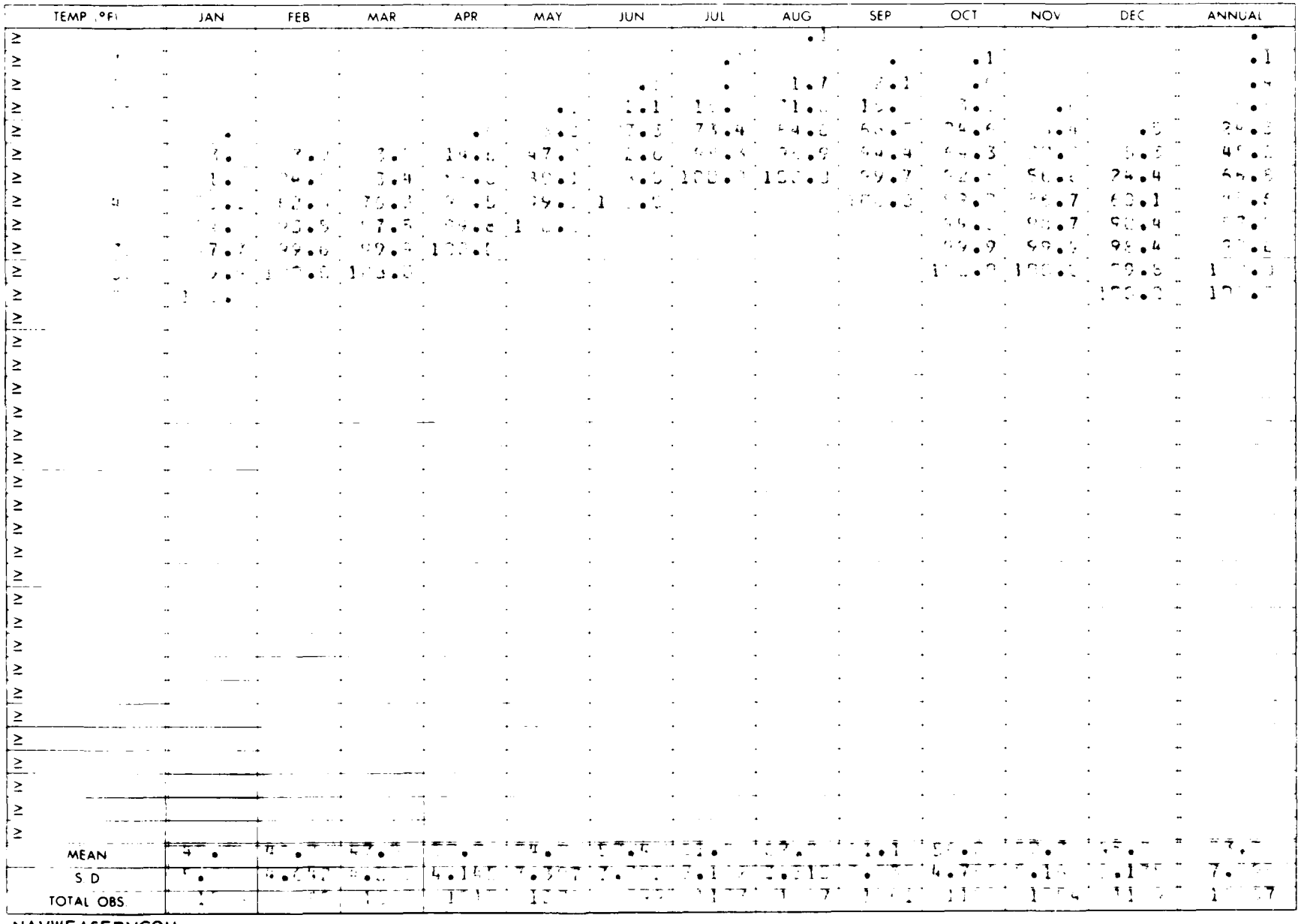


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DAILY TEMPERATURES

STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

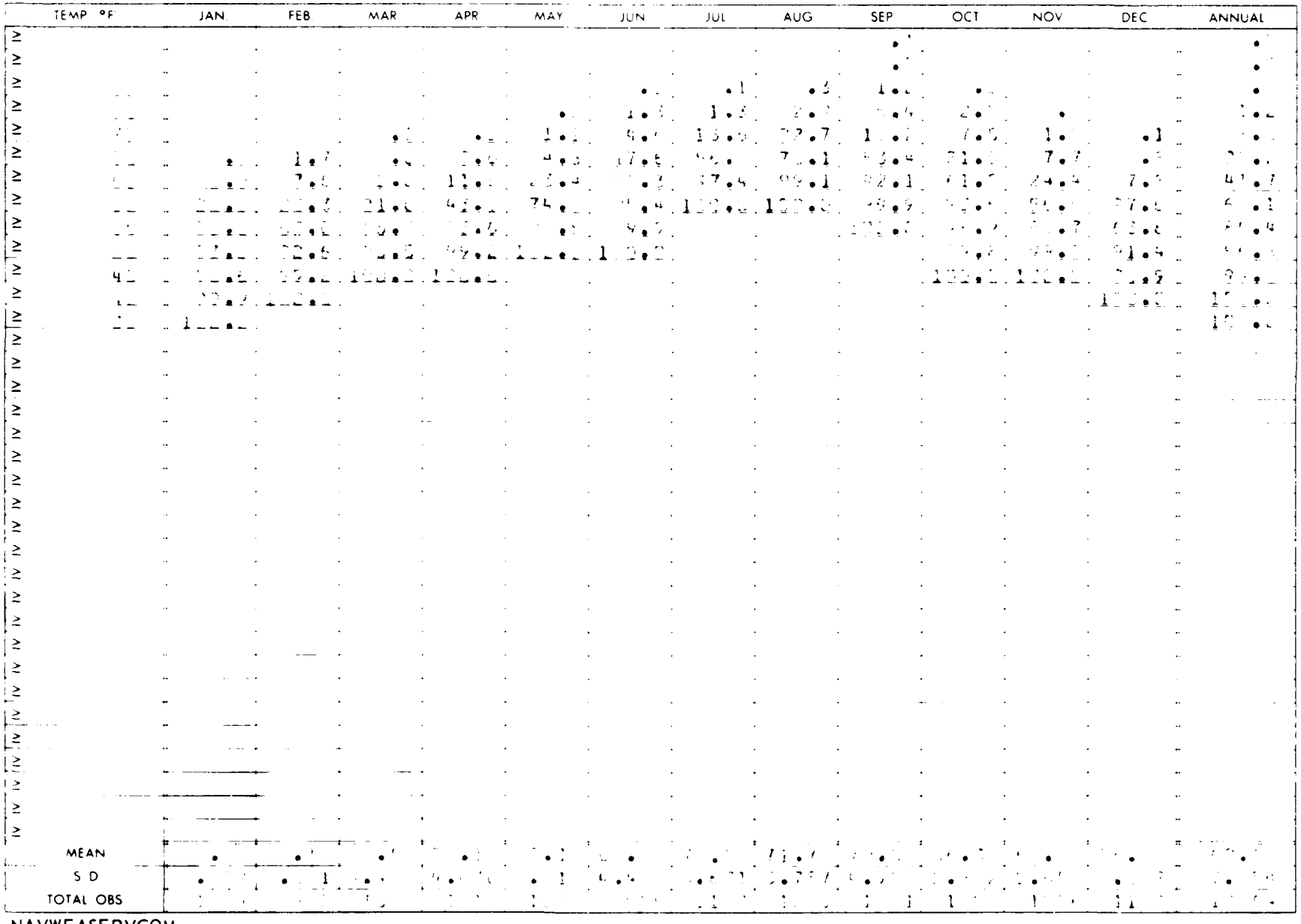


NAVWEASERVCOM

DAILY TEMPERATURES

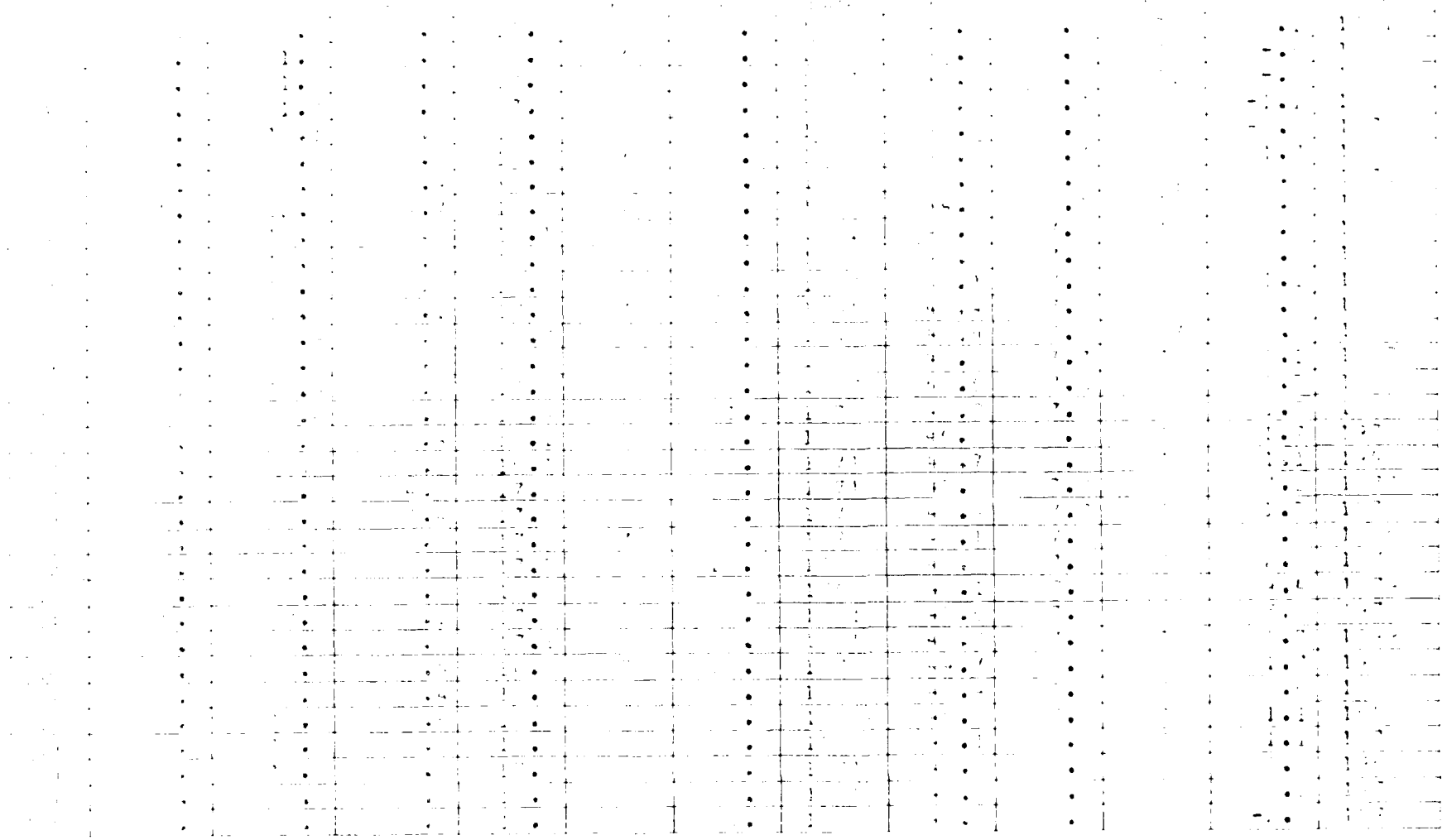
STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

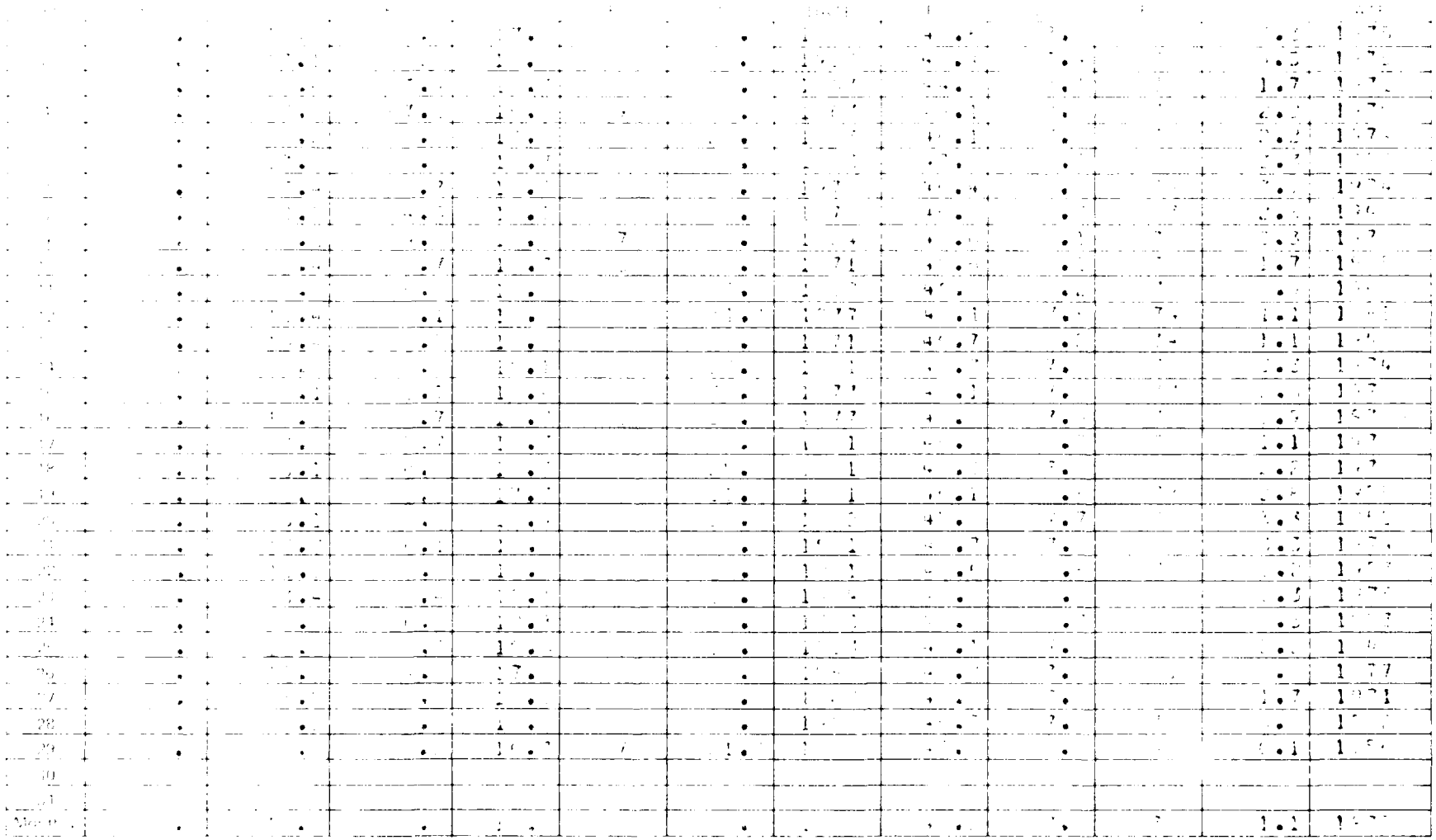


NAVWEASERVCOM

DAILY AVERAGE/EXTREME TEMPERATURES



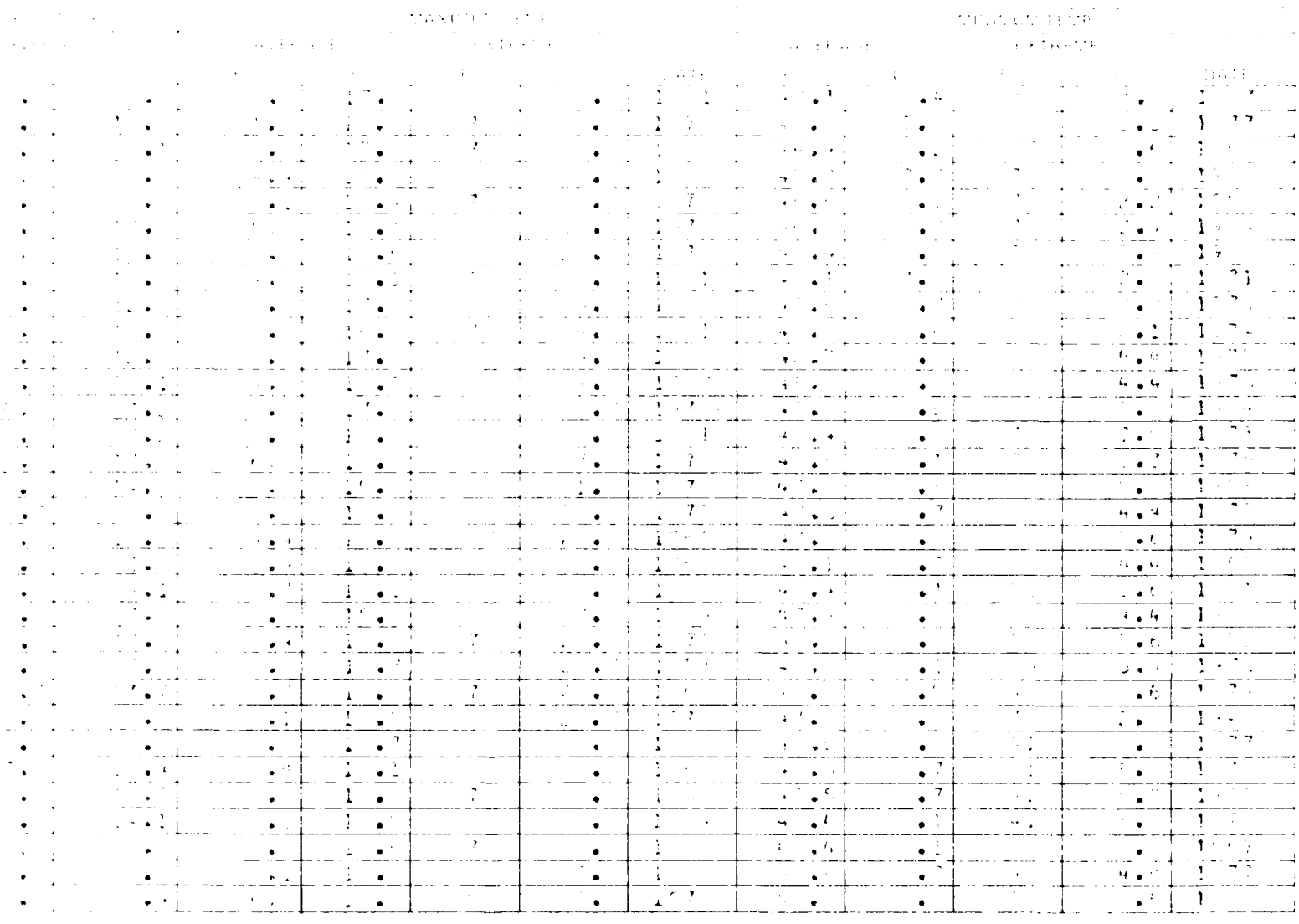
DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO OF EARLIER YEARS

3

DAILY AVERAGE/EXTREME TEMPERATURES



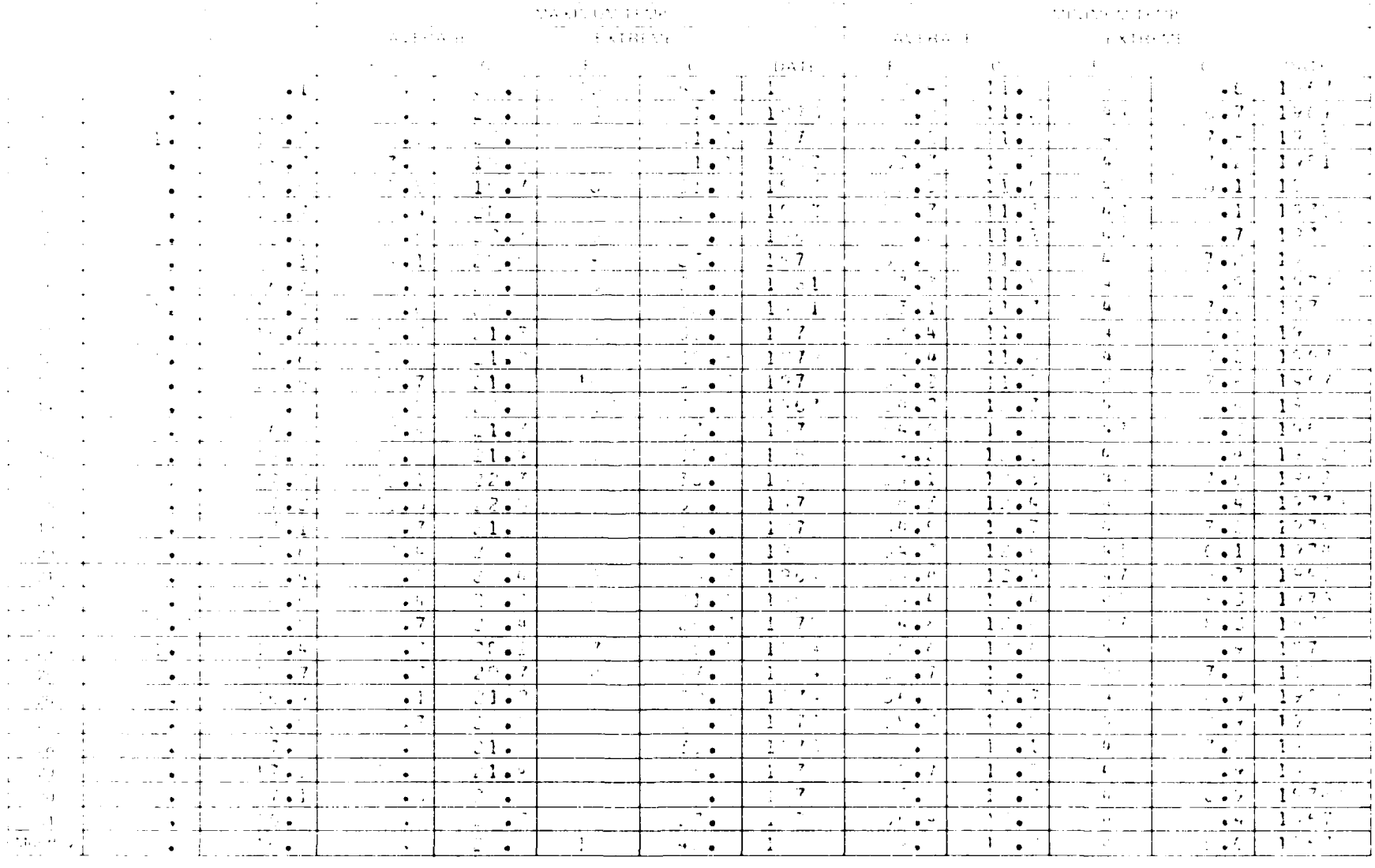
*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

	MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		EXTREME				AVERAGE		EXTREME			
	F	C	F	C	DATE		F	C	F	C	DATE	
1												
2												
3												
4												
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30												
31												
Month's												

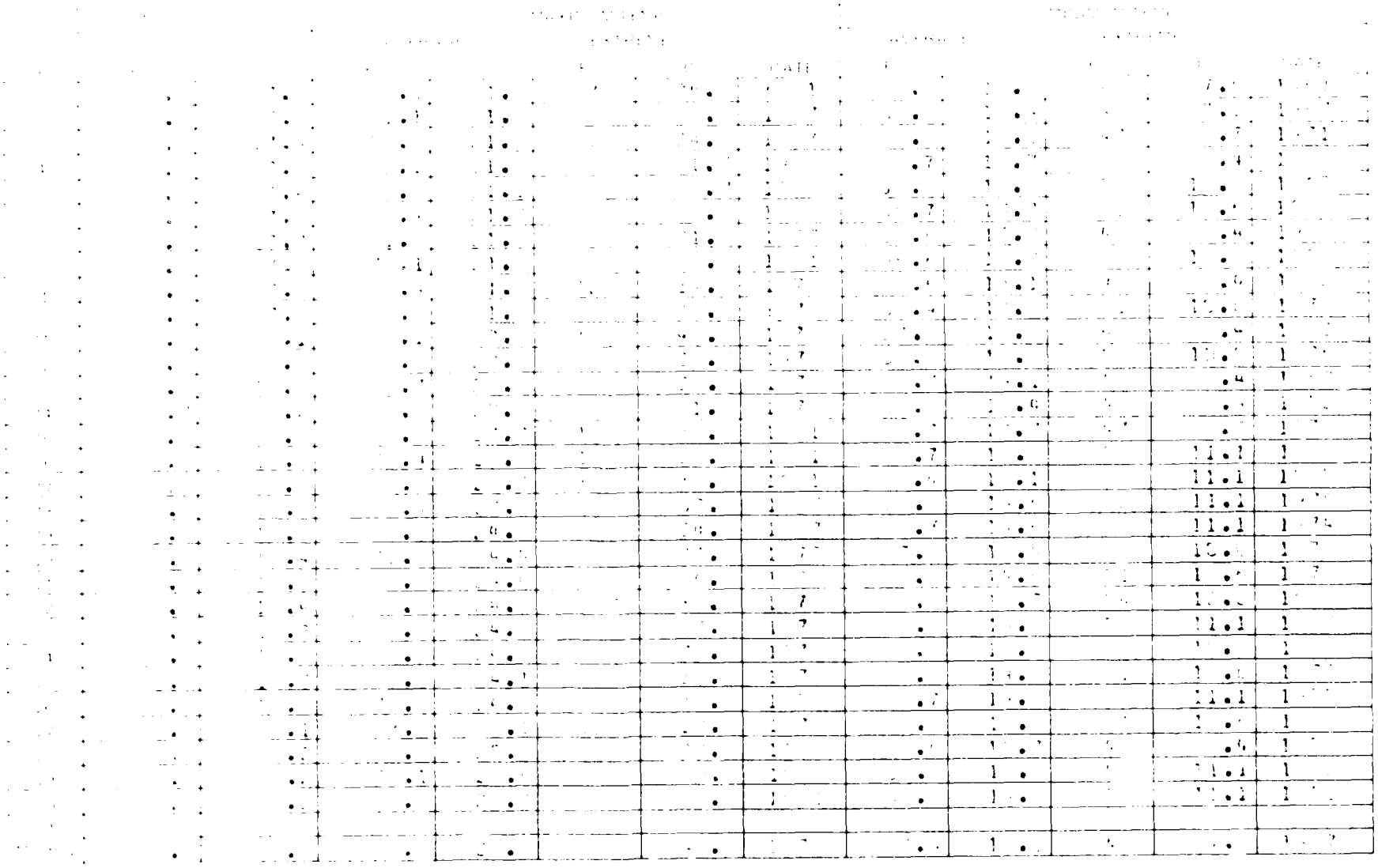
*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO ON EARLIER YEARS

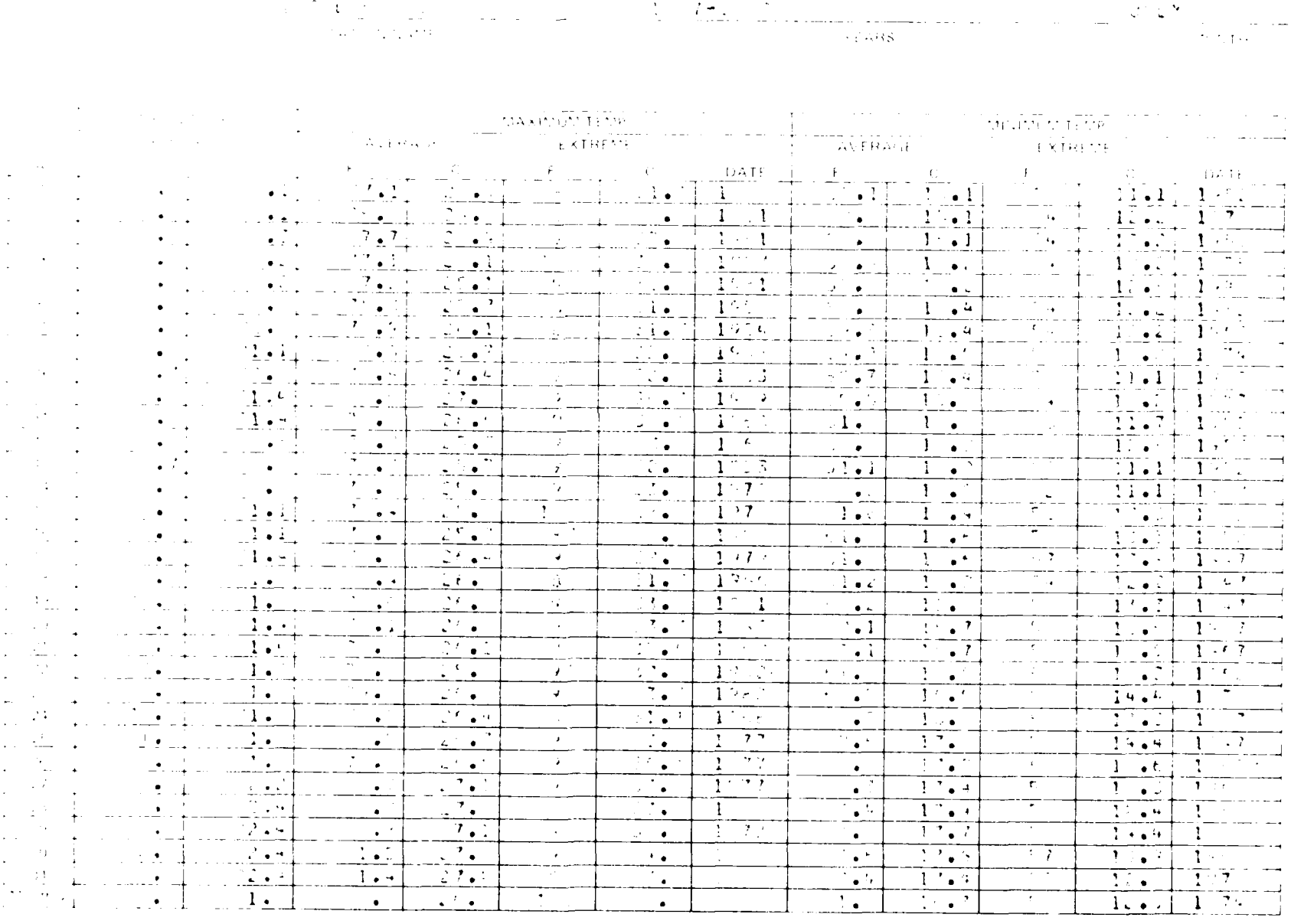
DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO ON EARLIER YEARS

3

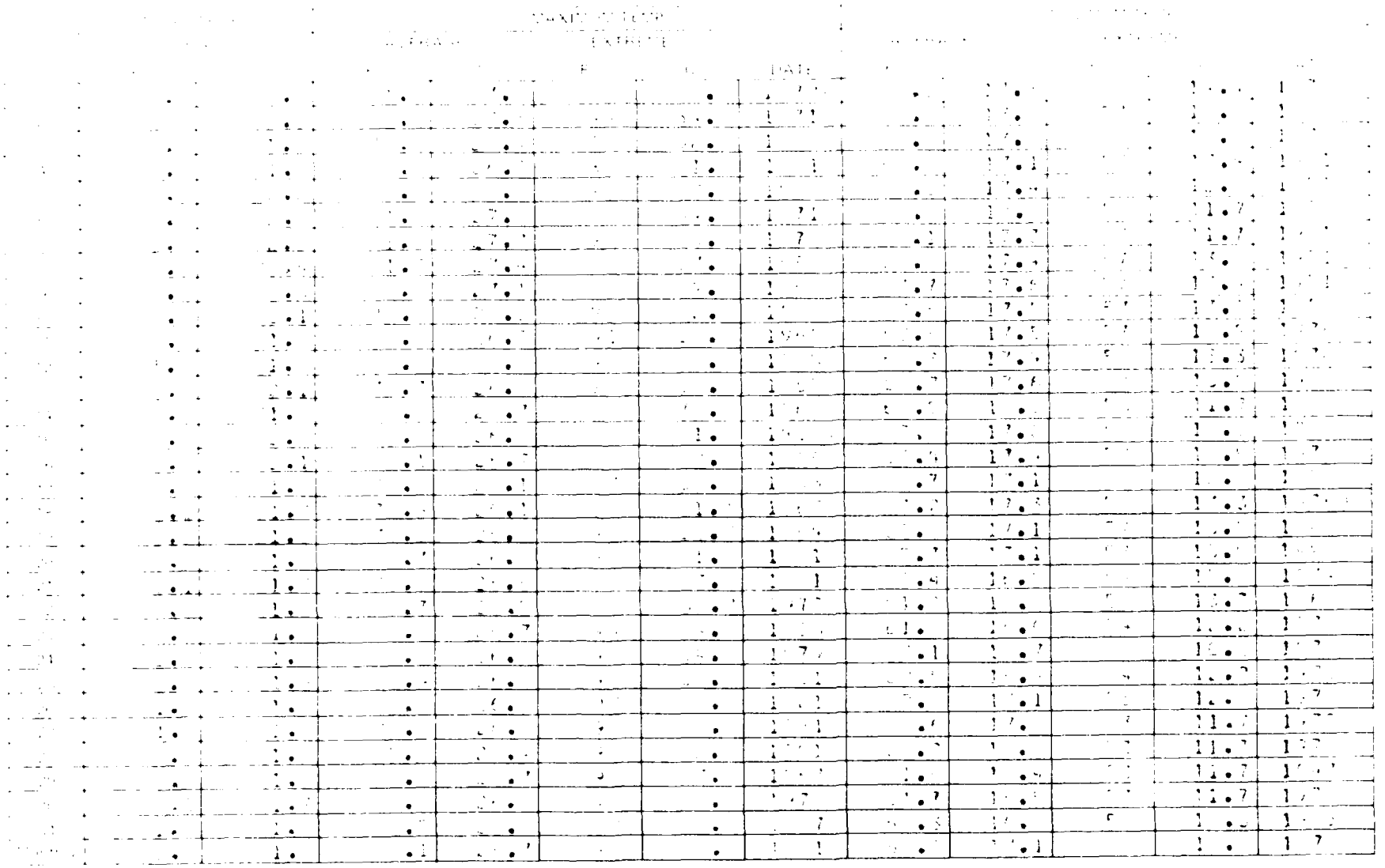
DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO ON EARLIER YEARS

DIRNAVOCEANMET–SMOS

DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO ON EARLIER YEARS

3

NAVAL WEATHER SERVICE DETACHMENT
[illegible] NORTH CAROLINA

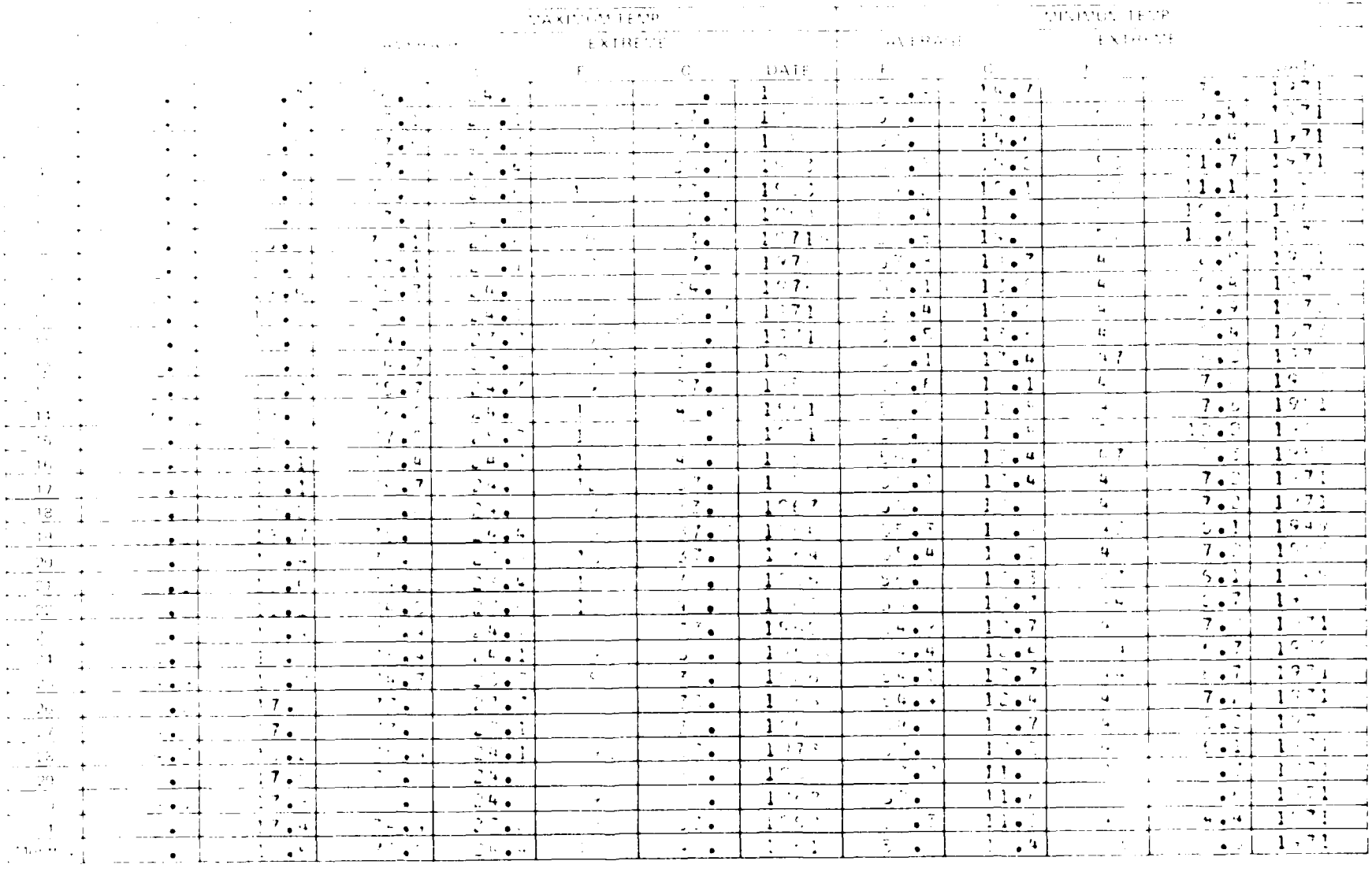
DAILY AVERAGE/EXTREME TEMPERATURES

[illegible] STATION NAME [illegible] YEARS [illegible] MONTH

DAY	MEAN TEMP AVERAGE F	MEAN TEMP AVERAGE C	MAXIMUM TEMP AVERAGE F	MAXIMUM TEMP AVERAGE C	MAXIMUM TEMP EXTREME F	MAXIMUM TEMP EXTREME C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE F	MINIMUM TEMP AVERAGE C	MINIMUM TEMP EXTREME F	MINIMUM TEMP EXTREME C	MINIMUM TEMP EXTREME DATE
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31												
Monthly	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

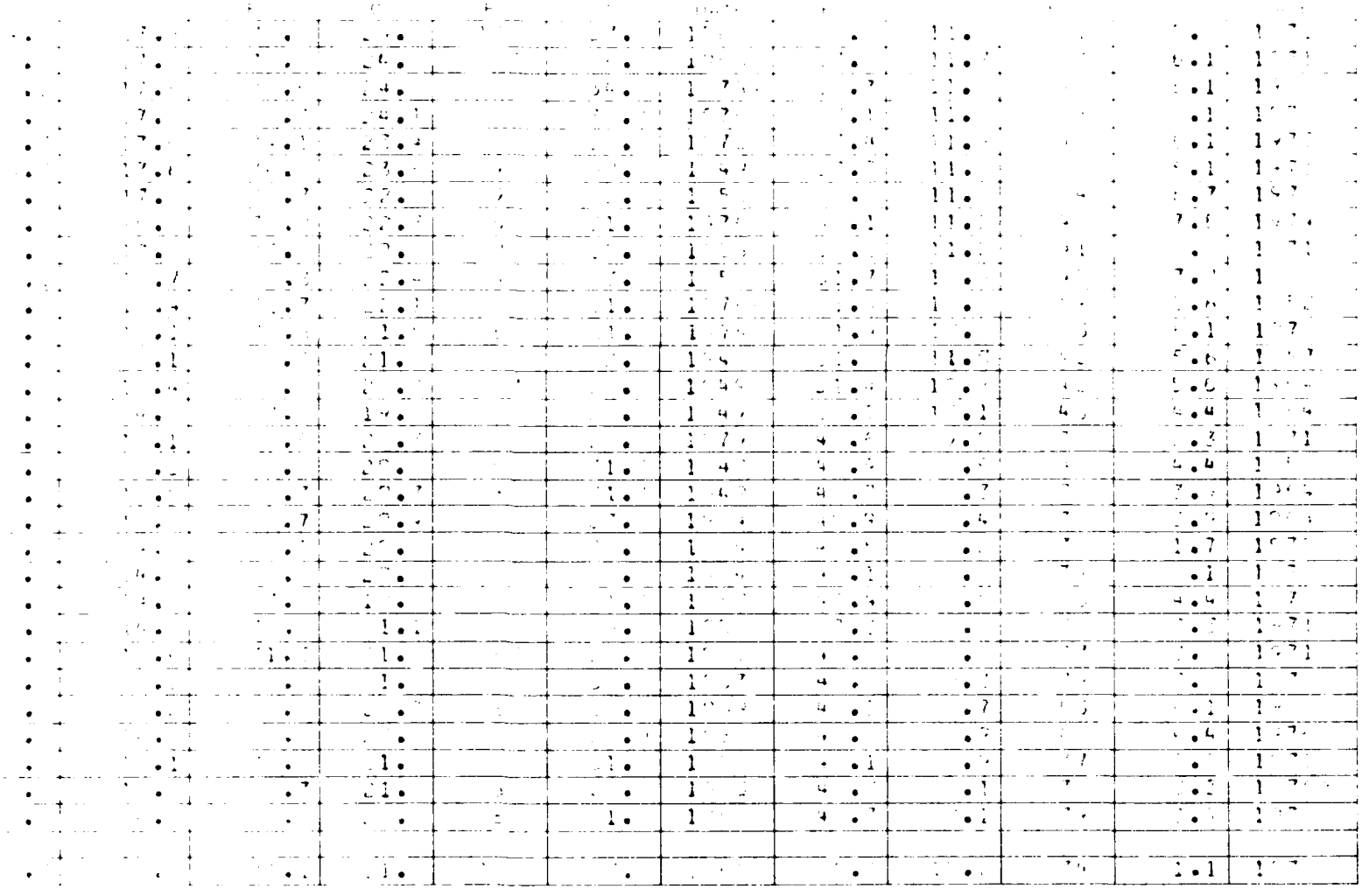
*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES



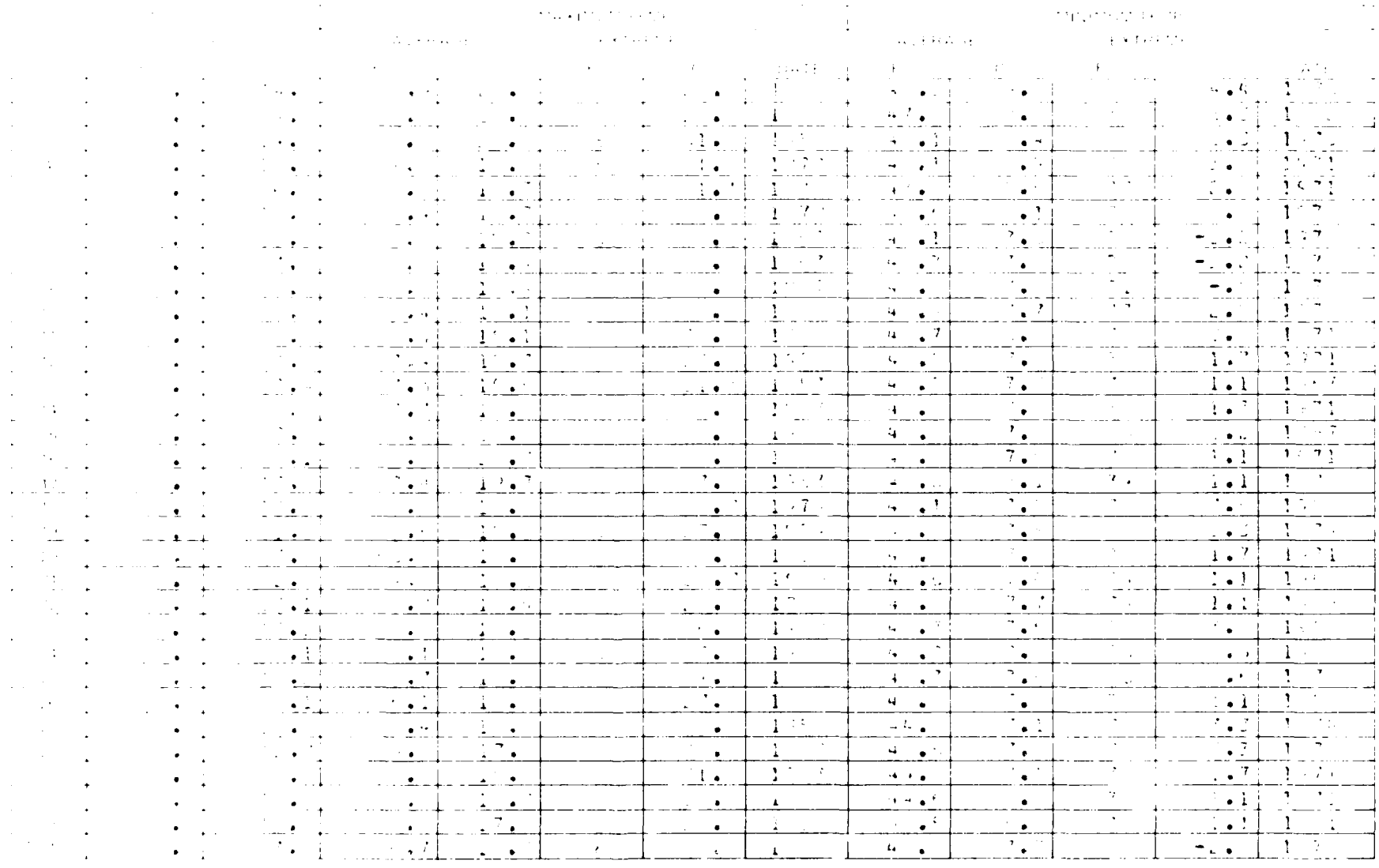
*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES



*ALSO ON EARLIER YEARS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION NAME

YEARS

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN OF INDICATORS													

5705

... WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION NAME ______________________ YEARS ______

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

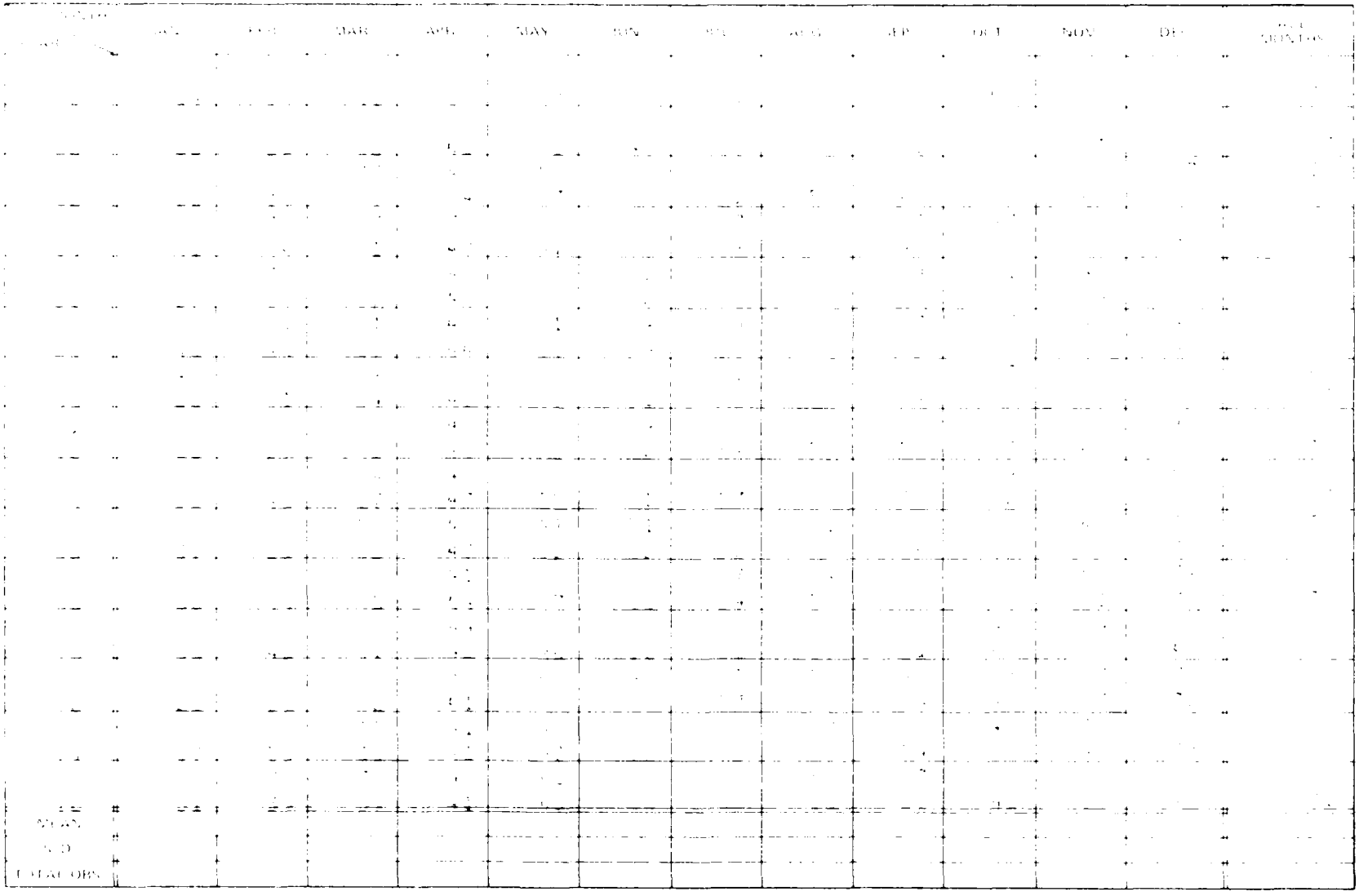
EXTREME VALUES

STATION NAME

YEARS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS

EXTREME VALUES



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION _____ STATION NAME _____ YEARS _____

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S D													
TOTAL OBS													

SMOS

ASHEVILLE WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION NAME

YEARS

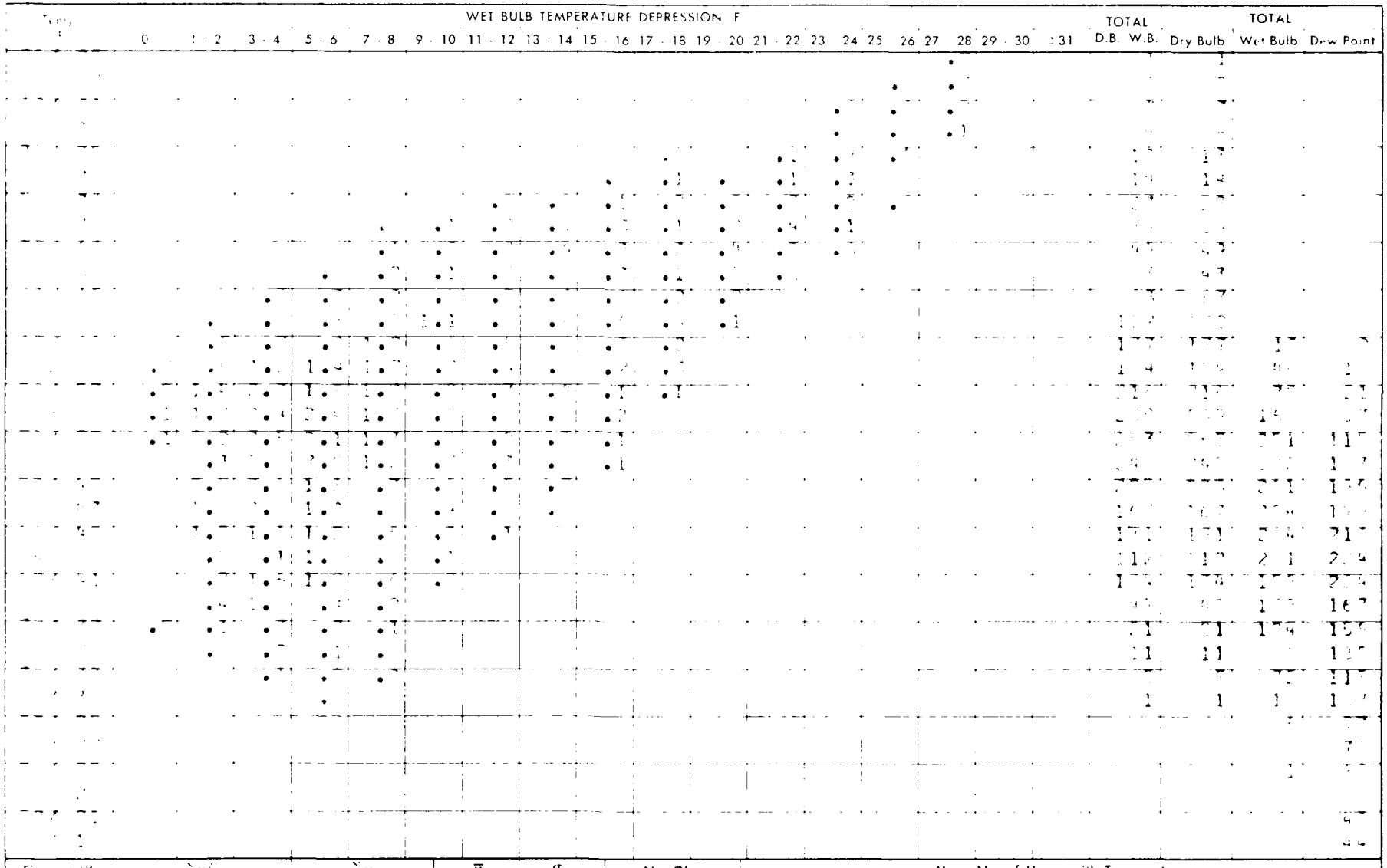
YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S D													
TOTAL OBS													

SMOS

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)



Element X	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

HOURS (LST)

Dry Bulb °F	WET BULB TEMPERATURE DEPRESSION °F																											TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31	D.B	W.B.	Dry Bulb	Wet Bulb	Dew Point

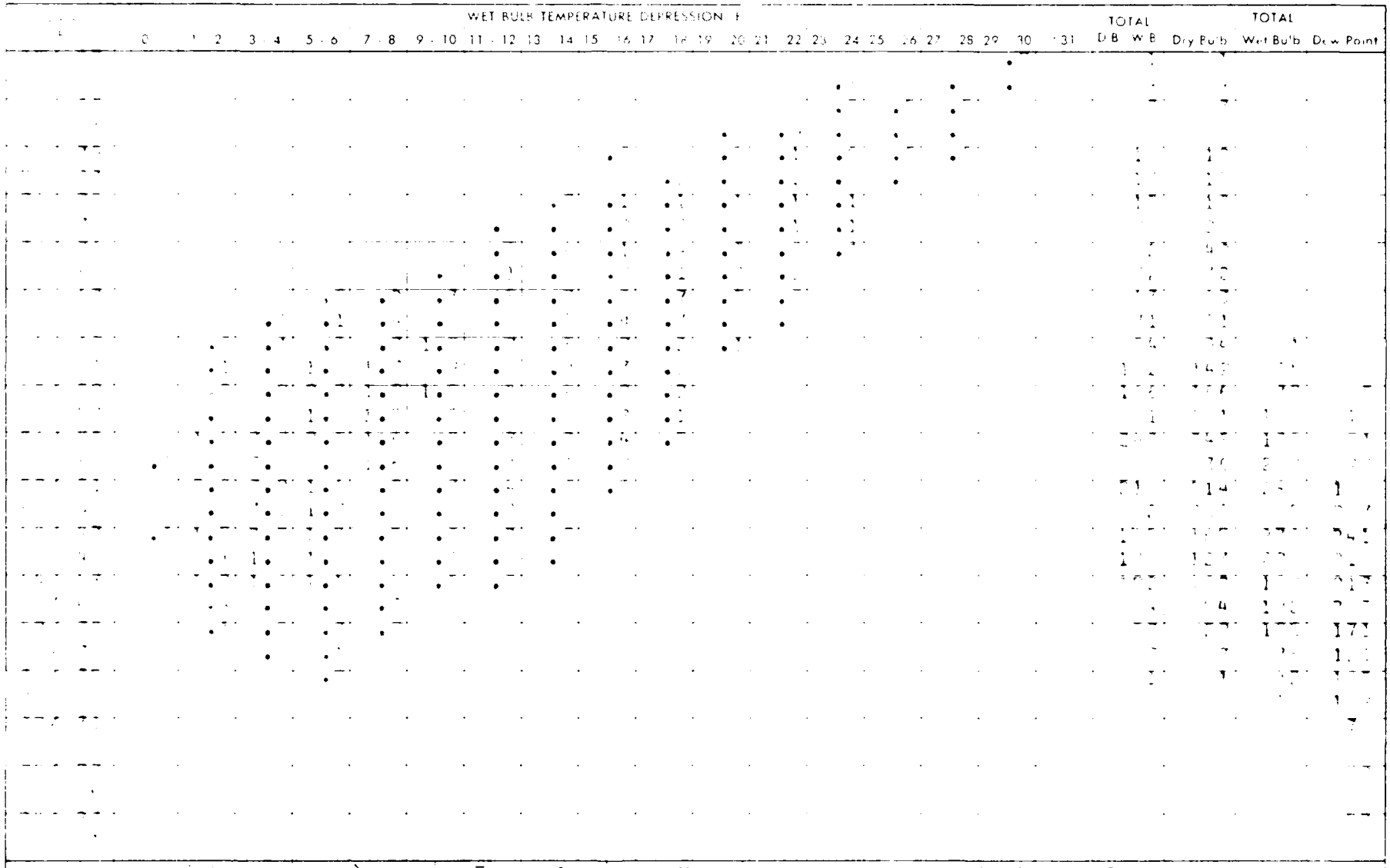
Element X	$\sum X$	$\sum X$	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

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PSYCHROMETRIC SUMMARY

STATION NAME _____ YEARS _____ MONTH _____



Element X	$\bar{X}$	$\tilde{X}$	$\bar{\bar{X}}$	σ_x	No Obs	Mean No of Hours with Temperature						
Rel Hum						0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

Temp. F	WET BULB TEMPERATURE DEPRESSION F																													TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9	10	11 - 12	13 - 14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	F	B	W	Dry Bulb	Wet Bulb	Dew Point

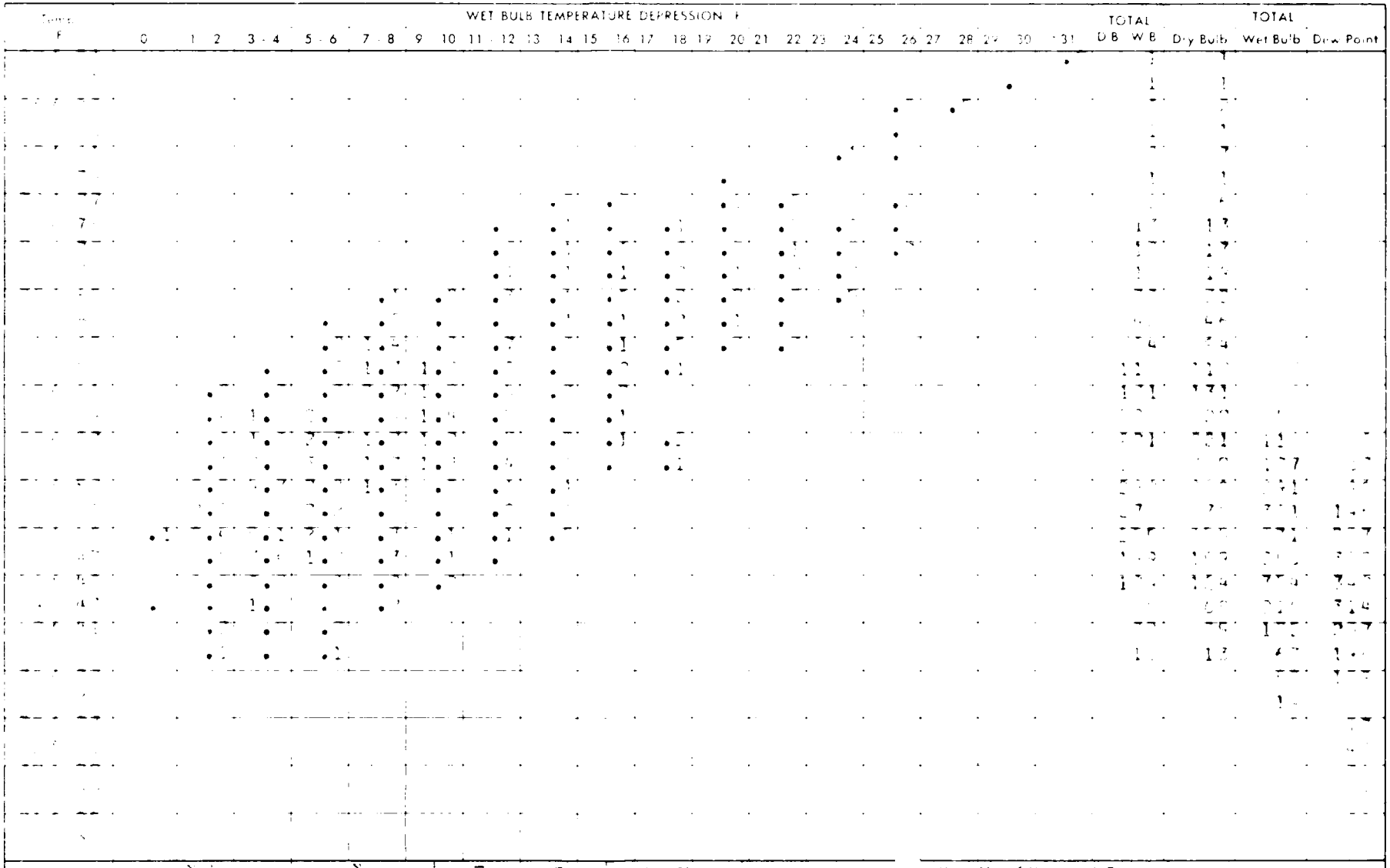
NAVWEASERVCOM

Element X	$\bar{X}$	$\tilde{X}$	$\bar{\bar{X}}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

3

PSYCHROMETRIC SUMMARY

STATION STATION NAME YEARS MONTH



Element X	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						°0 F	°32 F	°67 F	°73 F	°80 F	°93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS

Temp F	WET BULB TEMPERATURE DEPRESSION F																													TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	31	D B	W B	D P	Avg Rel Hum	Avg Dew Point

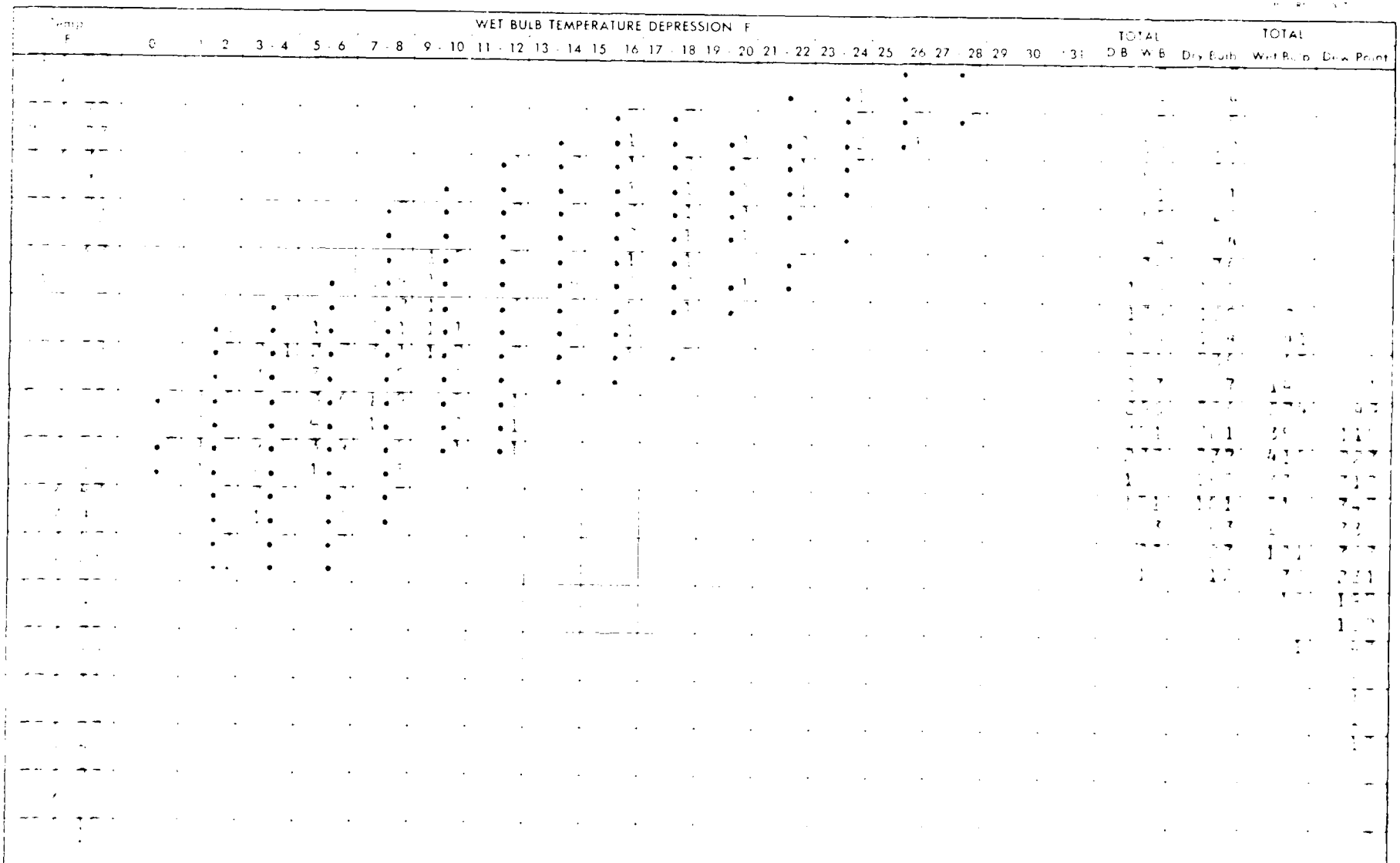
Element X	$\bar{X}$	$\tilde{X}$	$\bar{X}$	σ_x	No Obs	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel. Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

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PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH



Element X	$\bar{X}$	$\tilde{X}$	$\hat{X}$	σ_x	No Obs	Mean No. of Hours with Temperature						
Rel Hum						0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

WET BULB TEMPERATURE DEPRESSION °F																												TOTAL		TOTAL	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D B	W B	Wet Bulb	Dew Point

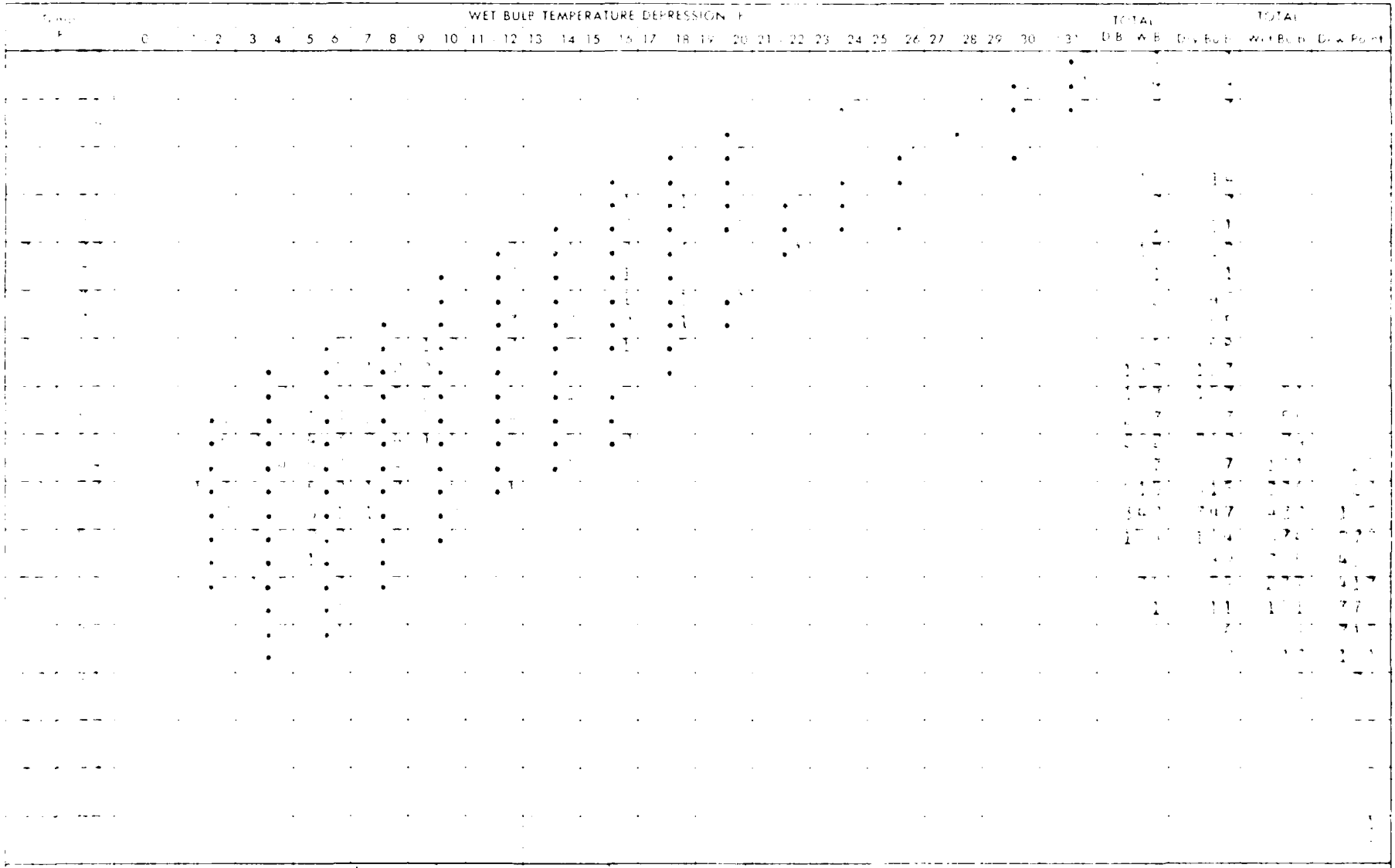
Element	$\bar{X}$	ΣX	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel. Hum.												
Dry Bulb								1				
Wet Bulb												
Dew Point							1					

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION STATION NAME YEARS MONTH

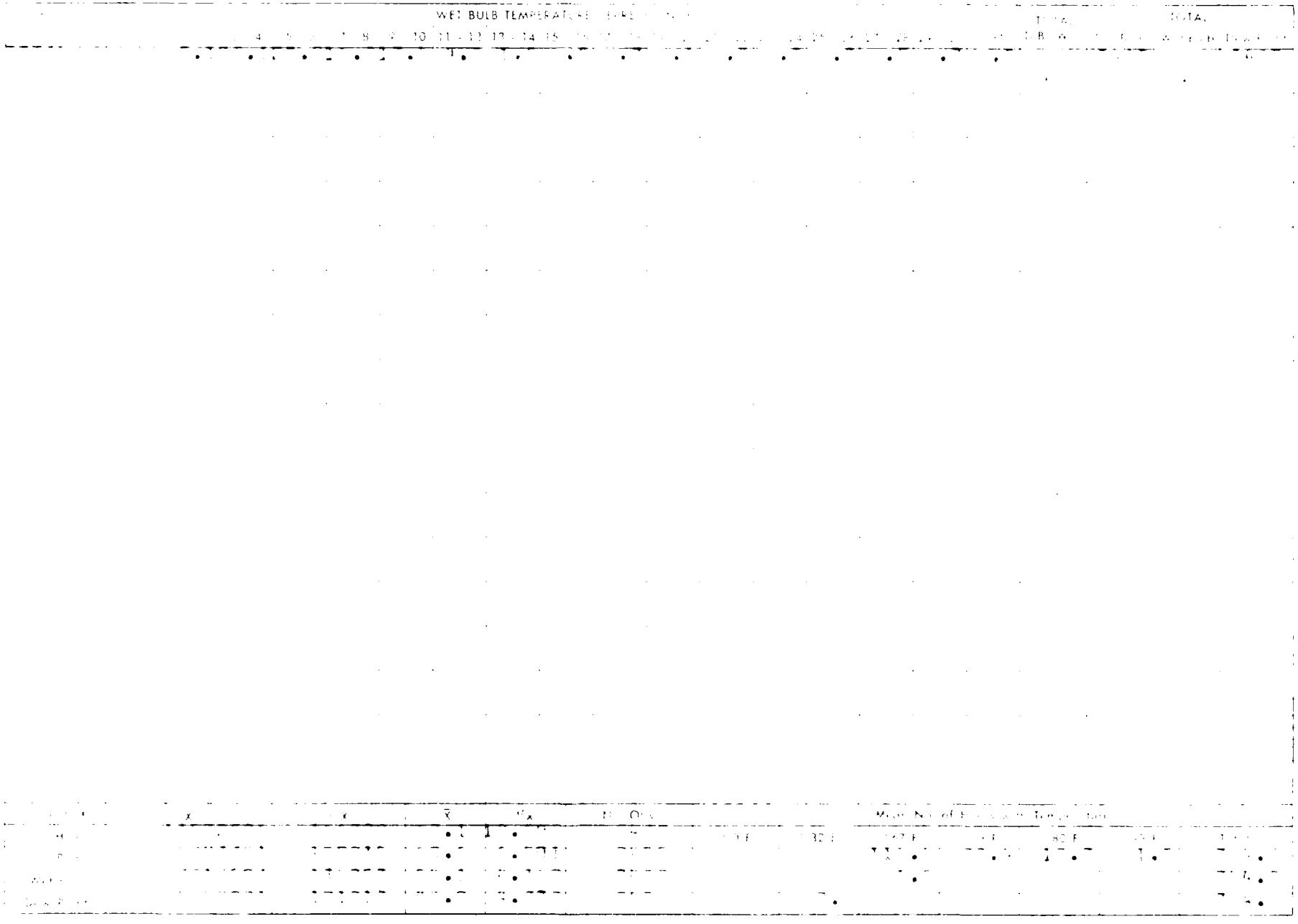


Element X	$\bar{X}$	$\bar{X}$	$\bar{\bar{X}}$	σ_x	No Obs	Mean No of Hours with Temperature
Dry Bulb						0 F / 52 F / 67 F / 73 F / 80 F / 93 F / T
Dew Point						
Wet Bulb						
Dew Point						

NAVWEASERVCOM

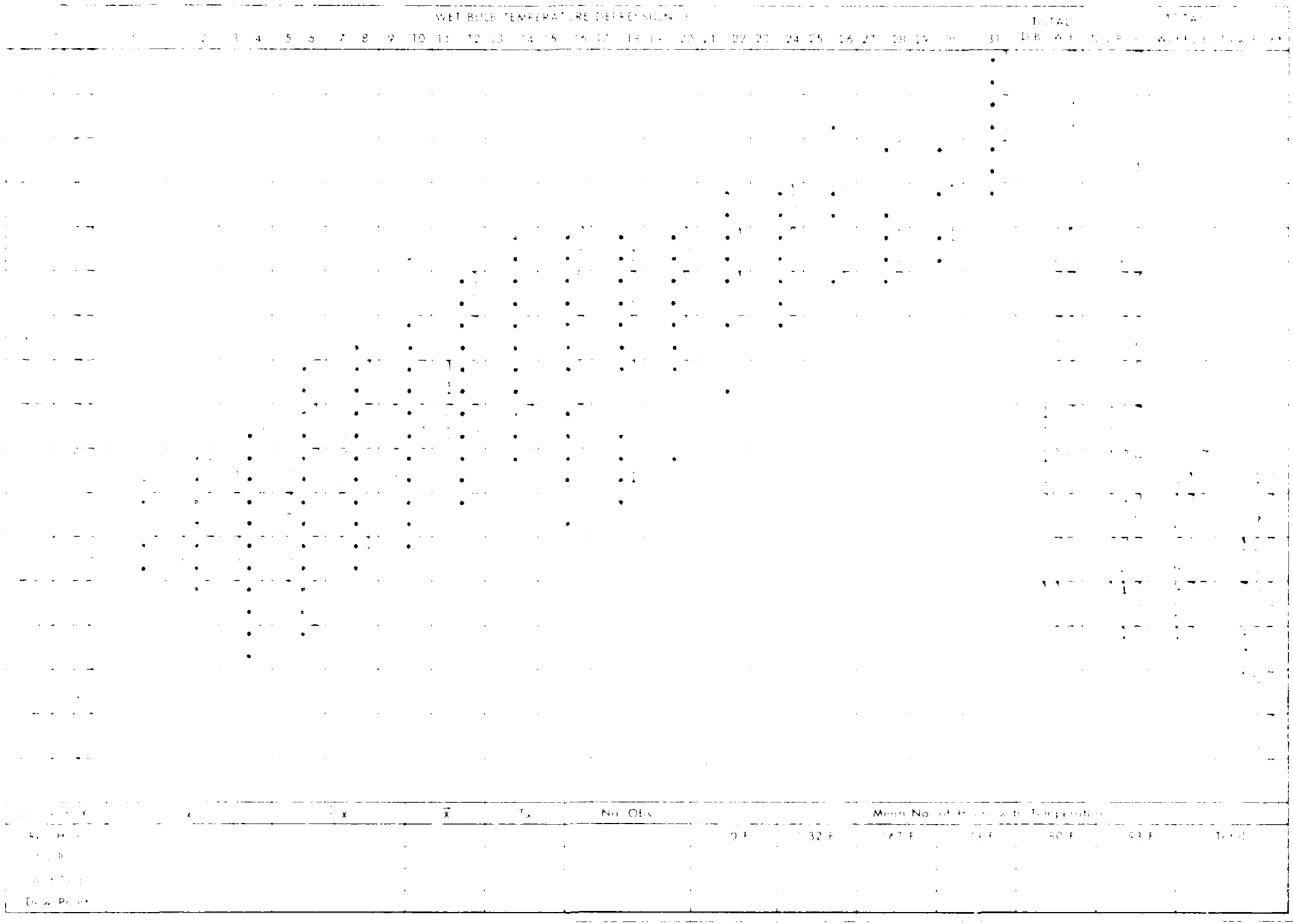
3

PSYCHROMETRIC SUMMARY



3

PSYCHROMETRIC SUMMARY



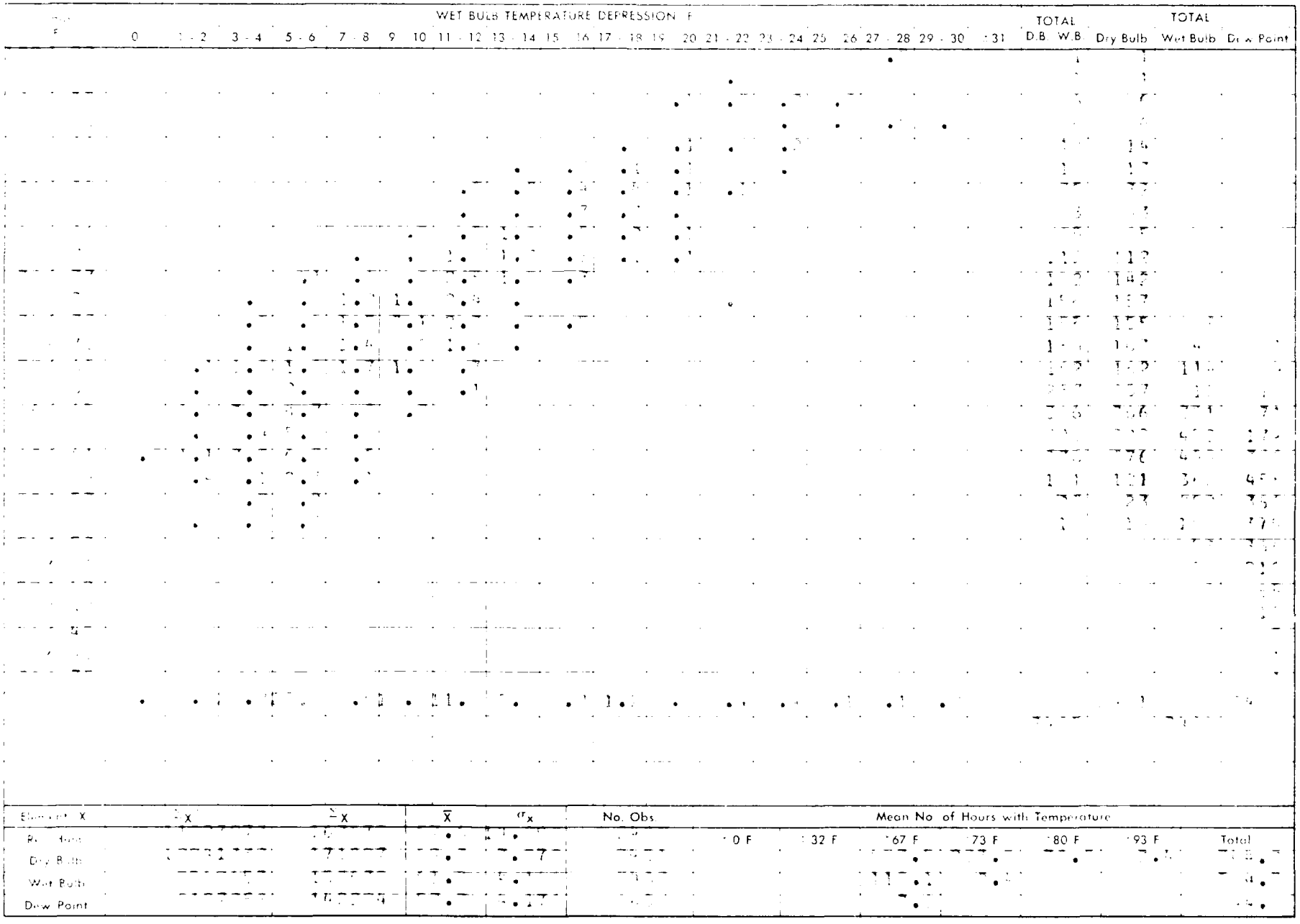
PSYCHROMETRIC SUMMARY

3

PSYCHROMETRIC SUMMARY

STATION NAME YEARS MONTH

HOURS (LST)



Element X	$\bar{X}$	$\tilde{X}$	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

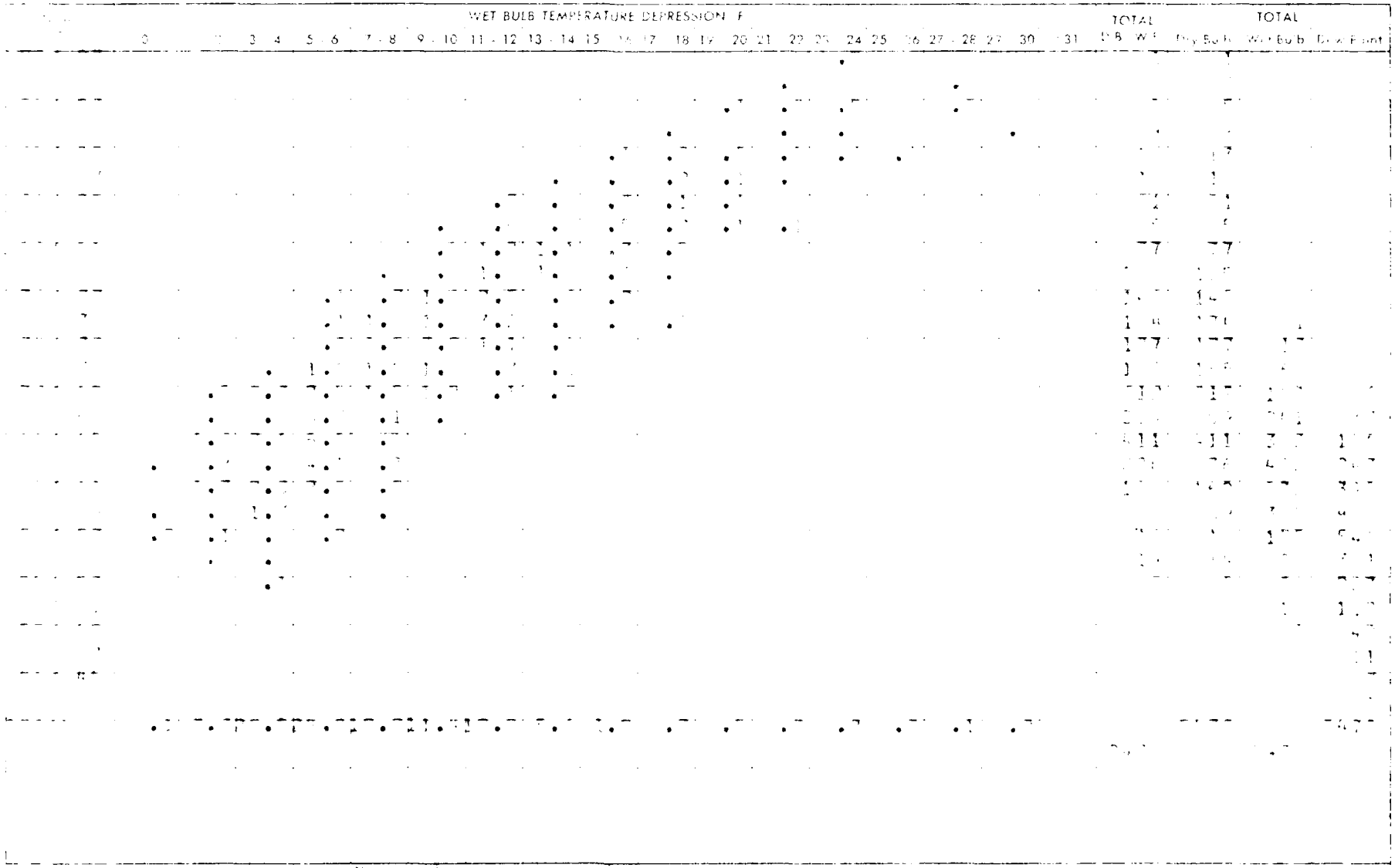
3

PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

MONTH



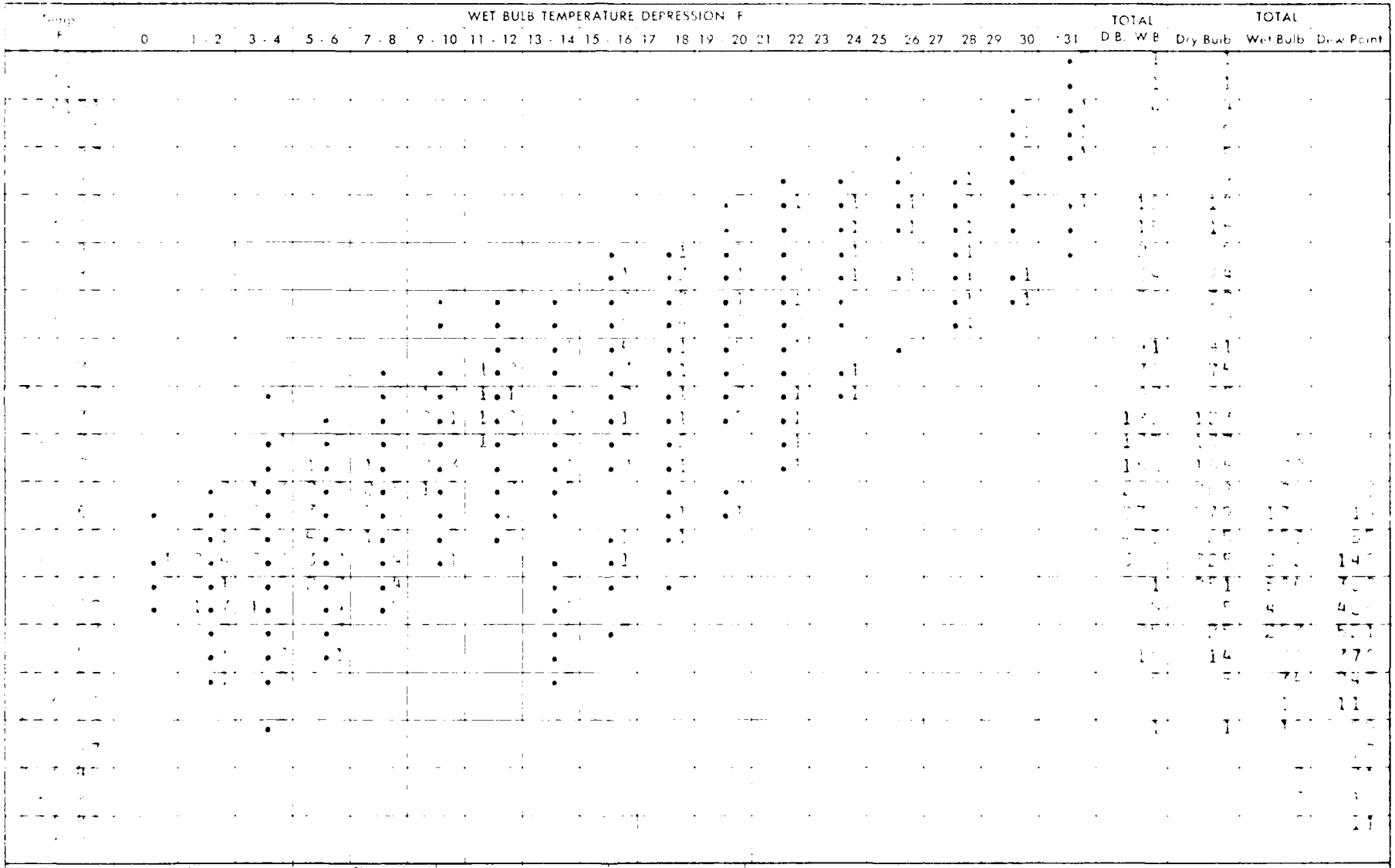
Element	$\bar{X}$	$\tilde{X}$	$\bar{X}$	σ_x	N	Mean No. of Hours with Temperature						
						0°F	32°F	67°F	73°F	80°F	93°F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

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PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)



Element X	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS

Temp. °F	WET BULB TEMPERATURE DEPRESSION °F																													TOTAL		TOTAL	
	0	1	2	3 - 4	5 - 6	7	8	9	10	11 - 12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.	W.B.	F	P

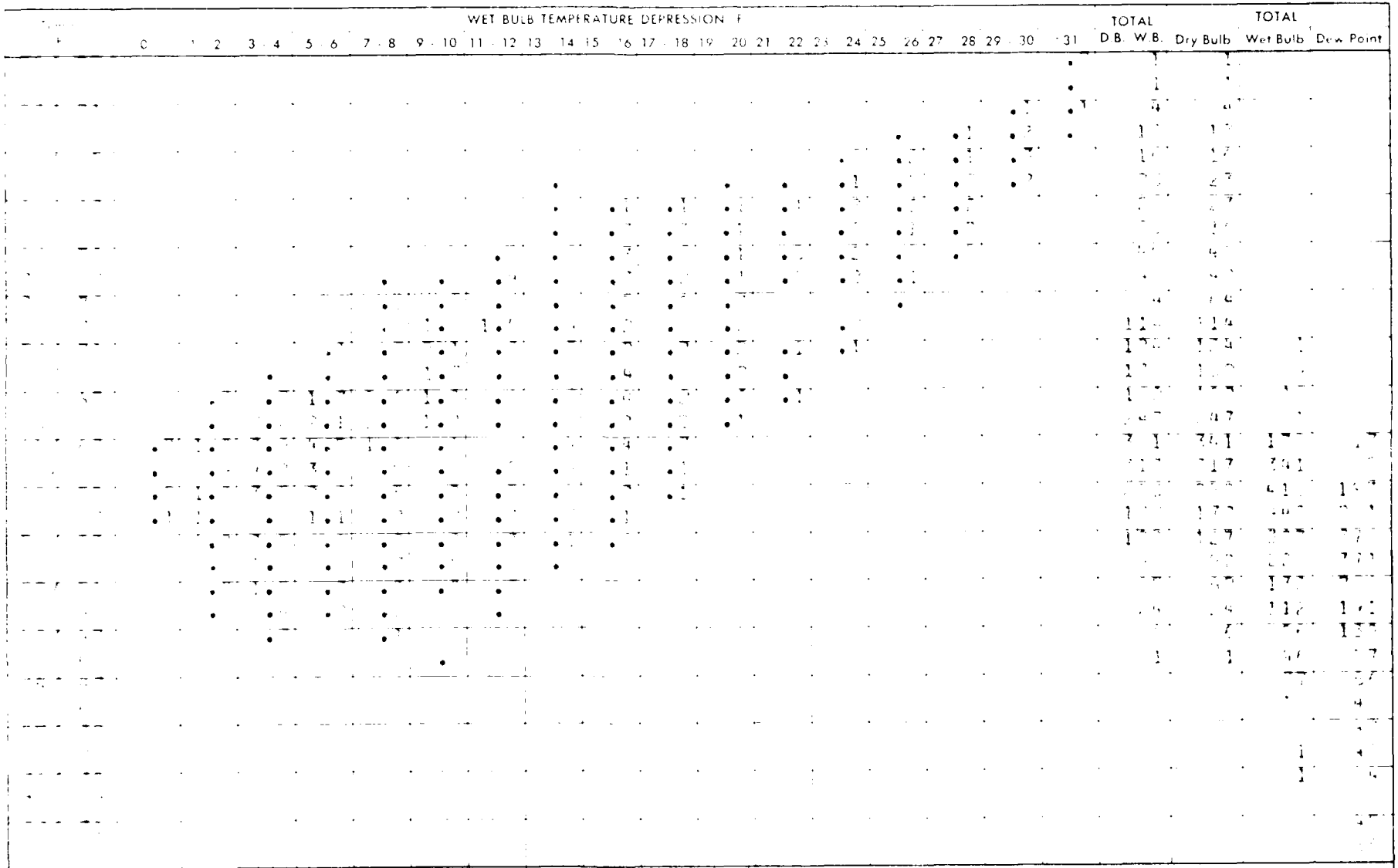
NAVWEASERVCOM

Element	$\bar{X}$	$\tilde{X}$	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	95 F
60 Min.												
Dry Bulb												
Wet Bulb												
Dew Point												

3

PSYCHROMETRIC SUMMARY

STATION STATION NAME YEAR MONTH HOURS (LST)



Element X	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

Temp F	WET BULB TEMPERATURE DEPRESSION F																													TOTAL		TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D B	W B	Dry Bulb	Wet Bulb	Dew Point

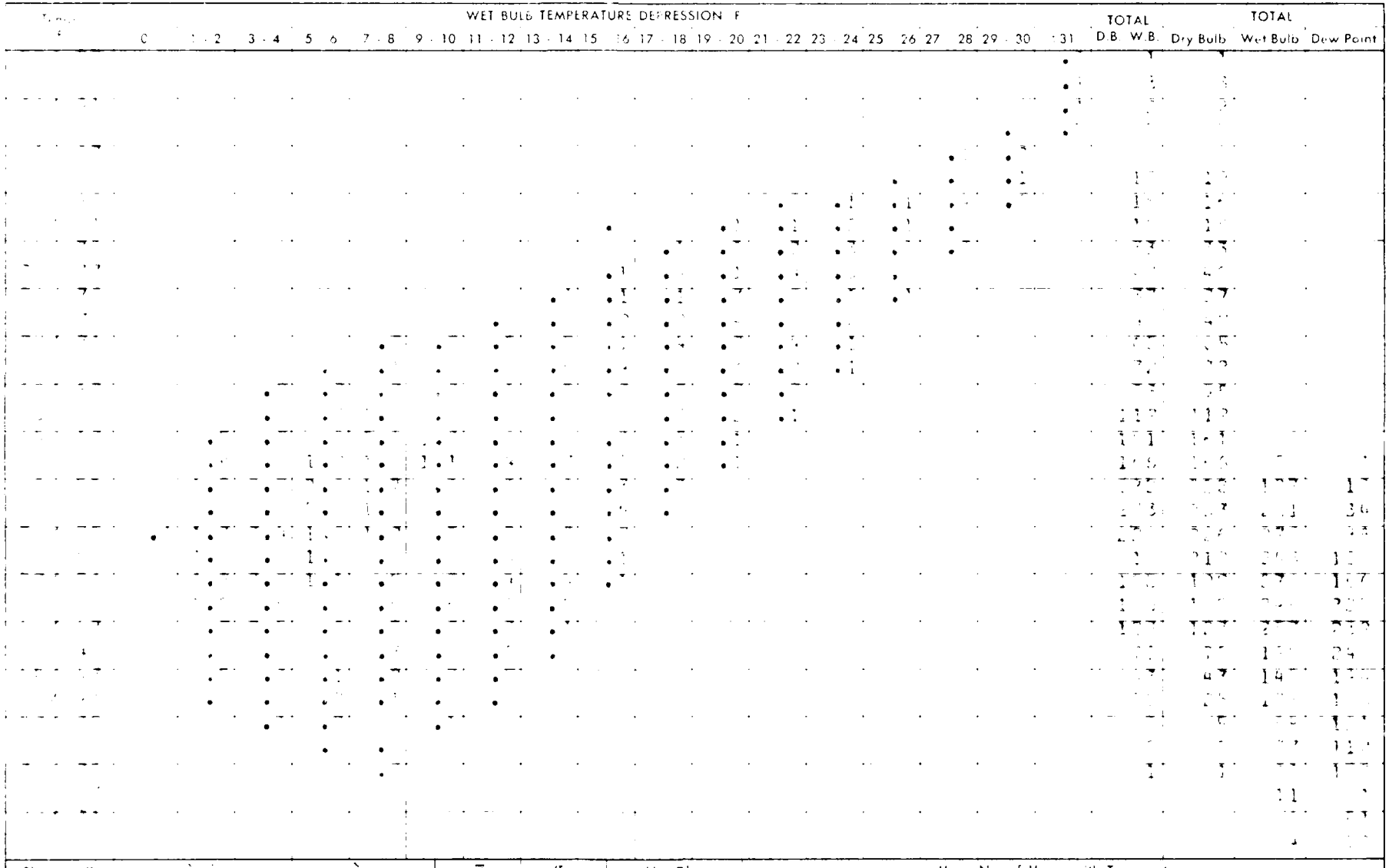
Element X	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
				0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel. Hum.										
Dry Bulb										
Wet Bulb										
Dew Point										

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH | HOURS (G.S.T.)



NAVWEASERVCOM

Element X	$\bar{X}$	$\tilde{X}$	$\bar{\bar{X}}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

F	C	WET BULB TEMPERATURE DEPRESSION F																													TOTAL DB	TOTAL WB	Dry Bulb	Wet Bulb	Dew Point
		1	2	3 - 4	5 - 6	7	8	9 - 10	11 - 12	13 - 14	15 - 16	17	18	19 - 20	21	22	23	24	25 - 26	27 - 28	29	30	31												

Element X	$\bar{X}$	$\tilde{X}$	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

3

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH | HOURS (LST)

Dry Bulb °F	WET BULB TEMPERATURE DEPRESSION °F																													TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9	10	11 - 12	13 - 14	15	16	17	18	19 - 20	21 - 22	23	24	25	26	27 - 28	29 - 30	31	D.B	W.B.	Dry Bulb	Wet Bulb	Dew Point

NAVWEASERVCCOM

Element X	$\bar{x}$	$\tilde{x}$	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel Hum						0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

3

PSYCHROMETRIC SUMMARY

STATION STATION NAME YEARS MONTH

HOURS

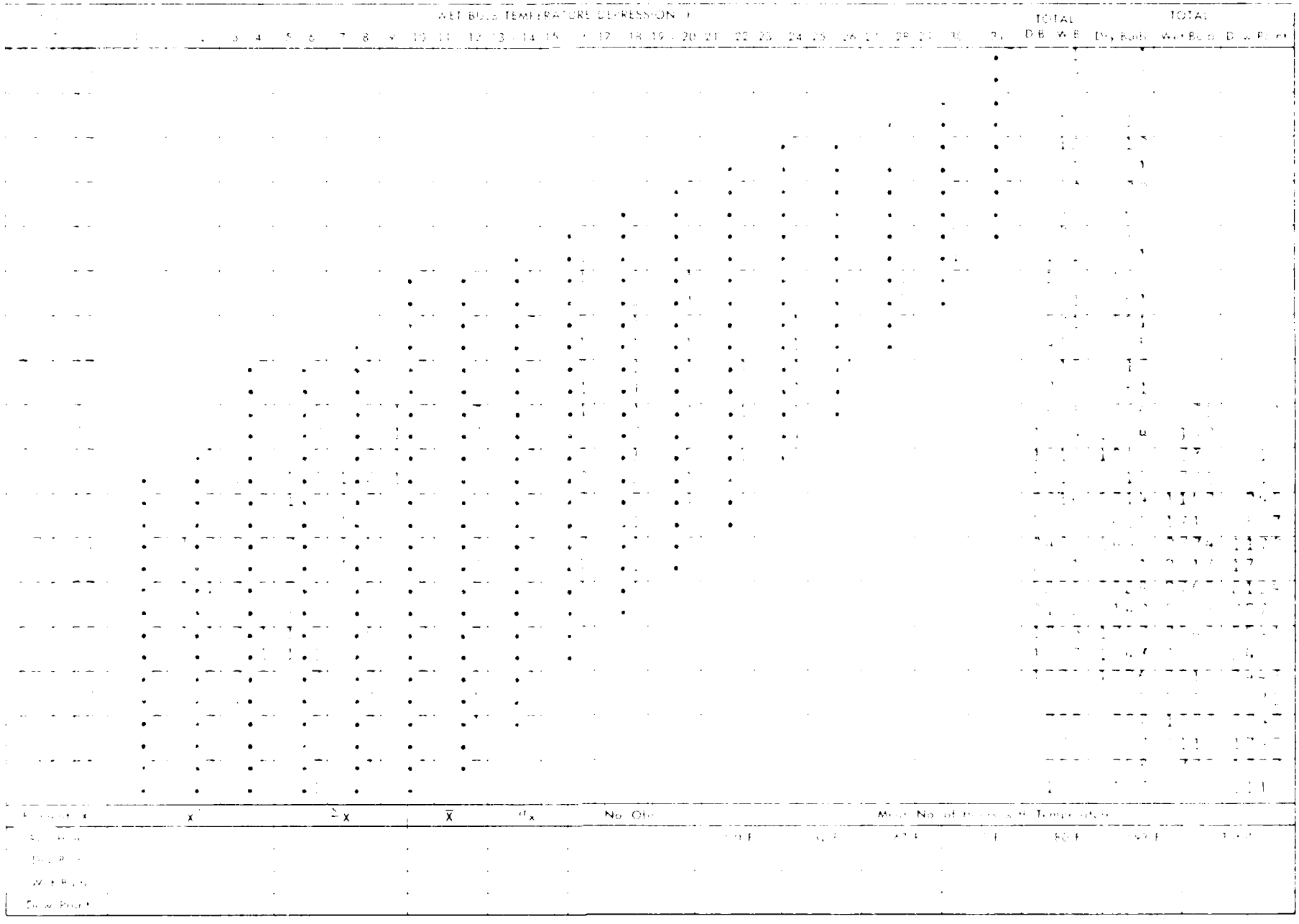
Dry Bulb °F	WET BULB TEMPERATURE DEPRESSION °F																													TOTAL		TOTAL	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point

NAVWEASERVCOM

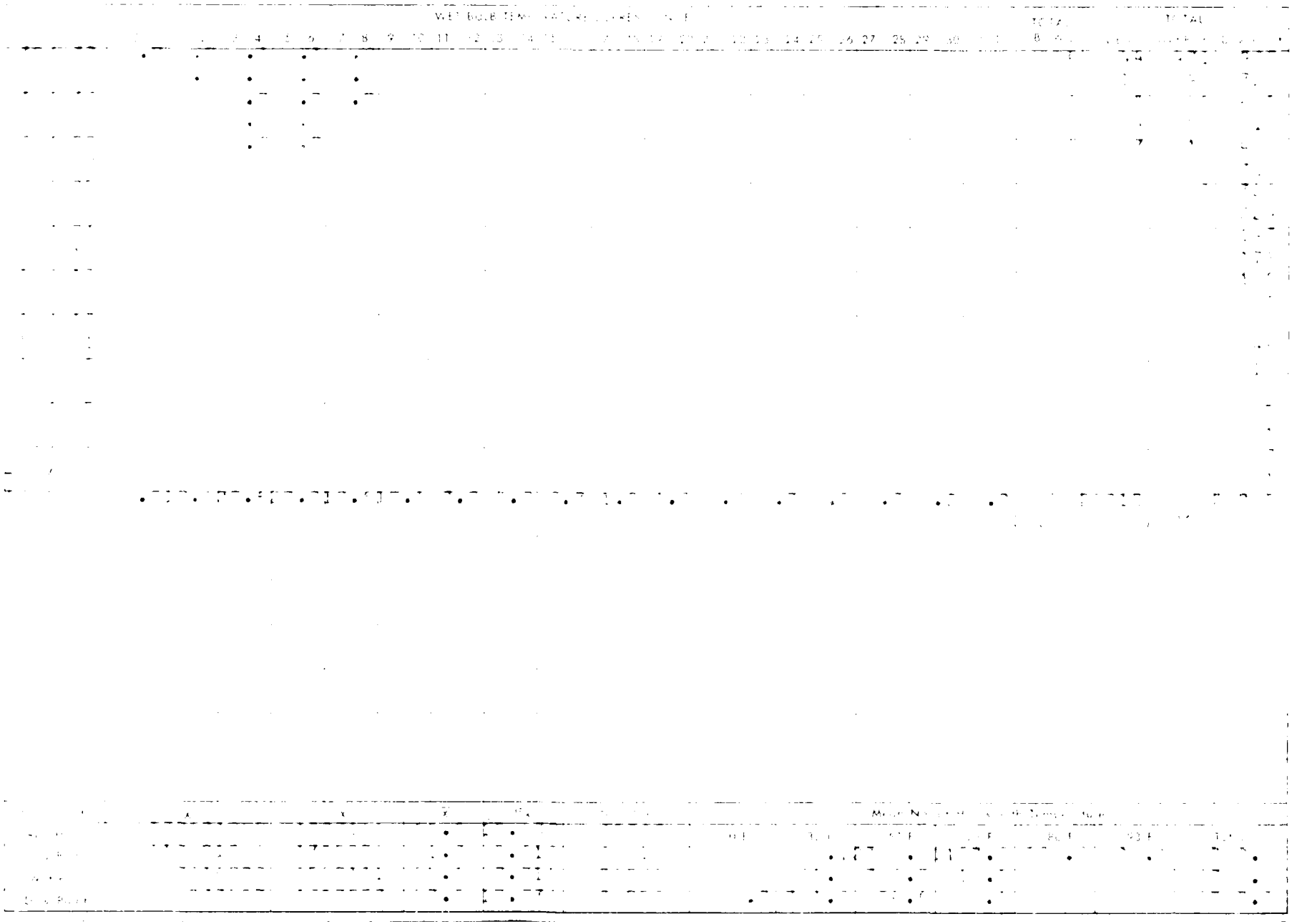
Element x	$\bar{x}$	Σx	$\bar{x}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	95 F
Dry Bulb												
Wet Bulb												
Dew Point												

3

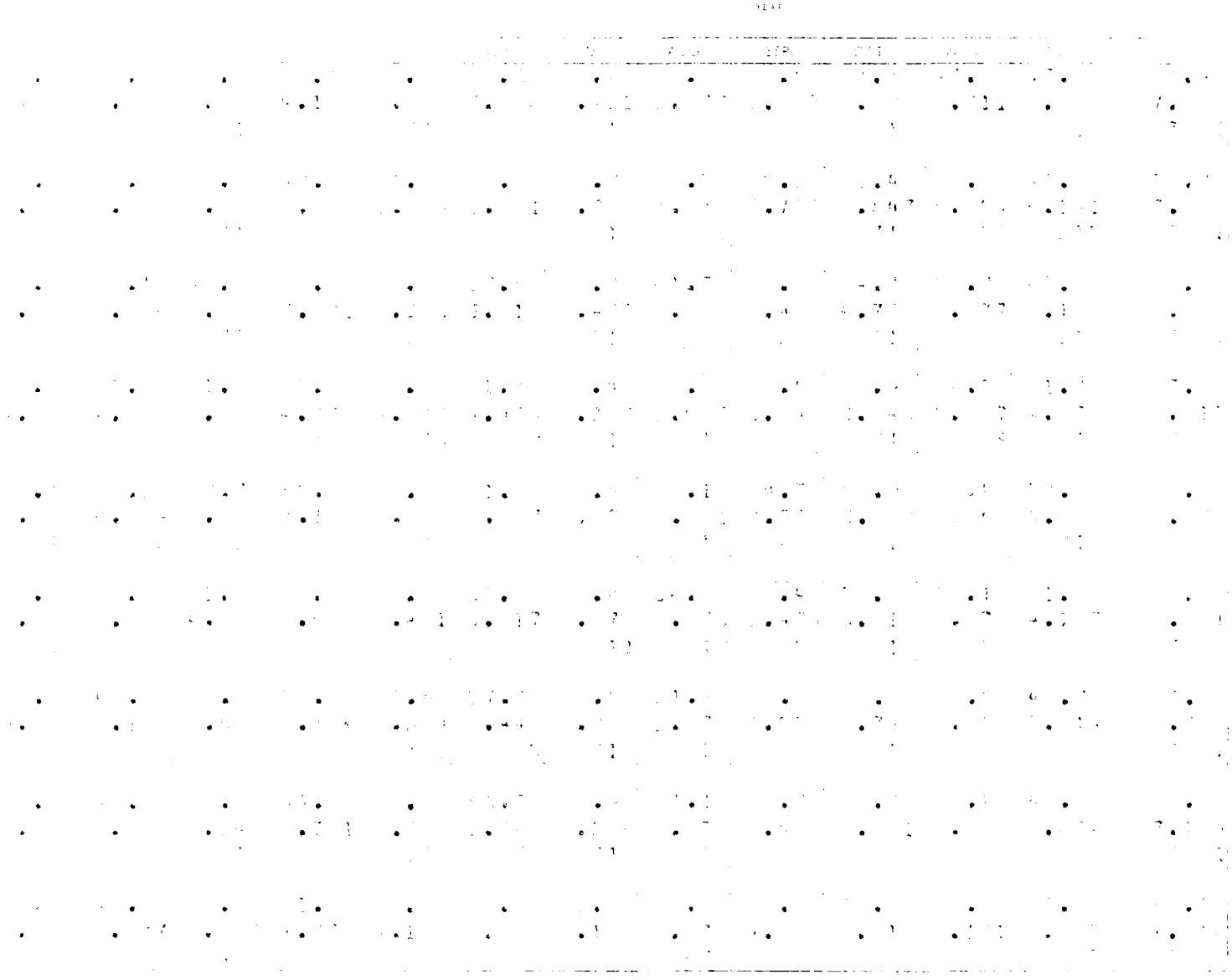
PSYCHROMETRIC SUMMARY



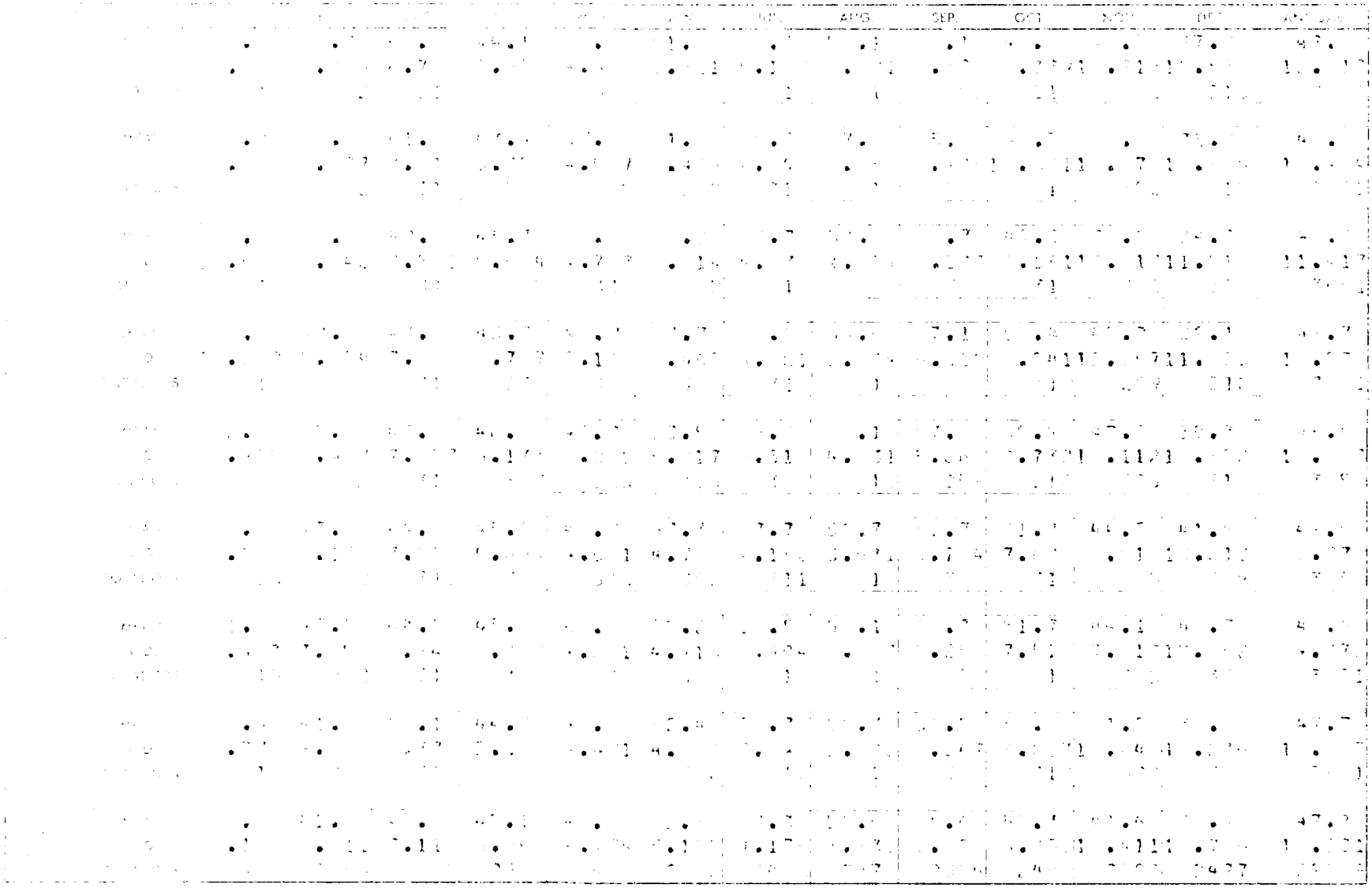
PSYCHROMETRIC SUMMARY



MEANS AND STANDARD DEVIATIONS



MEANS AND STANDARD DEVIATIONS



RELATIVE HUMIDITY

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

RELATIVE HUMIDITY

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

OCEANAV–SMOS

3

RELATIVE HUMIDITY

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L S T	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

OCEANAV–SMOS

[illegible] DETACHMENT
[illegible]

RELATIVE HUMIDITY

STATION NAME [illegible] PERIOD [illegible]

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

RELATIVE HUMIDITY

STAT N NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

OCEANAV—SMOS

RELATIVE HUMIDITY

STATION | STATION NAME | PERIOD | MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS EST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

OCEANAV–SMOS

NAVAL OCEANOGRAPHIC DETACHMENT
NAS PATUXENT RIVER, MARYLAND

RELATIVE HUMIDITY

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

RELATIVE HUMIDITY

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L S T	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
TOTALS												

RELATIVE HUMIDITY

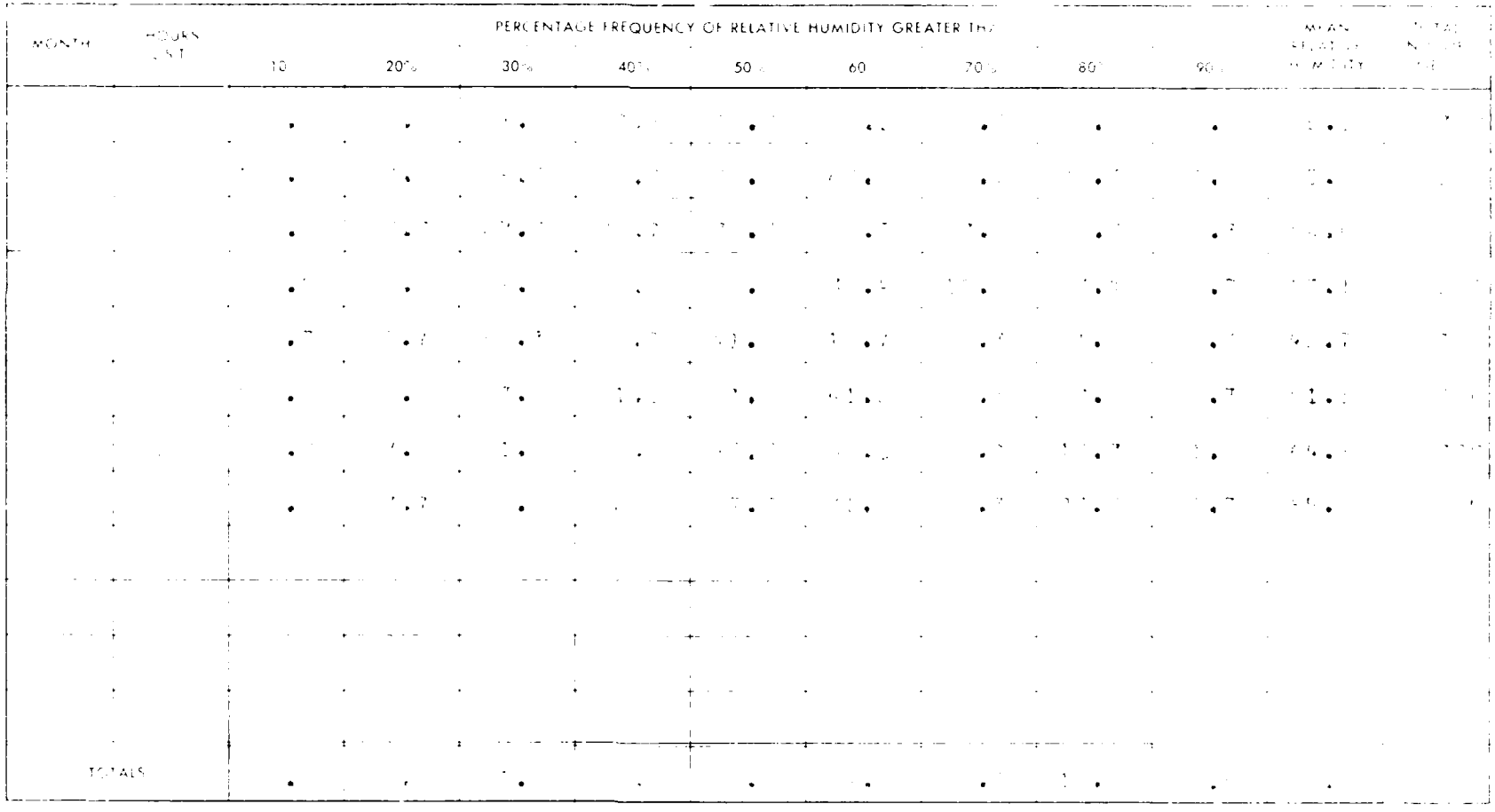
STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUMBER OF
		10%	20%	30%	40%	50%	60	70%	80%	90%		
TOTALS												

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



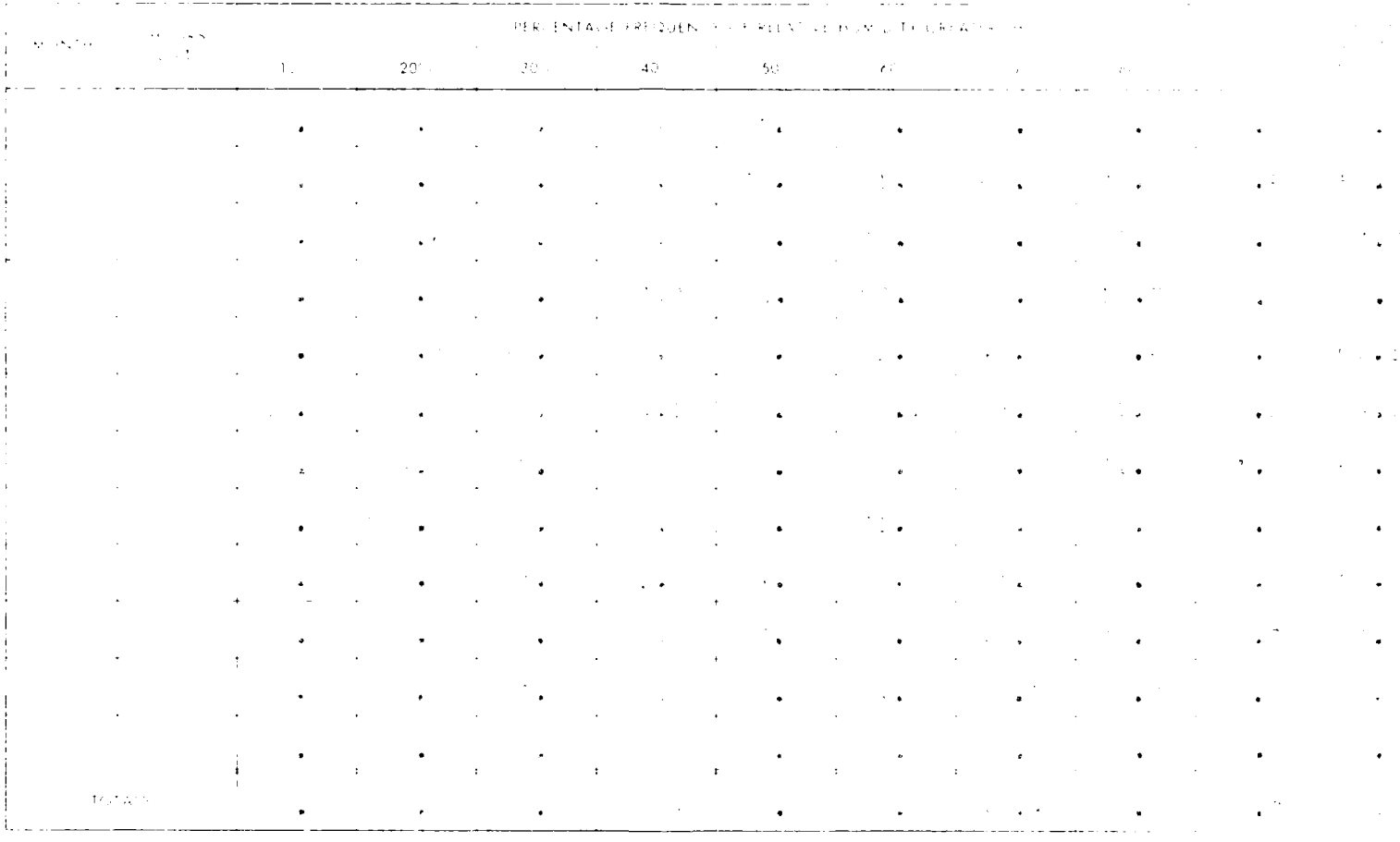
RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

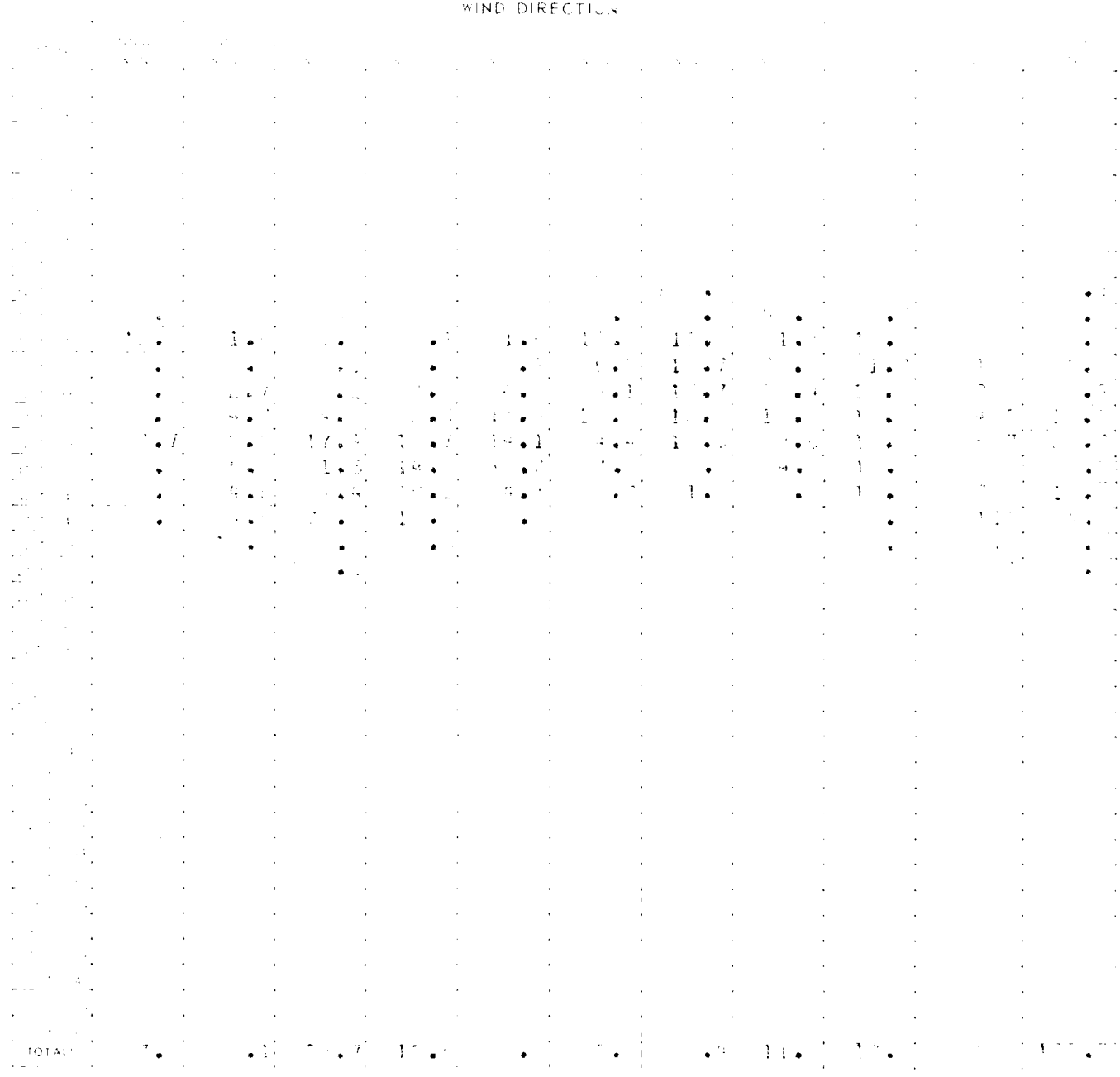
MONTH	HOURS EST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
TOTALS											

RELATIVE HUMIDITY

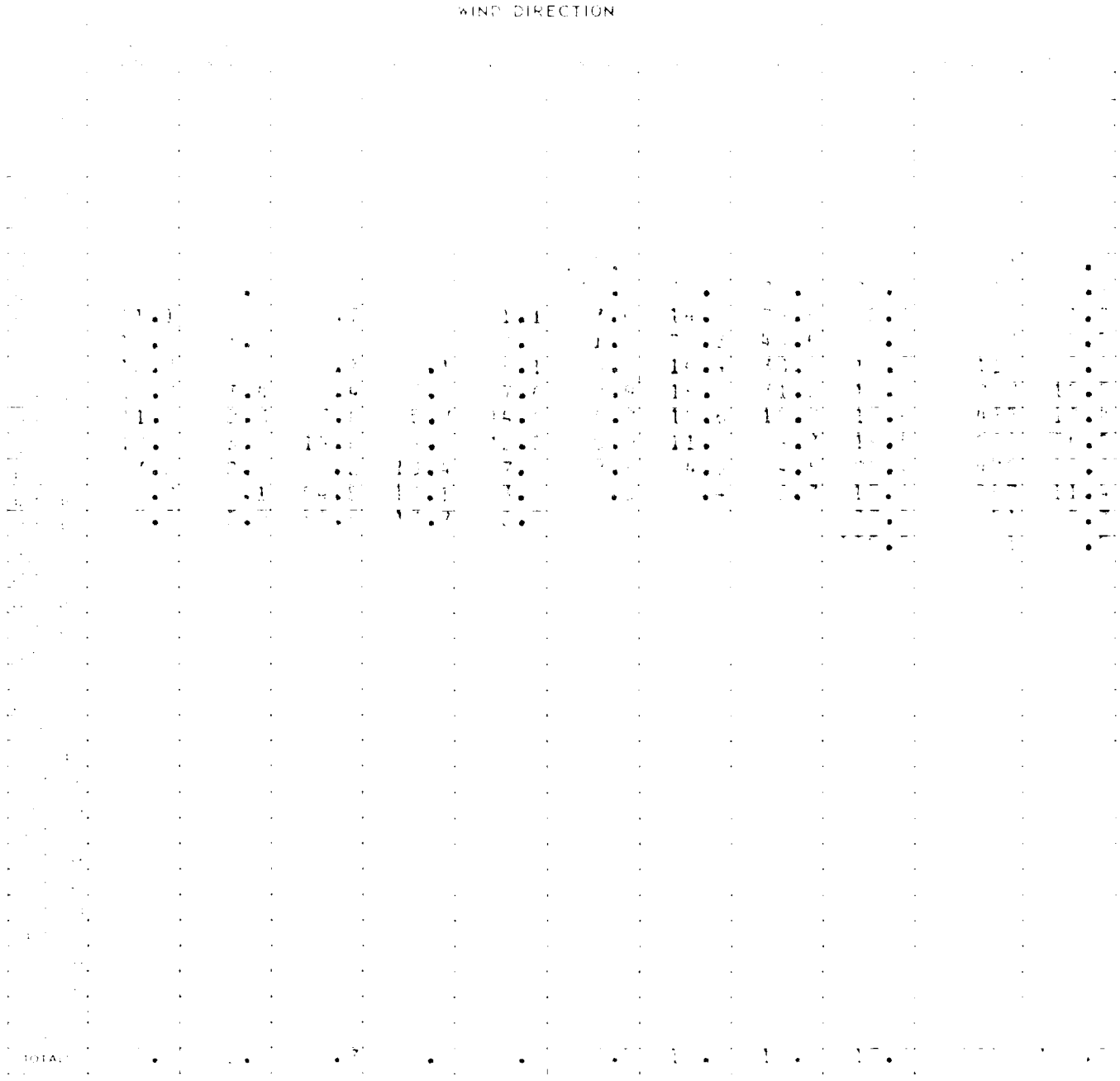
CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

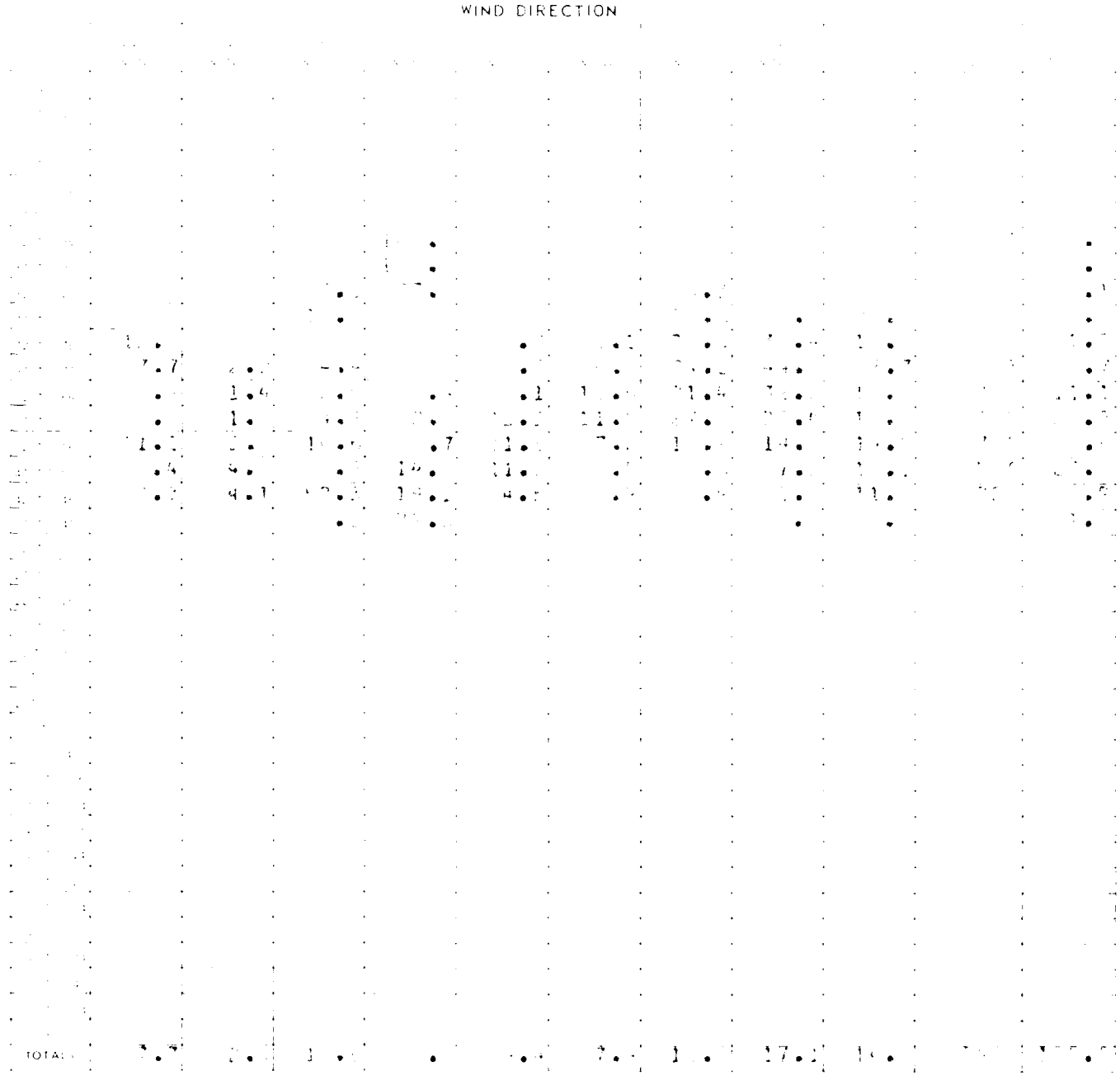


PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



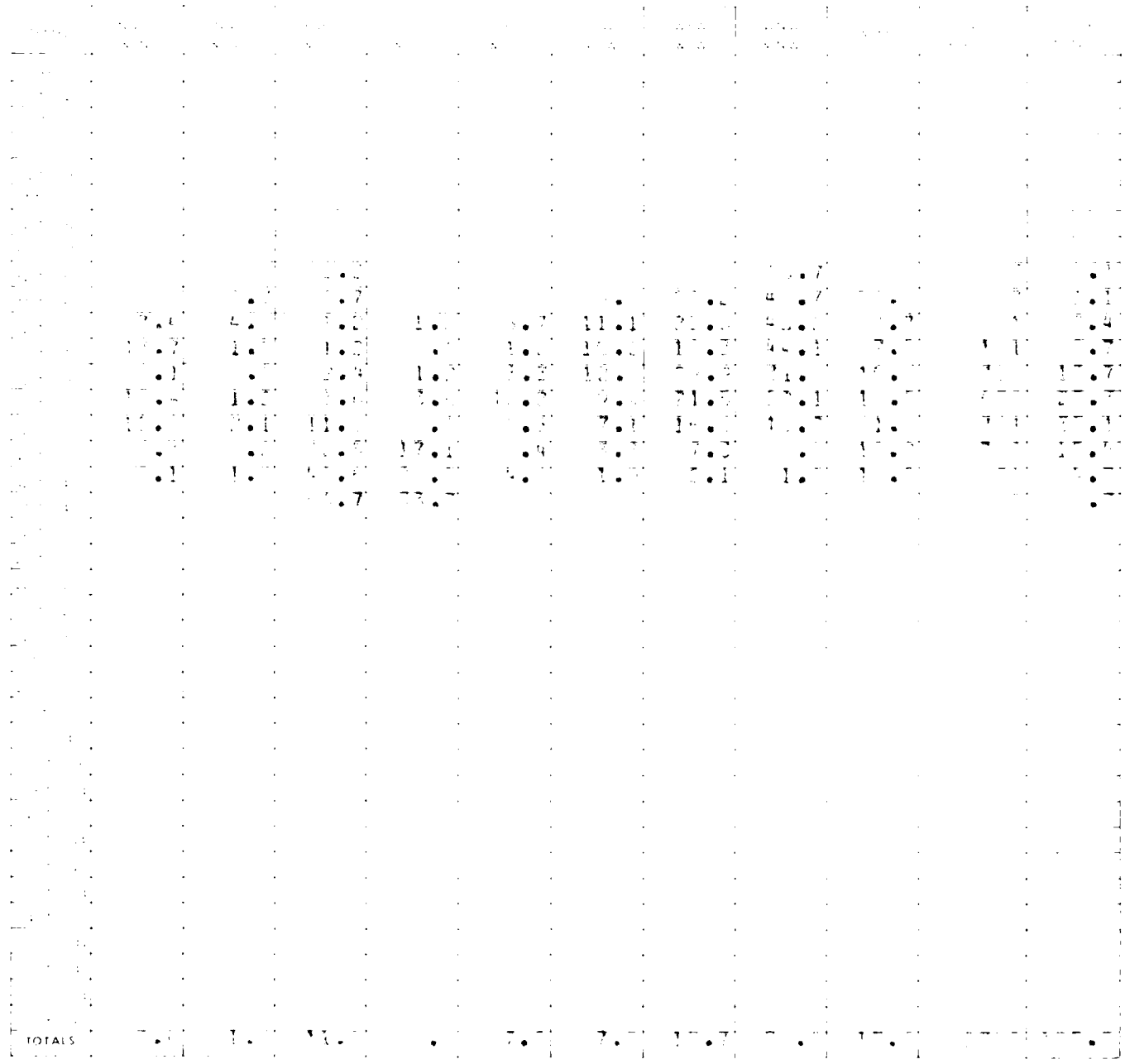
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



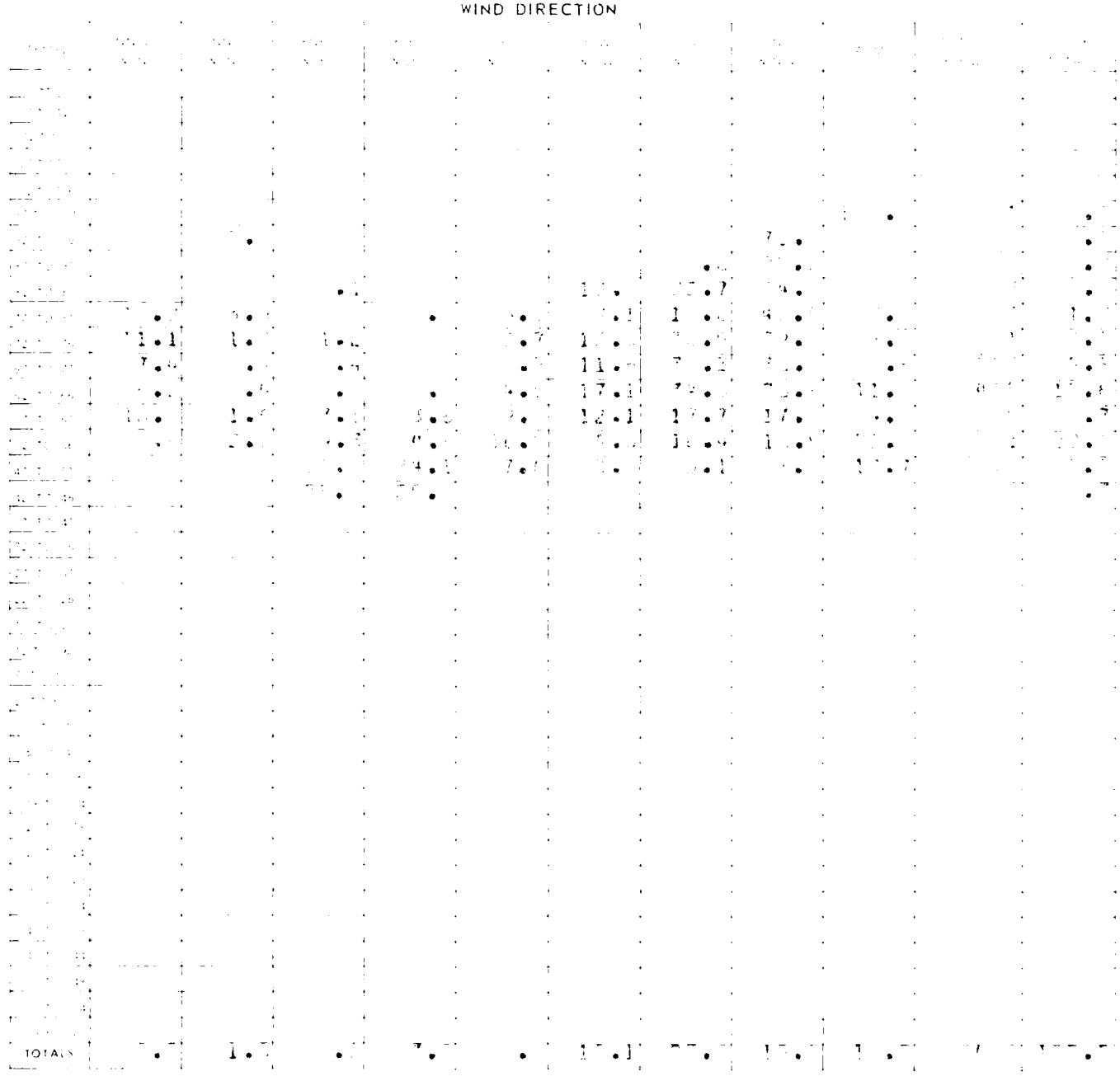
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



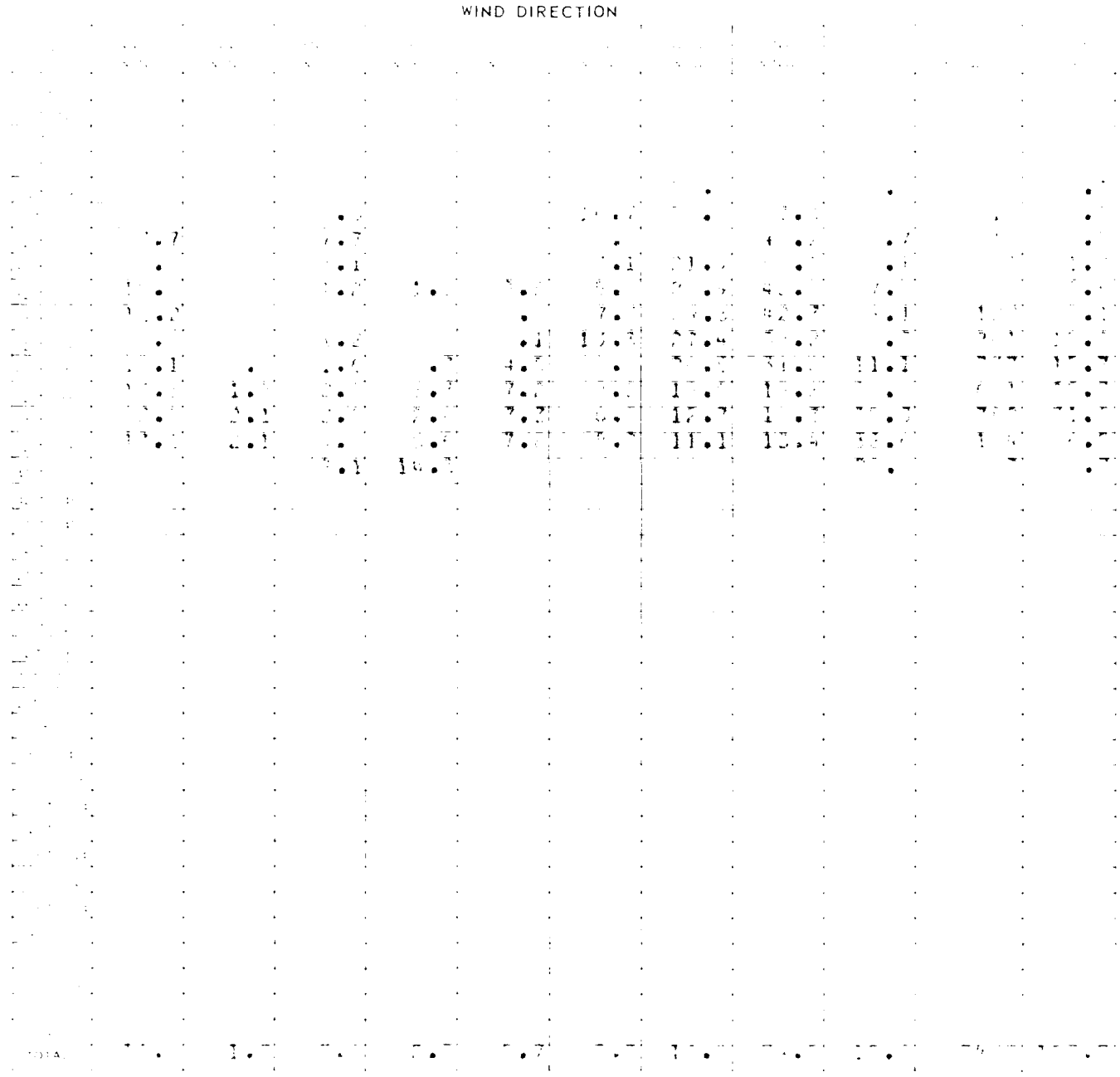
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

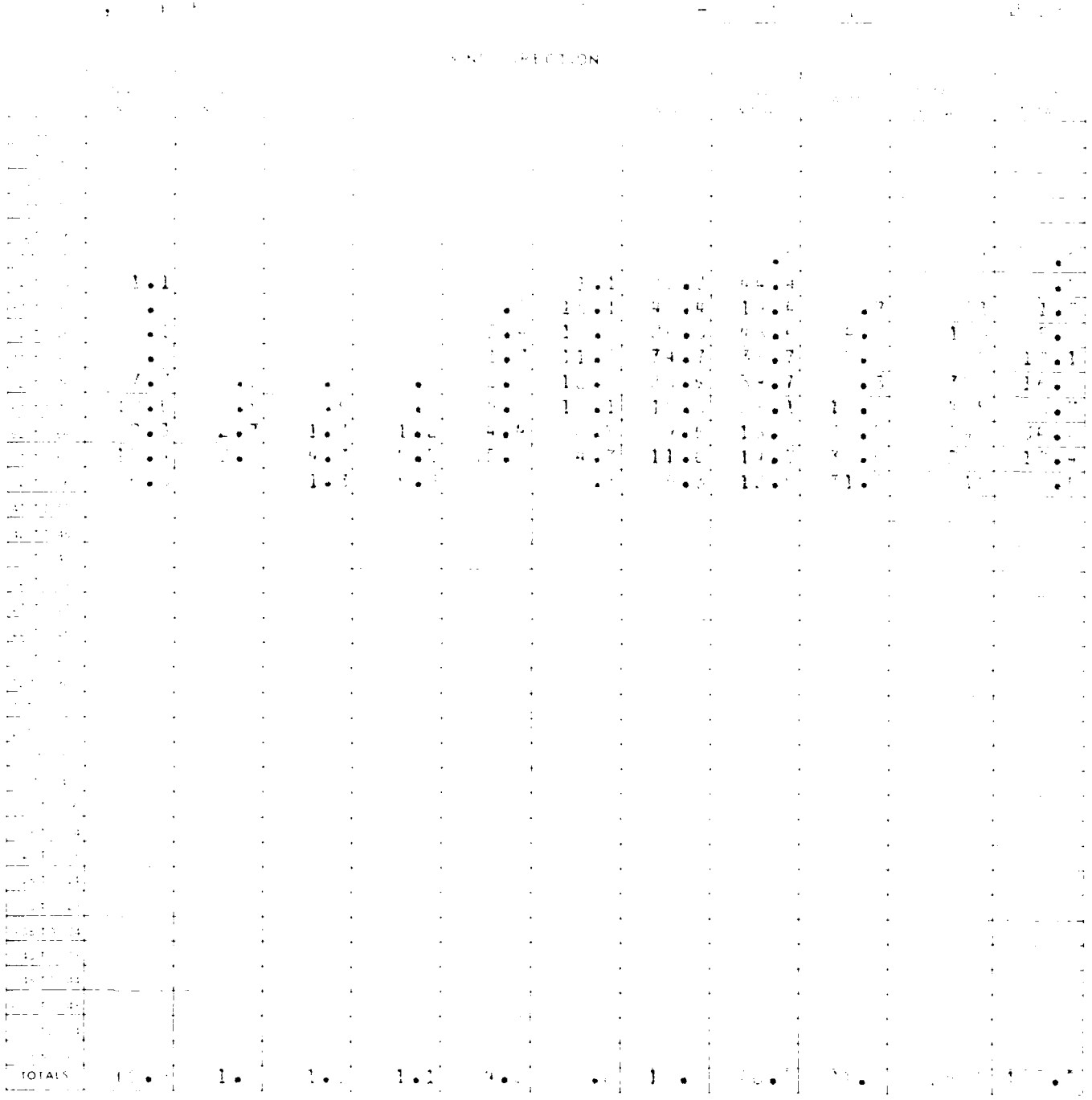


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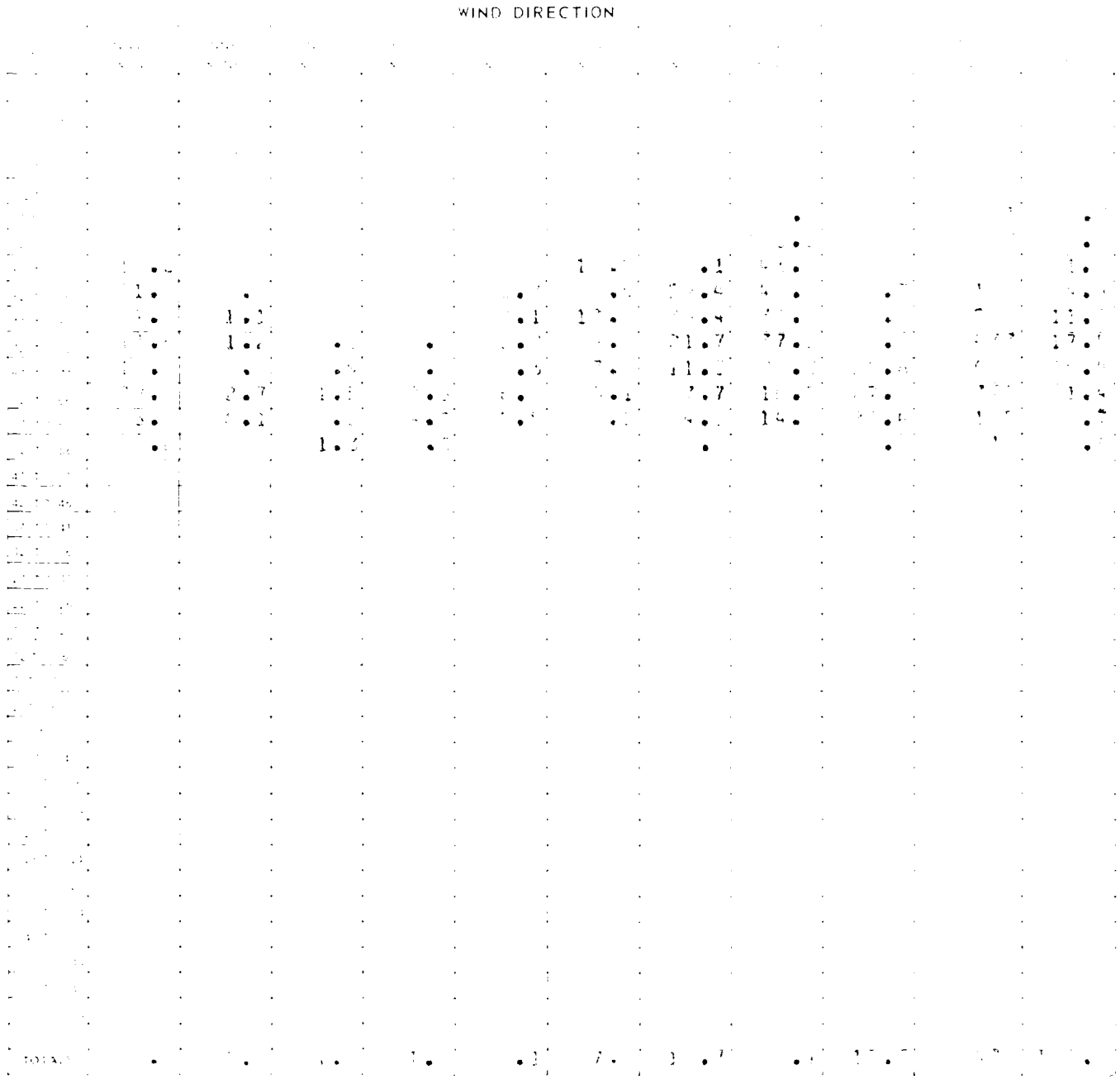
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS
WIND DIRECTION

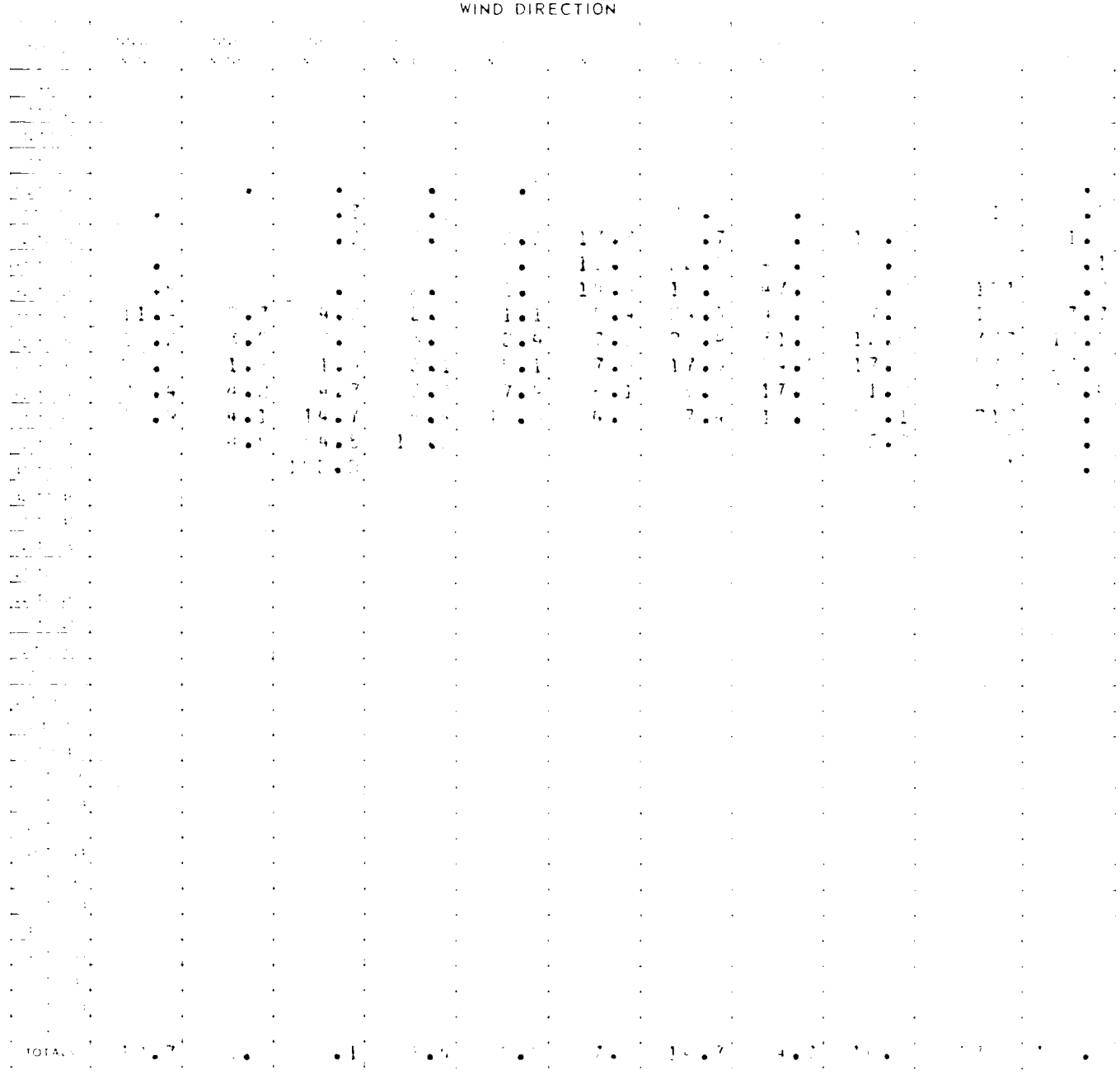


PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

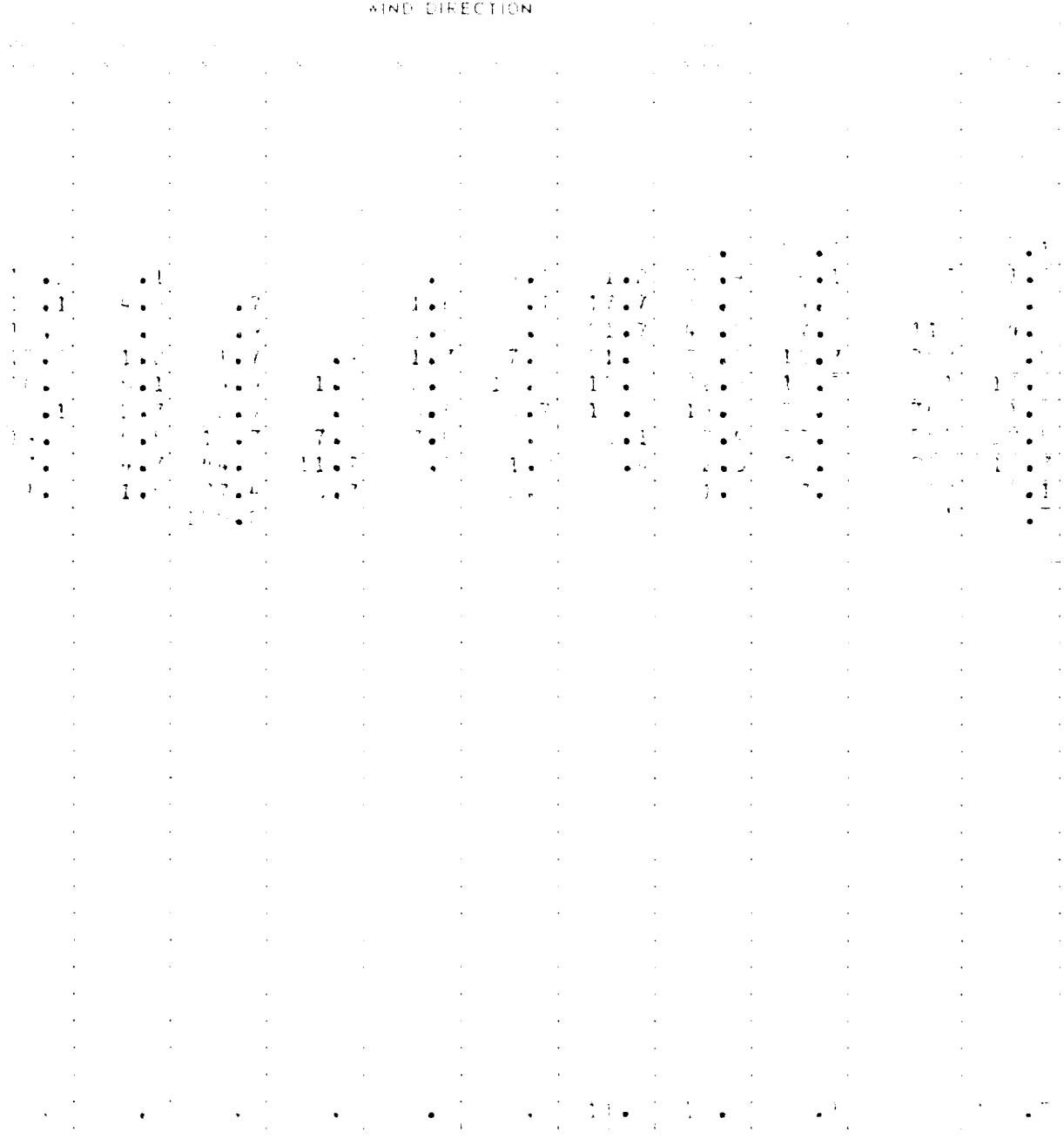


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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

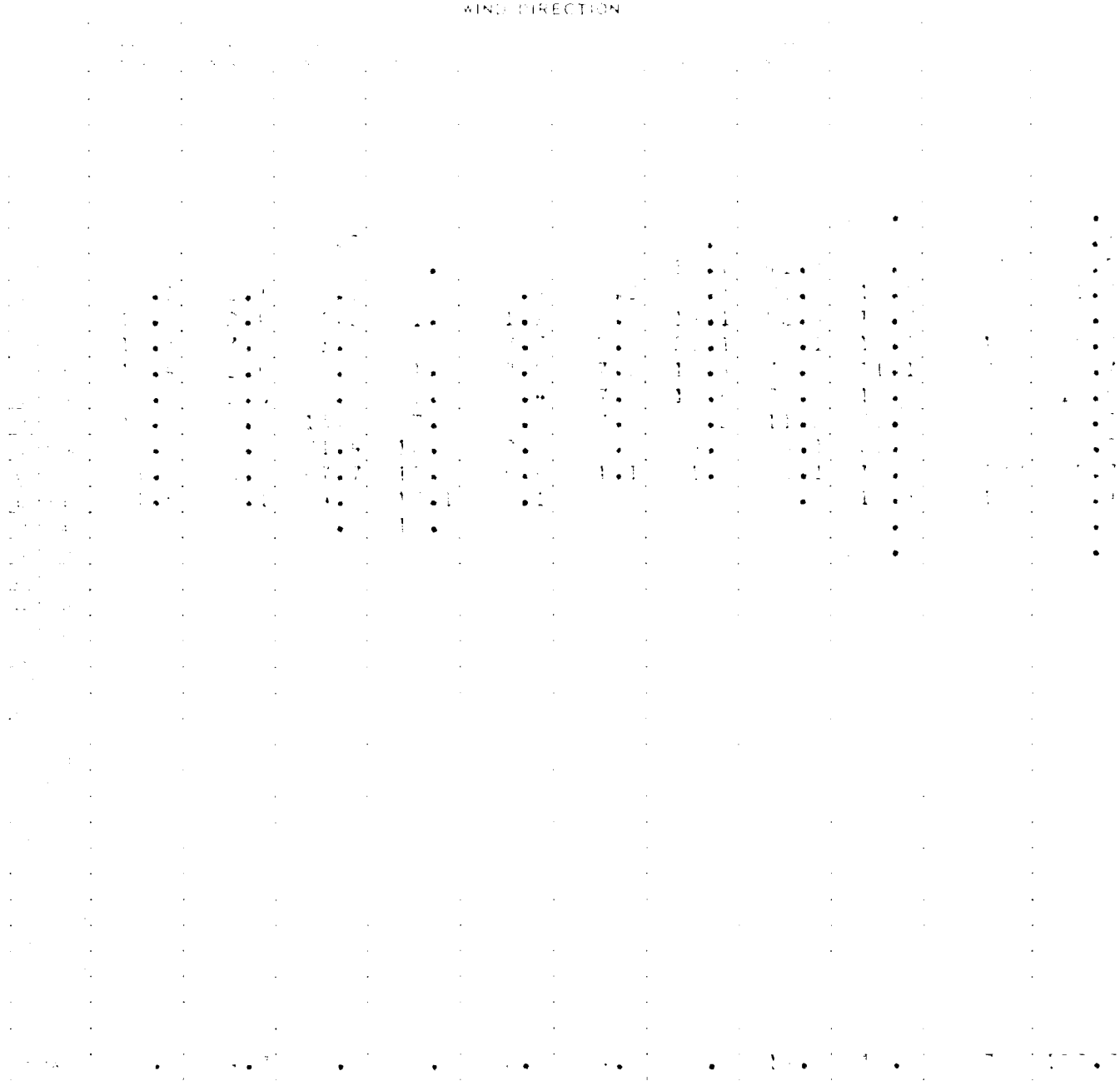


PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

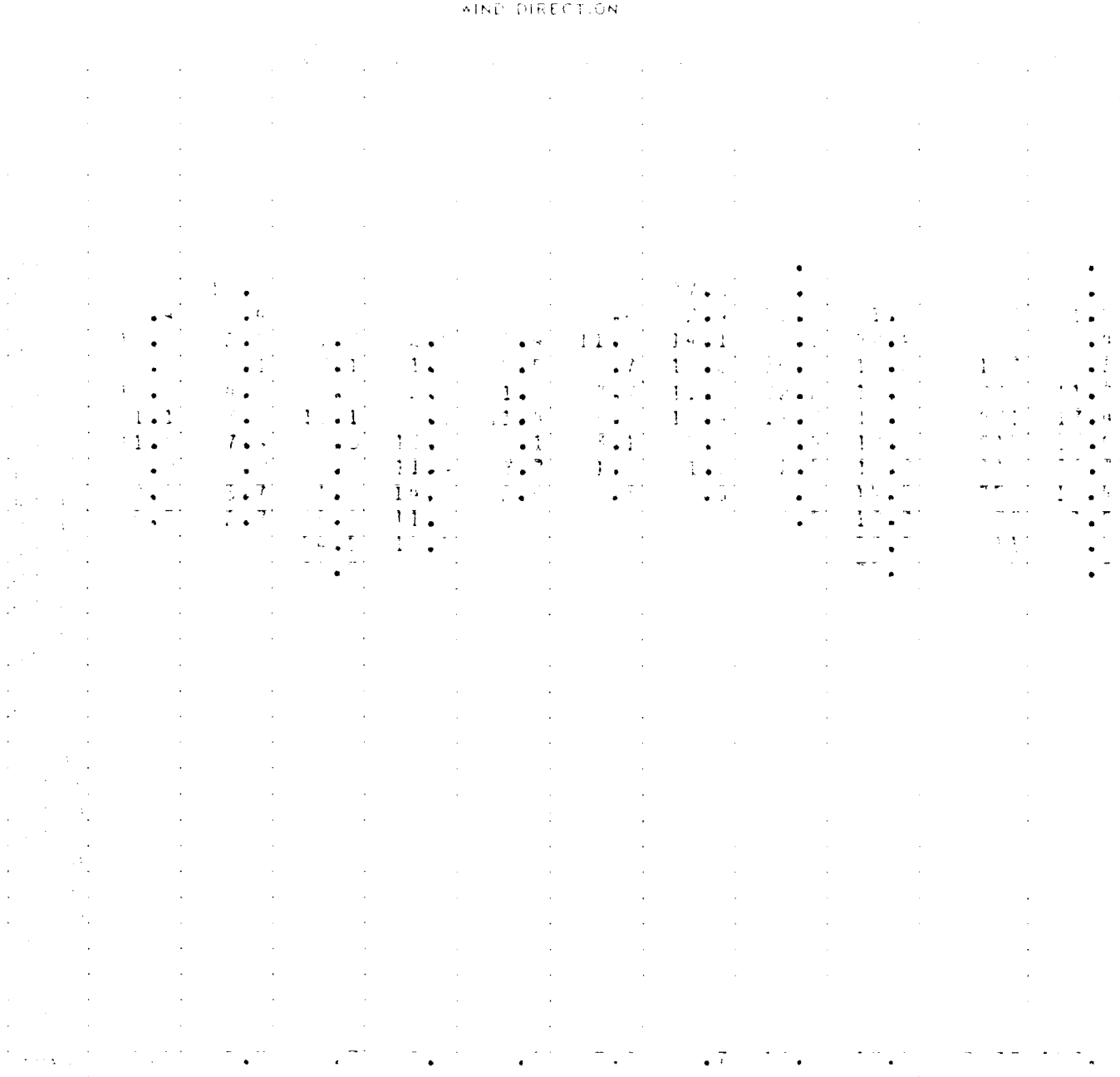


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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



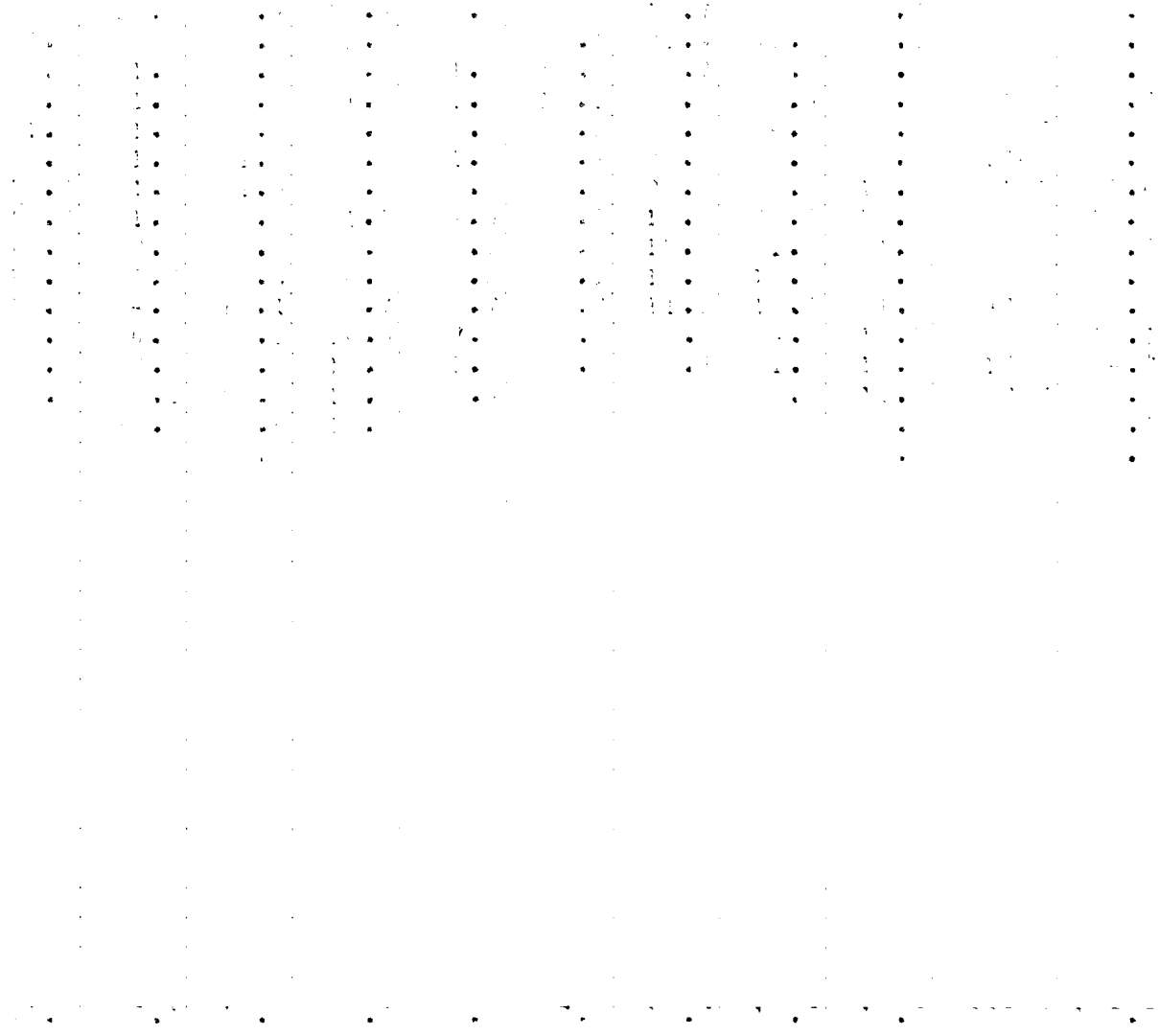
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE

AND DIRECTION

AND DIRECTION



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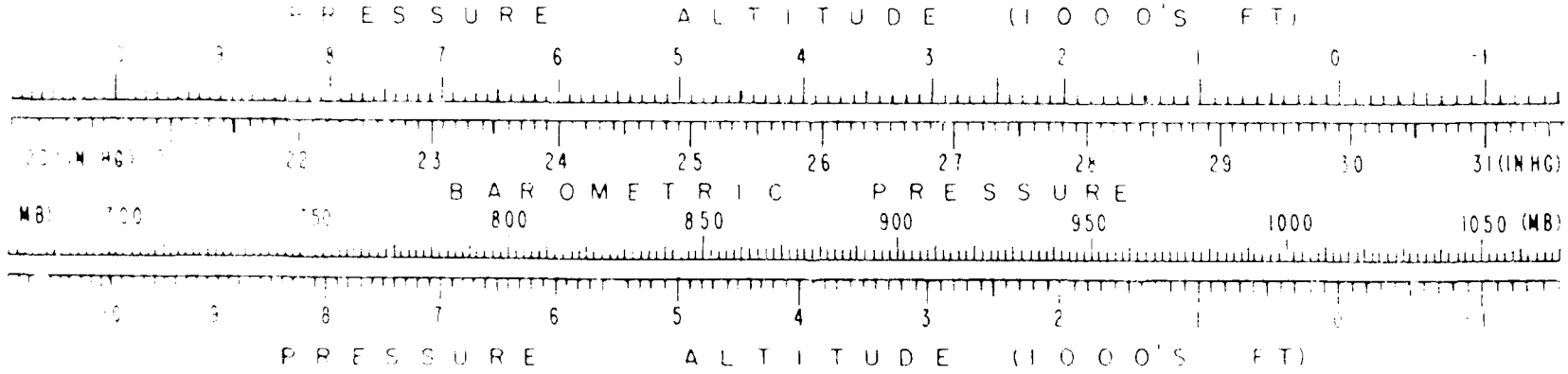
PART F PRESSURE SUMMARY

[illegible] in this part are the tables giving the mean, standard deviation, and total number of observations of station pressure and sea-level pressure by month and annual for the local nearly observations corresponding to the [illegible] hours GMT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of the [illegible] tables, although the overall period is limited to January 1948 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.

2. Sea-level pressure in millibars.

Provided [illegible] is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in thousands of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



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EN
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