

AD A150 382

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

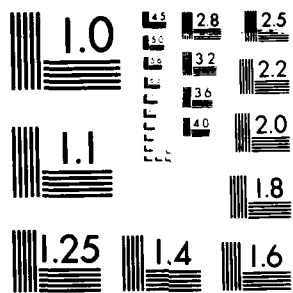
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smos, Norfolk, Va.
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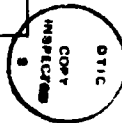
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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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7. AUTHOR(s) NA		6. PERFORMING ORG. REPORT NUMBER
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
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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S/N 0102-LF-014-6601

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
13750	Norfolk, Virginia	36°57' N	76°17' W	15	KXGU	723085

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 (Ops Bldg)	NAS	1949	1960	36°57' N	76°17' W	21	Mercurial	24
2.	" " "	"	1960	1962	"	"	34	"	"
3.	" " "	"	1962	1966	"	"	32	"	"
4.	" " "	FWC	1966	1976	"	"	"	"	"
5.	" " (Bldg LP-1)	"	1966		"	"	36	Aneroid	"

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.		Atop control tower	* Selsyn	Double register	80'	1. Aneroid barometer (NL-448) 2. Barograph (Marine) 3. Semi-auto met stn (AN/GNQ-14B) 4. Ceiling light (NL-121) 5. Cloud height set (AN/GNQ-13) 6. Transmissometer (AN/GNQ-10) 7. Weather radar (FPS-81) (FPS-106) 8. RVR indicator (Model CJ002) 9. Thermoscreen (NL-41) 10. Semi-auto met stn (AN/GNQ-29A)
1a.	Installed 1955	Three eights mile due east (Ops Bldg)	UMQ-5	RD-108	6'	
1b.	1968	" " " "	AN/UMQ-5C	RD-108	15'	
1c.	1980	" " " "	"	"	10'	
		* Date disassembled unknown				

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CONTINUED ON REVERSE SIDE

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:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour average.

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.

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WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

STATION 44-7

44-7

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM 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.
JAN	ALL Y	1.2	45.3	2.8	12.0	.2	46.5	39.5	55.2	1.7		64.9	1754
FEB		1.7	45.5	1.7	11.9	.1	47.5	39.7	61.4	.6	.2	64.6	92
MAR		5.1	47.5	.4	6.5	.3	47.3	37.1	56.3	.4	.3	67.1	1777
APR		1.6	49.9		.6	.4	45.5	37.9	61.3		.3	66.5	1222
MAY		1.1	52.1			.3	47.4	43.1	69.4		.2	75.3	1254
JUN		1.6	44.4			.2	46.5	37.7	72.6		.3	76.7	272
JUL		21.7	51.5				47.1	35.4	74.7		.3	76.5	1772
AUG		11.3	44.4				44.2	40.7	76.9		.5	71.1	1254
SEP		.5	35.7				35.2	39.2	65.5		.1	71.6	1772
OCT		3.4	34.1		.2		35.7	44.5	62.9			68.9	1777
NOV		.1	43.4		1.6	.1	40.3	40.8	55.4			66.5	1772
DEC		.9	39.6	.4	6.3		38.9	39.3	55.8	.7		66.3	1774
TOTALS		4.4	45.6	.4	3.7	.1	43.1	39.5	64.7	.2	.2	71.7	17411

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WEATHER CONDITIONS

STATION NAME: STATION STATION NAME: STATION YEARS: 1961 MONTH: 1961

REPRESENTATIVE RECORDS OF 100 PERIODS OF WEATHER
 CONDIT. NO. FROM HOURLY 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.
			10.7		2.3		12.5	14.0	9.0	.3		31.0	100
			11.0	.6	1.7		12.8	14.0	1.4			27.5	100
			17.0	.7	1.6		14.0	20.0	17.0	.3		37.7	100
			11.0		1.0		11.0	17.7	16.0			41.0	100
			8.0	.0	2.0		11.7	17.5	21.0			34.7	100
			8.7	.0	3.0		13.3	12.0	17.0			34.2	100
		.5	11.0		2.0		12.0	16.0	11.0	.0		31.0	100
			8.0	.3	1.0		11.0	11.0	10.0	.0		31.0	100
TOTALS		.5	10.0	.7	2.0		12.7	14.0	14.7	.3		37.0	470

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WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

MONTHLY STATE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM WEATHER 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
	21		.9		1.4		11.3	13.6	.6			1.2	
	24		7.6		1.1		9.9	14.1	7.3	.4		11.7	
	27	.4	5.7	.2	2.1		7.4	21.2	13.1			15.1	
	1		4.1	.1	4.3		11.1	11.5	23.9	.7		15.7	
	1		4.9		1.7		11.3	11.7	11.3	.7	.4	11.1	20.2
	1		2.5		3.1		11.7	11.3	17.9	.4	.4	11.1	20.2
	1	.4	2.3		1.1		9.9	11.7	11.1	.4	.4	12.1	20.2
	2	.4	4.9		2.1		10.1	14.2	7.1			11.1	20.2
TOTALS		.7	9.1	.1	2.7		11.3	14.7	14.1	.7	.2	27.7	20.2

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WEATHER CONDITIONS

STATION

NO FOLK, VIRGINIA

STATION NAME

77-17

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY 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
	01	1.3	9.7		1.0		11.0	11.0	7.1	.1		19.9	71
	04	.6	12.3	.3	1.3		13.0	15.2	5.4	.3		22.3	71
	07		12.7	.3	1.6		13.9	24.0	24.5	.3		44.0	71
	10		12.9		1.9		14.7	14.5	27.7	.3		40.3	71
	13	.5	12.3		1.7		13.5	11.0	26.1	.3		39.1	71
	16		12.6		1.0		13.6	14.2	22.3	.3	.3	33.2	71
	19		9.0		.6		9.7	11.0	12.6	.6		23.2	71
	22		9.4		1.0		10.0	11.3	10.7	.3		20.6	71
TOTALS		.5	11.4	.1	1.4		12.0	14.0	17.3	.4	.3	20.0	247

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WEATHER CONDITIONS

STATION NO. 01212, WHEELING STATION NAME WHEELING, W. VA. YEARS 77-79 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HALE	% 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
12	31	1.0	7.4				7.4	7.4	7.7			13.4	249
1	34		6.7				6.7	6.6	10.7			15.3	300
2	37		8.0				8.0	12.7	27.0			35.3	300
3	1		7.7				7.7	8.0	24.7			31.3	300
4	17		6.				6.	4.3	19.			21.3	300
5	19	.7	5.3				6.0	4.0	18.0		.2	21.2	300
6	21	1.7	5.7				5.7	4.2	20.3		.3	25.2	300
7	27	.2	5.3				5.5	5.7	8.7			13.2	300
TOTALS		.4	6.9				6.4	7.1	16.9		.1	22.4	2799

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WEATHER CONDITIONS

STATION: NORFOLK, VIRGINIA YEARS: 73-72 MONTH: MAY

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY 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
MAY	01	.3	4.1				4.1	14.1	15.1			30.3	71
	04	.3	4.1				4.1	21.4	17.1			35.4	31
	07	.7	10.0				10.0	22.1	43.5			61.3	31
	1		5.1				5.1	11.4	17.7			45.5	71
	1	1.6	4.1				4.1	6.2	36.5			40.3	71
	1	2.3	4.7				4.7	6.5	31.9			37.1	71
	1	2.9	10.0				10.0	9.7	33.0			41.7	71
	20	1.3	5.4				5.4	13.2	19.0			28.7	71
TOTALS		1.3	6.4				6.4	14.5	29.4			40.0	247

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WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF OCCURRENCE OF EACH WEATHER CONDITION FROM HOURS OBSERVED

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
	17	0.0	5.0				5.0	11.0	24.0			21.0	70
	20	0.0	5.0				5.0	1.0	25.0			21.0	70
	7	0.0	5.0				5.0	21.0	43.0			4.0	70
	1	0.0	0.0				4.0	0.0	40.0			44.0	70
	1	0.0	0.0				0.0	0.0	40.0			40.0	70
	17	1.0	5.0				6.0	0.0	43.0			49.0	70
	17	1.0	0.0				0.0	0.0	41.0			44.0	70
	17	0.0	0.0				0.0	0.0	7.0			7.0	70
TOTALS		0.1	5.0				0.0	0.0	28.4			42.3	240

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WEATHER CONDITIONS

STATION: _____ STATION NAME: _____ YEARS: _____ MONTH: _____

NO. OF STATE OF LOUISIANA IN THE PROVINCE OF WEATHER
 CONDITIONS FROM HURRICANE OBSERVATIONS

MONTH	HOURS (LST)	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
1	50	2.7	4.2				4.0	2.4	2.4			41.0	71
2	1.7	4.5					4.5	1.1	1.1			47.1	71
3	2.7	7.2					1.2	10.3	15.0			71.0	71
4	6.0	2.4					2.7	2.4	1.7			62.6	71
5	1.6	4.5					4.5	1.0	4.5			51.1	71
6	4.2	6.7					5.1	2.4	5.1			58.0	71
7	1.9	7.0					1.4	1.5	5.1			51.7	71
8	7.4	7.7					1.7	4.2	7.7			40.3	71
TOTALS		1.3	5.1				5.1	4.5	51.0			54.7	247

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WEATHER CONDITIONS

STATION NAME

FORT MONROE, VIRGINIA

75-2

YEARS

MONTH

STATION

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY 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
	24	1.7	4.6				4.5	14.2	41.3			47.4	217
	04	0.6	2.3				2.3	23.5	41.3			46.7	71
	7	0.6	2.3				2.7	11.2	60.1			64.7	71
	1	0.7	4.0				4.7	1.2	62.3			63.9	71
	17	1.0	6.1				6.7	2.8	54.5			55.5	217
	1	0.0	7.7				7.7	2.1	52.0			54.2	71
	1	0.0	8.0				6.0	1.2	52.4			55.5	71
	17	1.0	6.8				6.0	1.1	54.7			42.5	217
TOTALS		1.7	4.7				4.5	11.2	51.7			54.5	247

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WEATHER CONDITIONS

177 STATION NAME: NEW YORK, NEW YORK YEARS: 1954 MONTH:

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY 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
	01	1.3	5.0				5.0	11.3	24.7			40.0	700
	02	.7	4.7				4.3	13.3	25.3			38.3	700
	03	.2	3.0				2.0	21.7	47.7			58.7	700
	04		1.7				3.7	12.3	45.1			44.1	700
	05	.7	9.0				3.7	4.7	41.7			64.7	700
	06	1.7	5.0				6.7	5.0	37.7			43.7	700
	07	.0	3.7				6.7	.3	32.7			32.0	700
	08	1.0	6.2				6.3	1.0	26.0			31.3	700
	09												
	10												
	11												
	12												
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	27												
	28												
	29												
	30												
	31												
	TOTALS	.9	6.9				5.9	1.6	35.7			41.9	2400

NAVWEASERVCOM

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WEATHER CONDITIONS

STATION
NEW YORK, INDONIA

17-

1967

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (U.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
01	01	.3	7.7				7.7	1.0	13.0			1.3	1
	04	.3	13.0				1.3	1.0	14.2			2.7	11
	07		6.7				6.7	21.0	27.4			4.0	11
	10		7.7				7.7	7.4	34.0			7.0	11
	13		5.0				5.0	.3	24.0			27.7	11
	16	.6	6.0				6.6	6.2	19.4			23.0	11
	19	.3	7.1				7.1	4.5	17.7			11.7	11
	22	.6	7.1				7.1	7.4	12.7			1.1	11
TOTALS		.3	7.1				7.6	11.5	20.4			27.9	241

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WEATHER CONDITIONS

STATION _____ STATION NAME _____ YEARS _____

PERCENTAGE OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATION.

MONTH	HOURS (LST)	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.
Jan	24	0.5	7.0				7.7	16.7	17.0			31.7	270
Feb	24		4.2				4.7	16.7	17.0			31.7	270
Mar	24		1.7				1.7	26.7	27.0			42.0	270
Apr	24		0.7				0.7	1.0	10.0			11.7	270
May	24		2.0				2.0	1.0	27.0			31.7	270
Jun	24		0.0				0.0	1.0	21.0			22.0	270
Jul	24		1.7				1.7	10.0	10.0			21.7	270
Aug	24		1.7				1.7	1.0	11.0			13.7	270
Sep	24												270
Oct	24												270
Nov	24												270
Dec	24												270
TOTALS		0.2	0.1				0.2	1.0	21.0			32.0	2700

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WEATHER CONDITIONS

STATION W. F. L. W. WINDING STATION NAME W. F. L. W. WINDING YEARS 1952 MONTH 10

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY 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
10	21		11.9		.3		11.6	18.1	1.1			20.8	217
11	24		11.7				11.7	14.2	7.4			21.0	21
12			11.2		.1		11.2	22.8	11.9			23.3	21
1			11.0		1.0		11.3	14.0	21.0			26.5	21
2			11.3		2.7		13.3	14.2	16.1			23.7	21
3			12.0		1.7		12.0	14.3	13.5			20.0	21
4			12.0		.7		12.9	15.0	1.1			19.1	21
5			9.7		.3		9.7	14.0	1.0			14.8	21
TOTALS			11.0		.7		11.1	14.4	11.2			25.0	2475

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WEATHER CONDITIONS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

THE FORTALE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HURLY OBSERVATION

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 OBS' TO VISION	TOTAL NO. OF OBS
JAN	ALL	.7	1.0	.5	2.1		12.7	14.3	14.7	.1		27.8	247
FEB		.1	.2	.1	2.7		11.3	14.7	14.4	.2	.2	27.7	235
MAR		.1	11.1	.1	1.0		12.4	14.1	17.7	.6		31.7	25
APR		.4	7.1				6.1	.1	15.1			21.4	217
MAY		1.7	.4				.4	14.1	22.4			16.7	26
JUN		.1	.1				1.1	.1	14.4			17.1	247
JUL		.3	1.1				.1	.1	21.1			24.7	26
AUG		1.1	.7				.7	11.3	22.7			14.1	247
SEP		.1	.1				.1	1.1	7.1			4.1	247
OCT		.7	7.1				7.1	11.1	11.5			22.1	24
NOV		.1	.1				.1	1.1	11.4			12.1	217
DEC			11.1		.7		1.1	1.4	1.4			23.1	247
TOTALS		.7	2.1	.1	.1		.4	11.4	16.7	.1	.1	30.5	2926

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

1770 NORFOLK, VIRGINIA JANUARY 1973-DECEMBER 1992 JANUARY ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SMOKE	BLINDING SMOKE	OTHER
N	11.0	2.4	3.9		.4	5.4		.3	21.7	1.6	11.7	.3		59.7
NNE	11.3	1.1	1.2	1.5	.5	4.6			14.3	2.2	20.1	1.6		55.7
NE	14.0		.3			2.1			11.5	3.1	27.8			47.7
ENE	7.0					1.1			5.0	1.1	27.3			41.4
E	14.0			1.0		1.0			5.5	1.5	12.7			60.3
ESE	7.5		.1	2.1		2.1			11.3		17.1			53.2
SE						4.7			15.4	6.3	14.8			53.7
SSE	11.0	3.5	1.5	1.0					12.9	7.1	12.8			63.7
S	7.0	4.3	.6						13.7	4.3	17.4			54.7
SSW	7.0	1.2	1.7		.6				7.0	2.0	15.1			73.7
SW	4.0	1.3				.8			5.8	1.9	14.2			73.7
WSW	4.7	.5	2.7		.5	.5			5.3	1.1	12.8			77.7
W	4.7	1.2	1.2	.4		1.5			10.8	.7	6.5			77.7
WNW	5.0		1.2			.7			5.1		11.8			77.1
NW	7.7		1.6		.8	3.3			5.2	.7	7.5			77.7
NNW	7.4	.6	1.3			4.8			11.7	1.2	13.1			74.4
VARIABLE									14.7	5.1	14.7			52.7
CALM														
TOTAL	106	23	43	4	7	13		1	309	57	356	4		1616
% TOTAL	1.6	.9	1.7	.3	.2	2.1		.2	12.3	2.3	14.3	.2		66.1

TOTAL NUMBER OF OBSERVATIONS 2,476

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION VS WEATHER CONDITIONS

WIND DIRECTION	WIND SPEED	WIND FORCE	WIND STATE	WIND TYPE	WIND CLASS	WIND CODE	WIND SYMBOL	WIND NAME	WIND NUMBER	WIND PERCENT	WIND TOTAL	WIND AVERAGE	WIND RANGE	WIND MAX	WIND MIN
000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010
020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020
030	030	030	030	030	030	030	030	030	030	030	030	030	030	030	030
040	040	040	040	040	040	040	040	040	040	040	040	040	040	040	040
050	050	050	050	050	050	050	050	050	050	050	050	050	050	050	050
060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060
070	070	070	070	070	070	070	070	070	070	070	070	070	070	070	070
080	080	080	080	080	080	080	080	080	080	080	080	080	080	080	080
090	090	090	090	090	090	090	090	090	090	090	090	090	090	090	090
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260
270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290
300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
TOTAL															

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS WEATHER CONDITIONS

WIND DIRECTION	SEA	SEA IN WAVE	SMALL WAVES	SMALL WAVES	SMALL WAVES	SMALL WAVES	SMALL WAVES	SMALL WAVES	SMALL WAVES	SMALL WAVES
N										
NNE										
NE										
ENE										
E										
ESE										
SE										
SSE										
S										
SSE										
SE										
ESE										
E										
ENE										
NE										
NNE										
N										
SEA										
WAVE										
SMALL										
WAVES										
TOTAL										

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

WEATHER	000-090	090-180	180-270	270-360	TOTAL
00	1	1	1	1	4
01	1	1	1	1	4
02	1	1	1	1	4
03	1	1	1	1	4
04	1	1	1	1	4
05	1	1	1	1	4
06	1	1	1	1	4
07	1	1	1	1	4
08	1	1	1	1	4
09	1	1	1	1	4
10	1	1	1	1	4
11	1	1	1	1	4
12	1	1	1	1	4
13	1	1	1	1	4
14	1	1	1	1	4
15	1	1	1	1	4
16	1	1	1	1	4
17	1	1	1	1	4
18	1	1	1	1	4
19	1	1	1	1	4
20	1	1	1	1	4
21	1	1	1	1	4
22	1	1	1	1	4
23	1	1	1	1	4
24	1	1	1	1	4
25	1	1	1	1	4
26	1	1	1	1	4
27	1	1	1	1	4
28	1	1	1	1	4
29	1	1	1	1	4
30	1	1	1	1	4
31	1	1	1	1	4
32	1	1	1	1	4
33	1	1	1	1	4
34	1	1	1	1	4
35	1	1	1	1	4
36	1	1	1	1	4
37	1	1	1	1	4
38	1	1	1	1	4
39	1	1	1	1	4
40	1	1	1	1	4
41	1	1	1	1	4
42	1	1	1	1	4
43	1	1	1	1	4
44	1	1	1	1	4
45	1	1	1	1	4
46	1	1	1	1	4
47	1	1	1	1	4
48	1	1	1	1	4
49	1	1	1	1	4
50	1	1	1	1	4
51	1	1	1	1	4
52	1	1	1	1	4
53	1	1	1	1	4
54	1	1	1	1	4
55	1	1	1	1	4
56	1	1	1	1	4
57	1	1	1	1	4
58	1	1	1	1	4
59	1	1	1	1	4
60	1	1	1	1	4
61	1	1	1	1	4
62	1	1	1	1	4
63	1	1	1	1	4
64	1	1	1	1	4
65	1	1	1	1	4
66	1	1	1	1	4
67	1	1	1	1	4
68	1	1	1	1	4
69	1	1	1	1	4
70	1	1	1	1	4
71	1	1	1	1	4
72	1	1	1	1	4
73	1	1	1	1	4
74	1	1	1	1	4
75	1	1	1	1	4
76	1	1	1	1	4
77	1	1	1	1	4
78	1	1	1	1	4
79	1	1	1	1	4
80	1	1	1	1	4
81	1	1	1	1	4
82	1	1	1	1	4
83	1	1	1	1	4
84	1	1	1	1	4
85	1	1	1	1	4
86	1	1	1	1	4
87	1	1	1	1	4
88	1	1	1	1	4
89	1	1	1	1	4
90	1	1	1	1	4
91	1	1	1	1	4
92	1	1	1	1	4
93	1	1	1	1	4
94	1	1	1	1	4
95	1	1	1	1	4
96	1	1	1	1	4
97	1	1	1	1	4
98	1	1	1	1	4
99	1	1	1	1	4
TOTAL	17	17	17	17	68

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION
BY WEATHER CONDITIONS

WEATHER	0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	TOTAL
ALL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
0-10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
11-20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
21-30	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
31-40	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
41-50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
51-60	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
61-70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
71-80	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
81-90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
91-100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
TOTAL	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

1. NAME OF STATION: FAIRFAX, VIRGINIA 2. DATE: JANUARY 1973-DECEMBER 1982 3. MONTH: JUNE 4. YEAR: 1982

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZZING RAIN FREZZING DRIZZLE	SLEET ICE FALLS	SNOW FLURRY DRIFT SHOWERS	HAIL SMALL HAIL	THUNDER	WINDY	WINDY DRIZZLE	SMALL HAZE	FOG MIST	SMOKE	OTHER	TOTAL
N	0.1	2.7	0.0	0.0	0.0	0.0	0.0	5.2	11.1	0.7	47.7	0.0	0.0	0.0	67.7
NNE	0.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7	0.0	0.0	0.0	40.8
NE	0.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	0.0	0.0	0.0	36.4
ENE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.4	33.3	0.0	0.0	0.0	35.4
E	0.1	1.2	0.0	0.0	0.0	0.0	0.0	1.2	0.4	2.4	31.3	0.0	0.0	0.0	35.5
ESE	0.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	23.5	0.0	0.0	0.0	28.8
SE	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	0.0	0.0	0.0	29.4
SSE	0.1	0.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	30.5	0.0	0.0	0.0	32.2
S	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	36.6	0.0	0.0	0.0	38.1
SSW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.4	2.7	45.1	0.0	0.0	0.0	49.9
SW	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	57.0	0.0	0.0	0.0	60.4
WSW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.4	4.7	53.4	0.0	0.0	0.0	60.5
W	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0	46.6	0.0	0.0	0.0	48.7
WNW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	19.1	0.0	0.0	0.0	19.2
NW	1.0	7.0	4.0	0.0	0.0	0.0	0.0	3.0	14.0	0.0	37.0	0.0	0.0	0.0	54.0
NNW	1.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	26.0
VARIABLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0	15.0	5.0	91.0	0.0	0.0	0.0	111.0
TOTAL	0.0	3.3	0.5	0.0	0.0	0.0	0.0	0.0	6.7	2.1	38.3	0.0	0.0	0.0	47.1

TOTAL NUMBER OF OBSERVATIONS: 2850

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

177 30 01 W, VTRAC 37 JANUARY 1973-D CUMBER 1982 JULY ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREELING RAIN FREEZING DRIZZLE	ICE SHOWERS CRYSTALS	SNOW DRY PELLETS SHOWERS	HAIL STALL HAIL	THUNDER	FOG	DEFOG DRIZZLE FOG	SMOG HAZE	SUNNY PARTLY CLOUDY
N		1.1						1.1	4.5	0.7	57.4	42.1
NNE		0.2							2.3	1.7	42.3	50.7
NE	1.0	0.3						0.5	0.6	3.2	37.1	50.5
ENE		1.4						0.7	0.3	0.7	34.5	42.0
E	1.0	1.4						1.4	4.2	0.7	41.7	54.7
ESE		0.5						2.2	1.5	4.3	47.8	45.7
SE	2.4	1.5						3.7	2.4	2.4	61.5	35.4
SSE	1.0	0.5						4.7	4.7	1.1	36.7	58.0
S	1.0	7.0						7.7	4.5	3.7	48.7	44.2
SSW		2.1						0.5	0.0	2.4	56.1	41.0
SW	1.0	6.1						1.3	7.1	4.3	54.2	33.8
WSW		0.3						3.7	1.0	4.6	61.2	71.0
W	1.0	0.4						4.3	6.4	2.0	65.9	75.4
WNW	1.0	7.0	1.5					7.0	3.5		57.9	43.9
NW	5.5	3.5						6.5	0.1		54.5	35.8
NNW	1.0	1.7	1.7					7.4	7.5	1.7	61.5	37.1
VARIABLE								7.2	5.6	4.4	44.2	40.1
CALM												
TOTAL	27	26	3					57	143	66	1273	1006
% TOTAL	1.1	3.0	.1					2.3	4.5	2.7	51.4	43.1

TOTAL NUMBER OF OBSERVATIONS 2,476

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

WIND DIRECTION	RAIN	RAIN SHOWERS	THUNDER	THUNDER WITH RAIN	THUNDER WITH RAIN AND SHOWERS	THUNDER WITH RAIN AND THUNDER	THUNDER WITH RAIN AND SHOWERS AND THUNDER	THUNDER WITH RAIN AND THUNDER AND SHOWERS	THUNDER WITH RAIN AND THUNDER AND SHOWERS AND THUNDER	OTHER	ALL
N	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	44.1	59.9
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	43.6
NE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7	44.7
ENE	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	46.5	47.5
E	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.4	52.4
ESE	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	51.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	52.0	53.0
SSE	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	41.7
S	1.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	5.0	47.8	52.8
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.4	51.4
SW	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.5	50.5
WSW	1.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.3	51.3
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	55.7	56.7
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	55.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.7	53.7
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.6	53.6
VARIABLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3	47.3
TOTAL	1.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.2	125.2
TOTAL	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.1	50.1

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

WIND DIRECTION	FAIR	PARTLY CLOUDY	OVERCAST	SMOG	FOG	RAINY	STORMY	TOTAL
N	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
NNE	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
NE	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
ENE	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
E	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
ESE	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
SE	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
SSE	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
S	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
SSW	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
SW	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
WSW	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
W	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
WNW	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
NW	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
NNW	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
ALL	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3
TOTAL	7.7	1.1	0.5	0.0	0.0	0.0	0.0	9.3

TOTAL NUMBER OF OBSERVATIONS 140

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION: ... DATE: JAN 47 1951 ...

WIND DIRECTION	RAIN	RAIN OR WIND	WINDY	WINDY & WAVEY	WINDY & WAVY	WINDY & WAVY	WINDY & WAVY	WINDY & WAVY	WINDY & WAVY	WINDY & WAVY	WINDY & WAVY	WINDY & WAVY
N	1.1	1.1	1.1									74.0
NNE			1.4									77.0
NE	2.7	0.5	1.5									75.0
ENE	7.1		0.2									78.0
E	2.7	0.7	0.7									67.0
ESE	2.0	0.1										50.7
SE		1.0										59.7
SSE	0.7	0.4	1.1									58.9
S		0.5										53.7
SSW			1.0									51.1
SW		1.0										45.0
WSW	1.0	1.7	1.3									77.1
W		2.0	1.5									71.0
WNW		0.3	1.0									70.0
NW		1.0	1.8									40.0
NNW		0.1	0.1									77.0
VARIABLE												
ALM												58.0
TOTAL	11	17	70									17.1
TOTAL	0.0	1.0	1.4									60.6

TOTAL NUMBER OF OBSERVATIONS 1440

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

1977 WINDY, VIRGINIA JANUARY 1973-OCTOBER 1980 NWS WFO ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREQUENT RAIN FREEZING DRIZZLE	ICE SHOWERS	ICE PELLETS	ICE STEPS	HAZARDOUS	SMOG	FOG	THUNDER	WINDY	OTHER	TOTAL
N	1.0	1.1	3.7								0.4	51.8		14.5
NNE	1.0	1.0	4.1								0.7	50.4		28.1
NE	0.0	0.0	4.1								0.8	26.2		68.0
ENE	0.0	0.0	0.9								0.9	26.3		47.0
E	11.0	0.0	0.9									51.4		36.7
ESE	7.0	0.0	11.1									14.0	3.7	35.7
SE	0.0	2.0	0.0									10.0	5.1	20.6
SSE	0.0	1.0	0.0									7.8	4.0	20.6
S	7.4	3.0	1.0								0.0	1.0	0.0	10.0
SSW	0.0	2.0	0.0									12.7	1.0	21.1
SW	2.0	1.0	0.0									10.4	1.0	24.4
WSW	0.0	0.0	0.0									10.1	0.0	21.0
W	0.0	1.2	1.2									4.7	0.0	10.1
WNW	0.0	1.0	0.0									10.2	1.0	0.0
NW	0.0	0.0	0.0									5.0	0.0	7.0
NNW	0.0	0.0	0.0									11.7	0.0	11.0
VARIABLE														
CALM														43.1
TOTAL	1.0	1.0	4.1									33.0	0.0	47.4
TOTAL	0.0	1.0	1.0									0.1	10.1	10.8

TOTAL NUMBER OF OBSERVATIONS

1,309

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

04 MAY 1977 - 0600 HRS - 1947

WIND DIRECTION	RAIN	RAIN THUNDER	FREEZE RAIN FREEZE THUNDER	DRIZZLE	SMOG FOG MIST	HAZE	SMOKE	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT	WIND DRIFT
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	1.1	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	1.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARIABLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A.M.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN	FREEZING DRIZZLE	SLEET	SNOW	SNOW GRAPEFALLS	ICE	HAZARDOUS ICE	SMOKE	FOG	THUNDER	WINDY	OTHER	TOTAL
N	.1	1.6	2.7			.1	1.3						.1	1.1	.7	26.3
NNE	.1	1.1	2.3			.4	1.7						.2	1.2	1.4	21.2
NE	.1	1.2	1.9			.4	.9						.7	1.3	1.4	20.1
ENE	.1	1.7	1.1			.1	.3						.3	1.7	1.7	27.7
E	.1	2.2	1.3			.3	.6						.6	1.9	1.4	31.3
ESE	.1	2.7	1.2			.3	.3						1.7	1.7	1.7	27.3
SE	.1	3.2	.6			.1	.3						1.2	1.9	3.1	27.1
SSE	.1	3.4	.6			.1	.1						1.3	2.4	2.4	29.4
S	.1	2.2	.4				.1						1.2	2.1	3.7	27.5
SSW	.1	2.1	.2				.1						.7	2.4	2.7	22.3
SW	1.0	2.9	.7				.1						.7	7.1	2.5	35.4
WSW	.1	2.6	.5			.1	.1						.9	7.5	2.1	37.2
W	2.0	2.7	.7			.1	.4						.9	7.3	1.7	23.3
WNW	.1	2.2	1.5				.1						1.1	7.5	.7	15.3
NW	.4	1.7	1.1			.1	.3						.7	7.7	1.3	14.9
NNW	.1	1.3	.4				.1						.4	.5	1.1	12.1
VARIABLE																
CALM		1.4					.1							1.4	.7	53.4
TOTAL	7.4	63.0	7.1			1.3	2.9	1.5					2.1	26.2	6.3	173.1
% TOTAL	4.3	36.4	4.1			.8	1.7	.8					1.2	15.2	3.6	61.4

TOTAL NUMBER OF OBSERVATIONS 282

NAVWEASERVCOM

Weather Station Building
Aldwell, N.J.

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amount 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, monthly 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 table, are the monthly mean amount, 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 will have limited value and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts of individual year and month for the entire period of record available. Also provided are the mean and standard deviation for each month and annual (all months). The extremes for a month are not printed wherever it is computed 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 0600 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 1950, 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)		
	NONE	TRACE	0.04	0.5	1.0	2.5	5.0	10.0	25.0	50.0	100.0	200.0	OVER 200.0	MEAN			GREATEST	LEAST	
PRESIP																			
SNOWFAL																			
SNOW DEPTH																			
JAN																			
FEB																			
MAR																			
APR																			
MAY																			
JUN																			
JUL																			
AUG																			
SEP																			
OCT																			
NOV																			
DEC																			
ANNUAL																			

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	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000					
SNOWFALL	NONE	TRACE	0-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-14	15-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-7	13-24	25-36	37-48	49-60	61-70	OVER 70					
JAN																		
FEB																		
MAR																		
APR																		
MAY																		
JUN																		
JUL																		
AUG																		
SEP																		
OCT																		
NOV																		
DEC																		
ANNUAL																		

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
(FROM DAILY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____

PRECIP	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	0	02 05	06 10	11 25	26 50	51 100	101 250	251 500	501 1000	1001 2000	OVER 2000	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	0 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	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			

WALL STATION NUMBER: 17
STATION NAME: ...

EXTREME VALUES

STATION NAME: _____ YEARS: _____

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN													
S.D.													
TOTAL OBS.													

STATUS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION NO. STATION NAME YEARS

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

SACS

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

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

NOV. 1957
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, NORTH CAROLINA STATION NAME ASHEVILLE YEARS

PRECIPITATION DEPTH IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1957													
1958													
1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
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2010													
2011													
2012													
2013													
2014													
2015													
2016													
2017													
2018													
2019													
2020													
2021													
2022													
2023													
2024													
2025													
2026													
2027													
2028													
2029													
2030													
MEAN													
S D													
TOTAL OBS													

SMOS

UNITED STATES AIR FORCE DETACHMENT
 DIRNAVOCEANMET-SMOS

DAILY EXTREME AMOUNTS

STATION NAME: DIRNAVOCEANMET-SMOS
 LOCATION: ...
 YEARS: 1947-1977
 MONTH: ...

DAY	YEAR	SNOWFALL GREATEST		
		INCHES	MM	DATE
1	1947			
2	1947			
3	1947			
4	1947			
5	1947			
6	1947			
7	1947			
8	1947			
9	1947			
10	1947			
11	1947			
12	1947			
13	1947			
14	1947			
15	1947			
16	1947			
17	1947			
18	1947			
19	1947			
20	1947			
21	1947			
22	1947			
23	1947			
24	1947			
25	1947			
26	1947			
27	1947			
28	1947			
29	1947			
30	1947			
31	1947			
Monthly	1947	7.0	178	1977

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.07	27	1947			
2	1.07	27	1947			
3	1.07	27	1947			
4	1.07	27	1947			
5	1.07	27	1947			
6	1.07	27	1947			
7	1.07	27	1947			
8	1.07	27	1947			
9	1.07	27	1947			
10	1.07	27	1947			
11	1.07	27	1947			
12	1.07	27	1947			
13	1.07	27	1947			
14	1.07	27	1947			
15	1.07	27	1947			
16	1.07	27	1947			
17	1.07	27	1947			
18	1.07	27	1947			
19	1.07	27	1947			
20	1.07	27	1947			
21	1.07	27	1947			
22	1.07	27	1947			
23	1.07	27	1947			
24	1.07	27	1947			
25	1.07	27	1947			
26	1.07	27	1947			
27	1.07	27	1947			
28	1.07	27	1947			
29	1.07	27	1947			
30	1.07	27	1947			
31	1.07	27	1947			
Monthly	1.12	54	1954	9.0	228	1977

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

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

STATION NAME		YEARS					
MONTH		MONTH					
DAY	PRECIPITATION GREATEST	INCHES	MM	DATE	INCHES	MM	DATE
1	0.0	0.0	0.0	1970			
2	0.0	0.0	0.0	1970			
3	0.0	0.0	0.0	1970			
4	1.0	25	1970				
5	0.0	0.0	0.0	1970			
6	0.0	0.0	0.0	1970			
7	1.0	25	1970				
8	1.0	25	1970				
9	0.0	0.0	0.0	1970			
10	0.0	0.0	0.0	1970			
11	1.14	29	1970				
12	0.0	0.0	0.0	1970			
13	0.0	0.0	0.0	1970			
14	0.0	0.0	0.0	1970			
15	0.0	0.0	0.0	1970			
16	0.0	0.0	0.0	1970			
17	0.0	0.0	0.0	1970			
18	0.0	0.0	0.0	1970			
19	0.0	0.0	0.0	1970			
20	0.0	0.0	0.0	1970			
21	0.0	0.0	0.0	1970			
22	1.0	25	1970				
23	1.0	25	1970				
24	0.0	0.0	0.0	1970			
25	0.0	0.0	0.0	1970			
26	0.0	0.0	0.0	1970			
27	0.0	0.0	0.0	1970			
28	0.0	0.0	0.0	1970			
29	0.0	0.0	0.0	1970			
30	1.0	25	1970				
31	0.0	0.0	0.0	1970			
Monthly	2.45	62	1970				

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

DIRNAVOCEANMET-SMOS

4

NAVY WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

STATION NAME: _____ YEARS: _____
MONTH: _____

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.0	0.0	1947			
2	0.0	0.0	1947			
3	0.0	0.0	1947			
4	0.0	0.0	1947			
5	0.0	0.0	1947			
6	0.0	0.0	1947			
7	0.0	0.0	1947			
8	0.0	0.0	1947			
9	0.0	0.0	1947			
10	0.0	0.0	1947			
11	0.0	0.0	1947			
12	0.0	0.0	1947			
13	0.0	0.0	1947			
14	0.0	0.0	1947			
15	0.0	0.0	1947			
16	0.0	0.0	1947			
17	0.0	0.0	1947			
18	0.0	0.0	1947			
19	0.0	0.0	1947			
20	0.0	0.0	1947			
21	0.0	0.0	1947			
22	0.0	0.0	1947			
23	0.0	0.0	1947			
24	0.0	0.0	1947			
25	0.0	0.0	1947			
26	0.0	0.0	1947			
27	0.0	0.0	1947			
28	0.0	0.0	1947			
29	0.0	0.0	1947			
30	0.0	0.0	1947			
31	0.0	0.0	1947			
Monthly	0.0	0.0	1947			

DAY	PRECIPITATION GREATEST		
	INCHES	MM	DATE
1	1.0	25	1947
2	7.1	180	1947
3	1.0	25	1947
4	1.0	25	1947
5	1.0	25	1947
6	1.0	25	1947
7	1.0	25	1947
8	1.0	25	1947
9	0.6	14	1947
10	0.5	13	1947
11	0.0	0	1947
12	1.0	25	1947
13	1.0	25	1947
14	0.0	0	1947
15	1.0	25	1947
16	1.0	25	1947
17	0.0	0	1947
18	0.0	0	1947
19	0.0	0	1947
20	0.0	0	1947
21	0.0	0	1947
22	1.0	25	1947
23	1.0	25	1947
24	0.0	0	1947
25	1.0	25	1947
26	1.0	25	1947
27	0.0	0	1947
28	1.0	25	1947
29	0.0	0	1947
30	0.0	0	1947
31	0.0	0	1947
Monthly	0.0	0	1947

DIRNAVOCEANMET-SMOS

1. ALSO ON EARLIER YEARS
 T TRACE, AN AMOUNT TOO SMALL TO MEASURE
 B LANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

4

NOAA WEATHER SERVICE DETROIT
MICHIGAN

DAILY EXTREME AMOUNTS

(The following table contains extremely faint text, likely representing a data table for weather extremes. The content is illegible due to low contrast and scan quality.)

DIRNAVOCEANMET-SMOS

(Faint text at the bottom center, possibly a footer or disclaimer.)

PART C

SURFACE WINDS

Information on surface wind is tabulated as follows:

- Extreme Values - peak gusts: Derived from hourly observations and presented by individual year and month. The data are listed in feet per second. Speeds are presented in knots, while directions are given in 16 compass points and the remaining 12 points are given in degrees, and in terms of degrees starting in January 1944. When 1/2 hour or more of the hourly observations of peak gust wind data are available for a month, the extreme values are reported. The values are then used to compute mean and standard deviations for the entire period. At the end of a year all valid observations present before the ALL MONTHS value is selected for that year. Mean and standard deviations are computed when four or more values are present for any column. An supplementary list of peak gusts by year-month with 1/2 hour observations reported is also provided.

Wind Direction - Circular Distributions: Peak gust data are reported only at stations with continuous instantaneous wind-speed returns.

- Bivariate 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 1 knot in 16 directions. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In those data where light and variable winds are reported with no directions but with speeds given, the speed will be summarized in the appropriate groups opposite the column headed VARIABLE.

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 month - by standard 3-hour groups
- 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, or 1/2 or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FORM NO. 1 (REV. 11-27-50)

STATION _____ STATION NAME _____ YEARS _____

(MPH 1949-1955)

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
YEAR													
MEAN													
S.D.													
TOTAL DR.													

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION: _____ STATION NAME: _____ YEARS: _____

(MPH 1949-1955)

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

3205

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER BUREAU
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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS ALL LEATHERS
 HOURS 51
 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

4

NAVAL WEATHER SERVICE
 DEPARTMENT
 ADMIRALTY

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTHS _____
 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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NATIONAL WEATHER SERVICE
 METEOROLOGICAL SERVICE
 AND OBSERVATION

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 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

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEAR _____ 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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

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

STATION

STATION NAME

YEARS

MONTH

CLASS

NUMBER OF

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

4

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 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

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEAR _____
 CLASS _____
 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



4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____

CLASS _____

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												
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WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTHS _____
 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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
 WASHINGTON, D. C. 20375
 AFM 7-10.1

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
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ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
 OFFICE OF
 AERONAUTICS

SURFACE WINDS

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	V	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 WASHINGTON, D.C. 20541

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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 - 5	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
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VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NATIONAL WEATHER SERVICE
 WASHINGTON, D. C.
 FORM NO. 1-57

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

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													
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NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
 DETACHMENT
 ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
 1111 1111 1111
 WASHINGTON, D.C.

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

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4

NAVY DEPARTMENT
BUREAU OF METEOROLOGY
WASHINGTON, D.C.

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ 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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NATIONAL WEATHER SERVICE
DEPARTMENT
AGRICULTURE

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEAR _____ 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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY AND MARINE CORPS
 ENGINEERING CENTER
 WASHINGTON, D.C.

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____

CLASS _____

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

4

STATION NAME

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____

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
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

U.S. AIR FORCE
WIND DATA CENTER
WIND DATA CENTER

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

SURFACE WINDS

STATION: STATION NAME: YEAR: CLASS: MONTH: 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

4

SURFACE WINDS

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

STATION

STATION NAME

YEAR

CLASS

CLASS

CLASS

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

SMALL

4

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMCS

4

STATION NAME

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NATIONAL WEATHER SERVICE
DEPARTMENT
OF COMMERCE

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 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

4

NAVY WEATHER SERVICE
ATLANTIC OCEANIC

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
METEOROLOGICAL
OFFICE

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
 1111 1111 1111
 1111 1111 1111

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
 DEPARTMENT
 AIR FORCE

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____ HOURS U.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

4

NATIONAL WEATHER SERVICE
 WASHINGTON, D.C.
 WASHINGTON, D.C.

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 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

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEAR _____

CLASS _____

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

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 LOCATION _____

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-30	34-40	41-47	48-55	25+	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SF												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMO:

4

STATION NAME

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

SURFACE WINDS

STATION _____ STATION NAME _____ ELEV _____
CLASS _____
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 - 63	64 - 70	71 - 77	78 - 84	85 - 91	92 - 99	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

SMOIS

AD A150 382

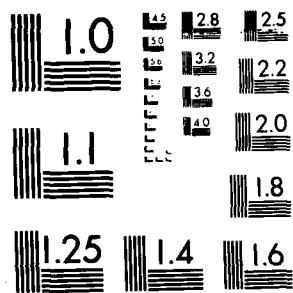
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

24

UNCLASSIFIED

F/G 4/2

NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS U.S.T. _____

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



4

1408442

375

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION ASHEVILLE STATION NAME ASHEVILLE YEARS 1951-1952 MONTH 1

CLASS SEA LEVEL

CONDITION SEA LEVEL

HOURS 15

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	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS 15

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS (L & T) _____

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	1.0	2.0	0.0	1.0								1.0	7.0
NNE	0.0	0.0	0.0	0.0								0.0	7.0
NE	0.0	0.0	0.0	1.0								1.0	6.0
ENE	1.0	0.0	6.0	1.0								1.0	7.0
E	0.0	0.0	4.0	0.0								0.0	7.0
ESE		0.0	1.0	0.0								1.0	7.0
SE			0.0	0.0								0.0	7.0
SSE	0.0	1.0	1.0	1.0								1.0	6.0
S		1.0	0.0	1.0								0.0	7.0
SSW	0.0	1.0	0.0	0.0								0.0	7.0
SW		1.0	1.0	2.0	0.0							0.0	7.0
WSW	0.0	0.0	1.0	0.0								0.0	7.0
W	0.0	1.0	0.0	1.0								0.0	7.0
WNW		0.0	0.0	0.0								0.0	7.0
NW			0.0	0.0								0.0	7.0
NNW			0.0	1.0	0.0							1.0	7.0
VARBL													
CALM													
			4.0	2.0	0.0							1.0	7.0

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: _____ STATION NAME: _____ YEAR: _____ MONTH: _____
 CLASS: _____ HOURS U.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	1.0	1.0	1.0	1.0								4.0	7.0
NNE	1.0	1.0	1.0	1.0								4.0	7.1
NE	1.0	1.0	1.0	1.0								4.0	7.4
ENE	1.0	1.0	1.0	1.0								4.0	7.7
E	1.0	1.0	1.0	1.0								4.0	8.0
ESE	1.0	1.0	1.0	1.0								4.0	8.3
SE	1.0	1.0	1.0	1.0								4.0	8.6
SSE	1.0	1.0	1.0	1.0								4.0	8.9
S	1.0	1.0	1.0	1.0	1.0							4.0	9.2
SSW	1.0	1.0	1.0	1.0	1.0							4.0	9.5
SW	1.0	1.0	1.0	1.0	1.0							4.0	9.8
WSW	1.0	1.0	1.0	1.0	1.0							4.0	10.1
W	1.0	1.0	1.0	1.0	1.0							4.0	10.4
WNW	1.0	1.0	1.0	1.0	1.0							4.0	10.7
NW	1.0	1.0	1.0	1.0	1.0	1.0						4.0	11.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0						4.0	11.3
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS: _____

SMOS

4
1000432

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION: ASHEVILLE, NC STATION NAME: ASHEVILLE, NC YEARS: 1951-1952 MONTH: ALL
 CLASS: ALL WEATHER HOURS: 1-24
 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		.0	.0	1.0								1.0	1.0
NNE	.0	1.0	1.0	.6		.0						2.6	1.0
NE		.0	1.0	.6								1.6	1.0
ENE	1.0	2.0	1.0	.3								4.3	1.0
E	.0	1.0	1.0									2.0	1.0
ESE	.0	1.0	.0									1.0	1.0
SE	.0	1.0	1.0									2.0	1.0
SSE	1.0	.0	2.0	1.0								4.0	1.0
S	1.0	2.0	1.0	2.0								6.0	1.0
SSW	1.0	1.0	.0									2.0	1.0
SW	.0	.0	1.0									1.0	1.0
WSW	1.0	1.0										2.0	1.0
W		.0	.0									.0	1.0
WNW		.0	1.0	.0								1.0	1.0
NW		.0	.0	.0	.0	.0						0.0	1.0
NNW		.0	1.0		.0							1.0	1.0
VARBL													
CALM													
			11.7	7.4								19.1	1.0

TOTAL NUMBER OF OBSERVATIONS 117

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS ALL SEASONS _____ HOURS IN YEAR _____
 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	0	1	0	1	0	0	0	0	0	0	0	3	0
NNE	0	0	1	0	0	0	0	0	0	0	0	2	0
NE	0	1	1	0	0	0	0	0	0	0	0	2	0
ENE	1	1	1	0	0	0	0	0	0	0	0	3	0
E	0	1	1	0	0	0	0	0	0	0	0	2	0
ESE	1	2	1	0	0	0	0	0	0	0	0	5	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	1	2	0	0	0	0	0	0	0	0	3	0
S	0	2	1	1	0	0	0	0	0	0	0	4	0
SSW	1	0	0	0	0	0	0	0	0	0	0	1	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	1	1	0	0	0	0	0	0	0	0	2	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	1	0	0	0	0	0	0	0	0	1	0
NW	0	0	0	1	0	0	0	0	0	0	0	1	0
NNW	0	1	0	0	0	0	0	0	0	0	0	1	0
VARBL													
CALM													
	17.4	20.7	25.0	11.3	1.3							100.0	0

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS ALL WEATHER
 HOURS U.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

4

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 (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
N		0	10	10.7								0	10.0
NNE		0	0	10.7	0							0	10.1
NE		0	0	0	0							0	0
ENE	0	10	10									0	10.0
E	10	10	0									0	10.0
ESE	10	0	0									0	10.0
SE	10	0	0									0	10.0
SSE	0	0	0									0	0
S	0	40	40	10.7								0	10.1
SSW	10	40	20	0.3								0	10.1
SW	10	0	40	10.7								0	10.0
WSW		0	0	0								0	0
W	0	10	0	0								0	10.0
WNW		0	0	0								0	0
NW	0	10	10	0								0	10.0
NNW		0	10	0	0.3							0	10.0
VARBL												0	0
CALM												0	0
	10	0	20	12.7	0							10	0

TOTAL NUMBER OF OBSERVATIONS: _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS LIST _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL													
CALM													
	1.0	2.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ HOURS _____

CLASS _____

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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N		1.											
NNE	.	.	1.	.									
NE	.	.	.	.					
ENE	1.	.	4.	.									
E	1.	.	1.	7.									
ESE	.	.	.	.	7.								
SE	.	.	.	.	.			
SSE	.	.	.	.	.			
S	.	1.	1.	7.									
SSW	.	1.	6.	7.	7.								
SW	.	.	4.	.	.								
WSW	.	.	1.	.	.								
W	.	.	.	1.									
WNW	.	.	.	.								1.	
NW	.	.	.	.								.
NNW	.	.	.	1.								.	
VARBL													
CALM												1.	
												1	

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ARNEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

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	0		10	10								0	10
NNE	0	10	10	10								0	10
NE		10	10	10								0	10
ENE	0	10	10	10								0	10
E	0	10	10	10								0	10
ESE	0	10	10	10								0	10
SE	0	10	10	10								0	10
SSE	0	10	10	10								0	10
S	0	10	10	10								0	10
SSW	0	10	10	10								0	10
SW	0	10	10	10								0	10
WSW		10	10	10								0	10
W		10	10	10								0	10
WNW		10	10	10								0	10
NW		10	10	10								0	10
NNW		10	10	10								0	10
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
 WASHINGTON, D. C. 20375

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMDS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS IN YEAR _____
 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

4

NAVAL WEATHER SERVICE
OF TACHIMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS 11 5 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS OF DAY _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS LIST _____
 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	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

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 _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEAR _____ 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
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
 WASHINGTON, D. C. 20375

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS U.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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
YARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

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

STATION _____ EMISSION NAME _____ YEAR _____
 CLASS _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURLY _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 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													
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W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NO. 101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTHS _____

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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM
	.	1.	4.	1.	1.	1.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS U.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	.	.	1.	1.								
NNE	.	.	1.	1.								
NE	.	.	1.	1.								
ENE	.	1.	1.	1.								
E	.	1.	1.	1.								
ESE	.	1.	1.	1.								
SE	.	1.	1.	1.								
SSE	.	1.	1.	1.								
S	1.	1.	1.	1.								
SSW	.	1.	1.	1.								
SW	.	1.	1.	1.								
WSW	.	1.	1.	1.								
W	.	1.	1.	1.								
WNW	.	1.	1.	1.								
NW	.	1.	1.	1.								
NNW	.	1.	1.	1.								
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N	•	•	•	•	•							•	•
NNE		•	•	•	•							•	•
NE	•	•	•	•	•							•	•
ENE	•	•	•	•	•							•	•
E	•	•	•	•	•							•	•
ESE	•	•	•	•	•							•	•
SE	•	•	•	•	•							•	•
SSE	•	•	•	•	•							•	•
S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W		•	•	•	•							•	•
WNW			•	•	•							•	•
NW			•	•	•							•	•
NNW		•	•	•	•							•	•
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NATIONAL WEATHER SERVICE
OF FAIRMONT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____

ALL WEATHER _____ CLASS _____ NORTH _____

CONDITION _____ HOURS PER YEAR _____

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													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

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 . . . 51
 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

4

NAVY WEATHER SERVICE
DETACHMENT
AT HONOLULU

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 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

4

NAVY WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
 WASHINGTON, D.C.

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 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
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 NAME

STATION

STATION NAME

YEAR

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NO. 101, REVISED 1-65
U.S. DEPARTMENT OF COMMERCE
OFFICE OF MARINE WEATHER SERVICE

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ MONTH _____

CLASS _____ NO. OBS. _____

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVY WEATHER SERVICE
 WASHINGTON, D. C. 20340
 FORM 10-1 (REV. 1-64)

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS LST _____

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													
	100		200	100								100	

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

U.S. DEPARTMENT OF COMMERCE
BUREAU OF MARINE SERVICE
WASHINGTON, D. C.

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

SURFACE WINDS

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
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS, U.S.T. _____

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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS U.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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 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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NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
 WASHINGTON, D. C.
 FORM 12-58 (REV. 1-59)

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY DEPARTMENT
BUREAU OF METEOROLOGY
WASHINGTON, D. C.

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 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
N													
NNE													
NE													
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SE													
SSE													
S													
SSW													
SW													
WSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

STATION NAME

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 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													
S													
SSW													
SW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

U.S. DEPARTMENT OF COMMERCE
BUREAU OF MARINE SERVICE
WASHINGTON, D.C.

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 CODE FOR _____

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

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 LOCATION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	5	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

SMDS

4

NAVY WEATHER SERVICE
 WIND REPORT

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ 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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
AGRICULTURAL

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NATIONAL WEATHER SERVICE
DEPARTMENT OF COMMERCE
ASHEVILLE, NC

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

SURFACE WINDS

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
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS U.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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ NUMBER OF 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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

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

4

NAVY DEPARTMENT
OFFICE OF THE
ADJUTANT GENERAL

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

SURFACE WINDS

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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NATIONAL WEATHER SERVICE
DEPARTMENT
ASHEVILLE, NC

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

SURFACE WINDS

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
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVY WEATHER SERVICE
 1410 TRIMBLE ST
 WASHINGTON, DC

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER
OFFICE
ATLANTA, GA

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS U.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

4

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____ HOURS _____
 LONG. FOR _____

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

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ CLASS _____
 _____ CONDITION _____

SPEED (KNTS)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	64-71	72-80	81-90	91-100	WINDY
DIR																NO. OF
N																
NNE																
NE																
ENE																
E																
ESE																
SF																
SSE																
S																
SSW																
SW																
WSW																
W																
WNW																
NW																
NNW																
VARBL																
CALM																

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEAR _____

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

SURFACE WINDS

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
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
 1310 100TH ST
 ASHLEY, ALASKA

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____ MONTH _____
 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

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHTABULG, NC

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

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

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

1000 Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This chart is a bivariate percentage frequency distribution of ceiling frequency at or greater than 20,000 feet and as a separate class "no ceiling", versus visibility at or greater than zero, to equal to or greater than 10 miles. Data are derived from hourly observations, and frequency tables are presented as follows:

1. Annual - all years and all hours combined
2. All Months - all years and all hours combined
3. All Months - by standard 3-hour groups

Due to the qualitative nature of this presentation, it is possible to enter the percentage frequency data for any one given limit of ceiling or visibility separately, or for any combination of ceiling and visibility, in a total program. In the first column, ceiling may be determined independently, referring to totals in the extreme right-hand column. Visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. In operation, the user may find the station was ceiling or no ceiling, and then select the appropriate visibility. The total at the intersection of the appropriate ceiling and visibility rows represents the percentage of time that the conditions are as shown on page 2 and 3 below.

Beginning in July 1965 for Asheville, the station was equipped with a ceilometer, and the "no ceiling" category consists of observations with less than 100 feet of ceiling. In those cases where total ceiling was 100 feet or more, but not more than 1000 feet, the ceiling was reported as 1000 feet.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
1800															
1500					91.0										92.6
1200															
1000															
800															
700															
600															
500									97.4						98.1
400															
300															
200															
100															
0					95.4		96.9			98.3					100.0

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

This summary is prepared from monthly observations and is a general summary of the total sky cover and total number of observations. It is presented in the table as follows:

1. Months and annual totals for all years contained.

2. Months and total number of observations.

Note: 1. Sky cover at all clear and sky was not reported at the weather station until 1948. All observations were made for Air Force Station beginning in 1948, but were not available for all stations until 1948 or 1949. Weather Bureau stations reported total sky cover until the time of closing service in 1948, but few stations have any data prior to 1948. This summary will, therefore, be limited to years of available data.

Note: 2. Sky cover is given in tenths of the sky. Some reports of sky cover are given in tenths converted to tenths of the sky, and a few reports are given in tenths of the sky. All data were minimal, reported in tenths, and some of the data are not included.

SKYAS	STATION
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
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62	62
63	63
64	64
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66	66
67	67
68	68
69	69
70	70
71	71
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73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Note: 3. Beginning in 1951, the amount of clear, scattered, broken, overcast, and obscured sky cover was input for the total sky cover. Following are the conversion:

Clear converted to 0.10
Scattered converted to 0.10
Broken converted to 0.10
Overcast converted to 0.10
Obscured converted to 0.10

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ 0
NO CEILING													
≥ 20000													
IV IV 18000													
IV IV 16000													
IV IV 14000													
IV IV 12000													
IV IV 10000													
IV IV 9000													
IV IV 8000													
IV IV 7000													
IV IV 6000													
IV IV 5000													
IV IV 4500													
IV IV 4000													
IV IV 3500													
IV IV 3000													
IV IV 2500													
IV IV 2000													
IV IV 1800													
IV IV 1500													
IV IV 1200													
IV IV 1000													
IV IV 900													
IV IV 800													
IV IV 700													
IV IV 600													
IV IV 500													
IV IV 400													
IV IV 300													
IV IV 200													
IV IV 100													
IV IV 0													

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOC/AVMET STATION

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ 0
NO CEILING														
IV 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
IV 9000														
IV 8000														
IV 7000														
IV 6000														
IV 5000														
IV 4500														
IV 4000														
IV 3500														
IV 3000														
IV 2500														
IV 2000														
IV 1800														
IV 1500														
IV 1200														
IV 1000														
IV 900														
IV 800														
IV 700														
IV 600														
IV 500														
IV 400														
IV 300														
IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

NO. OF HOURS

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE - [Station Name]

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7500													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

DATE

TIME

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05
NO. CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 8000													
≥ 6000													
≥ 4000													
≥ 3000													
≥ 2000													
≥ 1500													
≥ 1000													
≥ 700													
≥ 500													
≥ 300													
≥ 200													
≥ 100													
≥ 0													

TOTAL NO. HOURS OF OBSERVATION

CEILING VERSUS

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ 0	
NO CEILING												
≥ 2000												
≥ 1800												
≥ 1600												
≥ 1400												
≥ 1200												
≥ 1000												
≥ 900												
≥ 800												
≥ 700												
≥ 600												
≥ 500												
≥ 450												
≥ 400												
≥ 350												
≥ 300												
≥ 250												
≥ 200												
≥ 150												
≥ 100												
≥ 50												
≥ 0												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
≥ 3000														
≥ 2500														
≥ 2000														
≥ 1800														
≥ 1500														
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TABLE 1-1

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ½	≥ ½	≥ ½	≥ ½
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

NO. 1 WEATHER DATA TABLE A-10 (REV. 1-6-64)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
IV IV 18000													
IV IV 16000													
IV IV 14000													
IV IV 12000													
IV IV 10000													
IV IV 9000													
IV IV 8000													
IV IV 7000													
IV IV 6000													
IV IV 5000													
IV IV 4500													
IV IV 4000													
IV IV 3500													
IV IV 3000													
IV IV 2500													
IV IV 2000													
IV IV 1800													
IV IV 1500													
IV IV 1200													
IV IV 1000													
IV IV 900													
IV IV 800													
IV IV 700													
IV IV 600													
IV IV 500													
IV IV 400													
IV IV 300													
IV IV 200													
IV IV 100													
IV IV 0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TO ALL NUMBER OF OBSERVATIONS

HOW TO USE THIS TABLE

NATIONAL WEATHER SERVICE DETROIT MI 48201

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING													
IV 20000													
IV 18000													
IV 16000													
IV 14000													
IV 12000													
IV 10000													
IV 9000													
IV 8000													
IV 7000													
IV 6000													
IV 5000													
IV 4500													
IV 4000													
IV 3500													
IV 3000													
IV 2500													
IV 2000													
IV 1800													
IV 1500													
IV 1200													
IV 1000													
IV 900													
IV 800													
IV 700													
IV 600													
IV 500													
IV 400													
IV 300													
IV 200													
IV 100													
IV 0													

TOTAL NUMBER OF OBSERVATIONS

WIND DIRECTION

MAJOR WEATHER SERVICE CENTER

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. 10-10-57

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
IV 5000															
IV 4500															
IV 4000															
IV 3500															
IV 3000															
IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 450															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

UNCLASSIFIED

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE - WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 55-157

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .16	≥ .1
NO CEILING													
IV 20000													
IV 18000													
IV 16000													
IV 14000													
IV 12000													
IV 10000													
IV 9000													
IV 8000													
IV 7000													
IV 6000													
IV 5000													
IV 4500													
IV 4000													
IV 3500													
IV 3000													
IV 2500													
IV 2000													
IV 1800													
IV 1500													
IV 1200													
IV 1000													
IV 900													
IV 800													
IV 700													
IV 600													
IV 500													
IV 400													
IV 300													
IV 200													
IV 100													
IV 0													

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-61 (REV. 1-61)

CEILING VERSUS VISIBILITY

STATION: _____ STATION NAME: _____ YEARS: _____ MONTH: _____
DATE: _____
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ 0.7	≥ 0.5	≥ 0.3	≤ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NO. 45 (REV. 1-5-7)

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 45 (REV. 1-5-7)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
6000															
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1800															
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1000															
900															
800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

NO. 45 (REV. 1-5-7)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .5	≥ .5
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1250													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION: _____ STATION NAME: _____ YEARS: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	0
NO CEILING													
> 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS: _____

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1800													
≥ 1600													
≥ 1400													
≥ 1200													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
≥ 0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	> 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
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900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

AD A150 382

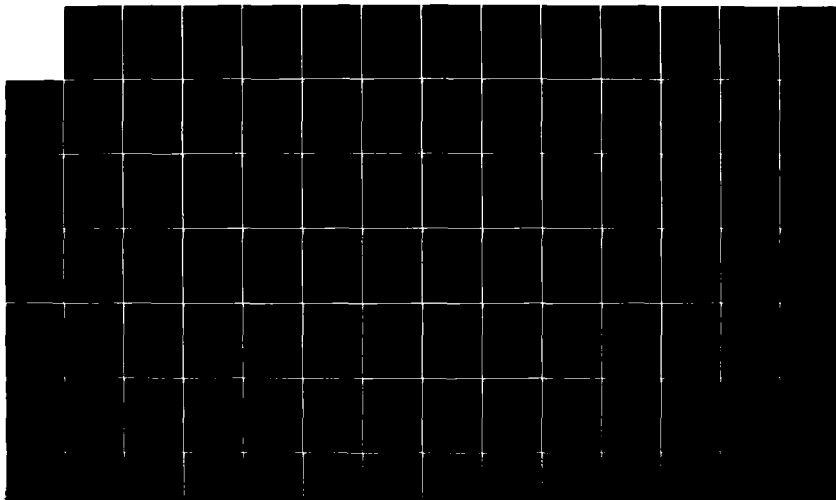
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

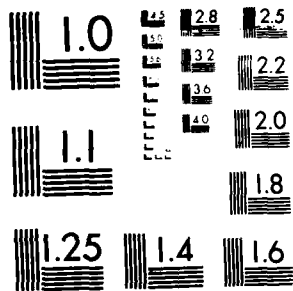
314

UNCLASSIFIED

F/G 4/2

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

4

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
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≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

U.S. NAVAL WEATHER SERVICE

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - LST

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

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-16	≥ 0
NO CEILING														
≥ 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
IV 9000														
IV 8000														
IV 7000														
IV 6000														
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IV 1000														
IV 900														
IV 800														
IV 700														
IV 600														
IV 500														
IV 400														
IV 300														
IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
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IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
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900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING																
IV IV 20000																
IV IV 18000																
IV IV 16000																
IV IV 14000																
IV IV 12000																
IV IV 10000																
IV IV 9000																
IV IV 8000																
IV IV 7000																
IV IV 6000																
IV IV 5000																
IV IV 4500																
IV IV 4000																
IV IV 3500																
IV IV 3000																
IV IV 2500																
IV IV 2000																
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IV IV 800																
IV IV 700																
IV IV 600																
IV IV 500																
IV IV 400																
IV IV 300																
IV IV 200																
IV IV 100																
IV IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LL ST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
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1000																
900																
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700																
600																
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200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVUCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS IN YEAR _____

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5-16	≥ ¼	≥ 0	
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 900																
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IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ARLINGHAM, NC

CEILING VERSUS VISIBILITY

STATION NAME

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS OF DAY

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

TOTAL NUMBER OF OBSERVATIONS

ORNAVCEANDET 5MJS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

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

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT AHBLE 1101

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MOUTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 1101

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
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IV 1200															
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IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

FORM NAVCEANMET 10-55

NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH, VA.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 11-57

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
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IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

UNCLASSIFIED

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
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≥ 900															
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≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON

NATIONAL WEATHER SERVICE DETACHMENT WAREVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING														
≥ 20000														
IV IV 18000														
IV IV 16000														
IV IV 14000														
IV IV 12000														
IV IV 10000														
IV IV 9000														
IV IV 8000														
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IV IV 400														
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IV IV 100														
IV IV 0														

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-67 (REV. 1-68)

NAVAL WEATHER SERVICE DETACHMENT, ASHLEY FIELD, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING
≥ 20000
18000
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14000
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8000
7000
6000
5000
4500
4000
3500
3000
2500
2000
1800
1500
1200
1000
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700
600
500
400
300
200
100
0

TOTAL NUMBER OF OBSERVATIONS

DD FORM 1315 (REV. 5-61) 1-58

NAVY WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT

4

NAVAL WEATHER SERVICE DETACHMENT, APO HEVIER, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5-16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

OPNAVOPCLANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

4

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

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

TOTAL NUMBER OF OBSERVATIONS

WPNV OCEAN MET SMOS

4

NAVAL WEATHER SERVICE DETAIL, ST. ANNEVILLE, MD.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS L & T

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ½	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
20000																
18000																
16000																
14000																
12000																
10000																
9000																
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100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV IV 18000																
IV IV 16000																
IV IV 14000																
IV IV 12000																
IV IV 10000																
IV IV 9000																
IV IV 8000																
IV IV 7000																
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IV IV 1200																
IV IV 1000																
IV IV 900																
IV IV 800																
IV IV 700																
IV IV 600																
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IV IV 400																
IV IV 300																
IV IV 200																
IV IV 100																
IV IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SM-35

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
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≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVLEA:IMFT 5805

NO. OF STATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING
≥ 20000
18000
16000
14000
12000
10000
9000
8000
7000
6000
5000
4500
4000
3500
3000
2500
2000
1800
1500
1200
1000
900
800
700
600
500
400
300
200
100
0

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-1-57

NAVAL WEATHER SERVICE DETACHMENT ARLVILLI, IN

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 200																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NAVICEANMET 1-57 (25)

NAVAL WEATHER SERVICE STATION REPORT FORM NO. 1

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING
≥ 20000
≥ 18000
≥ 16000
≥ 14000
≥ 12000
≥ 10000
≥ 9000
≥ 8000
≥ 7000
≥ 6000
≥ 5000
≥ 4500
≥ 4000
≥ 3500
≥ 3000
≥ 2500
≥ 2000
≥ 1800
≥ 1500
≥ 1200
≥ 1000
≥ 900
≥ 800
≥ 700
≥ 600
≥ 500
≥ 400
≥ 300
≥ 200
≥ 100
≥ 0

TOTAL NUMBER OF OBSERVATIONS

NO. OF HOURS

CEILING VERSUS VISIBILITY

U.S. AIR FORCE AIRCRAFT ENGINEERING CENTER

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FORM 1-57

CEILING FEET	VISIBILITY, STATUTE MILES:													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING														
≥ 20000														
IV IV 18000														
IV IV 16000														
IV IV 14000														
IV IV 12000														
IV IV 10000														
IV IV 9000														
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IV IV 800														
IV IV 700														
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IV IV 500														
IV IV 400														
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IV IV 200														
IV IV 100														
IV IV 0														

TOTAL NUMBER OF OBSERVATIONS

APPROVED FOR RELEASE BY NSA/CSS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
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≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
IV 18000													
IV 16000													
IV 14000													
IV 12000													
IV 10000													
IV 9000													
IV 8000													
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IV 700													
IV 600													
IV 500													
IV 400													
IV 300													
IV 200													
IV 100													
IV 0													

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE DEPARTMENT OF AGRICULTURE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
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TOTAL NUMBER OF OBSERVATIONS

ORIGINAL REPORT

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON

4

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
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300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL WEATHER SERVICE WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NUMBER

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/16	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
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IV 1200																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-57 (REV. 1-58)

CEILING VERSUS VISIBILITY

STATION: _____ STATION NAME: _____ YEARS: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES:											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ 0
NO CEILING												
≥ 20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
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500												
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300												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS

HOW MANY FEET

NAVAL WEATHER SERVICE DETACHMENT, ANNEVILLE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

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

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET SMUS

4

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 11 57

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

TOTAL NUMBER OF OBSERVATIONS

INPNVUCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
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1000															
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800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
IV IV 18000														
IV IV 16000														
IV IV 14000														
IV IV 12000														
IV IV 10000														
IV IV 9000														
IV IV 8000														
IV IV 7000														
IV IV 6000														
IV IV 5000														
IV IV 4500														
IV IV 4000														
IV IV 3500														
IV IV 3000														
IV IV 2500														
IV IV 2000														
IV IV 1800														
IV IV 1500														
IV IV 1200														
IV IV 1000														
IV IV 900														
IV IV 800														
IV IV 700														
IV IV 600														
IV IV 500														
IV IV 400														
IV IV 300														
IV IV 200														
IV IV 100														
IV IV 0														

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET WWS

NATIONAL WEATHER SERVICE WASHINGTON, D.C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
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IV 1200															
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IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1 (REV. 11-1-55)

NATIONAL WEATHER SERVICE - STATION NAME -

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 3000															
IV 7000															
IV 6000															
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IV 4500															
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IV 3500															
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IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RECORD

NATIONAL WEATHER SERVICE DEPARTMENT OF COMMERCE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WINDS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
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IV 2500																
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IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

STATION NUMBER

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ 0
NO CEILING											
IV 20000											
IV 18000											
IV 16000											
IV 14000											
IV 12000											
IV 10000											
IV 9000											
IV 8000											
IV 7000											
IV 6000											
IV 5000											
IV 4500											
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IV 3500											
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IV 1200											
IV 1000											
IV 900											
IV 800											
IV 700											
IV 600											
IV 500											
IV 400											
IV 300											
IV 200											
IV 100											
IV 0											

TOTAL NUMBER OF OBSERVATIONS

FORM 1-64 (REV. 1-63)

CEILING VERSUS VISIBILITY

NAME OF STATION: _____

STATION:

STATION NAME:

YEARS:

MONTH:

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

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

TOTAL NUMBER OF OBSERVATIONS

NO. OF OBS.

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
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IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

STATION NAME _____

NATIONAL WEATHER SERVICE DEPARTMENT OF COMMERCE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ .	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
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IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

SPRINGVILLE ANMET 5505

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ 5/16	≥ 0	≥ 0
NO CEILING
≥ 20000
IV 18000
IV 16000
IV 14000
IV 12000
IV 10000
IV 9000
IV 8000
IV 7000
IV 6000
IV 5000
IV 4500
IV 4000
IV 3500
IV 3000
IV 2500
IV 2000
IV 1800
IV 1500
IV 1200
IV 1000
IV 900
IV 800
IV 700
IV 600
IV 500
IV 400
IV 300
IV 200
IV 100
IV 0

TOTAL NUMBER OF OBSERVATIONS

APPROXIMATE METERS

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON, D.C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

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

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-57 (REV. 1-57)

NAVY WEATHER SERVICE DETACHMENT ASHVELECT, VA

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING
≥ 20000
18000
16000
14000
12000
10000
9000
8000
7000
6000
5000
4500
4000
3500
3000
2500
2000
1800
1500
1200
1000
900
800
700
600
500
400
300
200
100
0

TOTAL NUMBER OF OBSERVATIONS

DD FORM 1300 JAN 61

NAVY WEATHER SERVICE DETACHMENT, WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS U.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8500																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

WASHINGTON DET. 0005

NAVAL WEATHER SERVICE DETACHMENT WAREHOUSES

CEILING VERSUS VISIBILITY

STATION: _____ STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING
≥ 20000
IV IV 18000
IV IV 16000
IV IV 14000
IV IV 12000
IV IV 10000
IV IV 9000
IV IV 8000
IV IV 7000
IV IV 6000
IV IV 5000
IV IV 4500
IV IV 4000
IV IV 3500
IV IV 3000
IV IV 2500
IV IV 2000
IV IV 1800
IV IV 1500
IV IV 1200
IV IV 1000
IV IV 900
IV IV 800
IV IV 700
IV IV 600
IV IV 500
IV IV 400
IV IV 300
IV IV 200
IV IV 100
IV IV 0

TOTAL NUMBER OF OBSERVATIONS _____

APPROVAL: _____

CEILING VERSUS VISIBILITY

STA. NO.

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING													
≥ 20000													
IVM 18000													
IVM 16000													
IVM 14000													
IVM 12000													
IVM 10000													
IVM 9000													
IVM 8000													
IVM 7000													
IVM 6000													
IVM 5000													
IVM 4500													
IVM 4000													
IVM 3500													
IVM 3000													
IVM 2500													
IVM 2000													
IVM 1800													
IVM 1500													
IVM 1200													
IVM 1000													
IVM 900													
IVM 800													
IVM 700													
IVM 600													
IVM 500													
IVM 400													
IVM 300													
IVM 200													
IVM 100													
IVM 0													

TOTAL NUMBER OF OBSERVATIONS

GRAPHIC/CEANMET 5205

NAVAL WEATHER SERVICE ATTACHMENT A, HELIX 1-76

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WINDS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1.4	≥ 1	≥ .4	≥ .4	≥ .3	≥ .5 16	≥ .	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-76 (REV. 1-76)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
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1800													
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800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	0
NO CEILING													
> 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
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0													

TOTAL NUMBER OF OBSERVATIONS

STATION

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1
NO CEILING													
20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
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500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

STATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	0
NO CEILING													
≥ 20000													
IV 18000													
IV 16000													
IV 14000													
IV 12000													
IV 10000													
IV 9000													
IV 8000													
IV 7000													
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IV 800													
IV 700													
IV 600													
IV 500													
IV 400													
IV 300													
IV 200													
IV 100													
IV 0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
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100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION: _____ STATION NAME: _____ YEARS: _____ MONTH: _____
 HOURS: _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES:												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
IV 20000													
IV 18000													
IV 16000													
IV 14000													
IV 12000													
IV 10000													
IV 9000													
IV 8000													
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IV 800													
IV 700													
IV 600													
IV 500													
IV 400													
IV 300													
IV 200													
IV 100													
IV 0													

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 11-57

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

TOTAL NUMBER OF OBSERVATIONS

UNITED STATES DEPARTMENT OF COMMERCE

ARMY WEATHER SERVICE DEPARTMENT OF THE ARMY

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
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≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

FORMAL RELEASED BY

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

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

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE DEPARTMENT OF COMMERCE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-61 (REV. 1-61)

NAVAL WEATHER SERVICE DETACHMENT, ANNEVILLE, TN

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 65-1.1

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
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TOTAL NUMBER OF OBSERVATIONS

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CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

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

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE WASHINGTON, D. C.

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OBS.

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ 0	≥ 0
NO CEILING														
IV 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
IV 9000														
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IV 600														
IV 500														
IV 400														
IV 300														
IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

FORM 10-60 (REV. 1-61)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
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TOTAL NUMBER OF OBSERVATIONS

REMARKS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 11-1-57

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

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
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≥ 4500													
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≥ 3500													
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≥ 2500													
≥ 2000													
≥ 1800													
≥ 1500													
≥ 1200													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
≥ 0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
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200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
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≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE WASHINGTON, D. C. 20375

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
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IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ 0
NO CEILING											
IV 20000											
IV 18000											
IV 16000											
IV 14000											
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IV 10000											
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IV 500											
IV 400											
IV 300											
IV 200											
IV 100											
IV 0											

TOTAL NUMBER OF OBSERVATIONS _____

WIND WEATHER AND VISIBILITY STATEMENT WITH RECORDING

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. BY U.S.A.

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RELEASE - 1965

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
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100														
0														

TOTAL NUMBER OF OBSERVATIONS

NAVY WEATHER SERVICE DETACHMENT AT HENRIETTA, ALA.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HRS.

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
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400													
300													
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100													
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
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≥ 700															
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≥ 500															
≥ 400															
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≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DATE PREPARED

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OBS.

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
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IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIRECTOR, NATIONAL WEATHER SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
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400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAME WEATHER STATION NUMBER

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING													
IV 20000													
IV 18000													
IV 16000													
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IV 300													
IV 200													
IV 100													
IV 0													

TOTAL NUMBER OF OBSERVATIONS

DATE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

STATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
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200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ 0
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1500													
≥ 1000													
≥ 750													
≥ 500													
≥ 250													
≥ 100													
≥ 0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NUMBER

STATION

STATION NAME

YEARS

STATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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0																

TOTAL NUMBER OF OBSERVATIONS

STATION NUMBER

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VIS

STATION

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ 0
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 8000													
≥ 7000													
≥ 6000													
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≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
≥ 0													

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NO.

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	0
NO CEILING														
IV 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
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IV 700														
IV 600														
IV 500														
IV 400														
IV 300														
IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

WINDS

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

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
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≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE WASHINGTON, D. C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING
≥ 20000
18000
16000
14000
12000
10000
9000
8000
7000
6000
5000
4500
4000
3500
3000
2500
2000
1800
1500
1200
1000
900
800
700
600
500
400
300
200
100
0

TOTAL NUMBER OF OBSERVATIONS

NO. OF HOURS

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 55-1537

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
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IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV ?															

TOTAL NUMBER OF OBSERVATIONS

NO. 100 WEATHER RECORD FOR METEOROLOGICAL STATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 100-1-57

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING
≥ 20000
18000
16000
14000
12000
10000
9000
8000
7000
6000
5000
4500
4000
3500
3000
2500
2000
1800
1500
1200
1000
900
800
700
600
500
400
300
200
100
0

TOTAL NUMBER OF OBSERVATIONS

CONTINUED CLEARLY

AD A150 382

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

44

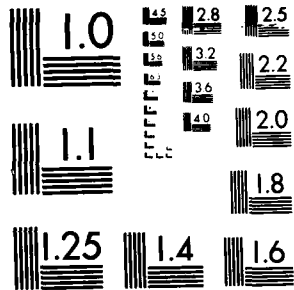
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

SKY COVER

1976 NANTUCKET, MASSACHUSETTS 7-1-76 1976

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	
	01	37.1			19.7							16.5	24.5	5.7	11
	2	37.1			25.0							17.0	24.2	5.4	11
	3	21.0			21.6							19.7	27.7	5.5	11
	4	27.0			27.3							21.6	29.1	5.7	11
	5	1.7			20.0							23.5	27.0	5.7	11
	6	17.0			20.4							27.4	25.0	5.3	11
	7	27.5			27.7							18.7	26.0	5.7	11
	8	34.5			24.9							14.7	26.5	5.7	11
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
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	21														
	22														
	23														
	24														
	25														
	26														
	27														
	28														
	29														
	30														
	31														
	TOTALS	27.7			27.0							17.0	26.6	5.7	240

NAVWEASERVCOM

SKY COVER

1957 NORFOLK, VIRGINIA STATION NAME

03-31 PERIOD

MARCH 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	34.8			15.6						11.7	37.4	5.3	110
	4	3.1			1.5						21.7	15.5	4.2	110
	7	21.7			27.4						17.1	15.2	5.9	110
	10	2.0			11.0						19.7	47.7	5.3	110
	13	21.7			17.4						15.4	41.1	5.7	110
	16	22.7			15.4						14.7	19.7	5.2	110
	19	21.4			22.1						17.0	34.2	5.5	110
	22	33.4			17.4						17.4	37.0	5.3	110
	25													
	28													
	31													
TOTALS					12.1						14.0	34.1	5.7	2479

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
	JAN	21.1			17.7						13.9	42.4	6.1	2478
	FEB	21.7			21.1						14.7	37.4	6.6	2094
	MAR	21.1			21.4						16.2	42.7	6.7	2411
	APR	17.4			23.4						17.7	31.1	7.5	2417
	MAY	11.1			27.1						11.7	35.4	6.7	2411
	JUN	11.7			27.1						25.6	20.7	6.1	2478
	JUL	11.1			11.1						25.6	14.9	6.7	2411
	AUG	11.1			30.7						21.4	11.7	6.5	2411
	SEP	21.1			25.1						23.7	24.9	6.5	2411
	OCT	21.7			27.4						17.4	25.1	6.2	2411
	NOV	21.1			23.1						17.1	31.1	6.7	2199
	DEC	21.1			17.1						14.9	18.1	7.7	2478
TOTALS		21.1			24.4						19.8	32.0	6.7	29319

NOCD, Federal Building
Asheville, N. C.

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:
- Dry-bulb temperature
 - Wet-bulb temperature
 - 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.
- Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
 - 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. Percentage 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 eight wind directions (plus calm).

DAILY TEMPERATURES

STATION _____ STATION NAME _____ YEARS _____

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
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96													
97													
98													
99													
100													
MEAN													
S D													
TOTAL OBS													

NAVWEASERVCOM

DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
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TOTAL OBS													

NAVWEASERVCOM

4

DAILY TEMPERATURES

STATION NAVWEASERVCOM STATION NAME NAVWEASERVCOM YEARS 1954-1955

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10						0.4							0.4
11					0.2	2.7	14.3	11.7	1.7				1.0
12				0.1	4.5	7.4	52.8	45.6	10.7				71.0
13				0.2	17.6	56.8	85.2	82.4	45.3	4.7			71.0
14		0.3	1.7	12.1	41.3	66.6	83.9	97.9	70.0	1.0	0.2		71.0
15		1.0	4.5	15.2	49.0	84.4	89.7	89.8	73.0	43.9	7.9	1.7	71.0
16		1.0	4.5	15.2	49.0	84.4	89.7	89.8	73.0	43.9	7.9	1.7	71.0
17	1.0	10.0	27.2	67.1	97.0	100.0			89.8	80.0	47.4	16.5	71.0
18	21.1	23.2	44.3	82.0	89.3				100.0	87.1	60.0	28.1	71.0
19	7.1	29.6	64.8	87.7	100.0					88.4	64.9	47.3	71.0
20	22.6	29.1	87.7	89.5						100.0	85.4	77.3	71.0
21	11.1	41.3	85.3	100.0							89.1	80.8	71.0
22	10.1	22.8	89.5								80.7	80.8	71.0
23	7.5	26.8	89.5								100.0	89.2	71.0
24	6.5	29.7	100.0									100.0	71.0
25	19.0	100.0											71.0
26	1.0												71.0
27													71.0
28													71.0
29													71.0
30													71.0
31													71.0
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95													71.0
96													71.0
97													71.0
98													71.0
99													71.0
100													71.0
MEAN	41.0	44.0	47.4	50.0	57.6	70.4	79.5	79.0	77.7	80.0	83.4	88.5	80.7
S D	0.00	0.10	0.10	0.10	0.17	0.28	0.46	0.66	0.50	0.47	0.36	0.10	0.00
TOTAL OBS	1	1	1	1	1	1	1	1	1	1	1	1	1

NAVWEASERVCOM

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION NO. STATION NAME YEARS

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP		DATE
	F	C	AVERAGE		EXTREME			F	C	
			F	C	F	C		F	C	
1										
2										
3										
4										
5										
6										
7										
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26										
27							7			
28										
29										
30							7			
31										
Monthly										

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION NUMBER: 45-10 STATION NAME: YEARS: MONTH:

DAY	YEAR TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP		DATE
	F	C	AVERAGE		EXTREME			AVERAGE			EXTREME
	F	C	F	C	F	C		F	C	
1	48	9	48	9	7	22	1-7	38	3	1-7
2	48	9	48	9	7	22	1-8	38	3	1-8
3	48	9	48	9	7	22	1-9	38	3	1-9
4	48	9	48	9	7	22	1-10	38	3	1-10
5	48	9	48	9	7	22	1-11	38	3	1-11
6	48	9	48	9	7	22	1-12	38	3	1-12
7	48	9	48	9	7	22	1-13	38	3	1-13
8	48	9	48	9	7	22	1-14	38	3	1-14
9	48	9	48	9	7	22	1-15	38	3	1-15
10	48	9	48	9	7	22	1-16	38	3	1-16
11	48	9	48	9	7	22	1-17	38	3	1-17
12	48	9	48	9	7	22	1-18	38	3	1-18
13	48	9	48	9	7	22	1-19	38	3	1-19
14	48	9	48	9	7	22	1-20	38	3	1-20
15	48	9	48	9	7	22	1-21	38	3	1-21
16	48	9	48	9	7	22	1-22	38	3	1-22
17	48	9	48	9	7	22	1-23	38	3	1-23
18	48	9	48	9	7	22	1-24	38	3	1-24
19	48	9	48	9	7	22	1-25	38	3	1-25
20	48	9	48	9	7	22	1-26	38	3	1-26
21	48	9	48	9	7	22	1-27	38	3	1-27
22	48	9	48	9	7	22	1-28	38	3	1-28
23	48	9	48	9	7	22	1-29	38	3	1-29
24	48	9	48	9	7	22	1-30	38	3	1-30
25	48	9	48	9	7	22	1-31	38	3	1-31
26	48	9	48	9	7	22	1-32	38	3	1-32
27	48	9	48	9	7	22	1-33	38	3	1-33
28	48	9	48	9	7	22	1-34	38	3	1-34
29	48	9	48	9	7	22	1-35	38	3	1-35
30	48	9	48	9	7	22	1-36	38	3	1-36
31	48	9	48	9	7	22	1-37	38	3	1-37
Monthly	48	9	48	9	7	22		38	3	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				MINIMUM TEMP					
	F	C	AVERAGE	EXTREME	EXTREME	DATE	AVERAGE	EXTREME	EXTREME	DATE		
			F	C	F	C		F	C	F	C	
1			62.2	16.8	77	25.5	1-7-74	42.2	5.6	26	-2.2	1-7-74
2			62.2	16.8	77	25.5	1-8-74	42.2	5.6	26	-2.2	1-8-74
3			62.2	16.8	77	25.5	1-9-74	42.2	5.6	26	-2.2	1-9-74
4			62.2	16.8	77	25.5	1-10-74	42.2	5.6	26	-2.2	1-10-74
5			62.2	16.8	77	25.5	1-11-74	42.2	5.6	26	-2.2	1-11-74
6			62.2	16.8	77	25.5	1-12-74	42.2	5.6	26	-2.2	1-12-74
7			62.2	16.8	77	25.5	1-13-74	42.2	5.6	26	-2.2	1-13-74
8			62.2	16.8	77	25.5	1-14-74	42.2	5.6	26	-2.2	1-14-74
9			62.2	16.8	77	25.5	1-15-74	42.2	5.6	26	-2.2	1-15-74
10			62.2	16.8	77	25.5	1-16-74	42.2	5.6	26	-2.2	1-16-74
11			62.2	16.8	77	25.5	1-17-74	42.2	5.6	26	-2.2	1-17-74
12			62.2	16.8	77	25.5	1-18-74	42.2	5.6	26	-2.2	1-18-74
13			62.2	16.8	77	25.5	1-19-74	42.2	5.6	26	-2.2	1-19-74
14			62.2	16.8	77	25.5	1-20-74	42.2	5.6	26	-2.2	1-20-74
15			62.2	16.8	77	25.5	1-21-74	42.2	5.6	26	-2.2	1-21-74
16			62.2	16.8	77	25.5	1-22-74	42.2	5.6	26	-2.2	1-22-74
17			62.2	16.8	77	25.5	1-23-74	42.2	5.6	26	-2.2	1-23-74
18			62.2	16.8	77	25.5	1-24-74	42.2	5.6	26	-2.2	1-24-74
19			62.2	16.8	77	25.5	1-25-74	42.2	5.6	26	-2.2	1-25-74
20			62.2	16.8	77	25.5	1-26-74	42.2	5.6	26	-2.2	1-26-74
21			62.2	16.8	77	25.5	1-27-74	42.2	5.6	26	-2.2	1-27-74
22			62.2	16.8	77	25.5	1-28-74	42.2	5.6	26	-2.2	1-28-74
23			62.2	16.8	77	25.5	1-29-74	42.2	5.6	26	-2.2	1-29-74
24			62.2	16.8	77	25.5	1-30-74	42.2	5.6	26	-2.2	1-30-74
25			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
26			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
27			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
28			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
29			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
30			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
31			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74
Monthly			62.2	16.8	77	25.5	1-31-74	42.2	5.6	26	-2.2	1-31-74

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION: 48701 STATION NAME: ASHEVILLE WEATHER YEARS: 1957 MONTH: 7

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME		
	F	C	F	C	F	C	F	C	F	C	
1	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
2	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
3	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
4	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
5	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
6	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
7	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
8	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
9	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
10	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
11	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
12	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
13	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
14	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
15	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
16	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
17	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
18	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
19	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
20	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
21	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
22	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
23	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
24	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
25	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
26	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
27	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
28	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
29	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
30	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
31	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8
Monthly	62.0	16.7	62.0	16.7	87	31.1	2.8	-0.1	-17.2	1.0	17.8

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION: STATION NAME YEARS MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP AVERAGE EXTREME				DATE	MINIMUM TEMP AVERAGE EXTREME		DATE
	F	C	F	C	F	C		F	C	
1	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/1	
2	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/2	
3	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/3	
4	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/4	
5	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/5	
6	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/6	
7	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/7	
8	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/8	
9	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/9	
10	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/10	
11	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/11	
12	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/12	
13	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/13	
14	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/14	
15	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/15	
16	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/16	
17	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/17	
18	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/18	
19	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/19	
20	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/20	
21	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/21	
22	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/22	
23	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/23	
24	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/24	
25	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/25	
26	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/26	
27	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/27	
28	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/28	
29	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/29	
30	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/30	
31	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0	1/31	
Monthly	77.0	25.6	77.0	25.6	82.0	28.9	68.0	20.0		

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME		YEARS		MONTH					
DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				MINIMUM TEMP				
	F	C	AVERAGE	EXTREME	EXTREME	EXTREME	AVERAGE	EXTREME	EXTREME	DATE	
			F	C	F	C	F	C	F	C	DATE
1	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/1
2	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/2
3	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/3
4	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/4
5	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/5
6	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/6
7	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/7
8	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/8
9	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/9
10	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/10
11	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/11
12	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/12
13	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/13
14	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/14
15	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/15
16	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/16
17	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/17
18	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/18
19	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/19
20	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/20
21	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/21
22	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/22
23	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/23
24	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/24
25	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/25
26	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/26
27	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/27
28	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/28
29	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/29
30	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/30
31	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/31
Monthly	64.0	17.8	64.0	17.8	77	25.5	44.0	6.7	44.0	6.7	1/31

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION: 45-100 STATION NAME: 45-100 YEARS: MONTH:

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				MINIMUM TEMP				
	F	C	AVERAGE		EXTREME		AVERAGE		EXTREME		DATE
			F	C	F	C	F	C	F	C	DATE
1		21.4	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
2		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
3		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
4		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
5		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
6		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
7		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
8		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
9		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
10		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
11		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
12		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
13		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
14		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
15		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
16		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
17		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
18		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
19		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
20		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
21		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
22		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
23		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
24		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
25		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
26		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
27		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
28		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
29		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
30		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
31		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7
Monthly		22.0	77.0	20.0	77	20.0	77	20.0	64	18.0	2/7

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION: NO. 2588, J. H. HARRIS STATION NAME: 45-1-1 YEARS: MONTH:

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				MINIMUM TEMP				
	F	C	AVERAGE		EXTREME		AVERAGE		EXTREME		
	F	C	F	C	F	C	F	C	F	C	DATE
1	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
2	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
3	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
4	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
5	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
6	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
7	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
8	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
9	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
10	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
11	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
12	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
13	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
14	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
15	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
16	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
17	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
18	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
19	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
20	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
21	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
22	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
23	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
24	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
25	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
26	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
27	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
28	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
29	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
30	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
31	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	
Monthly	7.0	4.4	3.0	1.7	7.0	4.4	3.0	1.7	3.0	1.7	1950

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME						YEARS		MONTH	
DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP AVERAGE EXTREME				DATE	MINIMUM TEMP AVERAGE		EXTREME	
	F	C	F	C	F	C		F	C	F	C
1											
2	72.4	22.4	72.4	22.4	82	27.8	1/22	72.4	22.4	52	11.1
3	72.4	22.4	72.4	22.4	82	27.8	1/23	72.4	22.4	52	11.1
4	72.4	22.4	72.4	22.4	82	27.8	1/24	72.4	22.4	52	11.1
5	72.4	22.4	72.4	22.4	82	27.8	1/25	72.4	22.4	52	11.1
6	72.4	22.4	72.4	22.4	82	27.8	1/26	72.4	22.4	52	11.1
7	72.4	22.4	72.4	22.4	82	27.8	1/27	72.4	22.4	52	11.1
8	72.4	22.4	72.4	22.4	82	27.8	1/28	72.4	22.4	52	11.1
9	72.4	22.4	72.4	22.4	82	27.8	1/29	72.4	22.4	52	11.1
10	72.4	22.4	72.4	22.4	82	27.8	1/30	72.4	22.4	52	11.1
11	72.4	22.4	72.4	22.4	82	27.8	1/31	72.4	22.4	52	11.1
12	72.4	22.4	72.4	22.4	82	27.8	2/1	72.4	22.4	52	11.1
13	72.4	22.4	72.4	22.4	82	27.8	2/2	72.4	22.4	52	11.1
14	72.4	22.4	72.4	22.4	82	27.8	2/3	72.4	22.4	52	11.1
15	72.4	22.4	72.4	22.4	82	27.8	2/4	72.4	22.4	52	11.1
16	72.4	22.4	72.4	22.4	82	27.8	2/5	72.4	22.4	52	11.1
17	72.4	22.4	72.4	22.4	82	27.8	2/6	72.4	22.4	52	11.1
18	72.4	22.4	72.4	22.4	82	27.8	2/7	72.4	22.4	52	11.1
19	72.4	22.4	72.4	22.4	82	27.8	2/8	72.4	22.4	52	11.1
20	72.4	22.4	72.4	22.4	82	27.8	2/9	72.4	22.4	52	11.1
21	72.4	22.4	72.4	22.4	82	27.8	2/10	72.4	22.4	52	11.1
22	72.4	22.4	72.4	22.4	82	27.8	2/11	72.4	22.4	52	11.1
23	72.4	22.4	72.4	22.4	82	27.8	2/12	72.4	22.4	52	11.1
24	72.4	22.4	72.4	22.4	82	27.8	2/13	72.4	22.4	52	11.1
25	72.4	22.4	72.4	22.4	82	27.8	2/14	72.4	22.4	52	11.1
26	72.4	22.4	72.4	22.4	82	27.8	2/15	72.4	22.4	52	11.1
27	72.4	22.4	72.4	22.4	82	27.8	2/16	72.4	22.4	52	11.1
28	72.4	22.4	72.4	22.4	82	27.8	2/17	72.4	22.4	52	11.1
29	72.4	22.4	72.4	22.4	82	27.8	2/18	72.4	22.4	52	11.1
30	72.4	22.4	72.4	22.4	82	27.8	2/19	72.4	22.4	52	11.1
31	72.4	22.4	72.4	22.4	82	27.8	2/20	72.4	22.4	52	11.1
Monthly	72.4	22.4	72.4	22.4	82	27.8	2/21	72.4	22.4	52	11.1

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION NO. STATION NAME YEARS MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				MINIMUM TEMP					
	F	C	AVERAGE	EXTREME	F	C	DATE	AVERAGE	EXTREME	F	C	DATE
1	64	18	64	80	60	30	1/1	50	30	40	-4	1/1
2	64	18	64	80	60	30	1/2	50	30	40	-4	1/2
3	64	18	64	80	60	30	1/3	50	30	40	-4	1/3
4	64	18	64	80	60	30	1/4	50	30	40	-4	1/4
5	64	18	64	80	60	30	1/5	50	30	40	-4	1/5
6	64	18	64	80	60	30	1/6	50	30	40	-4	1/6
7	64	18	64	80	60	30	1/7	50	30	40	-4	1/7
8	64	18	64	80	60	30	1/8	50	30	40	-4	1/8
9	64	18	64	80	60	30	1/9	50	30	40	-4	1/9
10	64	18	64	80	60	30	1/10	50	30	40	-4	1/10
11	64	18	64	80	60	30	1/11	50	30	40	-4	1/11
12	64	18	64	80	60	30	1/12	50	30	40	-4	1/12
13	64	18	64	80	60	30	1/13	50	30	40	-4	1/13
14	64	18	64	80	60	30	1/14	50	30	40	-4	1/14
15	64	18	64	80	60	30	1/15	50	30	40	-4	1/15
16	64	18	64	80	60	30	1/16	50	30	40	-4	1/16
17	64	18	64	80	60	30	1/17	50	30	40	-4	1/17
18	64	18	64	80	60	30	1/18	50	30	40	-4	1/18
19	64	18	64	80	60	30	1/19	50	30	40	-4	1/19
20	64	18	64	80	60	30	1/20	50	30	40	-4	1/20
21	64	18	64	80	60	30	1/21	50	30	40	-4	1/21
22	64	18	64	80	60	30	1/22	50	30	40	-4	1/22
23	64	18	64	80	60	30	1/23	50	30	40	-4	1/23
24	64	18	64	80	60	30	1/24	50	30	40	-4	1/24
25	64	18	64	80	60	30	1/25	50	30	40	-4	1/25
26	64	18	64	80	60	30	1/26	50	30	40	-4	1/26
27	64	18	64	80	60	30	1/27	50	30	40	-4	1/27
28	64	18	64	80	60	30	1/28	50	30	40	-4	1/28
29	64	18	64	80	60	30	1/29	50	30	40	-4	1/29
30	64	18	64	80	60	30	1/30	50	30	40	-4	1/30
31	64	18	64	80	60	30	1/31	50	30	40	-4	1/31
Monthly	64	18	64	80	60	30	1/31	50	30	40	-4	1/31

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION: _____ STATION NAME: _____ YEARS: _____

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP		WIND	WIND DIR	WIND SPC	WIND DIR	WIND SPC	WIND DIR	WIND SPC
	F	C	AVERAGE	EXTREME	F	C		AVERAGE	EXTREME							
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
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22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Monthly																

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

NO. 1006, 2110311

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP		DATE
	F	C	AVERAGE	EXTREME	F	C		AVERAGE	EXTREME	
1	40.4	5.0	40.0	40.3	67	20.0	1970	36.0	2.2	1970
2	40.0	5.0	40.0	40.1	67	20.0	1970	36.0	2.2	1970
3	40.0	5.0	40.0	40.6	71	21.5	1970	36.0	2.2	1970
4	40.0	5.0	40.0	40.1	77	23.0	1970	36.0	2.2	1970
5	40.0	5.0	40.0	40.3	77	22.0	1970	36.0	2.2	1970
6	40.0	5.0	40.0	40.3	77	22.0	1970	36.0	2.2	1970
7	40.0	5.0	40.0	40.4	77	22.0	1970	36.0	2.2	1970
8	40.0	5.0	40.0	40.4	77	22.0	1970	36.0	2.2	1970
9	40.0	5.0	40.0	40.0	75	21.0	1970	36.0	2.2	1970
10	40.0	5.0	40.0	40.1	76	21.0	1970	36.0	2.2	1970
11	40.0	5.0	40.0	40.2	74	21.0	1971	36.0	2.2	1971
12	40.0	5.0	40.0	40.0	77	22.0	1971	36.0	2.2	1971
13	40.0	5.0	40.0	40.7	77	22.0	1971	36.0	2.2	1971
14	40.0	5.0	40.0	40.1	77	22.0	1971	36.0	2.2	1971
15	40.0	5.0	40.0	40.5	75	21.0	1971	36.0	2.2	1971
16	40.0	5.0	40.0	40.3	77	22.0	1971	36.0	2.2	1971
17	40.0	5.0	40.0	40.3	67	20.0	1971	36.0	2.2	1971
18	40.0	5.0	40.0	40.0	67	20.0	1971	36.0	2.2	1971
19	40.0	5.0	40.0	40.0	67	20.0	1971	36.0	2.2	1971
20	40.0	5.0	40.0	40.3	67	20.0	1971	36.0	2.2	1971
21	40.0	5.0	40.0	40.4	67	20.0	1971	36.0	2.2	1971
22	40.0	5.0	40.0	40.7	77	22.0	1971	36.0	2.2	1971
23	40.0	5.0	40.0	40.1	77	22.0	1971	36.0	2.2	1971
24	40.0	5.0	40.0	40.0	77	22.0	1971	36.0	2.2	1971
25	40.0	5.0	40.0	40.3	76	21.0	1971	36.0	2.2	1971
26	40.0	5.0	40.0	40.4	77	22.0	1971	36.0	2.2	1971
27	40.0	5.0	40.0	40.7	77	22.0	1971	36.0	2.2	1971
28	40.0	5.0	40.0	40.0	74	21.0	1971	36.0	2.2	1971
29	40.0	5.0	40.0	40.0	77	22.0	1971	36.0	2.2	1971
30	40.0	5.0	40.0	40.0	77	22.0	1971	36.0	2.2	1971
31	40.0	5.0	40.0	40.1	67	20.0	1971	36.0	2.2	1971
Monthly	40.0	5.0	40.0	40.0	77	22.0	1971	36.0	2.2	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION ASHEVILLE STATION NAME ASHEVILLE YEARS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1977													
MEAN													
SD													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

1011 H. TEMPERATURE
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, N.C. STATION NAME ASHEVILLE YEARS 60

WIND DIRECTION, FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
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49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
MEAN	3.3	3.0	3.0	3.0	4.0	5.0	7.0	6.0	5.0	4.0	3.0	2.0	3.0
S D	3.0	3.0	3.0	3.0	4.0	5.0	7.0	6.0	5.0	4.0	3.0	2.0	3.0
TOTAL OBS	10	10	10	10	10	10	10	10	10	10	10	10	10

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
FROM DAILY OBSERVATIONS

STATION NAVAL WEATHER SERVICE DETACHMENT STATION NAME ASHEVILLE, NORTH CAROLINA YEARS 1950-1959

WILL BE RECORDED IN THIS TABLE ONLY IF LESS THAN FULL MONTH

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
MEAN													
S D													
TOTAL OBS													

SMOS

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	DB * F	Dry Bulb	Wet Bulb	Dew Point		
Element	X	ΣX	ΣX ²	ΣX ³	ΣX ⁴	ΣX ⁵	ΣX ⁶	ΣX ⁷	ΣX ⁸	ΣX ⁹	ΣX ¹⁰	ΣX ¹¹	ΣX ¹²	ΣX ¹³	ΣX ¹⁴	ΣX ¹⁵	ΣX ¹⁶	ΣX ¹⁷	ΣX ¹⁸	ΣX ¹⁹	ΣX ²⁰	ΣX ²¹	ΣX ²²	ΣX ²³	ΣX ²⁴	ΣX ²⁵	ΣX ²⁶	ΣX ²⁷	ΣX ²⁸	ΣX ²⁹	ΣX ³⁰	ΣX ³¹						
Rel Hum																																						
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

MONTH

NO. OF DAYS

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point		
					</																														

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

HEAVY

WIND

Temp F	WET BULB TEMPERATURE DEPRESSION F																																Temp		DPT						
	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	32	DBT	WBT	DPT	DPT				

NAVWELSERVCOM

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point																			

NAVWEASERYCOM

Element X	$\sum X^2$	$\sum X$	\bar{X}	σ^2	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												

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEAR

MONTH

Temp F	WET BULB TEMPERATURE DEPRESSION F																												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	32	33	34	35	36	37	38	39	40	TOTAL	PERCENT												
<div style="display: flex; justify-content: space-between; padding: 0 10px;"> Element X $\sum X$ $\sum X^2$ \bar{X} \bar{X}^2 No. Obs Mean No. of Hours with Temperature </div>																																																							
Rel Hum																																																Total							
Dry Bulb																																																							
Wet Bulb																																																							
Dew Point																																																							

NAVWEASRYCOM

MEANS AND STANDARD DEVIATIONS

MEAN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.
MEAN
ST. DEV.
TOTAL OBS.

MEANS AND STANDARD DEVIATIONS

STATION	STATION NAME	YEARS	MONTHS												ANNUAL		
			JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.			
1	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
2	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
3	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
4	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
5	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
6	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
7	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
8	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
9	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
10	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
ALL MEMBERS	MEAN S.D.	TOTAL OBS	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	
			11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS 1ST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUMBER OBS.	
		10	20	30	40	50	60	70	80	90			
		100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
	1	100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8
TOTALS		100	99.9	99.7	99.3	98.7	97.9	96.8	95.4	93.7	91.7	89.4	86.8

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS OBS.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
	1	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	2	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	3	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	4	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	5	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	6	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	7	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	8	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	9	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	10	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	11	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	12	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	13	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	14	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	15	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	16	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	17	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	18	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	19	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	20	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	21	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	22	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	23	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
	24	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	
TOTALS	240	100.0	96.0	83.0	63.0	47.0	37.0	27.0	17.0	10.0	61.6	2296

RELATIVE HUMIDITY

1775
STATIONNO. 100, VIRGINIA
STATION NAME

73-32

PERIOD

MAR
MONTHCUMULATIVE 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%		
1	1	100.0	100.0	99.7	92.3	81.0	69.7	47.4	26.1	10.7	58.5	31
2	2	100.0	100.0	100.0	85.2	73.7	72.5	57.9	30.6	11.6	70.5	31
3	3	100.1	100.0	100.0	88.7	85.7	71.6	53.7	35.8	14.5	71.8	31
4	4	100.0	100.0	98.4	84.5	69.7	49.7	33.2	22.9	7.7	62.5	31
5	5	100.0	99.4	89.7	73.9	57.1	41.0	29.0	15.5	6.5	56.9	31
6	6	100.0	98.4	87.4	73.5	56.5	41.9	28.7	17.1	7.1	57.0	31
7	7	100.0	99.7	95.5	83.9	67.7	51.3	39.4	22.6	8.7	62.5	31
8	8	100.0	100.0	98.1	92.6	81.0	63.5	44.2	24.5	7.7	57.0	31
TOTALS		100.0	99.7	96.1	86.8	73.7	57.5	41.1	24.4	9.6	64.6	2470

RELATIVE HUMIDITY

13755 NORFOLK, VIRGINIA
STATION STATION NAME

77-12

PERIOD

12 MONTH

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%			
1	177.0	100.0	99.7	98.7	96.7	92.7	80.7	61.7	39.3	17.0	7.3	64.7	177
2	177.0	100.0	99.7	98.7	96.7	92.7	80.7	63.7	41.7	26.7	8.0	67.5	177
3	177.0	100.0	99.7	98.7	96.7	92.7	81.0	63.0	42.0	22.0	5.7	66.4	177
4	100.0	99.7	96.7	96.7	94.7	89.7	72.3	46.3	20.0	7.7	54.2	100	
5	100.0	98.7	84.0	81.0	79.7	75.7	65.7	44.7	27.0	7.3	48.5	100	
6	100.0	96.7	81.7	78.7	76.7	72.7	62.7	45.7	25.7	8.7	47.7	100	
7	100.0	99.7	91.7	86.7	85.7	81.7	71.7	53.7	33.7	13.7	7.3	55.1	100
8	100.0	100.0	98.0	89.0	86.0	82.0	76.0	63.0	48.0	26.0	7.0	62.4	100
TOTALS	1000.0	99.4	93.7	90.8	82.6	74.6	62.9	44.0	28.9	14.0	3.2	58.3	2400

RELATIVE HUMIDITY

STATION NO. 75-02 STATION NAME NO. 1000, WID. INTL. PERIOD 1954 BY MONTH

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%		
JAN	24	100.0	100.0	100.0	99.7	93.0	82.6	64.0	43.2	19.5	75.8	21
FEB	24	100.0	100.0	100.0	98.4	86.1	65.5	41.9	25.3	12.0	77.5	21
MAR	24	100.0	100.0	100.0	98.7	91.0	81.9	61.4	41.7	13.0	74.9	31
APR	24	100.0	100.0	98.1	81.0	75.0	55.5	39.4	19.0	4.0	64.1	31
MAY	24	100.0	99.7	94.7	82.3	67.0	45.2	31.0	14.2	4.5	54.2	31
JUN	24	100.0	100.0	93.5	82.3	63.5	47.4	31.0	19.7	4.2	59.6	31
JUL	24	100.0	100.0	98.7	91.0	76.0	59.0	41.0	25.5	0.4	66.0	31
AUG	24	100.0	100.0	100.0	98.1	90.0	76.5	56.5	36.1	14.2	72.0	31
TOTALS		100.0	100.0	98.1	92.8	81.0	60.7	50.0	30.6	17.1	68.6	2430

RELATIVE HUMIDITY

STATION NO. 100001A
STATION NAME

PERIOD

MONTH

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%		
	1000.0	100.0	100.0	100.0	99.7	97.7	92.7	74.7	44.7	11.7	37.2	100
	1000.0	100.0	100.0	100.0	99.7	97.7	91.3	81.7	55.7	17.7	35.1	100
	1000.0	100.0	100.0	100.0	99.3	97.0	91.3	75.7	47.7	13.7	37.1	100
	1000.0	100.0	100.0	100.0	97.7	95.7	87.9	77.1	51.0	18.7	36.1	100
	1000.0	100.0	99.7	97.7	92.7	74.7	47.3	24.7	8.7	1.7	32.0	100
	1000.0	100.0	97.7	93.7	83.7	74.7	47.3	26.7	11.7	3.7	31.0	100
	1000.0	100.0	100.0	100.0	99.7	97.7	95.3	84.7	67.7	37.7	67.5	100
	1000.0	100.0	100.0	100.0	99.7	94.7	85.3	66.7	50.7	26.7	74.1	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
	1000.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
TOTALS	1000.0	100.0	99.7	97.1	87.0	74.3	53.7	28.6	6.2	70.4	2398	

RELATIVE HUMIDITY

STATION NAME: NORFOLK, VIRGINIA

PERIOD: 11-1-58

MONTH: JUL

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%		
JUL	01	100.0	100.0	100.0	100.0	96.7	94.9	84.8	55.5	11.3	90.0	21
	02	100.0	100.0	100.0	100.0	94.7	96.8	88.7	67.7	17.9	92.1	21
	03	100.0	100.0	100.0	100.0	96.1	92.6	80.7	48.7	7.4	78.5	21
	04	100.0	100.0	100.0	98.7	92.0	74.8	47.7	13.5	1.3	57.8	21
	05	100.0	100.0	99.4	93.0	75.1	50.0	21.7	9.0	1.9	61.0	210
	06	100.0	100.0	99.7	95.9	75.7	51.6	26.1	14.2	4.5	62.1	210
	07	100.0	100.0	100.0	98.7	88.4	70.0	45.7	24.2	4.4	68.7	217
	08	100.0	100.0	100.0	100.0	97.7	90.0	72.6	36.4	7.4	70.2	210
	09											
	10											
	11											
	12											
	13											
	14											
	15											
	16											
	17											
	18											
	19											
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	22											
	23											
	24											
	25											
	26											
	27											
	28											
	29											
	30											
	31											
TOTALS		100.0	100.0	99.2	98.1	91.0	77.0	57.7	33.9	4.6	72.0	2420

RELATIVE HUMIDITY

1976 NORFOLK, VIRGINIA
STATION

73-12

PERIOD

MONTH

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%
		100.0	100.0	100.0	100.0	99.4	98.1	97.0	61.4	14.5	81.8	310
		100.0	100.0	100.0	100.0	99.0	97.7	92.3	78.0	14.7	83.4	310
		100.0	100.0	100.0	100.0	99.7	97.1	98.4	62.3	14.4	81.6	310
		100.0	100.0	100.0	99.4	95.0	82.3	50.6	28.0	7.0	70.0	310
		100.0	100.0	100.0	96.1	82.7	57.1	26.1	9.4	1.6	63.0	310
		100.0	100.0	100.0	97.4	82.0	57.7	31.9	16.6	4.6	64.4	310
		100.0	100.0	100.0	100.0	95.0	81.6	53.2	25.2	6.5	71.0	310
		100.0	100.0	100.0	99.7	99.7	95.5	76.7	44.5	6.7	78.2	310
TOTALS		100.0	100.0	100.0	99.1	94.7	83.4	63.9	38.7	9.6	74.4	2420

RELATIVE HUMIDITY

STATION: **W. VIRGINIA**
STATION NAME:

PERIOD:

PERIOD:

MONTH:

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%		
		100.0	100.0	100.0	100.0	97.7	91.3	77.3	51.0	3.7	71.0	370
		100.0	100.0	100.0	100.0	96.7	91.0	79.7	59.3	9.7	79.3	377
		100.0	100.0	100.0	100.0	97.7	91.3	79.3	52.3	11.3	79.2	370
		100.0	100.0	100.0	79.3	91.7	72.0	44.3	16.3	0.7	67.9	370
		100.0	100.0	98.7	95.0	79.7	49.7	20.0	12.7	4.0	62.1	370
		100.0	100.0	98.7	93.0	79.7	65.7	33.7	14.3	1.7	62.1	370
		100.0	100.0	100.0	98.3	94.0	70.0	54.7	23.7	6.0	70.6	370
		100.0	100.0	100.0	100.0	98.7	98.7	70.0	38.3	7.3	75.3	370
TOTALS		100.0	100.0	99.7	98.2	91.9	76.7	58.4	33.5	6.7	71.9	2470

RELATIVE HUMIDITY

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 Days
		10	20	30	40	50	60	70	80	90		
Jan	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
Feb	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	29
Mar	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
Apr	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	30
May	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
Jun	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	30
Jul	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
Aug	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
Sep	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	30
Oct	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
Nov	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	30
Dec	1	100.0	100.0	100.0	99.9	99.7	99.4	98.9	98.2	97.3	95.9	31
TOTALS	1	100.0	100.0	99.9	99.7	99.7	99.3	98.8	98.1	97.3	95.9	365

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS (31)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL HOURS	
		100	90	80	70	60	50	40	30	20			
Jan	1	100	100	100	100	100	100	100	100	100	100	100	100
Feb	1	100	100	100	100	100	100	100	100	100	100	100	100
Mar	1	100	100	100	100	100	100	100	100	100	100	100	100
Apr	1	100	100	100	100	100	100	100	100	100	100	100	100
May	1	100	100	100	100	100	100	100	100	100	100	100	100
Jun	1	100	100	100	100	100	100	100	100	100	100	100	100
Jul	1	100	100	100	100	100	100	100	100	100	100	100	100
Aug	1	100	100	100	100	100	100	100	100	100	100	100	100
Sep	1	100	100	100	100	100	100	100	100	100	100	100	100
Oct	1	100	100	100	100	100	100	100	100	100	100	100	100
Nov	1	100	100	100	100	100	100	100	100	100	100	100	100
Dec	1	100	100	100	100	100	100	100	100	100	100	100	100
TOTAL	1	100	100	100	100	100	100	100	100	100	100	100	100

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

MONTH	HOURLY OBS.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY
		100	90	80	70	60	50	40	30	20	
Jan	1	100	100	100	100	100	100	100	100	100	100
Feb	1	100	100	100	100	100	100	100	100	100	100
Mar	1	100	100	100	100	100	100	100	100	100	100
Apr	1	100	100	100	100	100	100	100	100	100	100
May	1	100	100	100	100	100	100	100	100	100	100
Jun	1	100	100	100	100	100	100	100	100	100	100
Jul	1	100	100	100	100	100	100	100	100	100	100
Aug	1	100	100	100	100	100	100	100	100	100	100
Sep	1	100	100	100	100	100	100	100	100	100	100
Oct	1	100	100	100	100	100	100	100	100	100	100
Nov	1	100	100	100	100	100	100	100	100	100	100
Dec	1	100	100	100	100	100	100	100	100	100	100
TOTAL	1	100	100	100	100	100	100	100	100	100	100

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

Month	Class	1	2	3	4	5	6	7	8	9	10	11	12
JANUARY	0-10	100	100	100	100	100	100	100	100	100	100	100	100
	10-20	100	100	100	100	100	100	100	100	100	100	100	100
	20-30	100	100	100	100	100	100	100	100	100	100	100	100
	30-40	100	100	100	100	100	100	100	100	100	100	100	100
	40-50	100	100	100	100	100	100	100	100	100	100	100	100
	50-60	100	100	100	100	100	100	100	100	100	100	100	100
	60-70	100	100	100	100	100	100	100	100	100	100	100	100
	70-80	100	100	100	100	100	100	100	100	100	100	100	100
	80-90	100	100	100	100	100	100	100	100	100	100	100	100
	90-100	100	100	100	100	100	100	100	100	100	100	100	100
	100-110	100	100	100	100	100	100	100	100	100	100	100	100
	110-120	100	100	100	100	100	100	100	100	100	100	100	100
FEBRUARY	0-10	100	100	100	100	100	100	100	100	100	100	100	100
10-20	100	100	100	100	100	100	100	100	100	100	100	100	100
20-30	100	100	100	100	100	100	100	100	100	100	100	100	100
30-40	100	100	100	100	100	100	100	100	100	100	100	100	100
40-50	100	100	100	100	100	100	100	100	100	100	100	100	100
50-60	100	100	100	100	100	100	100	100	100	100	100	100	100
60-70	100	100	100	100	100	100	100	100	100	100	100	100	100
70-80	100	100	100	100	100	100	100	100	100	100	100	100	100
80-90	100	100	100	100	100	100	100	100	100	100	100	100	100
90-100	100	100	100	100	100	100	100	100	100	100	100	100	100
100-110	100	100	100	100	100	100	100	100	100	100	100	100	100
110-120	100	100	100	100	100	100	100	100	100	100	100	100	100

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
AND WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	PERCENTAGE FREQUENCY
000	0.0
015	0.0
030	0.0
045	0.0
060	0.0
075	0.0
090	0.0
105	0.0
120	0.0
135	0.0
150	0.0
165	0.0
180	0.0
195	0.0
210	0.0
225	0.0
240	0.0
255	0.0
270	0.0
285	0.0
300	0.0
315	0.0
330	0.0
345	0.0
360	0.0

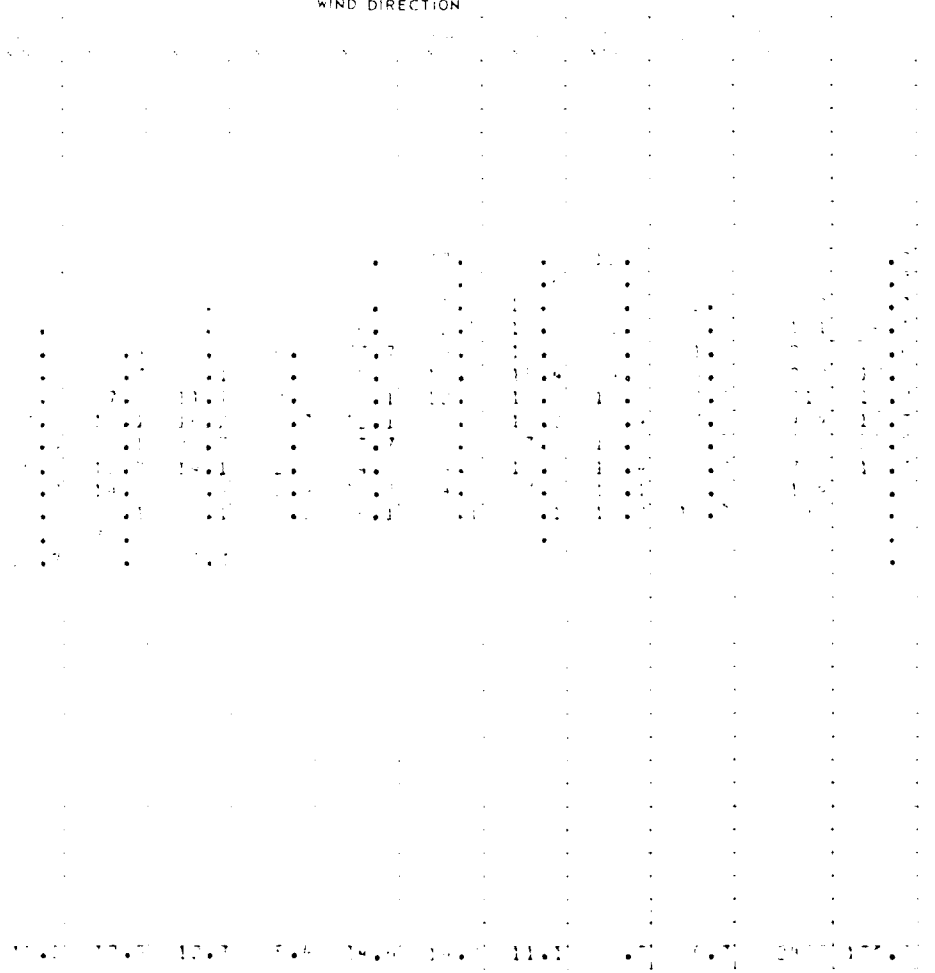
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
AND WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

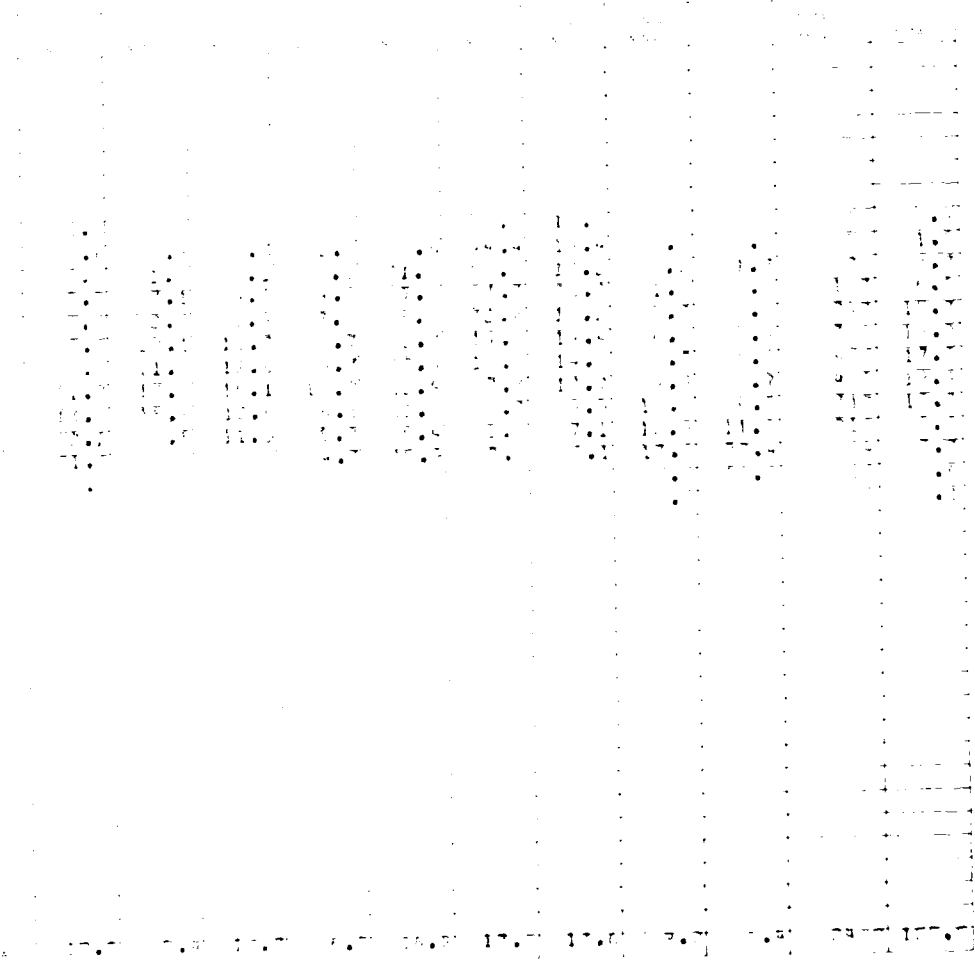
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

STATION: NORFOLK, VIRGINIA YEAR: JANUARY 1973-DECEMBER 1992 MONTH: MAY DAY: ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
120-121											
121-122											
122-123											
123-124											
124-125											
125-126											
126-127											
127-128											
128-129											
129-130											
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197-198											
198-199											
199-200											
TOTALS	9.8	11.5	15.2	7.8	15.0	16.4	9.0	5.0	7.0	2480	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

WATERLOO, VIRGINIA

JANUARY 1973-DECEMBER 1982

JUNE ALL

WIND DIRECTION

TEMP.	NEW & N	NNE & NE	ENE & E	ESE & SE	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL	
100-104.9											
105-109.9											
110-114.9											
115-119.9											
120-124.9											
125-129.9			11.7			13.3	8.0		33	0.7	
130-134.9	0.4	3.1	5.1	3.1	8.3	37.5	34.4	3.1	96	1.9	
135-139.9	4.3	6.5	6.2	1.7	8.6	46.6	24.1	3.4	117	4.9	
140-144.9	7.5	17.3	15.3	7.5	13.2	27.4	22.3	2.0	116	12.0	
145-149.9	11.7	12.7	12.3	7.3	19.8	24.4	1.4	3.0	200	26.0	
150-154.9	7.7	9.3	12.7	6.3	17.3	24.4	4.7	4.6	76	29.2	
155-159.9	17.4	12.7	17.4	9.6	14.6	12.4	7.8	6.1	85	19.1	
160-164.9	13.9	15.6	15.9	11.0	15.3	6.5	2.0	3.0	74	10.7	
165-169.9	11.7	22.7	15.0	4.3	10.0	4.7	4.0	4.0	26	2.1	
170-174.9								100.0	1	0.0	
175-179.9											
180-184.9											
185-189.9											
190-194.9											
195-199.9											
200-204.9											
205-209.9											
210-214.9											
215-219.9											
220-224.9											
225-229.9											
230-234.9											
235-239.9											
240-244.9											
245-249.9											
250-254.9											
255-259.9											
260-264.9											
265-269.9											
270-274.9											
275-279.9											
280-284.9											
285-289.9											
290-294.9											
295-299.9											
TOTALS	5.0	17.7	15.0	7.9	15.3	21.5	11.1	4.8	7.5	270	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

NO. 100, VIRGINIA

JANUARY 1973-DECEMBER 1982

JULY ALL

WIND DIRECTION

TEMP.	SSW & S	SSE & SE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
10-11											
11-12											
12-13											
13-14											
14-15											
15-16											
16-17											
17-18											
18-19											
19-20											
20-21											
21-22											
22-23											
23-24											
24-25											
25-26											
26-27											
27-28											
28-29											
29-30											
30-31											
31-32											
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42-43											
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83-84											
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88-89											
89-90											
90-91											
91-92											
92-93											
93-94											
94-95											
95-96											
96-97											
97-98											
98-99											
99-100											
TOTALS	7.8	9.8	11.3	5.2	13.2	24.9	14.6	4.1	9.2	2476	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

STATION: NO. 101, VIAGLIA YEAR: JANUARY 1973-DECEMBER 1982 MONTH: AUGUST DAY: ALL

WIND DIRECTION

TEMP	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
01 TO 02											
02 TO 03											
03 TO 04											
04 TO 05											
05 TO 06											
06 TO 07											
07 TO 08											
08 TO 09											
09 TO 10											
10 TO 11											
11 TO 12											
12 TO 13											
13 TO 14											
14 TO 15											
15 TO 16											
16 TO 17											
17 TO 18											
18 TO 19											
19 TO 20											
20 TO 21											
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82 TO 83											
83 TO 84											
84 TO 85											
85 TO 86											
86 TO 87											
87 TO 88											
88 TO 89											
89 TO 90											
90 TO 91											
91 TO 92											
92 TO 93											
93 TO 94											
94 TO 95											
95 TO 96											
96 TO 97											
97 TO 98											
98 TO 99											
99 TO 100											
TOTALS	5.6	10.9	12.0	5.9	15.1	23.5	10.2	3.1	10.6	248	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

STATION: NORFOLK, VIRGINIA DATE: JANUARY 1973-06-1982-1982 PERIOD: ALL

TEMP	WIND DIRECTION										TOTAL FREQ	% TOTAL	
	NNW A-N	NNE S-N	N	ENE E-N	E	ESE S-SE	SSE S-E	WSW W-S	WNW W-N	W			
00-04													
04-08													
08-12													
12-16													
16-20													
20-24													
24-28													
28-32													
32-36													
36-40													
40-44													
44-48													
48-52													
52-56													
56-60													
60-64													
64-68													
68-72													
72-76													
76-80													
80-84													
84-88													
88-92													
92-96													
96-100													
TOTALS	11.7	14.3	17.7	6.0	13.2	14.0	8.1	3.4	10.6	2400	100.0		

H

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

177 NORFOLK, VIRGINIA

JANUARY 1973-OCTOBER 1982

OCTOBER ALL

STATION

PERIOD

YEAR

MONTH

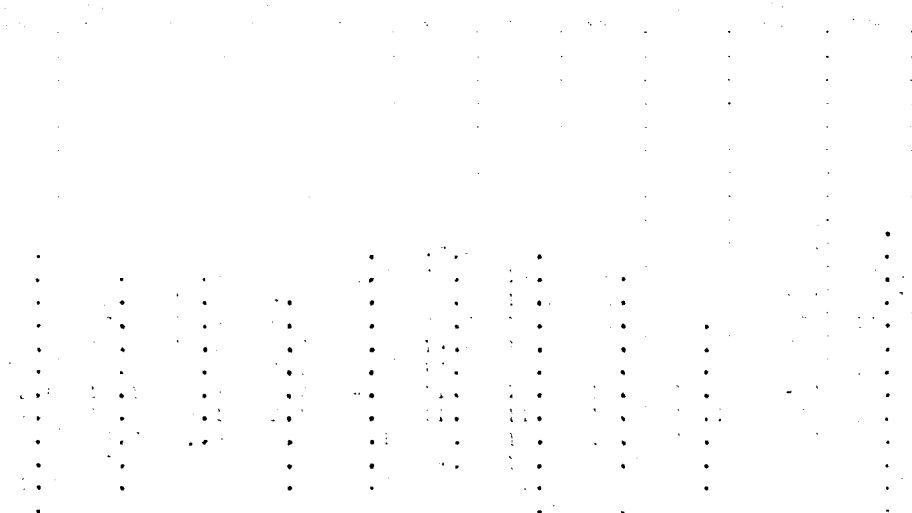
PERIOD

WIND DIRECTION

YEAR	NE & N	NNE & NE	ESE & E	ENE & E	SE & SSE	SSW & S	WSW & W	WNW & NW	CAV	TOTAL FREQ.	% TOTAL
1973											
1974											
1975											
1976											
1977											
1978											
1979											
1980											
1981											
1982											
1983											
1984											
1985											
1986											
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2005											
2006											
2007											
2008											
2009											
2010											
2011											
2012											
2013											
2014											
2015											
2016											
2017											
2018											
2019											
2020											
TOTALS	18.4	16.0	10.5	3.8	10.7	13.9	10.3	8.1	10.2	284	100.0

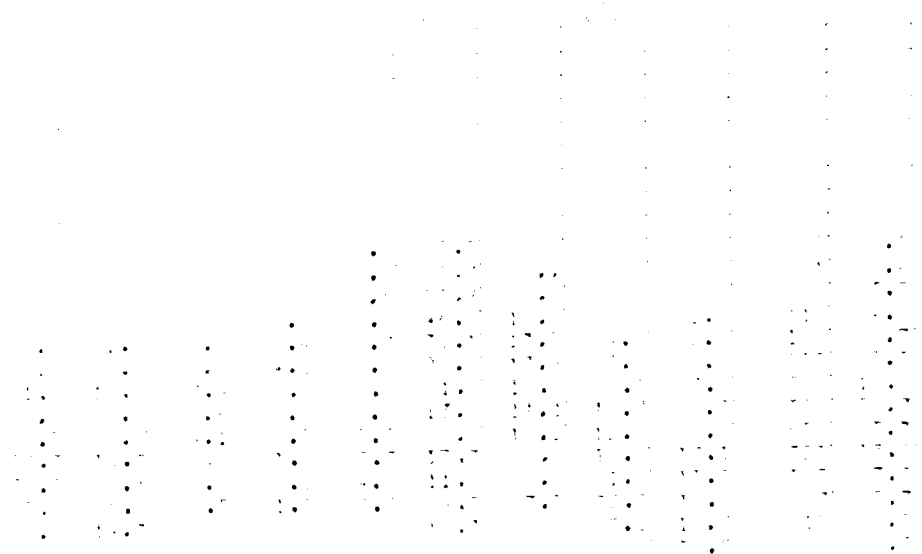
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
AND WIND DIRECTION

PERCENTAGE



WIND VELOCITY, AIR TEMPERATURE
AND DIRECTION

STATION

TIME	WIND VELOCITY	AIR TEMPERATURE	DIRECTION
0000			
0100			
0200			
0300			
0400			
0500			
0600			
0700			
0800			
0900			
1000			
1100			
1200			
1300			
1400			
1500			
1600			
1700			
1800			
1900			
2000			
2100			
2200			
2300			
2400			

NAVY

Approved for Release

PART F PRESSURE SUMMARY

Presented in this part are the tables giving the means, standard deviation, and total error of the mean of static pressure and sea-level pressure of a data and summary of the level static observation data available to the present report, by latitude band. The same observations are also available at the present report for all years combined. All years of data available are combined in the present report, although the total period is limited to January 1941 through December 1942 because of the nature of the data reported and because after those dates.

1. Static pressure in inches of mercury.

2. Sea-level pressure in millibars.

Provides data in a table to convert static pressure values in inches of mercury to millibars and vice versa also in both directions. This table is an empirical model of the sea-level pressure data in the latitude band. Meteorological Data.

	P R E S S U R E										A L T I T U D E										I N C H E S										F T									
	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1
20 IN HG	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
MB	100	100	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	
	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1
	P R E S S U R E										A L T I T U D E										I N C H E S										F T									

F

MEANS AND STANDARD DEVIATIONS

STATION NAME: _____ YEARS: _____

HRS. PER MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
MEAN	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
STANDARD DEVIATION	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24

END

DATE
FILMED

7 - 85

DTIC

END

DATE

FILMED

7 - 85

DTIC