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SMOS

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

AD-A150 448

STATION: #93114 Santa Ana, CA/Tustin

PERIOD: April 1945-December 1982

JOB NO. 72006 DATE October 1983

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

PREPARED FOR
COMMANDER,
NAVAL OCEANOGRAPHY
COMMAND
NSTL MS 39529

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

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

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

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

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STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT)	CALL SIGN:	WMO NUMBER:
93114	Tustin, California	33°42'N	117°50'W	54	KNTK	

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	MCAF	1951	1965	33°42'N	117°49'W	61	Mercurial	Var
2.	West wall, weather service office	"	1965		"	117°50'W	61	"	"
3.	GMQ, 14B console	"	1966	1979	"	"	63	Aneroid	"
4.	Northwest wall, inside weather office	"	1979		"	"	"	"	"

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.	Installed 1952	Atop hanger	*Selsyn		200'	1. Barograph (ML-3-A) 2. Hygrothermograph 3. Ceiling light (ML-121) 4. Cloud height set (GMQ-13) 5. Theodolite (R-18-T 581) 6. Transmissometer (GMQ-10) 7. Semi-auto met station (GMQ-14B) 8. Thermoscreen
1a.	1960	150 ft. east of runway 24	**UMQ-5	RD-108B	10'	
		* Date disassembled unknown ** Date first installed unknown				

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 groups.

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

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

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

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

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

Hail Occurrences of hail and small hail are included.

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

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

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

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

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

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

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

: 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.

WEATHER CONDITIONS
ATMOSPHERIC PHENOMENA

93114	SANTA ANA, CALIFORNIA	45-47, 51-52, 63, 68-79	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	DAILY	1.9	32.1		.2	.7	27.5	43.1	40.5		1.4	55.4	415
FEB		2.1	32.1			.5	27.3	47.3	44.1			58.0	374
MAR		3.5	31.2			.2	26.7	38.9	33.6			45.4	434
APR		.2	22.3				18.5	30.4	36.7		.2	44.4	428
MAY		.4	27.7				22.9	42.0	50.7			57.3	450
JUN		.7	23.6				20.4	48.3	64.4			69.8	441
JUL		1.0	8.5				6.9	55.6	76.8			82.1	491
AUG		.7	8.5				7.9	47.8	73.2		.2	77.1	433
SEP		2.2	14.6				12.5	47.9	66.1			71.0	407
OCT		2.0	23.2			.2	19.6	48.4	61.0		.2	67.2	403
NOV		1.9	21.5			.5	18.8	43.4	46.9		.5	56.6	431
DEC		1.6	28.0			.5	24.4	43.1	42.6			55.6	439
TOTALS		1.5	22.8		.0	.2	19.4	44.7	53.0		.2	61.7	5146

WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JAN (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.
JAN	01		8.1				8.1	15.9	5.5			21.0	309
	04		8.4				8.4	21.3	2.3			23.5	310
	07		7.7				7.7	21.6	4.2			25.2	310
	10		7.1				7.1	11.9	16.1			27.4	310
	13	.3	9.7				9.7	3.2	21.0		.3	23.5	310
	16	.3	9.4				9.4	1.3	19.7			21.0	310
	19	.3	6.8				6.8	5.5	9.0			14.2	310
	22		6.8				6.8	12.9	5.2			18.1	310
TOTALS		.1	8.0				8.0	11.7	10.4		.0	21.7	2479

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WEATHER CONDITIONS

93114 SANTA ANA, CALIFORNIA 73-82 FEB

STATION | STATION NAME | 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.
FEB	01		7.4				7.4	20.2	2.5			22.7	282
	04		7.4				7.4	23.4	3.2			26.2	282
	07		7.8				7.8	25.9	5.3			30.9	282
	10		6.7				6.7	10.6	25.9			36.5	282
	13	.7	7.4				7.4	2.8	26.2			28.7	282
	16	.4	8.2				8.2	1.8	18.8			20.6	282
	19	.4	6.4				6.4	4.6	9.6			14.2	282
	22	.4	7.8				7.8	13.5	4.3			17.7	282
TOTALS		.2	7.4				7.4	12.9	12.0			24.7	2256

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WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) MAR (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.
MAR	01		7.1				7.1	6.8	2.9			9.4	310
	04	.6	9.4				9.4	9.4	1.9			11.0	310
	07	.3	8.1				8.1	16.1	4.5			20.3	310
	10	.3	6.5				6.5	2.6	16.1			18.4	310
	13		7.4				7.4	1.6	13.9			15.5	310
	16		5.2				5.2	1.3	6.1			7.4	310
	19	.6	6.8				6.8	2.3	2.6			4.8	310
	22	.3	6.5				6.5	4.2	.6			4.8	310
TOTALS		.3	7.1				7.1	5.5	6.1			11.5	2480

WEATHER CONDITIONS

3114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	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.
APR	01	.3	3.7				3.7	9.3	5.3			14.7	300
	04		3.7				3.7	14.7	6.0			20.0	300
	07		4.7				4.7	16.0	13.3			29.3	300
	10		3.0				3.0	2.0	22.3			24.3	300
	13		3.0				3.0		17.0			17.0	300
	16		1.7				1.7		9.3			9.3	300
	19		3.3				3.3	2.0	8.3			10.3	300
	22		3.0				3.0	6.0	5.7			11.3	300
TOTALS		.0	3.3				3.3	6.3	10.9			17.0	2400

WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	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.
MAY	01		3.5				3.5	14.2	10.0			24.2	310
	04		6.5				6.5	22.3	9.4			31.3	310
	07		8.1				8.1	21.6	22.9			43.5	310
	10		1.0				1.0	2.9	31.3			33.9	310
	13		1.6				1.6	.3	25.5			25.8	310
	16		.6				.6	.3	15.8			16.1	310
	19		1.6				1.6	3.5	18.7			21.9	310
	22		2.9				2.9	9.1	11.7			20.4	309
TOTALS			3.2				3.2	9.3	18.2			27.1	2479

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WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	73-82	JUN
STATION	STATION NAME	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.
JUN	01		2.7				2.7	18.8	10.7			29.5	298
	04		4.7				4.7	33.6	9.7			42.6	298
	07		5.0				5.0	32.0	27.0			58.7	300
	10		2.3				2.3	2.3	49.0			51.3	300
	13								33.7			33.7	300
	16		.7				.7		19.0			19.0	300
	19		.3				.3	1.0	17.8			18.8	298
	22		2.3				2.3	9.7	10.7			20.5	298
TOTALS			2.3				2.3	12.2	22.2			34.3	2392

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WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUL (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.
JUL	01	.3	.6				.6	20.0	9.4			28.7	310
	04		1.0				1.0	37.1	11.9			48.7	310
	07		2.3				2.3	31.6	37.7			68.7	310
	10		.3				.3	1.0	49.4			50.3	310
	13		.3				.3		31.0			31.0	310
	16		.3				.3		17.1			17.1	310
	19							1.9	16.1			18.1	310
	22							9.7	9.0			18.7	310
TOTALS		.0	.6				.6	12.7	22.7			35.2	2480

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WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	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.
AUG	01		1.0				1.0	19.0	11.6			30.6	310
	04		1.0				1.0	32.6	14.8			47.1	310
	07	.3	1.9				1.9	36.9	34.0			70.9	309
	10		.6				.6	2.6	61.3			63.9	310
	13		1.3				1.3	.3	39.7			40.0	310
	16		.3				.3	.6	20.0			20.6	310
	19		.6				.6	1.3	19.4			20.6	310
	22	.3	.6				.6	9.0	11.0			20.0	310
TOTALS		.1	.9				.9	12.8	26.5			39.2	2479

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WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) SEP (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.
SEP	01	.3	3.3				3.3	21.0	12.0			33.0	300
	04		3.7				3.7	29.3	15.7			44.7	300
	07	.3	5.0				5.0	34.7	22.3			56.3	300
	10		1.7				1.7	5.0	54.3			58.7	300
	13	.3	1.7				1.7	1.3	39.0			40.3	300
	16	.3	1.7				1.7	.7	26.0			26.7	300
	19	.7	2.0				2.0	5.3	17.7			23.0	300
	22		2.3				2.3	11.0	15.0			25.7	300
TOTALS		.2	2.7				2.7	13.5	25.3			38.6	2400

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WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	73-82	OCT
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCUPRENCE 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.
OCT	01	.3	2.3				2.3	28.7	10.3			39.0	310
	04	.3	3.9				3.9	34.5	7.4			41.9	310
	07	.3	7.1				7.1	34.8	16.8			51.6	310
	10		2.3				2.3	3.9	45.2			49.0	310
	13		1.0				1.0		40.3			40.3	310
	16		1.0				1.0	.3	32.3			32.6	310
	19		.6				.6	6.8	21.0			27.7	310
	22		.6				.6	21.6	10.6			31.9	310
TOTALS		.1	2.4				2.4	16.3	23.0			39.3	2480

WEATHER CONDITIONS

93114 SANTA ANA, CALIFORNIA 73-92 NOV

STATION STATION NAME 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.
NOV	01		2.3				2.3	20.3	11.0			31.3	300
	04	.3	4.0				4.0	23.3	7.3			30.7	300
	07		4.0				4.0	26.7	6.0			32.7	300
	10		3.0				3.0	7.3	28.0			35.3	300
	13		2.3				2.3	.3	31.0			31.3	300
	16		1.3				1.3		27.7			27.7	300
	19	.3	.7				.7	5.0	19.3			24.3	300
	22		2.7				2.7	15.3	13.7			29.0	300
TOTALS		.1	2.5				2.5	12.3	18.0			30.3	2400

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WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) DEC (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.
DEC	01		3.5				3.5	28.7	7.1			35.8	310
	04		5.5				5.5	31.6	5.8			37.4	310
	07		3.5				3.5	30.6	9.4			39.7	310
	10		2.9				2.9	14.5	28.7		.3	43.2	310
	13	.3	2.6				2.6	3.2	37.1			40.3	310
	16		2.6				2.6	2.6	33.0		.3	35.6	309
	19		2.9				2.9	12.9	16.8		.3	30.1	309
	22		4.2				4.2	24.9	7.4			32.4	309
TOTALS		.0	3.5				3.5	18.6	18.2		.1	36.8	2477

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WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	73-82	ALL
STATION	STATION NAME	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.
JAN	ALL	.1	8.0				8.0	11.7	10.4		.0	21.7	2479
FEB		.2	7.4				7.4	12.9	12.0			24.7	2256
MAR		.3	7.1				7.1	5.5	6.1			11.5	2480
APR		.0	3.3				3.3	6.3	10.9			17.0	2400
MAY			3.2				3.2	9.3	18.2			27.1	2479
JUN			2.3				2.3	12.2	22.2			34.3	2392
JUL		.0	.6				.6	12.7	22.7			35.2	2480
AUG		.1	.9				.9	12.8	26.5			39.2	2479
SEP		.2	2.7				2.7	13.5	25.3			38.6	2400
OCT		.1	2.4				2.4	16.3	23.0			39.3	2480
NOV		.1	2.5				2.5	12.3	18.0			30.3	2400
DEC		.0	3.5				3.5	18.6	18.2		.1	36.8	2477
TOTALS		.1	3.7				3.7	12.0	17.8		.0	29.6	29202

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	JANUARY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.1	5.1							12.8	7.7				71.8
NNE	4.4	1.5	1.5						5.9	5.9	2.9			79.4
NE	2.5	2.5	.6					.6	7.5	1.3	4.4		.6	80.5
ENE	3.9	2.3	.8						9.4	2.3	4.7			90.5
E	5.4	2.3							8.5	3.9	5.4			76.0
ESE	17.3	5.1	4.1						14.3	2.0	4.1			60.2
SE	11.4	10.5	1.8						12.3		4.4			64.0
SSE	7.8	11.1	1.1					1.1	7.8	2.2	4.4			66.9
S	7.8	11.8	3.9						6.9		2.0			71.6
SSW	11.2	4.5	3.4						5.6	1.1	15.7			64.0
SW		1.2							3.6	1.2	19.0			75.0
WSW	1.4	2.1							2.8	1.4	28.2			64.3
W	2.6	3.1	.5					.5	2.1	1.0	19.2			72.0
WNW	4.1	6.1	4.1								14.3			73.5
NW	4.3								8.7	4.3	21.7			69.6
NNW									8.0		12.0			80.0
VARIABLE														
CALM	1.3	.3	.4						12.8	8.4	10.2			72.1
TOTAL	100	74	24					3	220	70	256		1	1784
% TOTAL	4.0	3.0	1.0					.1	8.9	2.8	10.3		.0	72.0

TOTAL NUMBER OF OBSERVATIONS 2,479

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

[illegible]	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	FEBRUARY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N	6.5								6.5	6.5	3.2			80.6
NNE	1.8	1.8	1.8						3.6		5.4			85.7
NE	2.2	1.1							4.4	1.1	6.7			86.7
ENE	4.4		.3						12.8	3.2	5.2			79.2
E	3.2	2.3	.3					.2	15.3	.3	4.3			68.3
ESE	7.4	11.0							15.9	1.2	11.3			53.7
SE	16.7	7.8	1.1						11.1	3.3	5.6			60.3
SSE	9.1	16.9	2.6						13.0		3.9			63.6
S	9.2	4.3	1.8					.6	7.4	.6	12.9			66.3
SSW	6.1	2.3	.9						1.8	.9	19.3			67.3
SW	3.4	2.9	1.9					1.0	6.7	1.0	23.1			62.3
WSW	.7	2.4							1.9	.5	22.1			73.1
W	.5	.6	.6					1.1	1.1		23.4			73.7
WNW	2.2	4.2							12.5	4.2	16.7			62.5
NW		16.7	15.7						15.7		16.7			50.3
NNW									7.7		15.4			76.9
VARIABLE														
CALM	[illegible]	[illegible]	[illegible]						[illegible]	[illegible]	[illegible]			[illegible]
TOTAL	71	70	19					5	238	52	269			1571
% TOTAL	3.1	3.1	.8					.2	10.5	2.3	11.9			69.6

TOTAL NUMBER OF OBSERVATIONS 2,256

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	MARCH	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N		6.5							3.2					90.3
NNE	5.6	5.6	2.8					5.6	2.8	2.8	8.3			69.4
NE		4.9							3.7	1.2	4.9			86.6
ENE		2.5							7.6	1.3	3.8			87.3
E	4.6	5.3	.8					.8	10.7	3.H	5.3			71.8
ESE	12.0	12.0						2.0	10.0	1.0	1.0			68.0
SE	13.1	5.4	.8					.8	4.6		3.8			73.1
SSE	9.3	10.5	1.2						8.1	2.3	3.5			69.8
S	7.4	6.3	.6						3.4	.6	7.4			77.8
SSW	2.3	2.9							2.3		6.3			87.4
SW	.7	2.6									11.1			85.6
WSW	.8	1.6							.8	.4	8.9			87.8
W	.4	4.0	.4						.9		10.6			84.1
WNW	5.6	8.3						2.8	8.3		13.9			72.2
NW											5.3			94.7
NNW	7.7	15.4							7.7		15.4			61.5
VARIABLE														
CALM	.9	1.3	.1						5.7	2.0	3.7			86.7
TOTAL	76	93	7					7	109	26	149			2049
% TOTAL	3.1	3.8	.3					.3	4.4	1.1	6.0			82.6

TOTAL NUMBER OF OBSERVATIONS 2,480

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

72118	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	APRIL	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N											9.1			90.9
NNE									19.0		4.8			76.2
NE	2.1								8.3		2.1			87.5
ENE	1.7	3.3	3.3						16.7	1.7	6.3			68.3
E	.9	2.7	.9						11.6		8.9			75.9
ESE	1.0	2.0	2.0					1.0	4.0	2.0	5.1			82.8
SE		4.8	1.0						2.9	1.9	8.6			82.9
SSE	2.3	2.3	2.3						7.0	2.3	9.3			76.7
S	1.0	4.0	1.0						2.0	2.5	10.4			80.6
SSW		2.2	.5						1.6	1.1	14.8			79.1
SW		1.1							1.1	.6	13.4			83.8
WSW		1.1							.7		17.0			81.6
W	1.7	1.7	.4						4.3		11.9			82.1
WNW		5.4									8.1			86.5
NW											6.7			93.3
NNW	12.5								12.5		25.0			62.5
VARIABLE														
CALM	.7	1.6	.1						7.8	1.8	8.6			80.2
TOTAL	18	47	13					1	122	28	259			1936
% TOTAL	.8	2.0	.5					.0	5.1	1.2	10.8			80.7

TOTAL NUMBER OF OBSERVATIONS 2,400

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	MAY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N									17.6		35.3			47.1
NNE										14.3	42.9			42.9
NE	9.1								9.1	9.1	9.1			63.6
ENE									17.6		11.8			70.6
E	1.6	1.6							7.9		23.8			68.3
ESE	1.5	1.5	2.9						10.3	2.9	11.8			70.6
SE	1.9		.9						9.7	2.7	13.3			73.5
SSE	1.8		.9						8.2	.9	14.5			74.5
S		.8	2.9						6.6	1.2	18.2			72.7
SSW			2.2						4.1	.7	17.1			77.3
SW		.4	2.2						3.9	.4	17.8			77.3
WSW		.8	1.4						3.7	.6	24.1			71.4
W	.4	.4	2.5						2.5	1.8	20.3			74.3
WNW											33.3			66.7
NW											31.6			68.4
NNW											20.0			80.0
VARIABLE														
CALM	.6	.3	1.4						16.0	1.7	18.3			62.2
TOTAL	12	12	56						198	32	449			1777
% TOTAL	.5	.5	2.3						8.0	1.3	18.1			71.7

TOTAL NUMBER OF OBSERVATIONS 2,479

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	JUNE	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N									27.5		36.4			36.4
NNE									28.6					71.4
NE									9.5	4.8	19.0			66.7
ENE			11.1						22.2	5.6	16.7			55.6
E			9.3						23.3		11.6			65.1
ESE	1.7								19.0		17.2			63.8
SE	1.4		2.9						20.0		22.9			55.7
SSE	1.2		4.9						15.9		22.0			58.5
S		.4	5.0						14.2	1.1	21.5			60.9
SSW			2.0						7.3		19.5			72.2
SW			2.0						3.0	2.0	22.4			71.6
WSW			1.0						1.3	.3	25.5			74.0
W		.3	.6						2.2	.6	34.6			61.7
WNW									5.1		33.3			59.0
NW			6.3						25.0		43.8			31.3
NNW											38.5			61.5
VARIABLE														
CALM	.4		1.3						21.4	1.4	15.1			62.3
TOTAL	4	2	48						270	21	525			1555
% TOTAL	.2	.1	2.0						11.3	.9	21.9			65.0

TOTAL NUMBER OF OBSERVATIONS 2,392

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

72114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	JULY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N									11.1		66.7			22.2
NNE									37.5		12.5			50.0
NE									45.5	9.1				45.5
ENE									28.6	7.1	28.6			35.7
E									30.0	2.0	14.0			54.0
ESE									23.4	4.3	19.1			53.2
SE									26.8		16.1			58.9
SSE									16.2		17.6			66.2
S			.9						14.9		16.3			68.8
SSW		.4	.9						5.4	.9	18.8			74.6
SW			.4						4.1		21.1			74.8
WSW									1.2	.5	24.6			73.8
W		.6	.3						3.4	1.4	31.2			62.3
WNW									12.5	2.1	41.7			43.8
NW											81.3			18.8
NNW			10.0						20.0		30.0			50.0
VARIABLE														
CALM		1	6					1	30.6	2.4	19.5			39.1
TOTAL		4	11					1	284	30	560			1602
% TOTAL		.2	.4					.0	11.5	1.2	22.6			64.6

TOTAL NUMBER OF OBSERVATIONS 2,480

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1992 (YEARS) AUGUST (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET * SHOWERS ICE CRYSTALS	SNOW * GRAINS * PELLETS * SNOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									25.0		12.5			62.5
NNE									16.7		50.0			33.3
NE									20.0	8.0	24.0			40.0
ENE								3.6	21.4	3.6	10.7			60.7
E									36.0		24.0			40.0
ESE	1.6								37.1		27.4			35.5
SE	2.3	2.3							18.6	4.7	18.6			58.1
SSE	4.2								12.5	2.8	31.9			50.0
S			1.0						10.3	2.0	19.6			68.1
SSW	.5		1.0						5.7	1.0	26.9			66.3
SW	.6		1.1						2.2		28.1			69.1
WSW		.2	.2						.9		32.9			65.9
W		.6							1.9	.8	32.2			65.3
WNW	2.9								2.9		52.9			41.2
NW									5.0		30.0			65.0
NNW		18.2							18.2		27.3			45.5
VARIABLE														
CALM		.1	.1					.1	30.6	2.6	30.6			38.9
TOTAL	8	7	8					2	281	36	655			1499
% TOTAL	.3	.3	.3					.1	11.3	1.5	26.4			60.5

TOTAL NUMBER OF OBSERVATIONS 2,477

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	SEPTEMBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N	10.5		10.5						36.8		36.8			26.3
NNE	14.3								14.3		42.9			42.9
NE										4.2	25.0			70.8
ENE			3.6						17.9	3.6	14.3			64.3
E			2.1						23.4	2.1	17.0			55.3
ESE	2.0		2.0						26.0	2.0	14.0			58.0
SE	4.4		1.5						23.5	2.9	14.7			57.4
SSE			4.5						29.5	2.3	15.9			52.3
S	1.6	1.1	1.1					.5	11.6	1.6	23.2			62.6
SSW	3.8	.6	1.9						6.3	1.3	21.9			68.1
SW			1.7						2.3		31.1			65.0
WSW	.3		.8					.3	1.1	.8	33.0			63.7
W	.3	.3	1.7					.7	3.5	.7	38.2			56.3
WNW		1.9	1.9					1.9	11.3	3.8	37.7			49.1
NW		3.8	3.8						19.2	3.8	19.2			57.7
NNW	4.2	4.2	4.2						20.8		50.0			29.8
VARIABLE														
CALM	.1	.2	1.0					.1	11.1	3.5	11.5			61.3
TOTAL	20	9	35					6	276	49	597			1452
% TOTAL	.8	.4	1.5					.3	11.5	2.0	24.9			60.5

TOTAL NUMBER OF OBSERVATIONS 2,400

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	OCTOBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N			3.1						3.1	3.1	37.5			56.3
NNE			7.7						25.6	5.1	10.3			59.0
NE			1.0						14.5	1.4	13.0			71.0
ENE			6.3						25.0	2.5	10.0			62.5
E	3.3		3.3					2.2	34.4	3.3	17.8			41.1
ESE	2.7		2.7						24.7	1.4	11.0			60.3
SE	7.2	2.9							18.8	2.9	17.4			52.2
SSE	1.9	1.9	1.9					1.9	18.5		14.8			61.1
S	.8	.8	1.5						13.5	.8	24.1			60.9
SSW		.8							5.6	.8	38.9			54.8
SW		.7							4.2	1.4	35.1			57.6
WSW	.3	.7	.3						2.4	.3	36.5			60.5
W	.8	.8							1.7	.8	31.5			65.1
WNW		1.7							3.3		36.7			58.3
NW									4.5		13.6			81.8
NNW									25.0		43.8			31.3
VARIABLE														
CALM	.1	.4	.9						31.9	3.0	35.4			60.0
TOTAL	16	15	27					3	367	38	570			1479
% TOTAL	.6	.6	1.1					.1	14.8	1.5	23.0			59.6

TOTAL NUMBER OF OBSERVATIONS 2,480

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

23114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	NOVEMBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N			3.7						14.8		14.8			70.4
NNE		5.6							11.1		5.6			77.8
NE	1.1								11.1	1.1	7.8			78.9
ENE		.8	.8						9.9	.8	12.4			76.0
E	1.0	1.0							16.3	3.1	11.2			68.4
ESE	2.9	4.3	1.4						18.8	1.4	8.7			65.2
SE	9.5	2.7						1.4	13.5		16.2			59.5
SSE	3.6	7.1	1.8						10.7	1.8	8.9			69.6
S	3.7	1.2							7.3	2.4	8.5			76.0
SSW	2.9		1.4						7.2		20.3			71.0
SW	1.1										34.9			60.9
WSW	.5	.5							.5		35.5			60.1
W	.4	1.2							2.0		27.6			68.3
WNW		1.9							3.7		22.2			72.2
NW	5.6	5.6							5.6		16.7			66.7
NNW	4.8								14.3	4.8	19.0			57.1
VARIABLE														
CALM	.3	.6	.3					.1	18.3	1.3	15.6			61.0
TOTAL	26	27	8					2	250	45	410			1630
% TOTAL	1.1	1.1	.3					.1	10.4	1.9	17.1			67.9

TOTAL NUMBER OF OBSERVATIONS 2,400

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1982 (YEARS) DECEMBER (MONTH) ALL (HOURS OBSERVED)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.3	3.3							10.0	3.3	6.7			76.7
NNE	1.8	1.8							3.5	5.3	17.5			70.2
NE	1.5	1.5							11.2	6.7	4.5		.7	74.6
ENE		.7	1.5						11.9	6.7	5.9			74.8
E	.7	2.6	1.3					.7	20.4	3.9	7.2		.7	65.1
ESE	10.6	4.8							16.2	3.0	6.1			62.1
SE	5.3	1.3							24.0		10.7			64.0
SSE	9.1	11.4							20.5		15.9			50.0
S	3.4	5.6	1.1						12.4	2.2	10.1			69.7
SSW	4.3	1.4							8.6		30.0			60.0
SW		1.2	1.2						3.6		38.6			57.8
WSW	.7	1.4							1.4		39.3			57.2
W	1.1	.5	.5						3.8		32.1			60.3
WNW									4.1		28.6			67.3
NW	5.0										25.0			70.0
NNW	4.3	4.3							4.3		8.7			73.3
VARIABLE														
CALM	.5	.4	.8						32.8	1.2	36.8			36.1
TOTAL	37	33	16					1	394	68	443		2	1514
% TOTAL	1.5	1.3	.6					.0	15.9	2.7	17.9		.1	61.1

TOTAL NUMBER OF OBSERVATIONS 2,477

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	ALL	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

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 SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.6	1.9	1.5						12.1	2.6	16.6			66.0
NNE	2.2	2.2	1.6					.5	9.8	3.0	9.8			72.4
NE	1.4	1.4	.3					.1	9.6	2.7	7.5		.3	77.5
ENE	1.1	1.1	1.8					.1	13.7	3.0	7.8			74.1
E	2.2	2.8	1.2					.5	17.9	2.3	10.5		.1	65.0
ESE	6.1	4.0	1.4					.3	17.1	1.7	10.4			62.4
SE	6.8	3.7	.9					.2	13.7	1.4	11.3			65.1
SSE	4.2	5.0	1.7					.2	12.7	1.3	13.1			65.0
S	2.3	2.4	1.9					.1	9.3	1.2	15.7			69.8
SSW	1.8	1.2	1.2						4.9	.7	19.9			72.0
SW	.4	.7	1.0					.1	2.9	.5	23.5			71.6
WSW	.3	.7	.4					.0	1.5	.4	26.8			70.2
W	.6	1.1	.6					.2	2.5	.7	27.0			68.0
WNW	1.3	2.3	.6					.4	5.2	.8	28.9			62.4
NW	1.4	1.4	1.4						6.8	.9	25.5			65.5
NNW	2.7	3.3	1.1						12.1	.5	25.3			57.7
VARIABLE														
CALM	.3	.5	.8					.0	3.3	.5	11.8			86.0
TOTAL	395	393	272					31	3009	497	5142		3	19849
% TOTAL	1.4	1.3	.9					.1	10.3	1.7	17.6		.0	68.0

TOTAL NUMBER OF OBSERVATIONS 29,202

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:D. Federal Building
eville, N. C.

\RT B PRECIPITATION, SNOWFALL & SNOW DEPTH

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

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

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

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

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

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

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

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION
(FROM DAILY OBSERVATIONS)

92114 SANTA ANA, CALIFORNIA 45-47, 53, 63, 67-81
STATION STATION NAME YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	7[illegible].8	7.1	2.6	3.8	2.0	3.4	4.6	3.2	2.2	.2				22.2	496	2.55	7.86	.00
FEB	72.2	6.9	1.7	1.9	1.4	5.4	5.0	4.2	1.4					21.J	424	2.31	7.23	.01
MAR	72.4	6.7	1.4	4.6	1.8	4.2	4.0	4.4	.4					21.0	496	2.01	5.54	TRACE
APR	78.2	7.1	1.8	3.5	2.4	3.5	1.4	.8	.4					13.7	510	.69	4.05	TRACE
MAY	78.6	14.9	1.2	3.1	.5	1.2	.3		.2					6.5	589	.24	2.59	TRACE
JUN	81.4	15.4	.5	2.3	.2		.2							3.2	570	.05	.46	TRACE
JUL	93.7	4.9	.2	.7	.2	.3								1.4	589	.03	.18	.00
AUG	92.7	5.6		.2	.4	.2	.2	.4	.2					1.6	496	.18	1.74	.00
SEP	84.1	10.8	.8	1.6	1.4	.6	.2		.6					5.1	510	.38	1.95	TRACE
OCT	81.6	12.0	1.3	1.3	.9	1.9	.9							6.5	527	.23	.64	TRACE
NOV	81.7	6.5	1.2	2.3	1.0	1.7	2.9	1.5	1.2					11.9	480	1.15	4.27	.00
DEC	77.2	6.9	1.0	3.0	2.0	3.4	2.6	3.2	.6					15.9	496	1.57	3.80	.26
ANNUAL	[illegible].5	8.7	1.1	2.4	1.2	2.1	1.9	1.5	.6	.0				10.8	6183	11.39		

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOWFALL
(FROM DAILY OBSERVATIONS)

93114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
45-47, 53, 63, 67-81 — YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	99.8	.2													496	TRACE	TRACE	.0
FEB	100.0														424	.0	.0	.0
MAR	100.0														527	.0	.0	.0
APR	100.0														480	.0	.0	.0
MAY	100.0														589	.0	.0	.0
JUN	100.0														540	.0	.0	.0
JUL	100.0														558	.0	.0	.0
AUG	100.0														496	.0	.0	.0
SEP	100.0														480	.0	.0	.0
OCT	100.0														527	.0	.0	.0
NOV	100.0														450	.0	.0	.0
DEC	100.0														465	.0	.0	.0
ANNUAL	100.0	.0													6032	.0		

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOW DEPTH (FROM DAILY OBSERVATIONS)

72114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 45-47, 53, 63, 67-81 (YEARS)

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														496			
FEB	100.0														396			
MAR	100.0														465			
APR	100.0														450			
MAY	100.0														496			
JUN	100.0														480			
JUL	100.0														558			
AUG	100.0														465			
SEP	100.0														450			
OCT	100.0														527			
NOV	100.0														420			
DEC	100.0														434			
ANNUAL	100.0														5637			

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

93114 STATION | SANTA ANA, CALIFORNIA STATION NAME | 45-47, 52-53, 63, 67-82 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				.01	TRACE	TRACE	TRACE	.30	.06	.25	.26	2.32	
46	.11	.22	.82	.28	.01	TRACE	.00		.09	.23	1.10	.93	
47	.18	.38	.07	.06	.17	.02	.00						
51													
52													
53					.01								
63						.04	.00	.11	1.25	.35			
67			.75	1.31	.03	TRACE	.00	.00	.25	TRACE	1.10	.69	
68	.36	.45	.67		.13	TRACE	.06	.00	TRACE	.28	.37	.55	
69	1.56	2.16	.39	.39	.05	TRACE	.04	.00					
70	.65			TRACE	TRACE	.03	TRACE	.00	TRACE	TRACE	.85	.82	
71	.87	.17	.16	.37	.23	.05	TRACE	.00	TRACE	.07	.08	.85	.87
72	TRACE	.01	TRACE	.04	.03	.04	.00	.54	.03	.12	1.28	.61	1.28
73	1.09	.97	.62	.03	.05	.01	TRACE	TRACE	TRACE	.03	.90	.19	1.09
74	1.12	.35	.94	.21	.14	.07	TRACE	TRACE	TRACE	.17	.03	1.70	1.70
75	.36	.56	.93	1.28	.13	TRACE	TRACE	TRACE	TRACE	.16	.36	.21	1.28
76	.00	.62	.71	.51	.09	.45	TRACE	TRACE	1.62	.01	.42	.43	1.62
77	1.09	.67	.41	TRACE	1.97	.02	.18	1.16	TRACE	TRACE	.05	.64	1.97
78	1.37	.91	1.52	.54	.08	TRACE	.14		1.72	.01	.72	.56	
79	1.32	.54	1.53	.02	TRACE	TRACE	TRACE	.09	TRACE	.30	.46	.17	1.53
80	2.56	2.20	.96	.06	.21	TRACE	TRACE	TRACE	TRACE	TRACE	.00	.45	2.56
81	.67	.47	.81	.20	.04	TRACE	TRACE	TRACE	.02	.31	1.12	.57	1.12
82													
MEAN	.93	.71	.70	.31	.17	.04	.02	.14	.30	.13	.54	.73	1.50
S.D.	.691	.650	.441	.410	.441	.102	.052	.310	.599	.130	.438	.588	.495
TOTAL OBS.	496	424	496	510	589	570	589	496	510	527	480	496	6183

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

93110 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 45-47, 52-53, 63, 67-82 (YEARS)

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46								.00 30					PRECIP DAYS
51											0	0	PRECIP DAYS
52	0	0					TRACE 29						PRECIP DAYS
63											2.27 27		PRECIP DAYS
68				.00 9									PRECIP DAYS
69									TRACE 17		.07 17	.02 30	PRECIP DAYS
70		1.17 27	1.00 29										PRECIP DAYS
79								.01 30					PRECIP DAYS
82	.81 15	.50 19	.08 6	.85 25	.01 11	TRACE 14	.00 22	.00 6	1.52 22	.09 14	3.10 11	.56 25	PRECIP DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 65-67, 52-53, 63, 67-82 (YEARS)

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
65					.0	.0	.0		.0	.0	.0	.0	
66	.0	.0	.0	.0	.0			.0		.0			
67	.0		.0	.0	.0	.0	.2						
51													
52													
53					.1								
63						.0	.0	.0	.0	.0			
67			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
68	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0	.0	
69	.0	.0	.0	.0	.0	.0	.0	.0					
70	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
73	.1	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0
74	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	TRACE
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
77	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0
78	.0	.0	.0	.0	.1	.0	.0		.0	.0	.0	.1	
79	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
80	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
82													
MEAN	TRACE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S.D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	496	424	527	480	589	590	554	496	480	527	450	465	6232

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
93114	SANTA ANA, CALIFORNIA	45-47, 52-53, 63, 67-82

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP	OCT.	NOV.	DEC.	ALL MONTHS
45				0				0					SNOFALL DAYS
46						0	.0 28		.0 29		.0 29	.0 30	SNOFALL DAYS
47		0											SNOFALL DAYS
51											0	0	SNOFALL DAYS
52	0	0					.0 28						SNOFALL DAYS
63											.0 27		SNOFALL DAYS
68				.0 9									SNOFALL DAYS
69									.0 17		.0 17	.0 30	SNOFALL DAYS
78								.0 30					SNOFALL DAYS
82	.0 15	.0 19	.0 6	.0 25	.0 11	.0 14	.0 22	.0 6	.0 22	.0 14	TRACE 11	.0 25	SNOFALL DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

93114	SANTA ANA, CALIFORNIA	45-47, 52-53, 63, 67-82
STATION	STATION NAME	YEARS

DAILY SNOW DEPTH IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SPP.	OCT.	NOV.	DEC.	ALL MONTHS
85							0			0			
86	0									0			
87	0			0			0						
51													
52													
53					0								
63						0	0	0	0	0			
67			0	0	0	0	0	0	0	0	0	0	
68	0	0	0		0	0	0	0	0	0	0	0	
69	0	0	0	0	0	0	0	0					
70	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0	0	0	0
82													
MEAN	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S.D.	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS	496	396	465	450	496	480	558	465	450	527	420	434	5637

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

23114	SANTA ANA, CALIFORNIA	45-47, 52-53, 63, 67-82
STATION	STATION NAME	YEARS

DAILY SNOW DEPTH IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0	0	1		0	0		0	0	SNO DPTH DAYS
46		0	1	0	0	0	1	0	1		0	0	SNO DPTH DAYS
47		0	0		1	0							SNO DPTH DAYS
51											0	0	SNO DPTH DAYS
52	0	0					28						SNO DPTH DAYS
63											27		SNO DPTH DAYS
68				9									SNO DPTH DAYS
69									17		17	30	SNO DPTH DAYS
79								30					SNO DPTH DAYS
82	15	19	6	25	11	14	22	6	22	14	11	25	SNO DPTH DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

STATION: SANTA ANA, CALIFORNIA — STATION NAME
YEARS: 1946-1987 1952-1952 9999-9999

JANUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.41	10	1982			
2	0.87	22	1971			
3	0.51	13	1978			
4	1.37	35	1978	T	T	1976
5	1.32	34	1979			
6	1.09	28	1977			
7	1.12	28	1976			
8	0.50	13	1974			
9	1.04	26	1980			
10	0.58	15	1978			
11	1.80	46	1990			
12	0.30	8	1980			
13	0.60	15	1969			
14	0.89	23	1978			
15	0.27	7	1979			
16	1.14	29	1978			
17	0.16	4	1976			
18	0.70	18	1973			
19	0.96	24	1978			
20	0.43	11	1969			
21	0.48	12	1969			
22	0.14	4	1969			
23	0.08	2	1969			
24	1.27	32	1969			
25	1.58	40	1969			
26	0.28	7	1969			
27	0.36	9	1968			
28	2.56	65	1980			
29	0.46	12	1981			
30	1.06	27	1979			
31	0.45	11	1979			
Monthly	2.56	65	1980	T	T	1976

FEBRUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.36	9	1979			
2	0.30	8	1979			
3	0.56	14	1975			
4	0.17	4	1975			
5	0.75	19	1978			
6	0.79	20	1973			
7	0.69	18	1978			
8	0.63	16	1978			
9	0.91	23	1978			
10	1.17	30	1970			
11	0.97	25	1973			
12	0.66	17	1978			
13	2.20	56	1980			
14	0.72	18	1980			
15	0.29	7	1980			
16	1.15	29	1980			
17	1.11	28	1980			
18	0.39	10	1980			
19	0.23	6	1980			
20	0.91	23	1980			
21	0.33	8	1979			
22	0.36	9	1969			
23	2.16	55	1969			
24	1.72	44	1969			
25	1.12	28	1969			
26	T	T	1979*			
27	0.31	8	1973			
28	0.78	20	1978			
29	T	T	1976			
30						
31						
Monthly	2.20	56	1980			

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

DIRNAVOCEANMET–SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

STATION	STATION NAME	YEARS
	SANTA ANA, CALIFORNIA	1945-1947 1952-1952 9999-9999

MARCH (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.97	25	1978			
2	0.88	22	1980			
3	0.44	11	1980			
4	1.52	39	1978			
5	0.60	15	1981			
6	0.96	24	1980			
7	0.94	24	1978			
8	0.91	23	1975			
9	0.32	8	1978			
10	0.59	15	1975			
11	0.39	10	1973			
12	0.13	3	1967			
13	0.39	10	1975			
14	0.04	1	1967			
15	0.31	8	1945			
16	0.17	4	1977			
17	0.62	16	1945			
18	0.04	1	1979			
19	0.69	18	1979			
20	0.62	16	1973			
21	0.39	10	1969			
22	0.32	8	1975			
23	0.49	12	1945			
24	0.06	2	1977			
25	0.41	10	1977			
26	0.11	3	1945			
27	1.53	39	1979			
28	0.59	15	1979			
29	0.04	1	1979			
30	0.92	23	1946			
31	0.70	18	1978*			
Monthly	1.53	39	1979			

APRIL (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.85	22	1982			
2	0.28	7	1946			
3	0.26	7	1976			
4	0.22	6	1976			
5	0.35	9	1969			
6	0.58	14	1978			
7	0.12	3	1978			
8	1.28	33	1975			
9	0.10	3	1969			
10	0.06	2	1969			
11	0.37	9	1967			
12	0.51	13	1976			
13	0.12	3	1976			
14	0.37	9	1971			
15	0.35	9	1978			
16	0.23	6	1975			
17	0.08	2	1975			
18	0.66	17	1967			
19	1.31	33	1967			
20	0.03	1	1967			
21	0.27	7	1967			
22	0.15	4	1967			
23	0.08	2	1980			
24	0.17	4	1967			
25	0.14	4	1975			
26	0.01		1980			
27	T	T	1973*			
28	0.17	4	1967			
29	0.03	1	1973			
30	0.01		1973			
31						
Monthly	1.31	33	1967			

* 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: SANTA ANA, CALIFORNIA — STATION NAME
YEARS: 1945-1947 1952-1953 9999-9999

MAY — MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.08	2	1978			
2						
3	T	T	1971*			
4	0.01		1967			
5	0.14*	4	1978			
6	0.06	2	1971			
7	0.03	1	1976			
8	1.97	50	1977			
9	0.30	8	1977			
10	0.21	5	1980			
11	T	T	1973*			
12	0.12	3	1968			
13	T	T	1973*			
14	0.05	1	1973			
15	0.01		1953			
16	T	T	1981*			
17	T	T	1973*			
18	T	T	1973*			
19	0.03	1	1972			
20	0.12	3	1975			
21	0.04*	1	1968			
22	T	T	1982*			
23	0.02	1	1977*			
24	0.26	7	1977			
25	T	T	1982*			
26	0.04*	1	1981			
27	0.12	3	1971			
28	0.23	6	1971			
29	T	T	1981*			
30	0.02	1	1947			
31	0.02	1	1973			
Monthly	1.97	50	1977			

JUNE — MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.01		1973			
2	0.02	1	1947			
3	T	T	1976*			
4	T	T	1979*			
5	0.03	1	1972			
6	0.03	1	1972			
7	0.07	2	1978			
8	0.03	1	1972			
9	0.05	1	1971			
10	0.43	11	1976			
11	0.04	1	1963			
12	T	T	1975*			
13	0.03	1	1970			
14	T	T	1982*			
15	T	T	1969			
16	T	T	1975*			
17	T	T	1963			
18	T	T	1980*			
19	T	T	1975			
20	0.03	1	1972			
21	T	T	1963*			
22	0.01		1972			
23	T	T	1972*			
24	T	T	1975*			
25	T	T	1977*			
26	T	T	1968			
27	T	T	1967			
28	T	T	1980*			
29						
30	T	T	1973			
31						
Monthly	0.43	11	1976			

* 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 | SANTA ANA, CALIFORNIA (STATION NAME) | 1945-1947 1952-1953 9999-9999 (YEARS)

JULY (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1980			
2	T	T	1980*			
3						
4	T	T	1977			
5						
6	0.02	1	1969			
7	0.03	1	1968			
8	T	T	1975			
9						
10	T	T	1974			
11	0.04	1	1969			
12						
13	T	T	1979*			
14	T	T	1974*			
15	0.18	5	1977			
16	T	T	1977			
17						
18	T	T	1952			
19	T	T	1974			
20	T	T	1979			
21	T	T	1981			
22	T	T	1976*			
23						
24	0.14	4	1978			
25	T	T	1979*			
26						
27	0.01		1968			
28	0.05	2	1968			
29	0.02	1	1968			
30						
31						
Monthly	0.18	5	1977			

AUGUST (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4	T	T	1973			
5	T	T	1979*			
6	T	T	1979			
7	0.11	3	1963			
8	T	T	1974			
9						
10						
11	0.09	2	1979			
12	0.54	14	1972			
13	T	T	1980*			
14						
15	T	T	1976			
16	0.52	13	1977			
17	1.16	29	1977			
18	0.30	8	1985			
19	T	T	1979			
20	T	T	1973			
21	0.02	1	1985			
22						
23						
24	T	T	1975			
25						
26	T	T	1972			
27	T	T	1980*			
28						
29	T	T	1979*			
30						
31						
Monthly	1.16	29	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: SANTA ANA, CALIFORNIA — STATION NAME
YEARS: 1945-1947 1952-1953 9999-9999

SEPTEMBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.20	5	1967			
2	T	T	1973*			
3	0.04	1	1976			
4	0.45	11	1963			
5	1.72	44	1978			
6	0.08	2	1978			
7	0.02	1	1976			
8	1.52	39	1982			
9	0.07	2	1976			
10	1.62	41	1976			
11	0.08	2	1976			
12	T	T	1980*			
13	0.03	1	1978			
14	0.09	2	1978			
15	0.08	2	1982			
16	0.02	1	1982			
17	1.25	32	1963			
18	0.24	6	1963			
19	T	T	1967*			
20	T	T	1968*			
21						
22	T	T	1973			
23	T	T	1980			
24	T	T	1980*			
25	T	T	1977			
26	T	T	1977*			
27	0.02	1	1967			
28	0.25	6	1967			
29	0.02	1	1946			
30	0.09	2	1946			
31						
Monthly	1.72	44	1978			

OCTOBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.31	8	1981			
2	T	T	1981*			
3	0.02	1	1968			
4						
5						
6	0.08	2	1975			
7	0.12	3	1975			
8	0.03	1	1973			
9	0.01		1968			
10	T	T	1976			
11	0.07	2	1975			
12						
13	T	T	1978*			
14	T	T	1980*			
15	T	T	1978*			
16	0.29	7	1963			
17	T	T	1977*			
18	0.35	9	1963			
19	0.12	3	1979			
20	0.30	8	1979			
21	T	T	1976*			
22	T	T	1968			
23	T	T	1973*			
24	T	T	1982*			
25	T	T	1982			
26	0.09	2	1982			
27	0.18	5	1946			
28	0.16	4	1974			
29	0.25	6	1945			
30	0.28	7	1968			
31	0.03	1	1982			
Monthly	0.35	9	1963			

* 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 | SANTA ANA, CALIFORNIA (STATION NAME) | 1945-1947 1951-1953 9999-9999 (YEARS)

NOVEMBER (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.03	1	1974			
2						
3	T	T	1979*			
4	T	T	1975			
5	T	T	1977			
6	0.19	5	1963			
7	0.46	12	1979			
8	0.41	10	1946			
9	3.10	79	1982	T	T	1982
10	0.50	13	1982			
11	0.42	11	1976			
12	1.02	26	1946			
13	0.72	18	1978			
14	1.28	33	1972			
15	0.63	16	1963			
16	1.01	26	1972			
17	0.32	8	1973			
18	0.40	10	1973			
19	0.58	15	1967			
20	2.27	58	1963			
21	1.10	28	1967			
22	0.34	9	1973			
23	0.55	14	1946			
24	T	T	1981*			
25	0.14	4	1970			
26	0.20	5	1981			
27	0.62	16	1981			
28	1.12	28	1981			
29	0.80	20	1970			
30	0.40	10	1967			
31						
Monthly	3.10	79	1982	T	T	1982

DECEMBER (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.08	2	1973			
2	0.25	6	1971			
3	0.16	4	1971			
4	1.70	43	1974			
5	0.01		1946			
6	0.16	4	1972			
7	0.24	6	1972			
8	0.42	11	1972			
9	0.06	2	1970			
10	T	T	1982			
11	0.15	4	1968			
12	0.06	2	1975			
13	T	T	1973*			
14	T	T	1973*			
15	T	T	1968			
16	0.32	8	1978			
17	0.56	14	1978			
18	0.69	18	1967			
19	0.82	21	1970			
20	0.21	5	1975			
21	0.61	15	1970			
22	2.32	59	1945			
23	0.08	2	1971			
24	0.85	22	1971			
25	0.93	24	1946			
26	0.64	16	1977			
27	0.78	20	1971			
28	1.44	37	1974			
29	0.57	14	1974			
30	0.57	14	1981			
31	0.43	11	1976			
Monthly	2.32	59	1945			

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

DIRNAVOCEANMET–SMOS

CD, Federal Building
neville, N. C.

ART C SURFACE WINDS

sented in this part are various tabulations of surface winds as follows:

Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

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 Beaufort classifications. 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 these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

a. 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

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

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

3114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
45-47, 52-53, 63, 67-82 — YEARS

DAILY PEAK GUSTS IN KNOTS (MPH 1949-1955)

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				W 33	SW 29	SSW 24	SW 22	W 27	NE 40	NE 29	NE 28	S 32	
46	NE 57		W 41	W 20	24	SW 20	SW 20	W 24	NW 20	WSW 23	NE 52	NE 59	
47	51	SE 22	NE 36	NE 38	SE 24	SW 24	SW 20						
51													
52							W 23						
53					ENE 47								
63						WSW 28	SW 26	WSW 26	SE 23	24	ENE 38		
67			34	SSE 32	W 34	NW 27	SSW 26	W 31	SW 27	NE 32	29	NE 41	
68	WSW 29	W 18	W 36		SW 24	S 22	SW 23	SW 24	SE 30	NE 31	28	E 34	
69	S 43	S 43	NW 34	W 26	SW 19	W 22	SSW 24	W 20				NE 34	
70			NE 34	NNE 32	W 23	SE 25	SW 22	SW 20	NE 32	E 24	NE 40	S 24	
71	E 30	18 28	04	27 33	25 21	22 24	25 23	23 20	27 21	04 24		07 36	
72	07 39	05 25	31 25	13 28	20 25			22 24	23 23	05 37	27 44	05 45	
73	05 49	17 39	25 29	31 45	27 26	25 27	16 27	13 22	07 28	18 26	30 32	09 34	05 49
74	05 43	06 50	20 26	27 39	27 23	24 28	25 22	23 21	20 21	27 38	07 27	05 52	05 52
75	06 48	04 31	03 36	26 26	21 24	24 20	27 21	24 19	25 20	24 29	27 32	06 30	06 44
76	12 23	18 25	24 36	27 29	22 23	26 21	25 20	22 20	21 22	06 40	07 55	06 39	07 55
77	24 34	08 23	31 37	26 20	15 33	26 22	25 20	25 19	22 20	27 19	25 22	08 25	31 37
78	09 29	17 44	16 37	22 26	07 29	25 21	26 19	25 20	06 32	04 32	25 27	02 27	17 44
79	22 45	22 30	17 23	25 27	25 23	27 23	24 20	26 18	26 16	05 25	04 24	01 39	22 45
80	17 31	12 39	27 35		26 23	34 24	22 21	27 21	19 18		04 41	08 21	
81	07 28	36 21			19 21	05 29	19 19	23 20	25 18	05 35	24 23	27 22	
82													
MEAN	38.3	30.6	34.0	30.4	25.3	23.5	22.0	22.0	24.2	29.3	33.9	36.7	27.1
S.D.	10.229	9.645	5.692	6.926	5.344	2.813	2.404	3.378	6.386	6.105	10.112	10.337	5.872
TOTAL OBS.	456	394	493	447	586	539	586	552	506	493	472	525	6051

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

[illegible] SANTA ANA, CALIFORNIA 65-67, 52-53, 63, 67-82
STATION STATION NAME YEARS

DAILY PEAK GUSTS IN KNOTS (NPR 1949-1965)
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
66		5[illegible] 05 21											WINDS DAYS
67											0	0	WINDS DAYS
52	0	0											WINDS DAYS
68				[illegible] 29 0									WINDS DAYS
69									5[illegible] 14 17		N[illegible] 31 17		WINDS DAYS
70	E 21[illegible]E 53 15 22												WINDS DAYS
71											23 20 12		WINDS DAYS
72						0[illegible] 22 8	27 25 20						WINDS DAYS
80				0[illegible] 33 19						[illegible]8 26 25			WINDS DAYS
81			2[illegible] 20 16	29 20 15									WINDS DAYS
82	05 3[illegible] 15	0[illegible] 33 18	06 23 6	30 [illegible]22 25	20 1[illegible] 11	20 20 14	24 18 22	2[illegible] 16 5	21 17 21	26 20 13	25 36 10	21 [illegible] 25	WINDS DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

01 — 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	.6	1.0										1.6	4.0
NNE	1.9	1.0			.3							3.2	4.4
NE	6.5	1.6	.6	.3	.3	.3	.3					10.0	3.5
ENE	3.6	1.6	.3		.3	.3						6.1	3.3
E	3.5	.3										3.8	2.2
ESE	2.3	1.3										3.6	2.8
SE	1.9	1.3	.6	.3								3.2	3.7
SSE	1.9	1.9	1.									4.9	4.5
S	1.3	.3		.3	.3							2.3	6.6
SSW	.6	.3	.3									1.3	5.0
SW	.3	.3										.6	3.0
WSW			.3									.3	8.0
W	1.3	.6	.3									1.9	4.2
WNW	.6											.6	1.0
NW													
NNW	1.6	.3										1.9	2.8
VARBL													
CALM												32.8	
	28.8	12.0	3.6	1.0	1.3	.6	.3					100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

04
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	2.5	1.0		.3								3.7	3.5
NNE	3.5	1.6	.3									5.5	3.5
NE	3.7	2.3	.7	.3	1.3							8.1	6.2
ENE	3.5	1.3	.3	.3			.3					5.5	5.1
E	3.9	1.6										5.5	2.7
ESE	1.9	1.6	.3	.3								4.2	4.0
SE	1.9	2.9	1.0									5.8	4.1
SSE	2.3	.6	.3									3.2	3.2
S	1.3	.6										1.9	3.0
SSW				.3	.3							.4	14.5
SW													
WSW	.3											.3	2.0
W	.6	.3	.3									1.3	4.3
WNW													
NW	.3	.3										.6	2.5
NNW	.3											.3	2.0
VARBL													
CALM												53.2	
	26.3	13.9	2.9	1.6	1.6		.3					100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

07
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	1.0	.3										1.3	2.5
NNE	3.2	.6	.3									4.2	3.1
NE	5.2	1.6		.6	.6	.3						8.4	5.4
ENE	3.2	1.3	.6	.3								5.5	4.5
E	4.8	1.9	.6									7.4	3.4
ESE	2.9	1.6	.3									4.8	3.3
SE	1.3	1.9	1.0	.6								4.8	5.9
SSE	1.0	.3										1.3	3.3
S	.3	.3	.3									1.0	5.0
SSW													
SW													
WSW	1.0		1.0									1.9	6.2
W	.6											.6	2.5
WNW	.3	.6	.3									1.3	5.0
NW		.6	.3									1.0	6.0
NNW													
VARBL													
CALM												56.5	
	24.8	11.3	4.8	1.6	.6	.3						100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

10
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	1.0		.3									1.3	3.3
NNE	1.3	.6	.3	.3								2.6	4.9
NE	1.3	.3	1.0	1.0		.6						4.2	9.5
ENE	1.6	.3	.3	.6		.3						3.2	7.5
E	4.2	.6	.3	1.3								6.5	4.4
ESE	1.9	1.9	1.9	.3								6.1	5.5
SE	3.5	1.6	1.3	.3								6.8	4.5
SSE	1.9	1.0	1.9	.6	.3							5.8	6.5
S	.6	1.3	.6	.3								2.9	6.1
SSW	.3	1.0	.3	.6								2.3	7.3
SW				.3	.3							.6	15.0
WSW	.3	.6			.3							1.3	7.5
W	3.2	3.2	1.0		.3							7.7	5.0
WNW	1.9	1.3										3.2	3.6
NW	.3	.3	.3	.3								1.3	6.8
NNW	1.3											1.3	1.8
VARBL													
CALM												42.9	
	24.8	14.2	9.7	6.1	1.3	1.0						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

13
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	.6	1.0		.3								1.9	5.2
NNE	.3	.3	.3	.3								1.3	7.0
NE	.3	.6	.3	1.3	1.3							3.9	11.8
ENE	.6	.3	.3	1.0	.3							2.6	10.3
E	.3	1.0	.3									1.6	5.4
ESE		1.0	.3	.3								1.6	7.2
SE	.6		2.3									2.9	7.2
SSE	.3	2.6	1.3	.3	.3							4.8	7.4
S	1.9	3.5	2.6		.3							8.4	5.7
SSW	2.6	3.2	1.3	.3								7.4	4.8
SW	2.3	4.5	1.3									8.1	4.8
WSW	3.2	7.4	3.2	.6	1.0							15.5	6.0
W	6.5	6.8	3.9	1.6								18.7	5.6
WNW	1.3	3.9	1.6									6.8	5.0
NW	1.0	1.0	.6									2.6	5.1
NNW		1.0										1.0	5.3
VARBL													
CALM												11.0	
	21.9	38.1	19.7	6.1	3.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

92114	SANTA ANA, CALIFORNIA	73-92	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

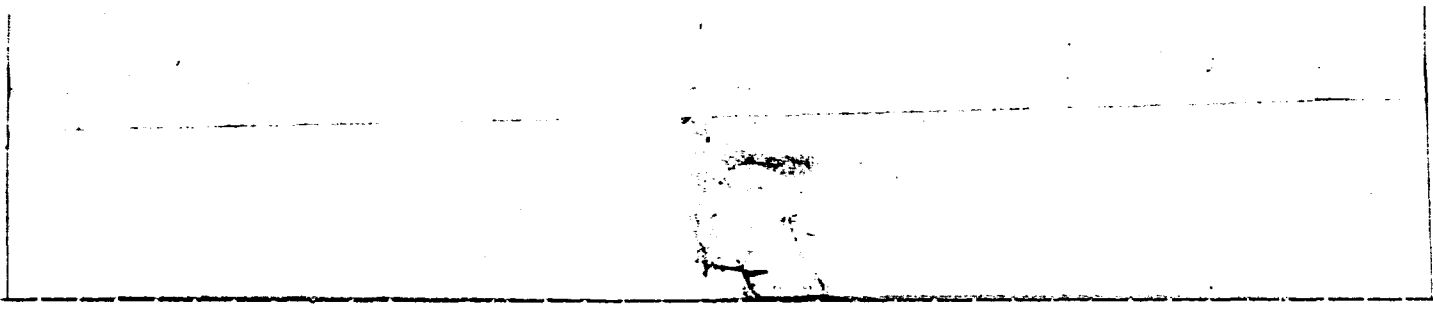
16
HOURS (L.S.T.)

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		.6										.6	5.0
NNE	.3			.3								.6	7.5
NE		1.0	1.0	1.0		.3	.3					3.5	12.9
ENE	.6		1.0		.3							1.9	8.2
E	.3	.3	.3									1.0	4.7
ESE	.3	.6		.3								1.3	6.5
SE		1.0	1.6	.3								2.9	7.8
SSE	.6	1.0	.3	.3	.3							2.6	6.6
S	1.3	3.5	2.3									7.1	5.5
SSW	1.3	6.8	4.8	.3								13.2	6.1
SW	4.2	5.2	5.8									15.2	5.6
WSW	2.5	10.6	8.7	.3	.3							22.6	6.3
W	2.9	9.7	7.4	1.9	.3							22.3	6.6
WNW	.3	.3	.6									1.3	6.5
NW	.3		.3									.6	6.5
NNW		.3	.3									.6	5.5
VARBL													
CALM												2.6	
	15.2	41.0	34.5	4.8	1.3	.3	.3					100.0	6.3

TOTAL NUMBER OF OSSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
3114	SANTA ANA, CALIFORNIA	73-82	JAN

CLASS: ALL WEATHER

HOURS (L.S.T.): 19

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		.3										.3	5.0
NNE	.6	1.0	.3									1.9	4.7
NE	1.3	1.3	.3	1.6								4.5	6.9
ENE	4.5	1.9		.3								6.8	3.4
E	5.5	1.9	.3	.3								8.1	3.5
ESE	2.6	1.9	.6	.6								5.8	5.0
SE	2.6	1.9	.3	.3								5.2	4.4
SSE	1.3	1.9	.6	.3								4.2	5.1
S	5.8	.6		.3								6.8	3.0
SSW	1.9	.3	1.0									3.2	4.5
SW	1.9											1.9	1.7
WSW	1.0	1.0			.3							2.3	5.9
W	3.5	1.9	1.0	1.0								7.4	4.9
WNW	1.0	.3										1.3	2.3
NW	.6		.3	.3								1.3	6.5
NNW	1.3	.3			.3							1.9	5.2
VARBL													
CALM												37.1	
	35.5	16.8	4.8	5.2	.6							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

22
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	1.0	.6										1.6	3.0
NNE	1.3	.3	1.0									2.6	5.1
NE	5.5	1.0	.6	.6	.3	.5						8.7	5.8
ENE	7.4	1.6		.6								9.7	3.3
E	5.5	.3										5.8	2.1
ESE	2.3	1.6	.3									4.2	4.1
SE	2.9	1.0	.6	.3	.3							5.2	4.9
SSE	1.0	1.3										2.3	3.6
S	1.3	.3	.6	.3								2.6	5.3
SSW		.6										.6	4.5
SW	.3	.3										.6	4.0
WSW		1.3	.3									1.6	5.6
W	1.3	1.0										2.3	3.4
WNW	.6	.3	.3									1.3	4.3
NW													
NNW	.6	.3										1.0	3.0
VARBL													
CALM												50.0	
	31.0	11.9	3.9	1.9	.6	.6						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

47114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

ALL
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	.8	.6	.0	.1								1.6	3.7
NNE	1.6	.7	.3	.1	.0							2.7	4.3
NE	3.0	1.2	.5	.8	.5	.3	.1					6.4	7.1
ENE	3.1	1.0	.4	.4	.1	.1	.0					5.2	5.0
E	3.6	1.0	.2	.2								5.2	3.2
ESE	1.8	1.5	.5	.2								4.0	4.5
SE	1.7	1.5	1.1	.3	.0							4.6	5.3
SSE	1.3	1.3	.7	.2	.1							3.6	5.4
S	1.7	1.3	.8	.2	.1							4.1	5.0
SSW	.8	1.5	1.0	.2	.0							3.6	5.8
SW	1.1	1.3	.9	.0	.0							3.4	5.2
WSW	1.0	2.6	1.7	.1	.2							5.7	6.2
W	2.5	2.9	1.7	.6	.1							7.8	5.6
WNW	.9	.8	.4									2.0	4.4
NW	.3	.3	.2	.1								.9	5.7
NNW	.6	.3	.0		.0							1.0	3.7
VARBL													
CALM												38.2	
	26.1	19.9	10.5	3.5	1.3	.4	.1					100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 2479

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7114	SANTA ANA, CALIFORNIA	73-82	FEB

CLASS: ALL WEATHER

HOURS (L.S.T.): 01

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	.4	.4									1.6	3.4
NNE	3.5	.4	.4									4.3	2.8
NE	2.5	1.1	.4	.4								4.3	4.2
ENE	5.7	3.2	.7	.7								10.3	4.0
E	3.9	1.1										5.0	2.7
ESE	1.8	1.4	1.1									4.6	4.4
SE		1.8	.7	.4								2.8	7.0
SSE	.4	1.8		.7								2.8	6.6
S	1.4			.4				.4				2.1	10.0
SSW		.7		.4								1.1	7.0
SW	1.4		.4									1.8	3.6
WSW		.4	1.1									1.4	7.5
W	1.4	.7	.4									2.5	4.0
WNW		.4	.4									.7	6.5
NW	.4											.4	1.0
NNW		.4										.4	6.0
VARBL													
CALM												53.9	
	23.4	13.8	5.7	2.8				.4				100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

23114 — STATION | SANTA ANA, CALIFORNIA — STATION NAME | 73-82 — YEARS | FEB — MONTH

ALL WEATHER — CLASS

04 — 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	1.1	.4		.7								2.1	6.3
NNE	2.8	1.4	.4									4.5	3.4
NE	5.7	.7		.4								6.7	3.1
ENE	7.4	2.5	.4	.4		.4						11.0	4.1
E	6.7	2.8										9.6	2.8
ESE	1.1	.7	.4									2.1	4.0
SE	1.8	1.8	.7									4.3	4.5
SSE	.4	1.8	.4	.7								3.2	6.8
S	.7		.4	.4	.4		.4					2.1	12.3
SSW			.4									.4	9.0
SW		.7										.7	4.0
WSW		.4	.4									.7	8.5
W	.4	.4	.7									1.4	5.3
WNW		.4										.4	.0
NW													
NNW	.4											.4	1.0
VARBL													
CALM												50.4	
	28.4	13.8	3.9	2.5	.4	.4	.4					100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME		MONTH

ALL WEATHER
CLASS

07
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	1.8											1.8	2.0
NNE	3.2	.4		.4								3.9	3.2
NE	3.5	1.8	.4		.4							6.0	3.9
ENE	5.0	2.1	.7	.7	.4	.4						9.2	5.6
E	5.3	2.5										7.8	3.0
ESE	3.2	2.8	.7	.4								7.1	4.3
SE	1.4	1.1	.7									3.2	4.2
SSE	1.1	.4	.7									2.1	4.2
S	.4	1.1	.7	.4								2.5	7.0
SSW	.7	.7										1.4	3.8
SW	.4											.4	1.0
WSW	.7	.4										1.1	3.0
W	.4	.7		.4								1.4	6.5
WNW													
NW			.4									.4	7.0
NNW	.4	.4										.7	4.5
VARBL													
CALM												51.1	
	27.3	14.2	4.3	2.1	.7	.4						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

10
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	.7			.4								1.1	5.3
NNE	.4	.4										.7	4.0
NE	.4		.7	1.4	.7		.4					3.5	14.0
ENE	1.4	.4		.4								2.1	4.3
E	1.1	1.1	.4			.4						2.8	6.6
ESE	1.8	2.8	1.1	.7								6.4	5.5
SE	2.5	1.4	2.5	.4								6.7	5.7
SSE	1.4	.7	.7	.7								3.5	6.0
S	4.3	3.5	2.1									9.9	4.5
SSW	2.8	1.4	1.4		.4							6.0	5.6
SW	.7	1.4	.4									2.5	4.4
WSW	1.1	3.2	1.4									5.7	5.1
W	6.4	3.2	.4	.4								10.3	3.6
WNW	1.1	1.8										2.8	3.1
NW	.4											.4	2.0
NNW	.7	.4										1.1	2.0
VARBL													
CALM												34.4	
	27.0	21.6	11.0	4.3	1.1	.4	.4					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

13
HOUR (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	.4	.4	.4	.7								1.[illegible]	8.0
NNE	.4	.4	1.1	1.1	.4							3.2	10.3
NE	.7		1.1	.4	.4							2.5	8.9
ENE	.4		.7	.4	.7							2.1	11.5
E	.4	.7	.7									1.[illegible]	6.0
ESE			.4									.4	8.0
SE	1.1	.4	.7	1.1								3.2	7.3
SSE	.4	.4	1.1	.4								2.1	8.2
S	1.1	5.7	3.9	1.4								11.4	7.3
SSW	1.[illegible]	3.6	3.2	.7								9.3	6.1
SW	1.4	4.6	4.3	.4								10.7	6.0
WSW	2.5	10.7	8.5	.7	.4							22.9	6.2
W	2.8	10.3	5.7	1.8								20.6	6.3
WNW	.4	.7	.7	.4								2.1	7.0
NW	.4											.4	2.0
NNW	.4	.7										1.1	3.7
VARBL													
CALM												4.5	
	14.2	37.7	32.4	9.3	1.8							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3116 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 16 (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	.7		1.1	.7	.4							2.8	9.0
ENE		.4	.7	.7								1.8	10.4
E	.4	.4		.4								1.1	6.0
ESE				.4								.4	12.0
SE		.7	.4	.7								1.8	8.6
SSE	.4	.7	1.1	.7	.4							3.2	9.0
S	1.8	3.5	3.5	1.1								9.9	6.3
SSW	2.5	5.3	4.6									12.4	5.8
SW	1.4	6.4	4.3	1.1								13.1	6.3
WSW	2.5	14.2	14.2	2.1								33.0	6.7
W	1.1	3.5	7.4	3.9								16.0	8.5
WNW		1.1	.4									1.4	5.0
NW													
NNW													
VARBL													
CALM												3.2	
	10.6	36.2	37.6	11.7	.7							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

2114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 19 (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	.7											.7	2.0
NNE		.4	.4	.4								1.1	9.3
NE	.7			.4								1.1	7.3
ENE	1.1	1.4		.4	.4							3.2	6.2
E	3.9	1.8	.7									6.4	3.4
ESE	1.1	1.4	.7	.4								3.5	5.1
SE	3.9	1.9	.4									6.0	3.2
SSE	2.8	3.2	.4	.4								6.7	4.2
S	9.6	3.9	.4	.4	.4							14.5	3.6
SSW	5.0	2.8	.4									8.2	3.5
SW	4.3	2.1	.4									6.7	3.2
WSW	2.8	3.9	.7									7.4	4.1
W	2.5	3.5	1.4	.4								7.8	5.4
WNW													
NW	.4											.4	1.0
NNW	.7											.7	2.0
VARBL													
CALM												25.5	
	39.4	26.2	5.7	2.5	.7							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

23114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

22
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	1.8											1.8	1.8
NNE	1.1	.7		.4								2.1	4.8
NE	2.8	.7	.7	.4	.4							5.0	5.1
ENE	3.5	1.1										4.6	2.7
E	4.6	4.3	1.1									9.9	3.6
ESE	1.1	2.5	.4	.7								4.6	5.1
SE	1.4	1.1	1.1	.8								3.9	5.9
SSE	1.8	1.1	.7									3.5	4.7
S	2.5	1.4	.8	.7								5.0	4.9
SSW	.7	1.1										1.8	3.6
SW	.4	.7										1.1	4.3
WSW	.7		1.1									1.8	5.2
W	1.8	.4										2.1	3.5
WNW	.4	.7										1.1	4.0
NW		.4										.4	5.0
NNW	.4											.4	2.0
VARBL													
CALM												51.1	
	24.8	16.0	5.3	2.5	.4							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) ALL (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	.9	.1	.1	.2								1.4	4.3
NNE	1.4	.5	.3	.3	.0							2.5	4.8
NE	2.1	.5	.5	.5	.3		.0					4.0	6.0
ENE	3.1	1.4	.8	.4	.2	.1						5.5	5.1
E	3.3	1.8	.4	.0		.0						5.5	3.5
ESE	1.2	1.5	.6	.3								3.6	4.9
SE	1.5	1.2	.9	.4								4.0	5.4
SSE	1.1	1.2	.6	.4	.0							3.4	5.9
S	2.7	2.3	1.4	.6	.1		.0	.0				7.2	5.8
SSW	1.7	2.0	1.2	.1	.0							5.1	5.3
SW	1.2	2.0	1.2	.2								4.6	5.2
WSW	1.3	4.1	3.4	.4	.0							9.2	6.1
W	2.1	2.8	2.0	.8								7.8	6.1
WNW	.2	.6	.2	.0								1.1	4.9
NW	.2	.0	.0									.3	3.0
NNW	.4	.2										.6	3.0
VARBL													
CALM												34.3	
	24.4	22.4	13.2	4.7	.7	.1	.1	.0				100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 2255

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114	SANTA ANA, CALIFORNIA	73-82	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

01
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	.6	.3	.3									1.3	4.0
NNE	1.0											1.0	1.0
NE	3.9	.6	.3	.3								5.2	3.4
ENE	3.2	.3										3.5	2.5
E	3.9	2.3	.3									6.5	3.1
ESE	2.9	3.5	.6	.3								7.4	4.7
SE	3.2	1.9	1.6									6.8	4.4
SSE	1.6	1.0	.3	.3	.3							3.5	5.7
S	1.3	1.3										2.6	3.4
SSW	.6	.3	.6									1.6	5.4
SW	.6			.3								1.0	5.0
WSW	.3	1.0										1.3	3.5
W	.3	1.0	.3									1.6	5.6
WNW													
NW		.3	.3									.6	6.5
NNW													
VARBL													
CALM												56.1	
	23.5	13.9	4.9	1.3	.3							100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

04
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	1.0			.3								1.3	4.5
NNE	1.9	2.3				.3						4.5	5.0
NE	3.9	1.0		.3								5.2	3.3
ENE	5.2	2.3	.3		.3							8.1	3.6
E	6.1	1.9	.6									8.7	3.0
ESE	2.6	2.3	.3									5.2	4.1
SE	1.9	2.9	1.0	1.0								6.8	5.7
SSE	1.0	.6		.3								1.9	5.7
S	1.6	.6										2.3	2.7
SSW	.6		.7	.3								1.3	6.8
SW													
WSW	.6	.3	.3									1.3	5.3
W	.6	1.0	.3	.3								2.3	5.9
WNW		.3										.3	4.0
NW													
NNW													
VARBL													
CALM												9.0	
	27.1	15.9	3.2	2.6	.3	.3						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

07
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	1.3	.6		.3								2.3	4.9
NNE	1.3			.3								1.6	4.4
NE	4.5	1.0		.6								6.1	3.9
ENE	4.2	1.0										5.2	2.2
E	9.7	2.3										11.7	2.5
ESE	4.5	1.3	.6									6.5	3.2
SE	.6	3.2	1.3	.3								5.5	5.7
SSE	2.3	.3		.3								2.9	3.3
S	.6	.3	.6									1.6	4.6
SSW	.6											.6	2.0
SW													
WSW	.3	1.0	1.3									2.6	5.6
W	.3	1.3	.3									1.6	5.0
WNW				.3								.3	15.0
NW	.3	.3										.6	3.0
NNW	.3	.3										.6	2.5
VARBL													
CALM												50.0	
	31.0	12.6	4.2	2.3								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

10
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	.3		.7	.3								1.0	8.0
NNE	1.0	.6		.3								1.9	4.5
NE	.3		.3	.3	1.0							1.9	13.0
ENE	1.0		.6		.3							1.9	7.0
E	3.9	1.9	.6									6.5	3.9
ESE	1.0	1.3	.3									2.6	4.6
SE	1.6	1.9	1.6	1.0								6.1	6.6
SSE	.6	1.9	1.9	1.0	.3							5.9	8.2
S	4.8	4.2	1.6	.6	.3							11.6	5.0
SSW	2.6	3.5	1.6									7.7	4.4
SW	2.3	3.2										5.5	3.5
WSW	1.9	3.5	2.3	.3	.3							8.4	6.2
W	4.5	3.2	3.2	.6	.3							11.9	5.6
WNW	1.3	.6		.3								2.3	4.0
NW	.6	.3				.3						1.3	7.8
NNW	.6	1.0										1.6	3.6
VARBL													
CALM												21.9	
	28.4	27.4	14.5	4.8	2.6	.3						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-02 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 13 (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		.3	.6	.3								1.2	8.0
NNE													
NE	.3		1.3	.6								2.3	9.6
ENE		.3		.3								.6	10.0
E		.3	.6									1.0	7.0
ESE		.3	.6									1.0	8.7
SE	.6	.6	.3	.6								2.3	6.3
SSE	.3		.6	.3		.3						1.6	11.0
S	1.6	4.2	2.6	2.6								11.0	7.2
SSW	1.0	5.5	8.1	1.9								16.5	7.4
SW	1.9	4.8	6.5	1.3								14.5	6.7
WSW	.6	6.8	11.3	3.2	.3	.3						22.3	8.5
W	2.6	4.5	9.4	1.9		.3						18.7	7.7
WNW	1.0	1.3	1.3	.3								3.9	6.3
NW		.6		.3								1.0	9.0
NNW													
VARBL													
CALM												2.3	
	10.0	29.4	43.2	13.9	.3	1.0						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 310

EMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
3114	SANTA ANA, CALIFORNIA	73-82	MAR

CLASS: ALL WEATHER

HOURS (L.S.T.): 16

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	4.7
NNE		.3										.3	6.0
NE	.3		.3	.3								1.0	9.3
ENE		.3	.3									.6	7.0
E	.3	.3	.3									1.0	5.3
ESE	.6	.3	.3									1.3	5.0
SE		.3	1.0									1.3	6.3
SSE			1.0	1.0								1.9	10.3
S	1.6	2.6	3.5	1.3								9.0	7.1
SSW	.3	3.9	10.6	1.3								16.1	7.7
SW	1.0	4.3	8.4	1.3								15.5	7.5
WSW	1.6	7.7	12.3	2.9	1.0							25.5	8.1
W	.3	4.8	9.7	5.5	1.0	.3						21.6	9.5
WNW	.3			.6								1.0	9.7
NW	.3		.0		.3							1.0	11.0
NNW	.6											.6	2.0
VARBL													
CALM												1.3	
	7.4	26.5	48.1	14.2	2.3	.3						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS: 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
511[illegible]	SANTA ANA, CALIFORNIA	73-82	MAR

CLASS: ALL WEATHER

HOURS (L.S.T.): 19

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		.6										.6	5.5
NNE	.3	.3	.3									1.0	5.3
NE	.3	.3	.3									1.0	5.0
ENE	.6	.3										1.0	3.0
E	1.3		.6	.3								2.3	5.0
ESE	.6	1.0	.3									1.9	4.3
SE	2.6	1.9	1.0	.3								5.9	4.5
SSE	1.9	1.9	.3	.3								4.5	4.6
S	7.7	4.5	.6		.3							13.2	3.8
SSW	2.9	7.4	.6	.3								11.3	4.7
SW	5.2	6.1	.3									11.6	3.8
WSW	2.6	8.7	3.2	.6								15.2	5.3
W	3.2	4.8	2.9	1.3								12.3	6.0
WNW	.6	.6	.6									1.9	5.3
NW	.3	.3		.3								1.0	6.0
NNW					.3							.3	18.0
VARBL													
CALM												15.2	
	30.3	39.9	11.3	3.5	.6							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 310

EMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
3114	SANTA ANA, CALIFORNIA	73-82	MAR

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 22

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		.3									1.3	3.8
NNE	.6	.3	.3									1.2	4.3
NE	1.6	1.0		1.0	.3							3.9	6.7
ENE	3.2	1.3										4.5	3.0
E	1.9	2.3	.3									4.5	3.5
ESE	3.9	3.2	.3									6.5	4.0
SE	3.9	2.9	.6									7.4	3.6
SSE	2.9	1.9	.6									5.5	3.8
S	2.3	2.3	.3	.6								5.5	4.4
SSW	.3	.6										1.0	3.3
SW	.3	1.3										1.6	4.3
WSW	1.6	1.3										2.9	3.7
W	1.6	.3	1.3									3.2	5.0
WNW	.6	1.0	.3									1.9	4.9
NW		.3	.3									.6	6.5
NNW	1.0											1.0	2.0
VARBL													
CALM												47.7	
	25.8	19.7	4.8	1.6	.3							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

CONDITION

ALL
HOURS (L.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	.5	.4	.2	.2								1.2	5.3
NNE	.8	.5	.1	.1		.0						1.5	4.5
NE	1.9	.5	.3	.4	.2							3.3	5.5
ENE	2.2	.7	.2	.0	.1							3.2	3.5
E	3.4	1.4	.4	.0								5.3	3.3
ESE	1.9	1.7	.4	.0								4.0	4.2
SE	1.6	2.0	1.0	.4								5.2	5.2
SSE	1.3	1.0	.6	.4	.1	.0						3.5	6.1
S	2.7	2.5	1.2	.6	.1							7.1	5.3
SSW	1.1	2.7	2.7	.5								7.0	6.3
SW	1.4	2.5	1.9	.4								6.2	5.8
WSW	1.2	3.7	3.8	.9	.2	.0						9.9	7.1
W	1.7	2.6	3.4	1.2	.2	.1						9.2	7.3
WNW	.5	.5	.3	.2								1.5	5.9
NW	.2	.3	.1	.1	.0	.0						.8	7.4
NNW	.3	.2			.0							.5	3.9
VARBL													
CALM												10.7	
	22.9	23.0	16.8	5.5	.8	.2						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 2480

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]7114	SANTA ANA, CALIFORNIA	73-82	APR

CLASS: ALL WEATHER

HOURS (L.S.T.): 01

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											.3	2.0
NNE	1.0	.3										1.3	2.3
NE	2.0	.7		.3								3.0	4.3
ENE	4.0	1.3										5.3	2.6
E	5.3	2.3										7.3	2.8
ESE	3.0	4.0	.3									7.3	3.5
SE	2.7	2.3	.3									5.3	3.7
SSE	.7	1.7	.7									3.0	4.7
S	2.3	2.0	.7									5.0	4.1
SSW	.3	.7	.3									1.3	5.3
SW	.7	.3										1.0	2.7
WSW	.7	.3	.3									1.3	4.3
W	.7	2.3		.3								3.0	5.6
WNW	.7	.3										1.0	3.3
NW	.3											.3	2.0
NNW													
VARBL													
CALM												54.3	
	24.3	16.3	2.7	.7								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS: 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

04 — 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	.7	.3										1.0	2.7
NNE	2.0	.3										2.3	2.6
NE	1.7	1.3	.3		.3							3.7	5.5
ENE	5.3	1.0										6.3	2.3
E	6.0	2.3										8.3	3.0
ESE	2.7	1.7	.3									4.7	3.7
SE	4.0	1.3	1.0									6.3	3.5
SSE	2.0	1.7	.7									4.3	3.8
S	.7	.7										1.3	3.3
SSW	.3											.3	2.0
SW	.7											.7	2.5
WSW	.3		.7									1.0	6.7
W	.7	1.3		.3								2.3	5.4
WNW		1.0										1.0	4.7
NW	.3											.3	3.0
NNW	.7											.7	2.5
VARBL													
CALM												55.3	
	26.0	13.0	3.0	.3	.3							100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

07
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	.3	.3				.3						1.0	10.3
NE	2.7						.3					3.0	5.1
ENE	3.3	.7	.3									4.3	3.0
E	7.0	3.0										10.0	2.8
ESE	4.0	3.7	.7									8.3	4.0
SE	3.7	4.0	.3									8.0	3.8
SSE	1.7	1.3	.3									3.3	3.6
S	1.7	.3			.3							2.3	5.0
SSW	2.3											2.3	2.4
SW	.7											.7	2.5
WSW	.7	.3	.7									1.7	5.2
W		.3	.7									1.0	6.0
WNW	.3	.3	.3									1.0	5.3
NW		.3										.3	5.0
NNW													
VARBL													
CALM												52.7	
	28.3	14.7	3.3		.3	.3	.3					100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114 (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | APR (MONTH)

ALL WEATHERS (CLASS) | 10 (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	1.0			.3								1.3	5.3
NNE	.3											.3	1.0
NE	.7		.3	.3	.3							1.7	9.4
ENE	.7				.3							1.0	8.0
E	2.3	.7	.3									3.3	3.4
ESE	1.7	.7	.7									3.0	4.0
SE	2.3	2.0	.3									4.7	3.7
SSE	1.3	3.0	.7	.3								5.3	4.9
S	3.7	4.3	2.0	.3								10.3	4.7
SSW	1.0	4.0	1.7	.7								7.3	6.0
SW	1.0	2.3	.3	.3								6.0	4.4
WSW	2.7	6.0	3.0									11.7	4.9
W	6.3	6.7	3.3	.3	.3							17.0	4.9
WNW	2.3	1.7	.7	.3								5.0	4.5
NW	.7	.3	.3									1.3	4.5
NNW	.7	.7										1.3	4.0
VARBL													
CALM												19.3	
	30.7	32.3	13.7	3.0	1.0							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

13
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				.3								.3	14.0
NNE			.3									.3	10.0
NE				.7		.3						1.0	17.7
ENE													
E	.7		.3									1.0	3.7
ESE		.3										.3	5.0
SE	.3			.3								.7	8.5
SSE	.3	.3	1.0	.7								2.3	8.6
S	.7	3.0	3.3	.7								7.7	6.9
SSW	.3	4.0	8.3	2.0								14.7	7.9
SW	.7	5.3	11.0	2.7								19.7	7.8
WSW	1.7	7.7	13.0	6.3	1.0							29.7	8.6
W	.3	4.7	11.3	2.3		.3						19.0	8.4
WNW	.3	.3	.3									1.0	5.3
NW					.3							.3	20.0
NNW													
VARBL													
CALM												2.0	
	5.3	25.7	49.0	16.0	1.3	.7						100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

23114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 16 (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				.7								.7	12.5
NE				.3	.3							.7	16.0
ENE	.3	.3										.7	4.5
E			.7									.7	9.0
ESE													
SE		.3										.3	5.0
SSE	.7			.3								1.0	5.3
S	.7	3.0	6.7	.3								10.7	6.9
SSW	.3	5.7	7.3	.7								14.0	7.0
SW		5.7	9.7	2.0								17.3	8.0
WSW	1.0	9.3	17.7	3.7	.3							32.0	7.9
W	.3	3.3	8.3	6.0	.3							18.3	9.4
WNW	.7	.3			.3							1.3	6.5
NW		.3				.3						.7	15.0
NNW	.3											.3	1.0
VARBL													
CALM												1.3	
	4.3	28.3	50.3	14.0	1.3	.3						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

19
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		.3	.3									.7	6.0
NNE		.3										.3	6.0
NE		.3		.3								.7	10.0
ENE		.3										.3	6.0
E	.7											.7	2.0
ESE	.3	.7	.3									1.3	5.0
SE	1.0	1.3	.3									2.7	4.1
SSE	1.3	2.0	.7									4.0	4.7
S	7.3	10.7	1.7									19.7	4.2
SSW	6.3	10.7	1.3									18.3	4.3
SW	5.0	4.3	2.3									11.7	4.2
WSW	4.0	7.0	3.3	.3	.3							15.0	5.2
W	2.7	6.7	3.3	.3	.7							13.7	6.1
WNW			.7	.3								1.0	9.3
NW	.3	.3	.3		.3							1.3	8.0
NNW													
VARBL													
CALM												8.7	
	29.0	45.3	14.7	1.3	1.3							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 22 (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	.7											.7	2.0
NE	1.0	.7		.3	.3							2.3	6.4
ENE	1.0	.7	.3									2.0	4.0
E	4.7	1.3										6.0	2.6
ESE	5.3	2.7										8.0	3.1
SE	3.0	3.0	1.0									7.0	4.0
SSE	2.3	2.0	1.0									5.3	4.3
S	5.7	3.7	.7									10.0	3.4
SSW	1.3	.7	.3									2.3	3.7
SW	1.3	1.0	.3									2.7	3.8
WSW	1.0	.7	.3									2.0	4.3
W	1.3	1.7	1.0									4.0	5.0
WNW	.7	.3										1.0	3.3
NW			.3									.3	10.0
NNW	.3											.3	2.0
VARBL													
CALM												46.0	
	29.7	18.3	5.3	.3	.3							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

CONDITION

ALL
HOURS (L.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	.2	.1	.0	.1								.5	5.2
NNE	.5	.2	.0	.1		.0						.9	5.0
NE	1.0	.4	.1	.3	.2	.0	.0					2.0	7.1
ENE	1.0	.5	.1		.0							2.5	3.1
E	3.3	1.2	.2									4.7	3.0
ESE	2.1	1.7	.3									4.1	3.7
SE	2.1	1.8	.4	.0								4.4	3.9
SSE	1.3	1.5	.6	.2								3.6	4.7
S	2.8	3.5	1.9	.2	.0							8.4	4.9
SSW	1.5	3.2	2.4	.4								7.6	5.9
SW	1.5	2.4	3.0	.6								7.5	6.4
WSW	1.5	3.9	4.9	1.3	.2							11.8	7.1
W	1.8	3.3	3.5	1.2	.2	.0						9.8	7.1
WNW	.6	.5	.2	.1	.0							1.5	5.1
NW	.2	.2	.1		.1	.0						.6	8.0
NNW	.2	.1										.3	3.0
VARBL													
CALM												29.9	
	22.5	24.5	17.7	4.5	.7	.2	.0					100.3	3.9

TOTAL NUMBER OF OBSERVATIONS 2400

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

01
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	.6											.6	1.5
NNE		.3										.3	4.0
NE	.6	.3										1.0	2.0
ENE	1.3											1.3	2.3
E	4.2	.6	.3									5.3	2.7
ESE	1.3	1.3	.6									3.2	4.4
SE	2.9	1.9	.6									5.5	3.9
SSE	3.9	3.2	.3									7.4	3.7
S	5.5	3.2	.6									9.4	3.4
SSW	2.3	.6										2.9	2.6
SW	1.9	.6										2.6	2.9
WSW	1.3	1.3	.3									2.9	4.2
W	1.0	1.6	.3									2.9	4.3
WNW		.6										.6	4.5
NW													
NNW	.3											.3	2.0
VARBL													
CALM												53.2	
	27.7	15.8	3.2									100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

04
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	.3	.6										1.0	3.3
NNE	.6											.6	2.0
NE	1.0	.6										1.6	3.4
ENE	2.3	.3										2.6	2.5
E	2.6	1.3										3.9	2.9
ESE	2.6	1.9	.3									4.8	3.9
SE	4.2	1.9	.4									6.5	3.2
SSE	1.3	2.3	.3									3.9	4.3
S	3.5	2.3										5.8	3.2
SSW	1.9	.6										2.6	3.1
SW	1.6	1.0										2.6	3.3
WSW	1.3	1.9	.3									3.5	5.8
W	.3	.6										1.0	3.7
WNW	.3	.3										.6	4.0
NW	.3											.3	3.0
NNW													
VARBL													
CALM												58.7	
	24.2	15.8	1.3									100.0	1.4

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

07
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	.3	.6										1.0	3.3
NNE	.3	.3										.6	3.5
NE	.3											.3	2.0
ENE	.3											.3	2.0
E	5.8	1.3	.3	.3								7.6	3.3
ESE	4.2	4.5										8.7	3.4
SE	4.9	4.9	2.9									12.6	4.5
SSE	3.2	2.6	.6									6.5	3.8
S	3.9	3.9	.3									8.1	4.0
SSW	1.6	.6										2.3	3.3
SW	1.0	.6	.6									2.3	4.6
WSW	3.2		.3									3.6	2.4
W	1.9	1.0	.3									3.2	3.6
WNW	.3	.6										1.0	4.3
NW		.3										.3	6.0
NNW		.3										.3	5.0
VARBL													
CALM												41.1	
	31.4	21.7	6.9	.3								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

14 — STATION — SANTA ANA, CALIFORNIA — STATION NAME — 73-82 — YEARS — MAY — MONTH

ALL WEATHER — CLASS — 17 — 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	.[illegible]	1.0	.3									1.[illegible]	4.0
NNE	.[illegible]											.3	3.0
NE													
ENE		.3										.3	5.0
E			.3	.3								.6	10.0
ESE	.5	.6	.3									1.6	4.6
SE	1.[illegible]	.3		.3								1.9	4.8
SSE	1.[illegible]	2.3	1.0									5.2	4.8
S	4.[illegible]	4.3	3.[illegible]									12.6	4.9
SSW	4.[illegible]	4.5	1.[illegible]	.6								11.3	5.0
SW	3.3	5.2	3.9	1.0								13.9	5.4
WSW	4.5	4.8	2.3									11.6	4.5
W	[illegible].2	[illegible].1	3.5	.3								17.1	4.8
WNW	1.[illegible]	2.[illegible]	.3									5.2	3.8
NW	1.6	1.0										2.6	2.8
NNW													
VARBL													
CALM												13.[illegible]	
	3[illegible].3	35.[illegible]	17.4	2.6								100.[illegible]	4.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
73-[illegible] — YEARS
MAY — MONTH

ALL WEATHER — CLASS
13 — 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		.3										.3	4.0
NE													
ENE	.3											.3	2.0
E													
ESE													
SE	.7	.3	.6	.3								1.9	6.9
SSE		.6	.3	.3								1.3	7.0
S		2.1	1.7	.6	.3							4.3	6.1
SSW	1.0	5.2	2.4	4.2	.3							20.0	8.1
SW	.6	4.2	3.1	2.3								15.2	7.9
WSW	1.3	4.3	13.0	1.6								20.6	7.4
W	1.3	7.7	9.4	3.5								22.1	7.5
WNW		.6	1.6									2.3	7.4
NW													
NNW													
VARBL													
CALM												1.3	
	5.3	31.6	40.7	12.7	.6							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114 — SANTA ANA, CALIFORNIA — 73-02 — MAY

(ATION / STATION NAME / YEARS / MONTH)

ALL WEATHER (CLASS)

16 (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	.3											.3	3.0
SSE			.7									.7	7.0
S		1.3	4.7	.3								6.1	7.5
SSW	1.3	4.0	13.9	2.3	.3							22.7	7.9
SW	1.7	5.9	7.4	1.9								16.3	7.2
WSW	.3	12.9	15.9	2.9								32.4	7.6
W	1.3	6.7	9.4	3.6								20.7	7.6
WNW													
NW													
NNW													
VARBL													
CALM												.6	
	5.7	31.7	51.1	11.0	.3							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITIONS

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	.4	.7										1.0	3.7
NNE													
NE													
ENE													
E													
ESE			.7	.3								.4	13.5
SE			.7									.7	10.0
SSE	.8	1.	1.0									2.1	5.6
S	2.6	11.3	1.9									15.8	4.9
SSW	2.6	10.6	4.9									18.1	5.2
SW	1.9	10.3	4.2									16.5	5.3
WSW	6.3	16.5	2.9									26.1	4.5
W	2.3	7.4	3.2									13.5	5.3
WNW	.3		.7									.4	5.5
NW	.7	.3	.6									1.3	6.8
NNW	.3											.3	2.0
VARBL													
CALM												3.2	
	19.0	57.7	19.7	.3								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

22 — 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	.4											.5	2.0
ENE	.4											.6	2.0
E	1.4	.5										2.3	2.4
ESE	1.8	1.1										2.9	3.2
SE	4.5	2.9	.7									7.8	3.4
SSE	4.2	3.5	.7									8.4	3.7
S	11.4	3.9	1.3									15.5	3.3
SSW	4.2	2.3	.3									6.8	3.1
SW	2.3	1.6										4.5	2.9
WSW	1.9	1.3										3.2	3.7
W	4.5	2.9	.7									8.1	3.5
WNW	.4	.5										1.3	3.0
NW	1.1	.3										1.6	2.6
NNW	.4											.6	2.0
VARBL													
CALM												35.6	
	39.8	22.9	2.6									100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114 — ATION
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
MAY — MONTH
ALL WEATHER — CLASS
ALL — 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	.4	.3	.1									.7	3.4
NNE	.2	.1										.3	3.1
NE	.3	.1										.4	2.6
ENE	.6	.1										.7	2.5
E	1.0	.5	.1	.1								2.5	3.2
ESE	1.3	1.2	.2	.0								2.7	3.9
SE	2.3	1.5	.4	.1								4.6	4.1
SSE	1.3	2.0	.5	.0								4.4	4.2
S	2.3	4.2	1.7	.1	.0							9.8	4.6
SSW	2.4	3.7	3.8	.9	.1							10.3	6.2
SW	2.0	3.6	2.0	.6								9.3	6.0
WSW	2.5	6.1	5.1	.6								14.3	6.0
W	2.4	4.5	3.3	.9								11.1	6.0
WNW	.4	.7	.3									1.5	4.6
NW	.4	.2	.1									.6	3.7
NNW	.3	.0										.2	2.5
VARBL													
CALM												25.9	
	22.9	28.9	18.8	3.4	.1							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 2477

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

14 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 01 (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	.3											.7	2.0
NNE													
NE	.7	.7		.7								1.7	4.6
ENE	1.7	.3										2.0	2.0
E	3.0											3.0	2.0
ESE	1.7	1.7										3.4	3.3
SE	2.3	1.0										3.4	2.6
SSE	3.4	.3										3.7	2.6
S	9.1	3.7										12.8	2.7
SSW	2.7	2.0										4.7	3.4
SW	1.7	1.7										3.0	3.4
WSW	.7	.3										.7	3.0
W	2.0	.7										2.7	2.8
WNW	.7											.7	1.0
NW	.7											.7	2.0
NNW	.3											.3	2.0
VARBL													
CALM												57.4	
	29.9	12.4		.3								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS 298

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114	SANTA ANA, CALIFORNIA	73-82	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

04
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	1.0											1.0	2.0
NNE	1.0											1.0	2.0
NE	1.7	.7	.3									2.7	3.8
ENE	1.0	.3										1.3	2.8
E	3.4	.7										4.0	2.7
ESE	3.4	1.7	.3									5.4	3.2
SE	2.0	2.0										4.0	3.4
SSE	2.7	1.3	.7									4.0	3.8
S	4.4	2.3	.3									7.0	3.0
SSW	1.3	1.7										3.0	3.4
SW	.7											.7	2.0
WSW	1.3	.3										1.7	2.4
W	.3	.3										.7	2.5
WNW	.3											.3	2.0
NW	.7											.7	2.0
NNW	.7											.7	2.0
VARBL													
CALM												41.7	
	25.2	11.4	1.7									100.0	1.2

TOTAL NUMBER OF OBSERVATIONS 299

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

214 (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | JUN (MONTH)

ALL WEATHER (CLASS) | 07 (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	.7	.7										.7	2.5
NNE	.7											.7	3.5
NE	1.7	.3										2.0	2.8
ENE	1.7											1.7	2.4
E	4.3	.7	.7									5.7	2.9
ESE	3.7	2.3										6.0	3.3
SE	3.7	3.0	.3									6.7	3.8
SSE	3.7	3.0	.3									6.7	3.4
S	5.7	2.7	.3									8.7	3.1
SSW	2.3	.7	.3									3.3	3.4
SW	1.0											1.0	2.7
WSW	1.0											1.0	2.7
W	1.7	1.7										3.3	3.2
WNW	.3	.3	.3									1.0	3.3
NW	.7	.3										1.0	2.3
NNW	.3	.7										1.0	3.3
VARBL													
CALM												50.0	
	31.7	16.0	2.3									100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

'114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS)

10 (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	1.0		.7									1.3	3.5
NNE				.3								.3	14.0
NE	.3											.3	2.0
ENE	.7											.7	1.3
E													
ESE	1.0											1.0	1.7
SE	1.3		.7									2.7	3.1
SSE	1.0	1.7	.7									3.3	3.8
S	4.7	6.0	.3									11.0	3.7
SSW	3.3	4.7	1.7									9.7	4.7
SW	1.3	6.3	1.7									9.3	5.2
WSW	3.3	9.0	3.3									15.7	5.2
W	6.7	15.3	4.7									26.3	4.9
WNW	3.7	2.3	.7									6.7	3.7
NW	.7	.3										1.0	3.3
NNW	.7	.7										1.3	3.3
VARBL													
CALM												10.3	
	30.0	46.3	13.3	.3								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	JUN

CLASS: ALL WEATHER

HOURS (L.S.T.): 1?

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			• ?									• ?	10.0
NE													
ENE	• ?		• ?									• ?	5.5
E													
ESE													
SE													
SSE			• ?									• ?	8.0
S	• ?	3.7	2.?	• 3								6.?	6.1
SSW	• ?	3.0	5.?	• 3								9.3	7.3
SW	1.0	?.0	7.?	1.3								?5.3	7.1
WSW	1.	?.?	19.?	2.?								?2.?	7.6
W	?.?	11.?	18.?	2.?								31.?	7.1
WNW		• ?	1.3									2.0	6.8
NW			• ?									• ?	8.?
NNW	• ?											• ?	3.?
VARBL													
CALM												• ?	
	5.?	13.?	54.?	6.?								100.0	7.2

TOTAL NUMBER OF OBSERVATIONS ???

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	JUN

CLASS: ALL WEATHER

HOURS (L.S.T.): 16

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			•									•	[illegible]
NNE													
NE													
ENE													
E			•									•	[illegible]
ESE	•											•	[illegible]
SE													
SSE	•		•									•	[illegible]
S		1 •	[illegible]	•								[illegible]	[illegible]
SSW	[illegible]	[illegible]	[illegible]	•								[illegible]	[illegible]
SW	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]
WSW	[illegible]	[illegible]	[illegible]	[illegible]		•						[illegible]	[illegible]
W	•	[illegible]	[illegible]	•		•						[illegible]	[illegible]
WNW		•	•									•	[illegible]
NW			•									•	[illegible]
NNW													
VARBL													
CALM												•	
	[illegible]	[illegible]	[illegible]	[illegible]		•						100.0	[illegible]

TOTAL NUMBER OF OBSERVATIONS: [illegible]

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] 114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
72-82 — YEARS
JUL — MONTH
ALL WEATHER — CLASS
17 — 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		.7										.3	6.0
SE		.7	.4									.7	6.5
SSE	.7	.7										1.3	3.5
S	1.7	9.4	1.7									12.4	4.8
SSW	3.7	9.7	5.0	.3								17.8	5.5
SW	4.4	8.7	2.7									16.8	4.8
WSW	4.1	11.1	5.	.3								32.0	5.0
W	3.0	9.1	3.7									14.8	5.9
WNW		.7										.8	4.6
NW		.7										.7	4.0
NNW	.7	.3										.7	3.3
VARBL													
CALM												1.7	
	17.8	61.7	18.1	.7								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 228

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	JUN

CLASS: ALL WEATHER

HOURS (L.S.T.): 22

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				.3								.3	16.0
ENE													
E	1.0	.3										1.3	3.5
ESE	2.7	.7										3.3	2.6
SE	3.7	2.7										6.4	3.3
SSE	4.7	2.3	.3									7.4	3.1
S	13.4	5.4	1.3									22.0	3.3
SSW	4.7	2.7	.7									8.1	3.7
SW	2.7	1.7										4.4	2.9
WSW	4.7	3.4										8.1	3.3
W	2.7	2.7	.3									5.7	3.6
WNW	1.0	.7										1.7	3.5
NW	.7											.7	2.0
NNW	.7											.3	1.5
VARBL													
CALM												15.3	
	43.0	23.0	2.3	.3								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS: 298

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114	SANTA ANA, CALIFORNIA	73-82	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

ALL — 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	.7	.6	.1									.4	3.3
NNE	.2		.2	.0								.3	5.1
NE	.4	.2	.4	.1								.7	4.2
ENE	.4	.1	.1									.6	2.6
E	1.1	.2	.1									1.4	2.6
ESE	1.6	.6	.2									2.4	3.1
SE	1.7	1.1	.1									2.9	3.4
SSE	1.9	1.2	.3									3.4	3.5
S	5.2	4.4	1.2	.1								10.9	3.9
SSW	2.3	3.6	2.5	.2								8.6	5.4
SW	1.7	4.1	2.3	.3								8.4	5.6
WSW	2.4	7.2	6.1	.6								16.4	6.2
W	2.2	5.4	4.6	.3		.0						13.5	5.9
WNW	.7	.5	.3									1.6	4.2
NW	.4	.2	.1									.7	3.6
NNW	.3	.2										.5	2.8
VARBL													
CALM												26.4	
	23.6	30.3	18.0	1.7		.0						100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 2392

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7116	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

01
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	.3											.3	2.0
NE	.7											.3	2.0
ENE	.7											.6	2.5
E	2.6	.3										2.9	2.2
ESE	1.9	.3										2.3	2.4
SE	3.9	2.3										5.2	3.3
SSE	4.2	1.9										6.1	2.9
S	7.4	1.9										10.3	2.4
SSW	3.9	.6										4.5	2.3
SW	2.3	.6										2.9	2.6
WSW	2.3	1.6										3.9	2.9
W	2.3	1.										3.2	2.9
WNW	1.9	.3										1.6	2.8
NW													
NNW	.3											.3	2.0
VARBL													
CALM												25.5	
	33.7	11.3										100.0	1.2

TOTAL NUMBER OF OBSERVATIONS 210

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

24 — 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	.5											.5	3.0
NNE	.3											.3	2.0
NE	1.1	.6										1.9	3.0
ENE	.3	.3										.6	3.5
E	3.2	1.3										4.5	2.8
ESE	3.2	1.0										4.2	2.5
SE	2.6	1.3										3.9	3.0
SSE	2.3	1.6										3.9	3.1
S	5.8	1.6										7.4	2.7
SSW	1.9	1.3										3.2	2.9
SW	1.3	.3										1.3	3.5
WSW	.6											.6	2.5
W	1.3	.6										1.9	2.5
WNW	.3											.3	2.0
NW	.3											.3	1.0
NNW	.3											.3	3.0
VARBL													
CALM												64.8	
	25.2	10.0										100.0	1.0

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
JUL — MONTH
ALL WEATHER — CLASS
07 — 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	1.[illegible]											1.6	2.2
NNE	1.0											1.0	1.7
NE	1.[illegible]	.3										1.[illegible]	2.5
ENE	1.5	1.[illegible]										2.6	2.8
E	4.5	.6										5.2	2.6
ESE	3.[illegible]	.5	.3									4.[illegible]	2.7
SE	1.9	2.3										4.2	3.4
SSE	4.2	1.[illegible]										5.2	2.8
S	5.2	1.3										6.5	2.5
SSW	2.9	1.0										3.5	2.8
SW		.[illegible]										.6	5.0
WSW	1.[illegible]	.3										1.6	2.6
W	3.9	.5										4.2	2.4
WNW	1.[illegible]											1.[illegible]	2.0
NW	.[illegible]											.[illegible]	2.0
NNW	1.0											1.0	2.3
VARBL													
CALM												54.5	
	35.[illegible]	9.4	.[illegible]									100.0	1.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

2114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 10 (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	.7	.3										1.0	3.3
NNE	.3	.3										.6	4.0
NE													
ENE		.3										.3	4.0
E	1.3	.3										1.6	2.6
ESE			.3									.3	8.0
SE	1.0											1.0	2.3
SSE	1.6	.3	.3									2.3	3.4
S	2.3	2.[illegible]	.6									5.8	3.8
SSW	1.3	1.3	1.[illegible]									3.5	4.8
SW	2.[illegible]	5.8	1.9									10.3	4.7
WSW	6.[illegible]	12.9	2.2									21.9	4.7
W	3.1	16.2	1.9	.3								25.5	4.4
WNW	3.2	2.3	.3									6.5	3.5
NW	1.6	1.9	.3									3.9	3.7
NNW	.6	.6										1.3	3.3
VARBL													
CALM												14.2	
	31.0	44.5	10.0	.3								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-92	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

13
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		.3										.3	5.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S		.6	1.3	.3								2.3	7.1
SSW	.4	3.5	4.8									9.0	6.8
SW	.3	4.2	12.6	1.6								18.7	7.7
WSW	.2	13.2	24.6	1.9								40.3	7.5
W	.4	8.1	17.7	1.6								28.1	7.8
WNW	.2	.3		.3								1.0	7.0
NW			.2									.3	8.0
NNW													
VARBL													
CALM												.2	
	2.3	31.0	61.6	5.2								100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 510

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITIONS

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		.6	1.3	.3								2.3	8.3
SSW	.3	5.8	5.2	1.6								12.9	7.3
SW	.6	9.7	9.1	1.6								20.0	6.9
WSW	.6	14.8	18.7	1.6								35.8	7.9
W	.6	10.3	14.2	1.0								26.1	7.2
WNW		.3	1.9									2.3	8.0
NW			.3									.3	7.0
NNW													
VARBL													
CALM												.3	
	2.3	41.6	49.7	6.1								100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

19 — HOURS (L.S.T.)

CONDITIONS

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	•											•3	3.0
ESE		•										•3	6.0
SE													
SSE	•6	•										1.3	4.3
S	2.6	8.1	2.0									13.5	5.0
SSW	2.6	11.9	3.5									18.1	5.2
SW	3.9	10.0	4.5									18.4	5.3
WSW	7.1	19.	2.3	.3								28.7	4.6
W	2.3	9.7	4.5									16.5	5.5
WNW		•3	•3									•6	6.5
NW													
NNW													
VARBL													
CALM												2.3	
	1 .4	6 .9	18.1	.3								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

22 — HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) / 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		•										•	4.0
E	1.3	• 3										1.6	2.8
ESE	1.	1.	•									3.2	.1
SE	1.	1.										3.9	3.4
SSE	3.	1.										5.	2.6
S	17.1	4.2										21.3	2.7
SSW	11.	5.	•									17.4	3.2
SW	3.	1.3	•									5.	3.2
WSW	2.	1.	•									4.	3.4
W	6.	1.										.4	3.
WNW	•	•										1.	2.5
NW													
NNW	•											•	3.0
VARBL													
CALM												26.	
	51.0	21.0	1.									1 0.	2.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) ALL (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	.3	.1										.4	2.7
NNE	.2	.1										.3	2.8
NE	.3	.1										.4	2.7
ENE	.3	.2										.5	3.0
E	1.7	.4										2.1	2.6
ESE	1.2	.5	.1									1.9	3.1
SE	1.3	1.1										2.3	3.2
SSE	2.1	.4	.1									3.3	3.0
S	5.2	2.7	.8	.1								8.7	3.5
SSW	3.1	3.3	1.9	.2								9.0	4.9
SW	1.3	4.2	3.1	.3								9.9	5.9
WSW	2.1	7.9	6.2	.5								17.2	6.0
W	3.2	5.3	4.8	.4								14.2	5.8
WNW	1.0	.5	.3	.0								1.9	4.1
NW	.7	.3	.1									.6	3.9
NNW	.3	.1										.4	2.8
VARBL													
CALM												27.3	
	25.0	28.5	17.7	1.5								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 2490

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	[illegible]ANTA A[illegible]A, CALIFORNI[illegible]	73-[illegible]2	AUG

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 01

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	[illegible]											[illegible]	2.0
NNE	[illegible]											[illegible]	3.0
NE	1.[illegible]											1.[illegible]	1.5
ENE	1.[illegible]											1.[illegible]	1.5
E	[illegible]											2.3	1.9
ESE	1.[illegible]	1.[illegible]										2.[illegible]	3.4
SE	1.[illegible]	1.[illegible]										3.2	3.2
SSE	2.[illegible]	1.[illegible]										4.5	2.9
S	[illegible].1	1.3	.3									7.7	2.7
SSW	1.[illegible]	.[illegible]										2.3	2.7
SW	.[illegible]	.[illegible]										1.[illegible]	3.3
WSW	[illegible].[illegible]	.6										2.[illegible]	2.3
W	2.[illegible]	.[illegible]										2.[illegible]	2.6
WNW	.[illegible]											.[illegible]	2.0
NW													
NNW		.[illegible]		.3								.6	[illegible].[illegible]
VARBL													
CALM												65.[illegible]	
	24.[illegible]	[illegible].7	.[illegible]	.3								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3116	SANTA ANA, CALIFORNIA	73-82	AUT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

04 — 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	1.0											1.0	2.3
NNE													
NE	1.0											1.3	2.3
ENE	1.9	1.0										2.9	2.7
E	4.2	.9										5.3	2.2
ESE	4.2	.6										5.0	2.3
SE	1.0											1.0	2.0
SSE	2.3	1.0										3.9	2.8
S	2.3	1.3	.3									3.9	3.3
SSW	2.3	.6										2.9	2.8
SW	.3	.6										1.0	3.3
WSW	.3											.3	2.5
W	1.3	.3										1.6	2.4
WNW													
NW													
NNW	1.0	.3										1.3	3.3
VARBL													
CALM												67.4	
	25.9	6.5	.3									100.0	.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | [illegible] (YEARS) | AUG (MONTH)

ALL WEATHER (CLASS) | 07 (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	.6											.6	2.0
NNE	1.3											1.3	2.3
NE	1.3	1.8										3.1	3.1
ENE	3.1	.6										4.2	2.6
E	4.1	.7										4.8	2.5
ESE	4.9	1.3										6.1	2.7
SE	1.3	1.3	.3									3.0	3.7
SSE	2.7	1.0										4.2	2.7
S	4.7	1.0										6.1	2.6
SSW	2.4	.3										2.9	2.2
SW	1.3											1.3	2.0
WSW	.7	.7										.7	3.5
W	1.7	1.3										2.9	3.2
WNW	.7	.3										.9	4.0
NW	.7											.3	2.0
NNW		.7										.7	5.0
VARBL													
CALM												54.4	
	34.6	10.7	.3									100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	72-82	AUG

CLASS: ALL WEATHER

HOURS (L.S.T.): 10

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	.3	.3										.6	3.5
NNE	.3											.3	1.0
NE	.6											.6	2.0
ENE		.3										.3	4.0
E	.3											.3	1.0
ESE	1.3											2.3	2.1
SE	1.3	.6										1.6	2.8
SSE	1.3	1.3	.3									3.5	3.4
S	1.3	2.3										4.5	3.1
SSW	2.6	2.3	.6									5.5	4.1
SW	1.3	3.9	.6									6.5	4.5
WSW	7.1	11.5	.6									19.4	4.0
W	9.4	12.3	3.2									24.8	4.3
WNW	1.9	3.9										5.3	4.0
NW	2.9	1.3										4.2	2.5
NNW	1.3											1.3	2.0
VARBL													
CALM												16.4	
	35.1	40.0	5.5									100.0	3.1

TOTAL NUMBER OF OBSERVATIONS: 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-[illegible]	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

13 — 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			•3									•3	9.0
SSE													
S		1.[illegible]	1.[illegible]									3.9	6.9
SSW		1.[illegible]	3.[illegible]	1.6								7.4	8.3
SW	1.[illegible]	7.4	6.[illegible]	.6								16.1	6.4
WSW	1.0	15.1	20.6	3.5								41.3	7.3
W		[illegible].7	17.4	1.6								28.7	7.6
WNW		.3	1.3									1.6	7.2
NW													
NNW													
VARBL													
CALM												.6	
	2.3	37.4	52.3	7.4								100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	AUG

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 16

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			• [illegible]									• 3	7.0
SSE		• [illegible]										• 3	4.0
S	1.[illegible]	1.[illegible]	2.[illegible]									4.5	6.2
SSW	• [illegible]	4.[illegible]	3.[illegible]	1.3								13.6	7.2
SW		6.[illegible]	7.7	• 3								14.3	6.9
WSW	1.[illegible]	15.[illegible]	20.[illegible]	1.6								38.4	6.9
W	• 6	9.7	19.7	1.[illegible]								30.0	7.2
WNW		• [illegible]										• 3	4.0
NW													
NNW													
VARBL													
CALM												1.[illegible]	
	[illegible].[illegible]	39.4	55.[illegible]	4.2								100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	72-82	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

12
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) I IR.	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		.9										.3	5.0
SE		.3	.3									.6	6.0
SSE	.6		.3									1.0	4.3
S	3.2	12.3	1.6									17.1	4.3
SSW	5.5	11.3	2.3									20.0	4.4
SW	4.2	7.7	1.0									12.9	4.2
WSW	4.1	19.2	3.9	.3								27.4	4.6
W	3.2	10.3	2.9									16.1	4.9
WNW		1.0	.3									1.3	5.3
NW													
NNW													
VARBL													
CALM												3.2	
	25.9	58.1	12.6	.3								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

22 — 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	.3											.3	2.0
NE	1.0											1.0	2.0
ENE		.3										.3	6.0
E	1.0	.3										1.3	2.5
ESE	1.6	1.0										2.6	3.0
SE	1.3	1.3	.3									2.9	3.6
SSE	3.9	1.6	.3									5.8	3.1
S	15.2	1.9	.3									18.1	2.7
SSW	7.1	4.2										11.3	3.1
SW	2.8	.3										3.9	2.5
WSW	4.8	1.6										6.5	2.7
W	1.2	8.8										10.0	3.4
WNW	.6	.3										1.0	3.0
NW	1.3											1.3	2.3
NNW													
VARBL													
CALM												13.2	
	48.1	17.7	1.3									100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	AUG

CLASS: ALL WEATHER
HOURS (L.S.T.): ALL
COMBT. JOB:

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	.2	.0										.3	2.5
NNE	.2											.2	2.2
NE	.4	.2										1.0	2.5
ENE	.4	.3										1.1	2.6
E	1.0	.3										2.0	2.3
ESE	1.0	.6										2.5	2.7
SE	.8	.7	.2									1.7	3.6
SSE	1.9	.9	.1									2.9	3.0
S	4.6	2.9	.6									8.2	3.6
SSW	2.8	3.2	1.8	.4								7.8	4.8
SW	1.6	3.4	2.0	.1								7.2	5.3
WSW	5.1	7.7	5.8	.7								17.1	5.9
W	3.6	6.1	5.3	.3								14.6	5.7
WNW	.4	.6	.2									1.0	4.5
NW	.6	.2										.8	2.4
NNW	.2	.1		.0								.4	4.0
VARBL													
CALM												10.5	
	25.1	27.2	15.7	1.5								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 2479

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	SEP

CLASS: ALL WEATHER

HOURS (L.S.T.): 01

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	.3											.3	2.0
NNE	.3											.7	2.0
NE	1.7		.3									1.7	3.4
ENE	1.3	.3										1.7	2.3
E	.7											.7	2.0
ESE	2.7	1.0										3.7	2.5
SE	1.3	1.3	.3	.3								5.3	3.8
SSE	1.0	.3										1.3	2.8
S	1.3	3.7										5.0	2.9
SSW	2.7	1.0										3.7	2.9
SW	1.3											1.3	1.5
WSW	1.3											1.3	2.0
W	1.7	.3										2.0	2.3
WNW	.7											.7	2.5
NW	1.7	.7										2.3	2.8
NNW	.7	.3										1.0	2.0
VARBL													
CALM												68.3	
	24.0	7.0	.7	.3								100.0	.9

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	SEP

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 04

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	1.7	.7										2.3	2.9
NNE													
NE	.7	.7		.3								1.7	5.2
ENE	1.3	.7										1.7	2.8
E	2.3	.3										2.7	2.4
ESE	3.3	1.7										5.0	2.7
SE	2.3	1.0										3.3	3.2
SSE	1.0	1.3	.7									3.0	4.1
S	3.7	1.3										5.0	2.9
SSW	1.7											1.7	2.2
SW	1.0											1.0	2.3
WSW	.7											.3	2.0
W	.7	.7										1.3	3.3
WNW	1.0	.3										1.3	2.8
NW	.7											.3	1.0
NNW	.3	.7										1.0	3.7
VARBL													
CALM												68.3	
	21.3	9.7	.3	.3								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITIONS

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	.7	.7									2.0	4.2
NNE	.7											.7	2.5
NE	1.0		.7	.3	.3							2.0	9.0
ENE	1.7	1.0										2.3	2.7
E	5.0	2.0										7.0	2.9
ESE	1.7	1.0	.3									3.0	3.9
SE	2.3	2.3										5.7	2.3
SSE	2.0	1.3										3.3	2.7
S	3.0	1.7										4.7	2.9
SSW	2.0	.3										2.3	2.9
SW	.7											.7	1.5
WSW	.7	.3										1.0	2.7
W	1.3											1.3	2.3
WNW	1.7											1.3	2.0
NW	.7	.3	.3									1.3	5.0
NNW	.7	.3										1.0	3.0
VARBL													
CALM												60.3	
	26.3	11.3	1.3	.3	.3							100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

10
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	.7		.3									1.0	4.7
NNE	.3											.3	2.0
NE	.7				.3							1.0	7.7
ENE				.7								.7	15.5
E	1.0											1.0	2.0
ESE	.7	.7	.3									1.7	4.0
SE	.3	1.7										2.0	3.7
SSE	1.3	.7										2.0	2.8
S	3.3	5.0										8.3	4.0
SSW	2.7	3.3	1.0	.3								7.3	4.8
SW	3.7	1.7	1.3									5.7	4.1
WSW	5.0	8.7	.7									14.3	4.1
W	14.7	6.7	.7									22.0	3.3
WNW	5.3	2.7										8.0	3.3
NW	2.0	.3										2.3	2.4
NNW	1.0	.7	.7									2.3	4.7
VARBL													
CALM												20.0	
	41.7	32.0	5.0	1.0	.3							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

13
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		.7										.3	6.0
ENE				.3	.3							.7	16.0
E													
ESE		.7										.3	6.0
SE													
SSE	.7	.3										.7	4.5
S		.7	1.0									1.7	6.8
SSW	.7	3.7	1.7	.7								6.7	6.4
SW	.7	5.3	8.7	1.0								15.3	7.3
WSW	.7	15.3	25.0	3.3								44.3	7.3
W	3.7	10.3	11.3	1.3								26.7	6.4
WNW		1.0	.3									1.3	5.5
NW													
NNW		.3										.3	5.0
VARBL													
CALM												1.7	
	5.7	37.7	48.0	6.7	.3							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

16
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	.3											.3	3.0
NE	.7											.3	3.0
ENE			.7	.7								.7	11.5
E													
ESE			.3									.3	7.5
SE	.7											.3	2.0
SSE			.7									.7	8.0
S	1.7	2.3	1.7	.3								5.3	6.1
SSW		3.3	6.3	.7								13.3	7.3
SW	3.0	11.7	7.3									21.0	5.9
WSW	1.3	17.0	15.3	.3								34.0	6.6
W	.3	9.3	12.7	1.0								22.3	7.2
WNW			.3									.3	5.0
NW	.7											.7	2.0
NNW													
VARBL													
CALM												.3	
	6.3	46.3	48.3	2.7								100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	SEP

CLASS: ALL WEATHER

HOURS (L.S.T.): 19

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	.3	.3										.7	2.5
NNE	.3											.3	2.0
NE				.3								.3	12.0
ENE													
E	.3											.3	2.0
ESE	.3											.3	3.0
SE	.3	.7	.3									1.3	4.8
SSE	.7	1.0	.7									2.3	5.0
S	9.3	9.3	.7	.3								19.3	4.0
SSW	4.7	9.0	1.3									15.0	4.1
SW	6.0	5.0	.7									11.7	3.7
WSW	11.3	8.0	1.0									20.3	3.6
W	6.0	7.3	1.3									14.7	4.1
WNW	1.0		.7									1.7	4.6
NW		.7										.7	5.5
NNW	.3	.3										.7	4.0
VARBL													
CALM												10.3	
	51.0	41.3	6.7	.7								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WIND

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

7214 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
SEP — MONTH
ALL WEATHER — CONDITION
22 — HOURS (L.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	•											•	1
NE	•											•	1
ENE	1.0	•	•									1.7	3
E	•	•										4.0	2
ESE	1.3	1.0										2.3	3
SE	3.3	2.0	•									4.7	3
SSE	1.0	•										1.7	2
S	10.7	3.3	•									14.0	2
SSW	2.7	•										3.3	2
SW	2.0	•										2.3	2
WSW	1.0	•										2.7	3
W	4.0	1.7										5.7	2
WNW	1.7	1.3										3.0	3
NW	1.0	•										1.3	3
NNW	•	1.0										1.7	3
VARBL													
CALM												51.0	
	34.3	13.7	1.0									100.0	1

TOTAL NUMBER OF OBSERVATIONS 7

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | SEP (MONTH)

ALL WEATHER (CLASS) | ALL (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	.5	.2	.1									.8	3.5
NNE	.3											.3	2.1
NE	.4	.1	.1	.1	.1							1.0	5.7
ENE	.6	.3	.1	.2	.0							1.2	5.4
E	1.6	.4										2.0	2.6
ESE	1.2	.7	.1									2.1	3.3
SE	1.7	1.1	.1	.0								2.8	3.5
SSE	.9	.7	.2									1.8	3.7
S	3.2	3.1	.5	.1								7.0	3.7
SSW	2.1	3.0	1.3	.2								6.7	5.0
SW	2.3	3.0	2.2	.1								7.4	5.3
WSW	2.4	6.2	5.2	.5								14.0	5.9
W	4.0	4.5	3.2	.3								12.0	5.1
WNW	1.4	.7	.2									2.2	3.5
NW	.7	.3	.0									1.1	3.2
NNW	.5	.5	.1									1.0	3.8
VARBL													
CALM												35.0	
	21.1	28.9	13.4	1.5	.1							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 2400

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-92 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 01 (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	.3											.3	1.0
NNE	1.9	.6										2.5	2.3
NE	1.3	.3	.6	.6								2.9	6.2
ENE	4.2	.6	.6									5.5	3.0
E	3.5	.6										4.2	2.5
ESE	2.6	1.3	.6									4.5	3.9
SE	1.9	.6										2.6	3.3
SSE	1.9	1.0	.3									3.2	3.8
S	3.2	.6										3.9	2.6
SSW	.3											.3	2.0
SW	.3											.3	2.0
WSW		1.0										1.0	5.7
W	.3	.3		.3								1.0	6.3
WNW	1.0											1.0	2.0
NW	1.0											1.3	1.3
NNW	.3											.3	1.0
VARBL													
CALM												65.5	
	24.2	7.1	2.3	1.0								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

23114	SANTA ANA, CALIFORNIA	73-82	OCT
STATION	STATION NAME	YEARS	MONTH
	ALL WEATHER		04
	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	1.3	.3										1.6	2.8
NNE	1.6											1.6	1.6
NE	4.2	1.0	.6	.3	.3							6.5	4.5
ENE	2.9	2.9	.3									6.1	3.3
E	1.2	1.3										4.5	2.9
ESE	2.9	1.0	1.0									4.8	3.5
SE	1.6	.6										2.2	2.9
SSE	1.3	1.0										2.3	3.3
S	1.5	.3										1.9	2.5
SSW	.6	.3										1.0	3.0
SW		.2										.6	5.5
WSW	.3	.3										.6	3.5
W	.3	.3	.3									1.0	5.0
WNW													
NW	.3											.3	2.0
NNW	.3	.3	.3									1.0	5.0
VARBL													
CALM												63.9	
	22.6	10.3	2.6	.3	.3							100.0	1.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114	SANTA ANA, CALIFORNIA	73-82	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER (CLASS)

07 (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	1.6	.6										2.3	2.4
NNE	2.9	.3										3.2	2.3
NE	3.9	.6	.3	1.0								5.8	4.7
ENE	3.5	1.6		.3	.3							5.9	3.8
E	4.5	1.9		.3								6.8	3.3
ESE	3.9	2.5	.6									7.1	3.8
SE	2.9	1.0	.6									4.5	3.6
SSE	.6	1.3										1.9	3.7
S	.3	.3										.6	3.0
SSW		.3	.3									1.0	6.0
SW	.3											.3	2.0
WSW													
W	.3		.3									.6	4.5
WNW	1.0	.6										1.6	2.8
NW													
NNW		.3										.3	4.0
VARBL													
CALM												56.1	
	25.8	11.9	2.3	1.6	.3							100.0	1.5

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 10 (HOUR (L.S.T.))

(DESCRIPTION)

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	1.9	1.0										2.9	3.0
NNE	.6		.3									1.0	4.0
NE	.6			1.3								1.9	8.7
ENE	.3	.3	.3	1.6		.3						2.6	12.0
E	1.6	.6		.3								2.5	4.3
ESE	.6	.3	.6									1.5	5.2
SE	1.0	1.6	.6	.3								3.5	4.9
SSE	1.6	.3	.3									2.3	3.3
S	4.8	3.2	.6									8.7	3.7
SSW	2.6	2.3										4.8	3.2
SW	4.5	2.3										6.8	3.0
WSW	4.5	4.8	1.0	.3								10.6	4.3
W	7.7	5.8	.3									13.9	3.4
WNW	4.2	3.5										7.7	3.3
NW	1.6	1.0										2.6	2.9
NNW	1.6	.3		.3								2.3	4.3
VARBL													
CALM												23.4	
	40.0	27.4	4.2	4.2		.3						100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

23114	SANTA ANA, CALIFORNIA	73-82	OCT
STATION	STATION NAME	YEARS	MONTH
	ALL WEATHER		13
	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		.3			.3							.6	13.0
NNE		1.0	.6			.3						1.9	9.6
NE			.3	1.3			.3					1.9	15.7
ENE		.3	.3		.3							1.0	11.3
E													
ESE													
SE				.3								.3	11.0
SSE	.3	.3										.6	6.5
S	.3	1.3	1.9	.3								3.9	7.3
SSW	.6	4.2	3.9	.3								9.0	6.7
SW	.6	5.8	6.5	.3								13.2	6.6
WSW	2.6	11.3	21.3	.6								35.8	7.1
W	1.0	8.4	13.2	1.6	.3							24.5	7.3
WNW	.3	1.6	1.3									3.2	6.0
NW	.3	.3	.3	.3								1.3	7.3
NNW		.6										.6	5.0
VARBL													
CALM												1.9	
	6.1	35.5	49.7	5.2	1.0	.3	.3					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
OCT — MONTH
ALL WEATHER — CLASS
16 — HOUR (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			.3									.6	7.5
NNE			.3									.3	10.0
NE			.6	.3								1.0	11.0
ENE			.4		.3							1.0	12.0
E			.3									.3	8.0
ESE													
SE	.3	.3			.3							1.0	7.7
SSE		.3		.3								.6	8.5
S	1.0	2.9	1.9									5.8	5.9
SSW	1.6	4.5	5.5	.6								12.3	6.4
SW	1.9	7.1	4.8	1.3								15.2	6.0
WSW	1.3	17.1	16.1	.3	.3							35.2	6.6
W	1.9	8.7	9.7	2.3								22.6	7.1
WNW		1.3	.3	.3								1.9	7.2
NW													
NNW													
VAR'BL													
CALM												2.3	
	8.1	42.3	41.0	5.5	1.0							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 19 (HOUR (L.S.T.))

(DESCRIPTION)

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	.6	.6										1.3	3.3
NNE	.3											.3	2.0
NE	.3			.6								1.0	10.0
ENE	1.0		.3	.3								1.6	6.2
E	1.9	.3										2.3	2.8
ESE	1.3	1.0										2.3	3.0
SE	1.3	.3	.3									1.9	3.2
SSE	2.3	.6										2.9	2.3
S	10.0	4.8										14.8	2.8
SSW	8.1	2.9										11.0	2.9
SW	6.1	2.3										8.4	3.0
WSW	5.5	5.2	.3									11.0	3.5
W	1.9	8.8	.3	.3								11.0	4.7
WNW	.3	1.6	.6									2.6	5.3
NW	.6	.6										1.3	2.5
NNW													
VARBL													
CALM												26.5	
	41.6	28.7	1.9	1.3								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

'114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 22 (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	.6											.6	2.0
NNE	1.0	.3	.3									1.6	4.2
NE	.6	.3		.3								1.3	5.0
ENE	1.0	.6	.3									1.9	3.7
E	5.5	1.6	.3									8.4	2.7
ESE	1.6	1.6										3.2	3.5
SE	4.2	1.3	.6									6.1	3.5
SSE	2.9	.6										3.	2.4
S	2.6	.6										3.2	2.3
SSW		1.3										1.3	4.0
SW	1.6											1.6	2.6
WSW	.6	.3	.3									1.3	4.5
W	1.9	1.0		.3								3.2	3.9
WNW	.3	.6	.3									1.3	4.6
NW	.6											.6	2.0
NNW	.6											.6	2.0
VARBL													
CALM												60.3	
	26.2	10.3	2.3	.6								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

'114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) ALL (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	.5	.4	.1		.0							1.3	3.7
NNE	1.0	.3	.2			.0						1.6	3.9
NE	1.4	.3	.3	.7	.0		.0					2.8	6.7
ENE	1.6	.8	.4	.3	.1	.0						3.2	5.2
E	2.7	.8	.1	.1								3.6	3.0
ESE	1.6	1.0	.4									2.9	3.7
SE	1.7	.7	.3	.1	.0							2.8	3.9
SSE	1.4	.7	.1	.0								2.2	3.3
S	3.0	1.9	.6	.0								5.4	3.7
SSW	1.7	2.0	1.2	.1								5.1	5.0
SW	1.3	2.3	1.4	.2								5.3	5.0
WSW	1.9	5.0	4.9	.2	.0							11.9	6.1
W	1.3	4.1	3.0	.6	.0							9.7	6.0
WNW	.9	1.2	.3	.0								2.4	4.4
NW	.6	.2	.0	.0								.9	3.3
NNW	.4	.2	.0	.0								.6	4.0
VARBL													
CALM												37.7	
	24.4	21.7	13.3	2.5	.3	.1	.0					100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 2480

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

14 — STATION NUMBER
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
NOV — MONTH
ALL WEATHER — CLASS
01 — 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	1.0	.3										1.3	2.5
NNE	2.0	.3		.3								2.7	3.8
NE	7.0	.3	.3									7.7	2.9
ENE	5.3	1.0	.7									6.7	3.0
E	2.7	1.0	.7	.7								5.0	4.9
ESE	3.7	1.3										4.0	3.0
SE	.7	1.7	.7									3.0	4.8
SSE	1.7	.3										2.0	2.7
S	1.3	.3										1.7	2.4
SSW			.3									.3	10.0
SW													
WSW		.7										.3	5.0
W		.7		.3								1.0	7.3
WNW	.3			.3								.7	8.5
NW	.3											.3	2.0
NNW	.7											.7	2.5
VARBL													
CALM												32.7	
	25.3	7.7	2.7	1.7								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

14	SANTA ANA, CALIFORNIA	73-82	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

04
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	1.3											1.3	1.5
NNE	3.7											3.7	1.5
NE	3.0	.3		.3								3.7	3.5
ENE	5.0	2.3	.3	.3	.3							8.3	4.3
E	4.7	1.7	.7									7.0	3.3
ESE	1.3	1.3	.7									3.3	4.0
SE	2.3	.7	.3									3.3	3.6
SSE	1.0	.3										1.3	3.0
S	1.7	.3										2.0	2.7
SSW	.3											.3	2.0
SW			.3									.3	9.0
WSW		.3										.3	4.0
W	.7		.3									1.0	4.3
WNW													
NW													
NNW		.3										.3	4.0
VARBL													
CALM												63.7	
	25.0	7.7	2.7	.7	.3							100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7214	SANTA ANA, CALIFORNIA	73-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

07
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	1.7											1.7	2.0
NNE	2.7	.7										3.3	2.3
NE	4.7	1.0	.3		.3							6.3	3.4
ENE	5.0	1.7	.3				.3					7.3	4.5
E	3.3	1.3										4.7	2.8
ESE	1.0	2.0										3.0	4.0
SE	1.3	1.3		.3								3.0	4.2
SSE	1.7	1.0										2.3	3.0
S	.3	1.0										1.3	3.5
SSW	.7		.7									.7	5.5
SW													
WSW	1.0											1.0	2.3
W		.3										.3	5.0
WNW	.3											.3	1.0
NW													
NNW	1.0											1.0	2.3
VARBL													
CALM												43.7	
	24.3	10.0	1.0	.3	.3		.3					100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | NOV (MONTH)

ALL WEATHER (CLASS) | 10 (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	1.7	.7										2.0	3.0
NNE	1.0	.3	.7			.3						2.3	7.1
NE			.7									.3	10.0
ENE	.7	.7		1.0	.3			.3				3.0	10.8
E	1.3	1.0	.3	.3								3.0	4.9
ESE	1.0	4.0										5.0	3.9
SE	1.7	1.7	1.7									5.0	5.3
SSE	1.3	.7	1.0									3.0	4.8
S	1.3	1.0	.7	.3								3.3	5.4
SSW	1.0	.7	.3									2.0	3.8
SW	2.7	.3	.3									3.3	2.6
WSW	3.7	1.7	.3									5.7	2.9
W	9.7	5.3	1.0	.3		.7						17.7	3.9
WNW	4.0		.3									4.3	2.5
NW	2.3	1.0										3.3	3.0
NNW	.7											.7	2.0
VARBL													
CALM												36.3	
	33.3	20.0	7.0	2.0	.3	.7		.3				100.0	2.8

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114	SANTA ANA, CALIFORNIA	73-82	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

13
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	.7				.3							.7	11.5
NE			.7	1.0								1.7	11.6
ENE	.3	.3		1.3	.7							2.7	12.0
E			.7									.3	8.0
ESE		.3										.3	5.0
SE		.3										.3	5.0
SSE	.3	.3	1.0	.3								2.0	8.2
S	2.3	1.0	1.3	.7								5.3	5.7
SSW	.7	3.3	2.0	.3								6.3	6.2
SW	3.0	5.0	3.7	.3								11.0	5.9
WSW	2.7	10.3	6.7	1.0								20.7	6.0
W	3.7	14.7	11.7	1.0	.3							30.7	6.3
WNW	1.3	4.0	1.3	.7								7.3	5.5
NW		1.3										1.3	4.8
NNW	.3	1.3	.7	.3								2.7	6.4
VARBL													
CALM												6.7	
	19.0	42.3	28.7	7.0	1.3							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

14 (TION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | NOV (MONTH)

ALL WEATHER (CLASS) | 16 (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	.7	.7										1.3	3.8
NNE													
NE		.7	.7	.7								2.0	6.7
ENE			1.0	.3								1.3	10.8
E	.7		.3	.3								1.3	5.8
ESE	.3	.3										.7	4.0
SE													
SSE	.3	.3	.7									1.3	5.3
S	1.7	3.7	2.3	.3								8.0	5.7
SSW	2.0	5.3	2.3									9.7	5.4
SW	2.3	6.7	3.7									14.7	5.3
WSW	3.3	15.7	10.7	.3								30.0	5.9
W	4.0	11.3	7.7	1.7		.3						25.0	6.3
WNW	.3		1.3									1.7	7.6
NW			.3									.3	6.0
NNW													
VARBL													
CALM												2.7	
	15.7	46.7	31.0	3.7		.3						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 19 (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	.3											.3	2.0
NNE	1.3	.3		.3								2.0	4.2
NE	1.7			1.3								3.0	6.6
ENE	3.0	1.0	.3									4.3	2.8
E	3.7	2.7										6.3	2.6
ESE	2.3	.7	.7									3.7	3.6
SE	4.7	1.0	.7									6.3	3.1
SSE	2.7	.7	.3									3.7	3.5
S	3.0	1.0										4.0	2.6
SSW	2.0	.7										2.7	2.1
SW	1.0	.3										1.3	2.3
WSW	2.0	.7										2.7	2.8
W	.7	1.7	1.0	.3								3.7	6.4
WNW	1.0	1.0		.3								2.3	4.9
NW	.7											.7	1.5
NNW	1.3	.3										1.7	2.4
VARBL													
CALM												51.3	
	31.3	12.0	3.0	2.3								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

'114 (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | NOV (MONTH)

ALL WEATHER (CLASS) | 22 (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	1.0											1.0	1.3
NNE	2.0	.7	.7									3.3	4.1
NE	3.7	.7			1.0							5.3	5.4
ENE	5.7	.3	.7									6.7	2.8
E	3.0	2.0										5.0	3.2
ESE	.7	1.7	.7									3.0	4.9
SE	2.0	1.3	.3									3.7	3.7
SSE	1.3	1.3	.3									3.0	4.0
S	1.0	.3	.3									1.7	4.2
SSW	.7	.3		.3								1.3	6.3
SW													
WSW	.3											.3	3.0
W	.7	.3	1.3	.7								2.7	7.4
WNW	.3	.3	.3	.3								1.3	6.8
NW	.3											.3	1.0
NNW													
VARBL													
CALM												61.7	
	22.0	9.3	4.7	1.3	1.0							100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114	SANTA ANA, CALIFORNIA	73-82	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

ALL
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	.7	.2										1.1	2.4
NNE	1.6	.3	.2	.1	.0	.0						2.2	3.8
NE	2.5	.4	.3	.4	.2							3.7	4.9
ENE	3.1	.9	.4	.4	.2		.0	.0				5.0	4.9
E	2.4	1.2	.3	.2								4.1	3.7
ESE	1.2	1.5	.2									2.9	3.9
SE	1.6	1.0	.5	.0								3.1	4.1
SSE	1.2	.6	.4	.0								2.3	4.3
S	1.8	1.1	.6	.2								3.4	4.6
SSW	.8	1.3	.7	.1								2.9	5.2
SW	1.0	1.8	1.0	.0								3.8	5.1
WSW	1.6	3.6	2.2	.2								7.6	5.5
W	2.4	4.4	2.8	.5	.0	.1						10.2	5.8
WNW	1.0	.7	.4	.2								2.2	5.0
NW	.4	.3	.0									.7	3.3
NNW	.5	.2	.1	.0								.9	4.0
VARBL													
CALM												43.6	
	23.9	19.5	10.1	2.4	.4	.1	.0	.0				100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 2400

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

01
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	.6	.3	.3									1.3	3.8
NNE	1.3			.3								1.6	4.6
NE	6.1	.6	.6		.3	.3						8.1	4.3
ENE	5.8	1.3										7.1	2.5
E	4.5	.6	1.6	1.0								7.7	5.0
ESE	.6	1.0		.3								1.9	4.8
SE	1.6	1.9										3.5	3.5
SSE		.3		.3								.6	10.0
S	.6	.3	.6									1.6	5.4
SSW	.6											.6	2.0
SW	.3											.3	3.0
WSW	.3											.3	3.0
W			.6	.3								1.0	9.3
WNW	.6											.6	2.0
NW	.6	.3										1.0	5.3
NNW		.3										.3	6.0
VARBL													
CALM												62.3	
	23.9	7.1	3.9	2.3	.3	.3						100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

14 (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | DEC (MONTH)

ALL WEATHER (CLASS) | 04 (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	1.0	.6										1.6	3.6
NNE	1.6		.6									2.3	4.1
NE	6.1	.6	1.3	.3		.3						8.7	4.3
ENE	4.8	.6	.3	.6	1.0	.3						7.7	6.3
E	6.1	2.6	.3	.3	.3							9.7	3.9
ESE	2.3	.6										2.9	2.6
SE	.6	1.0			.3							1.9	6.0
SSE	1.3	.6		.3								2.3	4.1
S	1.3	.3	.6			.						2.3	3.9
SSW	.3											.3	1.0
SW	.3											.3	2.0
WSW	.3	.6										1.0	3.3
W	.3	.3										.6	2.5
WNW	.3											.3	2.0
NW			.3									.3	7.0
NNW	.6	.3										1.0	2.0
VARBL													
CALM												56.8	
	27.4	8.4	3.5	1.6	1.6	.6						100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

7114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS)

07 (HOUR (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	.6	1.0										1.6	3.4
NNE	4.2	.6										4.8	2.1
NE	5.8	1.3	.6		.6	.3						8.7	4.9
ENE	5.2	1.9		.6		.3						8.1	4.3
E	3.2	2.9	.3	.3								6.8	3.8
ESE	1.6	1.0	1.0									3.5	4.5
SE	.6	.6	.6									1.9	4.5
SSE	1.0	1.0										1.9	2.8
S	.6	1.3										1.9	4.2
SSW	.3											.3	2.0
SW													
WSW	.3											.3	1.0
W	1.0											1.0	2.7
WNW													
NW	.3											.3	2.0
NNW													
VARBL													
CALM												58.7	
	24.8	11.6	2.6	1.0	.6	.6						100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

10
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		.3										.3	4.0
NNE	1.3	.3	.3		.3							2.3	5.4
NE	1.9	.3	.3	1.0	.3							3.9	6.7
ENE	1.6	.3	.3	1.6	.6	.6						5.2	11.3
E	2.3	1.3	.3	.3								4.2	4.3
ESE	1.9	.6	.3									2.9	3.6
SE	3.2	1.6	1.3									6.1	4.2
SSE	1.3	.3	1.0	.3								2.9	5.6
S	1.9	1.9	.3									4.2	4.2
SSW	.3											.3	2.0
SW	1.0	.6	.3									1.9	4.0
WSW	1.6	.6										2.3	2.7
W	3.2	1.9	.3	.3								5.8	3.9
WNW	3.2	1.3										4.5	2.6
NW	.6		.3	.3								1.3	6.5
NNW	1.3	.3	.3									1.6	4.4
VARBL													
CALM												50.3	
	26.5	11.9	5.5	3.0	1.3	.6						100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	DEC

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 13

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	.3	.3										.6	3.5
NNE	.6	.6	.3	.3								1.9	6.3
NE		.3	.3	1.3	1.0							2.9	13.7
ENE		.3	.3	.3	1.0	.6						2.6	1[illegible].5
E		.6	.3	1.3								2.3	10.9
ESE	.6	.3		.3								1.3	5.5
SE			1.[illegible]	.3								1.9	9.7
SSE	.3	.6										1.0	3.7
S	.6	2.9	1.9	.3								5.8	6.0
SSW	.6	2.9	1.6									5.2	6.0
SW	1.[illegible]	6.1	1.0									9.0	4.6
WSW	4.5	9.7	2.6									16.[illegible]	4.6
W	7.7	12.3	4.[illegible]	1.0								25.[illegible]	5.0
WNW	1.6	2.6	.3	.3	.3							5.2	5.3
NW	.3	.3	.6									1.3	5.8
NNW	.6	.6	.6									1.9	5.5
VARBL													
CALM												14.5	
	20.0	40.6	16.5	5.5	2.3	.6						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 310

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3114	SANTA ANA, CALIFORNIA	73-82	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

16 — 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		.3	.3	.6								1.3	9.0
NE	.3	.3	.6	1.0								2.3	9.6
ENE	.6	.3	1.3	.3			.3					2.6	9.4
E	.3	.3	.6		.3							1.6	8.4
ESE													
SE		.3	1.0									1.3	7.8
SSE		.6										.6	5.0
S	1.3	2.6	1.3	.3								5.5	6.0
SSW	5.2	5.8	2.3	.3								13.6	4.7
SW	3.9	7.1	2.6									13.6	4.6
WSW	5.5	15.2	3.9	.3								24.9	4.9
W	3.6	14.6	4.2	.3								22.7	5.3
WNW		.6	1.3									1.9	7.3
NW		.3	.3	.3	.3							1.3	11.0
NNW													
VARBL													
CALM												6.8	
	20.7	48.5	19.4	3.6	.6		.3					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 19 (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	1.9	1.0	.3									2.9	3.6
NNE	1.6	.3	.7									2.3	3.4
NE	1.6		.7	.3		.3						2.6	7.0
ENE	2.6		1.0	1.3								4.9	5.7
E	6.5	1.3	.6			.3						9.1	3.5
ESE	3.6	.3	.3									4.2	3.1
SE	2.9	2.3	.3									5.5	3.6
SSE	1.0	.6	.6									2.3	4.6
S	4.2		.3									4.5	2.2
SSW	1.9	.3	.3		.3							2.3	5.7
SW	1.3											1.3	2.3
WSW	1.0											1.0	3.0
W	1.0	.3										1.3	3.0
WNW	.6	1.0	.3		.3							2.3	5.9
NW	.3	.3										.6	2.5
NNW	.3	1.0	.3	.6								2.3	7.3
VARBL													
CALM												51.1	
	31.4	8.7	5.2	2.3	.6	.6						100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 309

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7114	SANTA ANA, CALIFORNIA	73-82	DEC

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 22

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	.6	.3	.3									1.3	3.5
NNE	.6	.6		.6								1.9	7.5
NE	3.6	1.0	.3	1.0	.3							6.1	5.2
ENE	2.3	1.0	1.0	.6	.3	.3						5.5	7.5
E	5.5	1.6	.3	.3								7.8	3.1
ESE	1.9	1.3	1.3									4.5	4.7
SE	.6	1.3										1.9	3.7
SSE	.3	1.9	.3									2.6	5.3
S	1.3	1.3	.3									2.9	3.9
SSW													
SW	.6											.6	1.5
WSW	.3											.3	2.0
W	1.0		.3									1.3	4.5
WNW	.3	.6										1.0	4.3
NW	.3											.3	1.0
NNW	.3											.3	1.0
VARBL													
CALM												61.5	
	12.7	11.3	4.2	2.6	.6	.3						100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 372

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

1114	SANTA ANA, CALIFORNIA	73-82	DEC
STATION		YEARS	MONTH
	ALL WEATHER		ALL
	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	.6	.9	.1									1.2	3.6
NNE	1.4	.4	.2	.2	.0							2.3	4.6
NE	3.2	.6	.6	.6	.3	.2						5.4	5.8
ENE	2.9	.7	.5	.7	.4	.3	.2					5.5	6.2
E	3.6	1.4	.6	.4	.1	.0						6.1	4.4
ESE	1.6	.6	.4	.1								2.7	4.0
SE	1.2	1.1	.6	.0	.0							3.0	4.7
SSE	.5	.8	.2	.1								1.6	4.8
S	1.9	1.3	.7	.1								3.6	4.6
SSW	1.1	1.1	.5	.0	.0							2.8	4.9
SW	1.1	2.7	.5									3.4	4.4
WSW	1.7	3.3	.8	.0								5.9	4.6
W	2.2	3.9	1.3	.2								7.4	4.9
WNW	.8	.8	.2	.0	.1							2.0	4.6
NW	.5	.2	.2	.1	.0							.8	5.9
NNW	.4	.3	.2	.1								.9	5.2
VARBL													
CALM												45.3	
	24.3	19.5	7.6	2.8	1.0	.5	.0					100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 2477

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114	SANTA ANA, CALIFORNIA	73-82	ALL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

ALL
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	.6	.2	.1	.0	.0							.9	3.8
NNE	.8	.2	.1	.1	.0	.0						1.3	4.3
NE	1.5	.4	.2	.3	.1	.0	.0					2.6	5.9
ENE	1.7	.6	.2	.2	.1	.0	.0	.0				2.9	4.8
E	2.6	.9	.2	.1	.0	.0						3.7	3.3
ESE	1.6	1.1	.3	.1								3.0	3.9
SE	1.6	1.2	.5	.1	.0							3.4	4.4
SSE	1.4	1.1	.4	.1	.0	.0						3.0	4.4
S	3.2	2.6	1.0	.2	.0		.0	.0				7.0	4.4
SSW	1.8	2.6	1.7	.3	.0							6.4	5.4
SW	1.5	2.7	1.9	.2	.0							6.4	5.6
WSW	2.0	5.1	4.2	.5	.1	.0						11.8	6.1
W	2.4	4.3	3.3	.6	.0	.0						10.6	5.9
WNW	.7	.7	.3	.1	.0							1.8	4.5
NW	.9	.2	.1	.0	.0	.0						.8	4.5
NNW	.4	.2	.1	.0	.0							.6	3.8
VARBL													
CALM												33.7	
	24.2	24.1	14.4	2.9	.5	.1	.0	.0				100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 29199

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

114	SANTA ANA, CALIFORNIA	73-82	ALL
STATION	STATION NAME	YEARS	MONTH

INSTRUMENT
CLASS

ALL
HOURS (L.S.T.)

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE,
AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE
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	.7	.3										1.0	2.7
NNE	.7	.2	.0									.9	2.9
NE	1.3	.5	.1		.0							1.9	3.3
ENE	1.6	.9										2.5	3.0
E	3.3	1.0	.1	.0								5.1	2.9
ESE	2.9	1.3	.4	.1								4.8	3.6
SE	2.6	1.6	.7	.3	.0							5.4	4.6
SSE	2.1	1.8	.6	.3	.1	.0						5.0	4.8
S	5.3	3.0	.9	.3	.1							9.6	4.1
SSW	2.7	2.0	.9	.1	.1							5.9	4.5
SW	1.6	1.3	.5		.0							3.5	4.2
WSW	1.8	2.9	1.5	.1	.0							6.4	5.0
W	3.0	2.7	1.2	.2		.0						7.2	4.7
WNW	.7	.6	.1	.0								1.5	4.1
NW	.5	.1	.0									.6	2.7
NNW	.4	.3	.0									.7	3.4
VARBL													
CALM												38.1	
	31.7	20.8	7.3	1.6	.4	.0						100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 4016

SMOS

NOCD, Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1⅞	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 1800 ≥ 1500					91.0											92.6
≥ 1200 ≥ 1000																
≥ 900 ≥ 800																
≥ 700 ≥ 600																
≥ 500 ≥ 400										97.4						98.1
≥ 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 $\geq$ 1500 feet with $\geq$ 3 miles, subtracted from 97.4 read from the table at the intersection of $\geq$ 500 feet with $\geq$ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling $\geq$ 500 feet with visibility $\geq$ 1 mile, but < 3 miles; or ceiling $\geq$ 500 feet, but < 1500 feet with visibility $\geq$ 1 mile."

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

PART D SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.

2. By month - by standard 3-hour groups.

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

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

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

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

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

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH
			01
			HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	8.7	59.9	63.1	64.7	67.3	67.3	68.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 20000	8.7	59.9	63.1	64.7	67.3	67.3	68.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
18000	8.7	59.9	63.1	64.7	67.3	67.3	68.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
16000	8.7	59.9	63.1	64.7	67.3	67.3	68.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
14000	8.7	60.2	63.4	65.1	68.0	68.0	69.2	70.2	70.2	70.8	70.8	70.8	70.8	70.8	70.8	70.8
12000	8.7	60.8	64.1	65.7	68.9	68.9	70.2	71.2	71.2	71.8	71.8	71.8	71.8	71.8	71.8	71.8
10000	8.7	62.1	65.7	67.3	70.9	71.2	72.5	73.5	73.5	74.4	74.4	74.4	74.4	74.4	74.4	74.4
9000	9.1	62.8	66.3	68.0	71.5	71.8	73.1	74.1	74.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
8000	9.1	62.8	66.3	68.0	71.5	71.8	73.1	74.1	74.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
7000	9.1	63.4	67.0	68.6	72.2	72.5	73.8	74.8	74.8	75.7	75.7	75.7	75.7	75.7	75.7	75.7
6000	9.1	63.8	67.3	68.9	72.5	72.8	74.1	75.1	75.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
5000	9.1	64.7	68.3	69.9	73.5	73.8	75.1	76.1	76.1	77.0	77.0	77.0	77.0	77.0	77.0	77.0
4500	9.1	65.7	69.3	70.9	74.4	74.8	76.1	77.0	77.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
4000	9.1	66.7	70.2	71.8	75.4	75.7	77.0	78.0	78.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
3500	9.1	68.3	72.2	73.8	77.4	77.7	79.0	79.9	79.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3000	9.7	71.5	75.4	77.0	80.6	80.9	82.2	83.2	83.2	84.1	84.1	84.1	84.1	84.1	84.1	84.1
2500	10.0	73.5	77.4	79.0	82.5	82.9	84.1	85.1	85.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
2000	10.0	75.1	79.0	80.9	84.8	85.1	86.7	87.7	87.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
1800	10.0	75.1	79.0	80.9	84.8	85.1	86.7	87.7	87.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
1500	10.0	78.6	82.9	85.1	89.6	90.0	91.6	92.6	92.6	93.5	93.5	93.5	93.5	93.5	93.5	93.5
1200	10.0	79.0	83.8	86.1	90.6	90.9	92.6	93.5	93.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
1000	10.0	79.9	84.8	87.4	92.2	92.6	94.2	95.2	95.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1
900	10.0	79.9	84.8	87.4	92.2	92.6	94.2	95.2	95.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1
800	10.0	80.3	85.1	87.7	92.9	93.2	94.8	95.8	95.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
700	10.0	80.3	85.1	87.7	92.9	93.5	95.2	96.1	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
600	10.0	80.3	85.1	88.0	93.2	93.9	95.5	96.4	96.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
500	10.0	80.6	85.4	88.4	93.9	94.5	96.1	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
400	10.0	80.6	85.4	88.4	93.9	94.5	96.1	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.4	98.4
300	10.0	80.6	85.4	88.4	93.9	94.5	96.1	97.1	97.1	98.1	98.1	98.1	98.1	98.1	99.0	99.0
200	10.0	80.6	85.4	88.4	93.9	94.5	96.1	97.1	97.1	98.1	98.1	98.1	98.1	98.1	99.0	99.0
100	10.0	80.6	85.4	88.4	93.9	94.5	96.1	97.1	97.1	98.1	98.1	98.1	98.1	98.1	99.0	99.0
0	10.0	80.6	85.4	88.4	93.9	94.5	96.1	97.1	97.1	98.1	98.1	98.1	98.1	98.1	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7114	SANTA ANA, CALIFORNIA	73-82	JAN

HOURS (L.S.T.): 04

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.7	52.6	54.2	55.8	57.7	58.1	58.7	59.4	59.4	59.7	59.7	59.7	60.0	60.3	60.3	60.3
≥ 20000	9.7	55.5	57.4	59.0	61.0	61.3	61.9	62.6	62.6	62.9	62.9	62.9	63.2	63.6	63.6	63.6
≥ 18000	9.7	55.5	57.4	59.0	61.0	61.3	61.9	62.6	62.6	62.9	62.9	62.9	63.2	63.6	63.6	63.6
≥ 16000	9.7	55.5	57.4	59.0	61.0	61.3	61.9	62.6	62.6	62.9	62.9	62.9	63.2	63.6	63.6	63.6
≥ 14000	10.0	55.8	57.7	59.7	61.6	62.3	62.9	63.6	63.6	63.9	63.9	63.9	64.2	64.5	64.5	64.5
≥ 12000	10.3	56.1	58.1	60.0	61.9	62.6	63.2	63.9	63.9	64.2	64.2	64.2	64.5	64.8	64.8	64.8
≥ 10000	10.3	57.7	59.7	61.9	63.9	64.5	65.5	66.1	66.1	66.5	66.5	66.5	66.8	67.1	67.1	67.1
≥ 9000	10.3	58.1	60.0	62.3	64.2	64.8	65.8	66.5	66.5	66.8	66.8	66.8	67.1	67.4	67.4	67.4
≥ 8000	10.3	59.0	61.0	63.2	65.2	65.8	66.8	67.4	67.4	67.7	67.7	67.7	68.1	68.4	68.4	68.4
≥ 7000	10.7	60.0	61.9	64.2	66.1	66.8	67.7	68.4	68.4	68.7	68.7	68.7	69.0	69.4	69.4	69.4
≥ 6000	10.7	60.0	61.9	64.2	66.1	66.8	67.7	68.4	68.4	68.7	68.7	68.7	69.0	69.4	69.4	69.4
≥ 5000	10.7	61.3	63.2	65.5	67.4	68.1	69.4	70.0	70.0	70.3	70.3	70.3	70.7	71.0	71.0	71.0
≥ 4500	10.7	61.3	63.9	66.1	68.1	68.7	70.0	70.7	70.7	71.0	71.0	71.0	71.3	71.6	71.6	71.6
≥ 4000	10.7	62.3	64.8	67.4	69.4	70.0	71.3	71.9	71.9	72.3	72.3	72.3	72.6	72.9	72.9	72.9
≥ 3500	10.7	63.2	65.8	68.4	70.3	71.0	72.3	72.9	72.9	73.2	73.2	73.2	73.6	73.9	73.9	73.9
≥ 3000	11.0	68.1	70.7	73.6	75.5	76.1	77.7	78.4	78.4	78.7	78.7	78.7	79.0	79.4	79.4	79.4
≥ 2500	11.0	70.0	72.9	75.8	77.7	78.7	80.3	81.0	81.0	81.3	81.3	81.3	81.6	81.9	81.9	81.9
≥ 2000	11.0	71.9	75.5	78.4	80.3	81.3	83.2	83.9	83.9	84.2	84.2	84.2	84.5	84.8	84.8	84.8
≥ 1800	11.0	71.9	75.5	78.4	80.3	81.3	83.2	83.9	83.9	84.2	84.2	84.2	84.5	84.8	84.8	84.8
≥ 1500	11.0	76.1	79.7	83.2	85.5	86.5	88.4	89.0	89.0	89.4	89.4	89.4	89.7	90.0	90.0	90.0
≥ 1200	11.0	76.5	80.3	83.9	86.1	87.1	89.0	89.7	89.7	90.0	90.0	90.0	90.3	90.7	90.7	90.7
≥ 1000	11.0	78.4	82.6	86.5	89.0	90.0	91.9	92.6	92.6	92.9	92.9	92.9	93.2	93.6	93.6	93.6
≥ 900	11.0	78.4	82.6	86.5	89.0	90.0	91.9	92.6	92.6	92.9	92.9	92.9	93.2	93.6	93.6	93.6
≥ 800	11.0	78.4	82.6	86.5	89.0	90.0	91.9	92.6	92.6	92.9	92.9	92.9	93.2	93.6	93.6	93.6
≥ 700	11.0	78.7	82.9	86.8	89.4	90.7	92.9	93.6	93.6	93.9	93.9	93.9	94.2	94.5	94.5	94.5
≥ 600	11.0	78.7	82.9	87.1	89.7	91.0	93.2	93.9	93.9	94.2	94.2	94.2	94.5	94.8	94.8	94.8
≥ 500	11.3	79.0	83.2	87.4	91.0	92.3	94.5	95.2	95.2	95.5	95.5	95.5	96.1	96.5	96.5	96.5
≥ 400	11.0	79.0	83.2	87.4	91.3	92.6	94.8	95.5	95.5	95.8	95.8	95.8	96.5	96.8	96.8	96.8
≥ 300	11.0	79.0	83.2	87.4	91.3	92.6	94.8	95.5	95.5	95.8	95.8	95.8	96.5	96.8	97.1	97.1
≥ 200	11.0	79.3	83.2	87.4	91.3	92.6	94.8	95.5	95.5	95.8	95.8	95.8	96.5	96.8	97.1	98.1
≥ 100	11.0	79.0	83.2	87.4	91.3	92.6	94.8	95.5	95.5	95.8	95.8	95.8	96.5	96.8	97.4	98.4
≥ 0	11.0	79.0	83.2	87.4	91.3	92.6	94.8	95.5	95.5	95.8	95.8	95.8	96.5	96.8	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

23114	SANTA ANA, CALIFORNIA	73-82	JAN	07
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	16.8	51.0	53.6	55.2	56.1	56.5	56.8	56.8	56.8	57.7	57.7	57.7	58.1	58.1	58.7	59.7
≥ 20000	16.8	54.2	57.4	59.4	60.3	60.7	61.3	61.3	61.3	62.3	62.3	62.3	62.6	62.6	63.2	64.2
≥ 18000	16.8	54.2	57.4	59.4	60.3	60.7	61.3	61.3	61.3	62.3	62.3	62.3	62.6	62.6	63.2	64.2
≥ 16000	16.8	54.2	57.4	59.4	60.3	60.7	61.3	61.3	61.3	62.3	62.3	62.3	62.6	62.6	63.2	64.2
≥ 14000	16.8	54.5	57.7	60.0	61.0	61.3	61.9	61.9	61.9	63.2	63.2	63.2	63.6	63.6	64.2	65.2
≥ 12000	16.8	55.5	58.7	61.3	62.3	62.6	63.2	63.2	63.2	64.5	64.5	64.5	64.8	64.8	65.5	66.5
≥ 10000	16.8	58.1	61.6	64.2	65.2	65.5	66.5	66.5	66.5	67.7	67.7	67.7	68.1	68.1	68.7	69.7
≥ 9000	16.8	58.4	61.9	64.5	65.5	65.8	66.8	66.8	66.8	68.1	68.1	68.1	68.4	68.4	69.0	70.0
≥ 8000	16.8	59.4	63.2	65.8	66.8	67.1	68.1	68.1	68.1	69.4	69.4	69.4	69.7	69.7	70.3	71.3
≥ 7000	17.1	59.7	63.6	66.1	67.1	67.4	68.4	68.4	68.4	69.7	69.7	69.7	70.0	70.0	70.7	71.6
≥ 6000	17.1	60.0	63.9	66.5	67.4	67.7	68.7	68.7	68.7	70.0	70.0	70.0	70.3	70.3	71.0	71.9
≥ 5000	17.1	60.7	64.5	67.1	68.1	68.7	69.7	69.7	69.7	71.0	71.0	71.0	71.3	71.3	71.9	72.9
≥ 4500	17.1	60.7	64.5	67.1	68.1	68.7	69.7	69.7	69.7	71.0	71.0	71.0	71.3	71.3	71.9	72.9
≥ 4000	17.1	61.0	65.5	68.4	69.4	70.0	71.0	71.0	71.0	72.6	72.6	72.6	72.9	72.9	73.6	74.5
≥ 3500	17.7	63.2	67.1	70.0	71.0	71.6	72.6	72.6	72.6	74.2	74.2	74.2	74.5	74.5	75.2	76.1
≥ 3000	18.1	65.2	69.4	72.6	73.9	74.5	75.5	75.8	75.8	77.4	77.4	77.4	77.7	77.7	78.4	79.4
≥ 2500	18.4	66.1	70.3	73.6	74.8	75.5	76.5	76.8	76.8	78.4	78.4	78.4	78.7	78.7	79.4	80.3
≥ 2000	18.4	69.4	73.6	76.8	78.1	78.7	79.7	80.0	80.0	81.6	81.6	81.6	81.9	81.9	82.6	83.6
≥ 1800	18.4	69.7	73.9	77.1	78.4	79.0	80.0	80.3	80.3	81.9	81.9	81.9	82.3	82.3	82.9	83.9
≥ 1500	18.4	72.3	76.5	80.0	81.6	82.3	83.9	84.2	84.2	85.8	85.8	85.8	86.1	86.1	86.8	87.7
≥ 1200	18.4	72.9	77.1	81.0	82.6	83.2	84.8	85.2	85.2	86.8	86.8	86.8	87.1	87.1	87.7	88.7
≥ 1000	18.4	74.3	77.4	81.6	83.2	83.8	85.1	85.4	85.4	87.0	87.0	87.0	87.3	87.3	87.9	88.9
≥ 900	18.4	75.2	79.7	83.9	85.5	86.1	87.4	87.7	87.7	89.3	89.3	89.3	89.7	89.7	90.3	91.3
≥ 800	18.4	75.2	80.0	84.2	85.8	86.5	87.7	88.0	88.0	89.7	89.7	89.7	90.0	90.0	90.6	91.6
≥ 700	18.4	75.5	80.3	84.5	86.1	86.8	88.0	88.4	88.4	90.0	90.0	90.0	90.3	90.3	90.9	91.9
≥ 600	18.4	75.8	80.7	84.8	86.5	87.1	88.4	88.7	88.7	90.3	90.3	90.3	90.6	90.6	91.2	92.2
≥ 500	18.4	76.1	81.0	85.2	87.4	88.1	89.4	89.7	89.7	91.3	91.3	91.3	91.6	91.6	92.2	93.2
≥ 400	18.4	76.1	81.0	85.2	87.4	88.1	89.4	89.7	89.7	91.3	91.3	91.3	91.6	91.6	92.2	93.2
≥ 300	18.4	76.5	81.3	85.5	87.7	88.4	89.7	90.0	90.0	91.6	91.6	91.6	91.9	91.9	92.5	93.5
≥ 200	18.4	76.5	81.3	85.5	87.7	88.4	89.7	90.0	90.0	91.6	91.6	91.6	91.9	91.9	92.5	93.5
≥ 100	18.4	76.5	81.3	85.5	87.7	88.4	89.7	90.0	90.0	91.6	91.6	91.6	91.9	91.9	92.5	93.5
0	18.4	76.5	81.3	85.5	87.7	88.4	89.7	90.0	90.0	91.6	91.6	91.6	91.9	91.9	92.5	93.5

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

118	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.5	48.7	51.6	52.6	54.8	55.2	56.5	56.8	57.1	57.1	57.4	57.4	57.4	57.4	57.4	58.1
≥ 20000	14.5	53.6	55.8	57.7	60.0	60.3	61.9	62.9	63.2	63.2	63.6	63.6	63.6	63.6	63.6	64.2
≥ 18000	14.5	53.9	56.1	58.1	60.3	60.7	62.3	63.2	63.6	63.6	63.9	63.9	63.9	63.9	63.9	64.5
≥ 16000	14.5	54.2	56.5	58.4	60.7	61.0	62.6	63.6	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.8
≥ 14000	14.8	55.2	57.4	59.7	62.3	62.6	64.5	65.5	65.8	65.8	66.1	66.1	66.1	66.1	66.1	66.8
≥ 12000	15.2	56.1	58.4	60.7	63.2	63.6	65.5	66.5	66.8	66.8	67.1	67.1	67.1	67.1	67.1	67.7
≥ 10000	15.2	57.1	59.4	61.9	64.5	65.2	67.4	68.4	68.7	69.0	69.4	69.4	69.4	69.4	69.4	70.0
≥ 9000	15.2	57.1	59.4	61.9	64.5	65.2	67.4	68.4	68.7	69.0	69.4	69.4	69.4	69.4	69.4	70.0
≥ 8000	15.5	59.4	61.6	64.2	67.1	67.7	70.0	71.0	71.3	71.6	71.9	71.9	71.9	71.9	71.9	72.6
≥ 7000	15.5	60.0	62.3	64.8	67.7	68.4	71.0	71.9	72.3	72.6	72.9	72.9	72.9	72.9	72.9	73.6
≥ 6000	15.8	60.7	62.9	65.5	68.4	69.0	71.6	72.6	72.9	73.2	73.6	73.6	73.6	73.6	73.6	74.2
≥ 5000	15.8	61.3	63.6	66.1	69.0	69.7	72.3	73.2	73.6	73.9	74.2	74.2	74.2	74.2	74.2	74.8
≥ 4500	15.8	61.9	64.2	66.8	69.7	70.3	72.9	73.9	74.2	74.5	74.8	74.8	74.8	74.8	74.8	75.5
≥ 4000	15.8	62.9	65.2	67.7	70.7	71.3	73.9	74.8	75.2	75.5	75.8	75.8	75.8	75.8	75.8	76.5
≥ 3500	16.1	64.2	66.8	69.4	72.3	72.9	75.5	76.5	76.8	77.1	77.4	77.4	77.4	77.4	77.4	78.1
≥ 3000	16.8	68.7	71.3	73.9	76.8	77.4	80.0	81.3	81.6	81.9	82.3	82.3	82.3	82.3	82.3	82.9
≥ 2500	16.8	71.0	73.9	76.5	79.4	80.0	82.6	83.9	84.2	84.5	84.8	84.8	84.8	84.8	84.8	85.5
≥ 2000	17.4	73.6	77.1	79.7	82.9	83.9	86.5	87.7	88.1	88.4	88.7	88.7	88.7	88.7	88.7	89.4
≥ 1800	17.4	73.9	77.4	80.0	83.2	84.2	86.8	88.1	88.4	88.7	89.0	89.0	89.0	89.0	89.0	89.7
≥ 1500	17.7	76.1	80.0	82.9	86.5	87.7	90.3	91.9	92.3	92.6	92.9	92.9	92.9	92.9	92.9	93.6
≥ 1200	17.7	76.8	80.7	83.6	87.1	88.4	91.0	92.6	92.9	93.2	93.6	93.6	93.6	93.6	93.6	94.2
≥ 1000	17.7	77.4	81.3	84.2	88.1	89.4	91.9	93.9	94.5	94.8	95.2	95.2	95.2	95.2	95.2	95.8
≥ 900	17.7	77.4	81.3	84.2	88.1	89.4	91.9	93.9	94.5	94.8	95.2	95.2	95.2	95.2	95.2	95.8
≥ 800	17.7	77.4	81.3	84.2	88.4	89.7	92.3	94.2	94.8	95.2	95.5	95.5	95.5	95.5	95.5	96.1
≥ 700	17.7	77.4	81.3	84.2	88.4	90.0	92.6	94.5	95.1	95.5	95.8	95.8	95.8	95.8	95.8	96.5
≥ 600	17.7	77.4	81.3	84.2	88.4	90.0	92.6	94.5	95.2	95.5	95.8	95.8	95.8	95.8	95.8	96.5
≥ 500	17.7	77.4	81.3	84.2	88.7	90.3	92.9	94.8	95.5	95.8	96.1	96.1	96.1	96.1	96.1	96.8
≥ 400	17.7	77.4	81.3	84.2	88.7	90.7	93.2	95.2	95.8	96.1	96.5	96.5	97.1	97.1	97.4	98.1
≥ 300	17.7	77.4	81.3	84.2	88.7	90.7	93.2	95.2	95.8	96.5	96.8	96.8	97.7	97.7	98.1	98.7
≥ 200	17.7	77.4	81.3	84.2	88.7	90.7	93.2	95.2	95.8	96.5	96.8	96.8	97.7	97.7	98.1	100.0
≥ 100	17.7	77.4	81.3	84.2	88.7	90.7	93.2	95.2	95.8	96.5	96.8	96.8	97.7	97.7	98.1	100.0
≥ 0	17.7	77.4	81.3	84.2	88.7	90.7	93.2	95.2	95.8	96.5	96.8	96.8	97.7	97.7	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	13.1	47.1	49.4	51.9	55.2	55.5	56.6	57.7	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000	14.2	51.6	54.5	57.4	61.6	61.9	63.6	64.5	64.8	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 18000	14.5	52.3	55.2	58.1	62.3	62.6	64.2	65.2	65.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 16000	14.5	52.3	55.2	58.1	62.3	62.6	64.2	65.2	65.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 14000	14.5	53.2	56.8	59.7	64.2	64.5	66.1	67.1	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 12000	14.5	54.5	57.4	60.3	64.5	65.2	66.8	68.1	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	14.5	57.1	60.0	62.9	67.4	67.7	69.7	71.3	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 9000	14.5	57.1	60.0	62.9	67.4	67.7	69.7	71.3	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 8000	14.5	58.1	61.0	63.9	68.4	69.0	71.0	72.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000	14.5	58.1	61.0	64.5	69.4	70.4	72.0	73.6	73.9	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 6000	15.2	59.4	62.3	65.2	70.0	70.7	72.6	74.2	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 5000	15.2	60.7	63.6	66.5	71.3	71.9	73.9	75.5	75.8	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 4500	15.2	61.3	64.2	67.1	71.9	72.5	74.5	76.1	76.5	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 4000	15.1	61.6	64.8	67.7	72.6	73.2	75.2	76.8	77.1	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 3500	15.5	64.2	67.4	70.3	75.2	75.8	77.7	79.4	79.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 3000	16.2	67.4	70.7	73.6	79.0	79.7	81.6	83.2	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 2500	17.1	70.0	73.2	76.1	81.6	82.3	84.2	86.1	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000	17.4	72.9	76.5	79.4	84.8	85.5	87.4	89.4	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1800	17.4	72.9	76.5	79.4	84.8	85.5	87.4	89.4	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1500	17.7	76.1	80.3	83.9	89.4	90.0	91.9	93.9	94.2	94.8	94.8	94.8	95.2	95.2	95.2	95.2
≥ 1200	17.7	76.1	80.3	84.2	89.7	90.3	92.3	94.2	94.5	95.2	95.2	95.2	95.5	95.5	95.5	95.5
≥ 1000	17.7	77.7	82.2	85.8	91.3	91.9	93.9	95.8	96.1	97.1	97.1	97.1	97.4	97.4	97.4	97.4
≥ 900	17.7	77.7	82.3	85.8	91.3	91.9	93.9	95.9	96.1	97.1	97.1	97.1	97.4	97.4	97.4	97.4
≥ 800	17.7	78.7	83.2	86.8	92.3	92.9	94.8	97.1	97.4	98.4	98.7	98.7	99.0	99.0	99.0	99.0
≥ 700	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.4	99.4	99.4	99.4
≥ 600	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	99.7	99.7
≥ 500	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	100.0	100.0
≥ 400	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	100.0	100.0
≥ 300	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	100.0	100.0
≥ 200	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	100.0	100.0
≥ 100	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	100.0	100.0
0	17.7	78.7	83.2	86.8	92.6	93.2	95.2	97.4	97.7	98.7	99.0	99.0	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 115

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.9	51.6	54.5	56.8	59.0	59.7	60.0	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 20000	16.5	56.8	60.0	62.6	65.5	66.1	66.5	67.4	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 18000	16.5	57.1	60.3	62.9	65.8	66.5	66.8	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 16000	16.5	57.1	60.3	62.9	65.8	66.5	66.8	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 14000	16.5	59.4	62.6	65.5	68.4	69.0	69.4	70.3	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 12000	16.8	60.3	63.6	66.5	69.7	70.3	70.7	71.6	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 10000	16.8	63.2	66.5	69.7	72.9	73.6	74.2	75.5	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 9000	16.8	63.2	66.5	69.7	72.9	73.6	74.2	75.5	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 8000	17.1	65.2	68.4	71.6	74.8	75.8	76.5	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 7000	17.1	65.5	69.0	72.3	75.5	76.5	77.1	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 6000	17.1	66.8	70.0	73.6	76.8	77.7	78.4	79.7	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000	17.1	67.4	70.7	74.2	77.4	78.4	79.0	80.3	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500	17.1	67.7	71.0	74.5	77.7	78.7	79.4	80.7	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 4000	17.1	68.1	71.3	74.8	78.1	79.0	79.7	81.0	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500	17.4	69.4	72.6	76.5	79.7	80.7	81.3	82.6	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3000	18.1	72.3	75.5	79.4	82.6	83.6	84.2	85.5	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500	18.1	74.8	78.1	81.9	85.2	86.1	86.8	88.1	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2000	18.1	77.4	81.3	85.2	88.4	89.4	90.0	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1800	18.1	77.4	81.3	85.2	88.4	89.4	90.0	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1500	18.1	79.4	83.6	87.4	90.7	91.6	92.3	93.9	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1200	18.1	79.7	83.9	87.7	91.0	91.9	92.6	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1000	18.1	81.9	86.1	90.0	93.6	94.5	95.2	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	18.1	81.9	86.1	90.0	93.6	94.5	95.2	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	18.1	82.2	86.5	90.3	93.9	94.8	95.5	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	18.1	82.3	86.8	90.7	94.2	95.2	95.8	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	18.1	82.3	87.4	91.3	95.2	96.1	96.8	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	18.1	82.9	87.7	91.6	95.5	96.5	97.1	99.0	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.7
≥ 400	18.1	82.9	87.7	91.6	95.5	96.5	97.4	99.4	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0
≥ 300	18.1	82.9	87.7	91.6	95.5	96.5	97.4	99.4	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0
≥ 200	18.1	82.9	87.7	91.6	95.5	96.5	97.4	99.4	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0
≥ 100	18.1	82.9	87.7	91.6	95.5	96.5	97.4	99.4	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0
≥ 0	18.1	82.9	87.7	91.6	95.5	96.5	97.4	99.4	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	JAN

HOURS (LST) :0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.7	67.3	61.9	63.2	64.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 20000	10.7	64.5	66.5	68.1	69.4	69.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000	10.7	64.5	66.5	68.1	69.4	69.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 16000	10.7	64.5	66.5	68.1	69.4	69.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 14000	10.7	64.5	66.8	68.4	69.7	70.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	10.7	66.5	68.4	70.0	71.9	72.3	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 10000	10.7	66.4	70.7	72.3	74.2	74.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 9000	10.7	68.4	70.7	72.3	74.2	74.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 8000	10.7	70.0	72.3	73.9	75.9	76.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 7000	10.7	71.0	73.2	74.8	76.8	77.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 6000	10.8	71.3	73.6	75.2	77.1	77.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 5000	10.8	71.3	73.6	75.2	77.1	77.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 4500	10.7	72.6	74.8	76.5	78.4	78.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 4000	10.8	73.4	75.8	77.7	79.7	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 3500	10.7	74.2	76.8	78.7	80.7	81.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3000	10.7	77.1	79.7	81.6	84.2	84.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 2500	10.7	80.5	82.9	84.8	87.4	87.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000	10.7	83.2	85.8	87.7	90.3	90.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800	10.7	83.2	85.9	88.1	90.7	91.0	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1500	10.7	85.5	88.4	91.0	93.6	93.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200	10.7	86.5	89.4	92.3	94.8	95.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	10.7	87.1	90.0	93.2	96.1	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	10.7	87.1	90.0	93.2	96.5	96.8	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	10.7	87.1	90.0	93.2	96.5	96.8	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0
≥ 400	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0
≥ 300	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.4	99.4
≥ 200	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.7	99.7
≥ 100	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.0	100.0	100.0
0	10.7	87.7	90.7	93.9	97.1	97.4	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	58.1	[illegible]	62.3	64.8	65.2	66.5	66.8	66.8	66.8	67.1	67.1	67.1	67.1	67.1	67.1
≥ 20000	7.7	59.7	61.9	64.8	67.4	67.7	69.0	69.4	69.4	69.4	70.0	70.0	70.0	70.0	70.0	70.0
≥ 18000	7.7	59.7	61.9	64.8	67.4	67.7	69.0	69.4	69.4	69.4	70.0	70.0	70.0	70.0	70.0	70.0
≥ 16000	7.7	59.7	61.9	64.8	67.4	67.7	69.0	69.4	69.4	69.4	70.0	70.0	70.0	70.0	70.0	70.0
≥ 14000	7.7	60.5	62.6	65.5	68.4	68.7	70.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	7.7	61.5	62.9	66.8	70.0	70.3	71.6	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6
≥ 10000	7.7	62.9	65.2	68.4	71.6	71.9	73.2	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 9000	7.7	62.9	65.2	68.4	71.6	71.9	73.2	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	7.7	62.9	65.2	68.7	71.9	72.3	73.6	73.9	73.9	73.9	74.5	74.5	74.5	74.5	74.5	74.5
≥ 7000	7.7	64.8	67.1	70.7	73.9	74.2	75.5	75.8	75.8	75.8	76.5	76.5	76.5	76.5	76.5	76.5
≥ 6000	7.7	65.5	67.7	71.3	74.5	74.8	76.1	76.5	76.5	76.5	77.1	77.1	77.1	77.1	77.1	77.1
≥ 5000	7.7	66.5	68.7	72.3	75.5	75.8	77.1	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500	7.7	67.4	69.7	73.2	76.5	76.8	78.1	78.4	78.4	78.4	79.0	79.0	79.0	79.0	79.0	79.0
≥ 4000	8.1	69.4	71.7	74.8	78.1	78.4	79.7	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500	8.1	69.4	71.9	75.5	78.7	79.0	80.3	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000	8.4	71.0	73.6	77.1	80.3	80.7	82.0	82.3	82.3	82.3	82.9	82.9	82.9	82.9	82.9	82.9
≥ 2500	8.7	74.5	77.1	81.7	83.9	84.2	85.5	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2000	8.7	77.1	80.0	83.6	87.1	87.4	88.7	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800	8.7	77.1	80.0	83.6	87.1	87.4	88.7	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1500	8.7	80.3	83.6	87.1	90.7	91.0	92.3	92.6	92.6	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200	9.4	81.6	85.2	88.7	92.6	92.9	94.2	94.5	94.5	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	9.4	82.9	86.5	90.0	93.9	94.2	95.8	96.1	96.1	96.5	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	9.4	83.2	86.8	90.3	94.2	94.5	96.1	96.5	96.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	9.5	83.6	87.1	90.7	94.5	94.8	96.5	96.8	96.8	97.1	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	9.4	83.9	87.4	91.0	95.2	95.5	97.1	97.4	97.4	97.7	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	9.4	83.9	87.4	91.0	95.2	95.5	97.1	97.4	97.4	97.7	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	9.4	83.9	87.4	91.0	95.2	95.5	97.1	97.4	97.4	97.7	98.4	98.4	98.4	98.4	98.4	98.4
≥ 400	9.4	84.2	87.7	91.3	95.5	95.8	97.4	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	99.0
≥ 300	9.4	84.2	87.7	91.3	95.5	95.8	97.4	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	99.4
≥ 200	9.4	84.2	87.7	91.3	95.5	95.8	97.4	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	99.7
≥ 100	9.4	84.2	87.7	91.3	95.5	95.8	97.4	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	100.0
0	9.4	84.2	87.7	91.3	95.5	95.8	97.4	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 218

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	JAN

HOURS (L S T / L D T): ALL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.1	53.4	55.9	57.6	59.7	60.0	60.8	61.3	61.4	61.7	61.8	61.8	61.8	61.9	62.0	62.2
≥ 20000	12.3	57.0	59.5	61.7	64.1	64.4	65.4	66.0	66.1	66.4	66.6	66.6	66.6	66.7	66.9	67.2
≥ 18000	12.3	57.1	59.7	61.9	64.2	64.5	65.6	66.2	66.2	66.6	66.7	66.7	66.8	66.8	66.9	67.1
≥ 16000	12.3	57.2	59.8	61.9	64.3	64.6	65.6	66.2	66.3	66.6	66.8	66.8	66.8	66.9	67.0	67.2
≥ 14000	12.4	58.0	60.6	62.9	65.4	65.8	66.8	67.5	67.5	67.9	68.1	68.1	68.1	68.2	68.3	68.5
≥ 12000	12.5	58.9	61.6	63.9	66.6	67.0	68.1	68.7	68.8	69.2	69.3	69.3	69.4	69.4	69.5	69.7
≥ 10000	12.7	60.9	63.6	66.1	68.8	69.3	70.6	71.3	71.4	71.8	72.0	72.0	72.1	72.1	72.2	72.4
≥ 9000	12.8	61.1	63.7	66.2	69.0	69.4	70.7	71.4	71.5	72.0	72.1	72.1	72.2	72.3	72.3	72.5
≥ 8000	12.9	62.1	64.9	67.4	70.2	70.7	72.0	72.7	72.9	73.3	73.4	73.4	73.5	73.5	73.6	73.8
≥ 7000	12.9	62.3	65.7	68.3	71.1	71.6	72.9	73.7	73.7	74.2	74.3	74.3	74.4	74.5	74.6	74.8
≥ 6000	12.9	63.4	66.2	68.8	71.6	72.1	73.5	74.2	74.3	74.8	74.9	74.9	75.0	75.0	75.1	75.3
≥ 5000	12.9	64.2	67.0	69.6	72.4	73.0	74.3	75.1	75.2	75.6	75.8	75.8	75.9	75.9	76.0	76.2
≥ 4500	13.0	64.8	67.7	70.3	73.1	73.7	75.0	75.8	75.8	76.3	76.4	76.4	76.5	76.6	76.6	76.9
≥ 4000	13.1	65.7	68.6	71.3	74.1	74.7	76.1	76.8	76.9	77.4	77.5	77.5	77.6	77.7	77.7	77.9
≥ 3500	13.3	67.0	70.1	72.8	75.6	76.2	77.6	78.3	78.4	78.9	79.0	79.0	79.1	79.1	79.2	79.4
≥ 3000	13.7	70.2	73.3	76.1	79.1	79.7	81.1	81.9	82.0	82.5	82.6	82.6	82.7	82.7	82.8	83.0
≥ 2500	13.8	72.5	75.7	78.5	81.6	82.2	83.6	84.4	84.5	85.0	85.2	85.2	85.2	85.3	85.4	85.6
≥ 2000	14.1	75.1	78.6	81.4	84.6	85.2	86.7	87.6	87.7	88.2	88.3	88.3	88.4	88.5	88.5	88.6
≥ 1800	14.1	75.7	78.7	81.6	84.7	85.4	86.9	87.7	87.8	88.3	88.5	88.5	88.5	88.6	88.7	88.9
≥ 1500	14.1	76.1	81.9	85.1	88.5	89.1	90.7	91.6	91.7	92.3	92.4	92.4	92.5	92.5	92.6	92.8
≥ 1200	14.1	78.6	82.5	85.9	89.3	90.0	91.6	92.5	92.6	93.1	93.3	93.3	93.4	93.4	93.5	93.7
≥ 1000	14.1	80.0	84.1	87.6	91.2	91.9	93.6	94.5	94.6	95.2	95.4	95.4	95.5	95.5	95.6	95.9
≥ 900	14.1	80.1	84.2	87.7	91.3	92.0	93.7	94.7	94.8	95.4	95.5	95.5	95.6	95.7	95.8	96.0
≥ 800	14.1	80.3	84.5	87.9	91.7	92.3	94.0	95.1	95.2	95.9	96.0	96.0	96.1	96.2	96.3	96.5
≥ 700	14.1	80.6	84.7	88.2	92.0	92.8	94.5	95.6	95.7	96.3	96.5	96.5	96.6	96.7	96.8	97.0
≥ 600	14.1	80.7	84.8	88.4	92.2	93.0	94.8	95.9	96.0	96.6	96.8	96.8	96.9	97.0	97.1	97.3
≥ 500	14.1	80.8	85.0	88.5	92.7	93.5	95.2	96.4	96.5	97.1	97.3	97.3	97.5	97.6	97.8	98.0
≥ 400	14.1	80.8	85.0	88.6	92.7	93.6	95.4	96.6	96.7	97.3	97.5	97.5	97.9	97.9	98.2	98.4
≥ 300	14.1	80.9	85.1	88.6	92.8	93.6	95.5	96.6	96.8	97.4	97.6	97.6	98.0	98.1	98.5	98.8
≥ 200	14.1	80.9	85.1	88.6	92.8	93.6	95.5	96.6	96.8	97.5	97.7	97.7	98.1	98.1	98.5	99.4
≥ 100	14.1	80.9	85.1	88.6	92.8	93.6	95.5	96.6	96.8	97.5	97.7	97.7	98.1	98.1	98.7	99.5
0	14.1	80.9	85.1	88.6	92.8	93.6	95.5	96.6	96.8	97.5	97.7	97.7	98.1	98.1	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 2479

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
114	SANTA ANA, CALIFORNIA	73-82	FEB

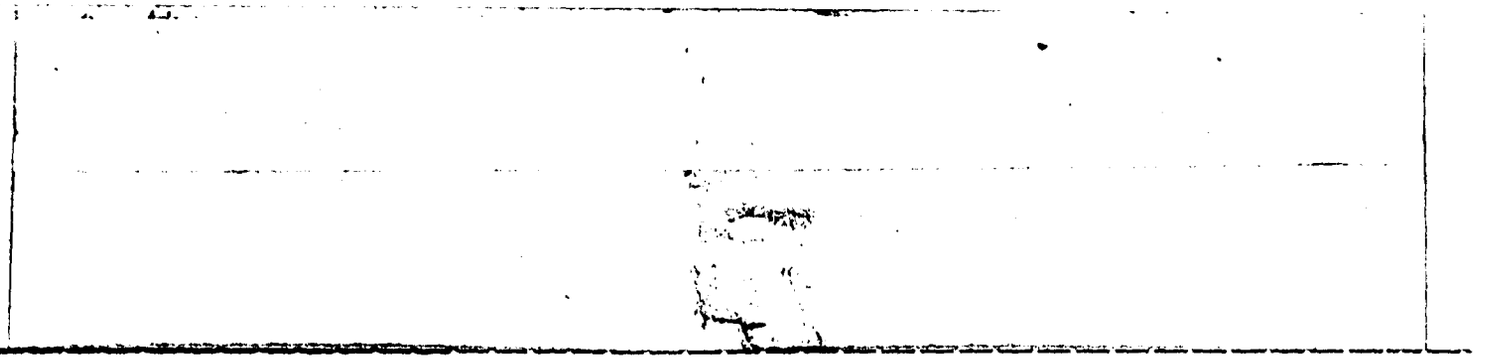
HOURS (L S T) 01

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	59.2	61.0	63.5	63.8	65.3	66.3	66.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	68.1	68.4
≥ 20000	59.5	62.8	65.6	66.2	67.4	68.4	69.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.6	70.9
≥ 18000	59.5	62.8	65.6	66.0	67.4	68.4	69.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.6	70.9
≥ 16000	59.5	62.8	65.6	66.0	67.4	68.4	69.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.6	70.9
≥ 14000	59.5	62.8	66.3	66.7	68.1	69.2	69.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.3	71.6
≥ 12000	59.5	63.1	66.7	67.0	68.4	69.5	70.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.6	72.0
≥ 10000	59.5	64.9	68.4	68.8	70.2	71.3	72.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.4	73.8
≥ 9000	59.8	65.3	68.8	69.2	70.6	71.6	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.8	74.1
≥ 8000	59.9	66.7	70.2	70.6	72.0	73.1	73.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	75.2	75.5
≥ 7000	59.9	67.0	70.6	70.9	72.3	73.4	74.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.5	75.9
≥ 6000	59.9	68.4	72.0	72.3	73.8	74.8	75.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	77.0	77.3
≥ 5000	59.9	68.4	72.0	72.3	73.8	74.8	75.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	77.0	77.3
≥ 4500	59.9	68.8	72.3	72.7	74.1	75.2	75.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.3	77.7
≥ 4000	59.9	68.8	72.3	72.7	74.1	75.2	75.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.3	77.7
≥ 3500	59.9	68.8	72.3	72.7	74.1	75.2	75.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.3	77.7
≥ 3000	59.9	70.2	73.8	74.1	75.9	77.0	77.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.1	79.4
≥ 2500	59.9	72.0	75.6	77.0	78.7	79.8	80.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.9	82.3
≥ 2000	59.9	74.5	78.4	80.1	81.9	83.0	83.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.1	85.5
≥ 1800	59.9	74.5	78.4	80.1	81.9	83.0	83.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.1	85.5
≥ 1500	59.9	75.9	81.2	82.3	84.0	85.1	86.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.6	87.9
≥ 1200	59.9	77.0	82.3	83.3	85.1	86.2	87.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	89.0	89.4
≥ 1000	59.9	78.4	84.8	86.2	87.9	89.0	90.4	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.6	92.9
≥ 900	59.9	78.7	85.1	86.5	88.3	89.4	90.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.9	93.3
≥ 800	59.9	78.7	85.1	86.5	88.3	89.4	90.8	92.6	92.6	92.9	92.9	92.9	92.9	92.9	93.3	93.6
≥ 700	59.9	78.7	85.1	86.5	88.3	89.4	90.8	92.6	92.6	92.9	92.9	92.9	92.9	92.9	93.3	93.6
≥ 600	59.9	78.7	85.1	87.2	89.4	90.4	91.8	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.3	94.7
≥ 500	59.9	79.4	85.9	86.3	90.4	91.8	93.3	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.7	96.1
≥ 400	59.9	79.4	86.2	88.7	90.8	92.2	93.6	95.4	95.4	95.7	95.7	95.7	95.7	95.7	96.1	96.5
≥ 300	59.9	79.4	86.2	88.7	90.8	92.2	93.6	95.4	95.4	95.7	95.7	95.7	95.7	96.1	96.1	96.5
≥ 200	59.9	79.4	86.2	88.7	90.8	92.2	93.6	95.4	95.4	95.7	95.7	95.7	96.1	96.1	96.5	97.9
≥ 100	59.9	79.4	86.2	88.7	90.8	92.2	93.6	95.4	95.4	95.7	95.7	95.7	96.1	96.1	97.2	98.9
0	59.9	79.4	86.2	88.7	90.8	92.2	93.6	95.4	95.4	95.7	95.7	95.7	96.1	96.1	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS 392

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

24
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.2	52.3	53.6	55.3	57.1	57.8	58.5	58.9	58.9	58.9	59.2	59.2	59.2	59.2	59.2	59.4
≥ 20000	9.2	56.4	57.5	59.6	61.7	62.4	63.1	63.5	63.5	63.5	63.8	63.8	63.8	63.8	63.8	64.5
≥ 18000	9.2	56.4	57.5	59.6	61.7	62.4	63.1	63.5	63.5	63.5	63.8	63.8	63.8	63.8	63.8	64.5
≥ 16000	9.2	56.4	57.5	59.6	61.7	62.4	63.1	63.5	63.5	63.5	63.8	63.8	63.8	63.8	63.8	64.5
≥ 14000	9.2	56.7	58.2	60.3	62.4	63.1	63.8	64.2	64.2	64.2	64.5	64.5	64.5	64.5	64.5	65.3
≥ 12000	9.2	57.1	58.5	60.6	62.8	63.5	64.2	64.5	64.5	64.5	64.9	64.9	64.9	64.9	64.9	65.6
≥ 10000	9.2	58.5	60.6	62.8	64.9	65.6	66.3	66.7	66.7	66.7	67.0	67.0	67.0	67.0	67.0	67.7
≥ 9000	10.2	58.9	61.0	63.1	65.3	66.0	66.7	67.0	67.0	67.0	67.4	67.4	67.4	67.4	67.4	68.1
≥ 8000	10.6	59.2	61.4	63.5	65.6	66.3	67.0	67.4	67.4	67.4	67.7	67.7	67.7	67.7	67.7	68.4
≥ 7000	10.6	59.2	62.1	64.2	66.3	67.0	67.7	68.1	68.1	68.1	68.4	68.4	68.4	68.4	68.4	69.2
≥ 6000	10.6	59.9	62.1	64.2	66.3	67.0	67.7	68.1	68.1	68.1	68.4	68.4	68.4	68.4	68.4	69.2
≥ 5000	10.6	59.9	62.4	64.5	66.7	67.4	68.1	68.4	68.4	68.4	68.8	68.8	68.8	68.8	68.8	69.5
≥ 4500	10.9	60.0	63.1	65.3	67.4	68.1	68.8	69.2	69.2	69.2	69.5	69.5	69.5	69.5	69.5	70.2
≥ 4000	10.9	61.4	63.8	66.0	68.1	68.8	69.5	69.9	69.9	69.9	70.2	70.2	70.2	70.2	70.2	70.9
≥ 3500	10.9	61.4	63.8	66.0	68.1	68.8	69.5	69.9	69.9	69.9	70.2	70.2	70.2	70.2	70.2	70.9
≥ 3000	10.9	63.5	66.0	68.1	70.6	71.3	72.0	72.3	72.3	72.3	72.7	72.7	72.7	72.7	72.7	73.4
≥ 2500	10.9	66.7	69.2	71.6	74.1	74.8	75.5	75.9	75.9	75.9	76.2	76.2	76.2	76.2	76.2	77.0
≥ 2000	11.6	69.2	72.0	74.5	77.3	78.0	78.7	79.1	79.1	79.1	79.4	79.4	79.4	79.4	79.4	80.1
≥ 1800	11.6	69.2	72.0	74.5	77.3	78.0	78.7	79.1	79.1	79.1	79.4	79.4	79.4	79.4	79.4	80.1
≥ 1500	12.3	71.6	74.8	78.4	81.2	81.9	83.0	83.3	83.3	83.3	83.7	83.7	83.7	83.7	83.7	84.4
≥ 1200	12.3	72.7	75.9	79.4	82.3	83.0	84.0	84.4	84.4	84.4	84.8	84.8	84.8	84.8	84.8	85.5
≥ 1000	12.3	75.5	79.1	82.6	85.5	86.2	87.2	87.9	87.9	87.9	88.3	88.3	88.3	88.3	88.3	89.0
≥ 900	12.3	75.5	79.1	83.0	85.8	86.9	87.9	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.0	89.7
≥ 800	12.3	75.9	79.4	83.7	86.5	87.6	89.0	89.7	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.8
≥ 700	12.3	75.9	79.4	83.7	86.5	87.6	89.0	89.7	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.8
≥ 600	12.3	76.2	79.8	84.4	87.2	88.3	90.1	90.8	90.8	90.8	91.1	91.1	91.5	91.5	91.5	92.2
≥ 500	12.3	76.6	80.1	85.1	88.3	89.4	91.1	91.8	91.8	91.8	92.2	92.2	92.6	92.6	92.6	93.3
≥ 400	12.3	77.3	80.5	85.5	88.7	90.1	91.8	92.6	92.6	92.6	92.9	92.9	93.3	93.3	93.3	94.0
≥ 300	12.3	77.6	80.5	85.5	88.7	90.1	91.8	92.6	92.6	92.6	92.9	92.9	93.6	93.6	93.6	94.7
≥ 200	12.3	77.9	81.2	86.2	89.4	90.8	92.6	93.6	93.6	93.6	94.0	94.3	94.3	95.4	95.4	96.6
≥ 100	12.3	77.3	81.2	86.2	89.4	90.8	92.6	93.6	93.6	93.6	94.0	94.3	94.3	95.4	95.4	96.2
≥ 0	12.3	77.3	81.2	86.2	89.4	90.8	92.6	93.6	93.6	93.6	94.0	94.3	94.3	95.4	95.4	96.2

TOTAL NUMBER OF OBSERVATIONS 282

DIFNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]14	SANTA ANA, CALIFORNIA	73-52	FEB

HOURS (L S T) 07

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.2	46.5	48.9	50.0	51.4	51.8	52.5	52.8	52.9	53.2	53.2	53.2	53.2	53.2	53.2	53.6
≥ 20000	15.3	51.4	54.6	56.0	57.5	57.8	58.5	59.2	59.2	59.6	59.6	59.6	59.6	59.6	59.6	60.6
≥ 18000	15.3	51.8	55.0	56.4	57.8	58.2	58.9	59.6	59.6	59.9	59.9	59.9	59.9	59.9	59.9	61.0
≥ 16000	15.3	51.8	55.0	56.4	57.8	58.2	58.9	59.6	59.6	59.9	59.9	59.9	59.9	59.9	59.9	61.0
≥ 14000	15.3	51.8	55.3	56.7	58.2	58.5	59.6	60.3	60.3	60.6	60.6	60.6	60.6	60.6	60.6	61.7
≥ 12000	15.6	52.1	55.7	57.1	58.5	58.9	59.9	60.6	60.6	61.0	61.0	61.0	61.0	61.0	61.0	62.1
≥ 10000	15.6	53.6	57.5	58.9	60.6	61.0	62.1	62.8	62.8	63.1	63.1	63.1	63.1	63.1	63.5	64.5
≥ 9000	15.6	53.8	57.5	58.9	60.6	61.0	62.1	62.8	62.8	63.1	63.1	63.1	63.1	63.1	63.5	64.5
≥ 8000	16.7	55.3	59.6	61.0	62.8	63.1	64.5	65.3	65.6	66.0	66.0	66.0	66.0	66.0	66.3	67.4
≥ 7000	16.7	55.7	59.9	61.4	63.1	63.5	64.9	65.6	66.0	66.3	66.3	66.3	66.3	66.3	66.7	67.7
≥ 6000	17.0	56.9	60.3	61.7	63.5	63.8	65.3	66.0	66.3	66.7	66.7	66.7	66.7	66.7	67.0	68.1
≥ 5000	17.3	57.1	61.4	62.8	64.5	64.9	66.3	67.0	67.4	67.7	67.7	67.7	67.7	67.7	68.1	69.2
≥ 4500	17.0	57.5	61.7	63.1	64.9	65.3	66.7	67.4	67.7	68.1	68.1	68.1	68.1	68.1	68.4	69.5
≥ 4000	17.4	58.5	62.8	64.2	66.0	66.3	67.7	68.4	68.8	69.2	69.2	69.2	69.2	69.2	69.5	70.6
≥ 3500	17.4	58.9	63.1	64.5	66.3	66.7	68.1	68.8	69.2	69.5	69.5	69.5	69.5	69.5	69.9	70.9
≥ 3000	17.4	60.6	64.9	66.3	68.1	68.4	69.9	70.6	70.9	71.3	71.3	71.3	71.3	71.3	71.6	72.7
≥ 2500	17.4	62.1	66.3	68.1	69.9	70.2	72.0	72.7	73.1	73.8	73.8	73.8	73.8	73.8	74.1	75.2
≥ 2000	17.7	65.6	69.9	72.0	73.8	74.5	76.2	77.0	77.3	78.4	78.4	78.4	78.4	78.4	78.7	79.8
≥ 1800	17.7	66.0	70.2	72.3	74.1	74.8	76.6	77.3	77.7	78.7	78.7	78.7	78.7	78.7	79.1	80.1
≥ 1500	17.7	67.5	73.8	75.9	78.7	80.1	81.9	82.6	83.0	84.0	84.0	84.0	84.0	84.0	84.4	85.5
≥ 1200	17.7	70.2	74.5	76.6	79.4	80.9	83.0	83.7	84.0	85.1	85.1	85.1	85.1	85.1	85.5	86.5
≥ 1000	17.7	72.3	76.6	78.7	81.6	83.3	86.2	86.9	87.2	88.3	88.3	88.3	88.3	88.3	88.7	89.7
≥ 900	17.7	73.1	77.3	79.4	83.0	84.8	87.6	88.3	88.7	89.7	89.7	89.7	89.7	89.7	90.1	91.1
≥ 800	17.7	73.1	77.3	79.4	83.7	85.8	88.7	89.4	89.7	90.8	90.8	90.8	90.8	90.8	91.1	92.2
≥ 700	17.7	73.1	77.3	79.4	83.7	85.8	89.0	89.7	90.1	91.1	91.1	91.1	91.1	91.1	91.5	92.6
≥ 600	17.7	73.1	77.3	79.4	83.7	86.2	89.4	90.1	90.4	91.5	91.5	91.5	91.5	91.5	91.8	92.9
≥ 500	17.7	73.4	77.7	79.8	84.0	86.5	89.7	90.4	90.8	91.8	91.8	91.8	91.8	91.8	92.2	93.3
≥ 400	17.7	73.4	77.7	79.8	84.0	86.5	89.7	90.4	90.8	91.8	91.8	91.8	91.8	91.8	92.2	93.3
≥ 300	17.7	73.4	77.7	79.8	84.0	86.5	89.7	90.4	90.8	91.8	91.8	91.8	91.8	91.8	92.6	93.6
≥ 200	17.7	73.4	77.7	79.8	84.0	86.5	89.7	90.4	90.8	91.5	91.8	91.8	91.8	91.8	93.6	95.7
≥ 100	17.7	73.4	77.7	79.8	84.0	86.5	89.7	90.4	90.8	91.8	91.8	91.8	91.8	92.2	94.3	97.5
≥ 0	17.7	73.4	77.7	79.8	84.0	86.5	89.7	90.4	90.8	91.8	91.8	91.8	91.8	92.2	94.3	100.0

TOTAL NUMBER OF OBSERVATIONS 282

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	FEB

HOURS (L S T) 10

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.1	45.7	48.2	52.8	55.0	55.3	56.0	56.4	56.4	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 20000	12.4	48.2	50.7	56.4	59.2	59.9	60.6	61.0	61.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 18000	12.4	48.6	51.1	56.7	59.6	60.3	61.0	61.4	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 16000	12.4	48.6	51.1	56.7	59.6	60.3	61.0	61.4	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 14000	12.8	49.3	51.9	57.5	60.3	61.4	62.1	62.8	63.1	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 12000	12.8	49.7	52.1	57.8	60.6	62.1	62.8	63.5	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 10000	12.8	51.4	54.3	59.9	62.8	64.2	65.3	66.0	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 9000	12.8	51.4	54.3	59.9	62.8	64.2	65.3	66.0	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 8000	12.8	51.8	54.6	60.6	63.5	64.9	66.0	66.7	67.0	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 7000	12.8	51.8	55.5	61.0	63.8	65.3	66.3	67.0	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 6000	12.8	51.8	55.0	61.0	63.8	65.3	66.3	67.0	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 5000	13.1	52.5	55.7	61.7	64.9	66.3	67.4	68.1	68.4	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 4500	13.1	52.8	56.0	62.1	65.3	66.7	67.7	68.4	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 4000	13.8	55.2	58.5	64.5	67.7	69.2	70.2	70.9	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 3500	14.1	56.4	59.6	65.6	68.8	70.6	71.6	72.3	72.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 3000	15.3	57.8	62.1	68.4	71.6	73.4	74.5	75.2	75.5	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 2500	15.8	60.6	65.8	72.3	75.9	78.0	79.4	80.1	80.5	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 2000	16.3	63.1	68.1	75.2	79.4	81.9	83.3	84.0	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1800	16.3	63.1	69.1	75.2	79.4	81.9	83.7	84.4	84.8	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 1500	16.3	66.3	71.3	78.4	83.7	86.2	87.9	88.7	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1200	16.3	66.3	71.3	78.7	84.0	86.5	88.3	89.0	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1000	16.3	68.8	73.8	81.6	86.9	89.7	91.8	92.6	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 900	16.3	68.8	73.8	81.6	86.9	89.7	91.8	92.6	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 800	16.3	69.2	74.1	81.9	87.2	90.1	92.2	92.9	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700	16.3	69.2	74.8	82.6	87.9	90.8	92.9	93.6	94.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 600	16.3	69.9	74.8	82.6	87.9	90.8	93.3	94.0	94.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 500	16.3	69.9	74.9	82.6	88.3	91.1	93.6	94.3	94.7	96.1	96.5	96.5	96.5	96.5	96.5	96.5
≥ 400	16.3	69.9	74.8	82.6	88.3	91.1	93.6	94.3	94.7	96.1	96.5	96.5	96.8	96.8	96.8	96.8
≥ 300	16.3	69.9	74.8	82.6	88.3	91.1	93.6	94.3	94.7	96.1	96.8	96.8	97.5	97.5	97.5	97.5
≥ 200	16.3	69.9	74.8	82.6	88.3	91.1	93.6	94.3	94.7	96.5	97.2	97.2	97.9	97.9	98.2	98.9
≥ 100	16.3	69.9	74.8	82.6	88.3	91.1	93.6	94.3	94.7	96.5	97.2	97.2	97.9	97.9	98.2	98.9
≥ 0	16.3	69.9	74.8	82.6	88.3	91.1	93.6	94.3	94.7	96.5	97.2	97.2	97.9	98.2	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 282

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	YEARS	MONTH

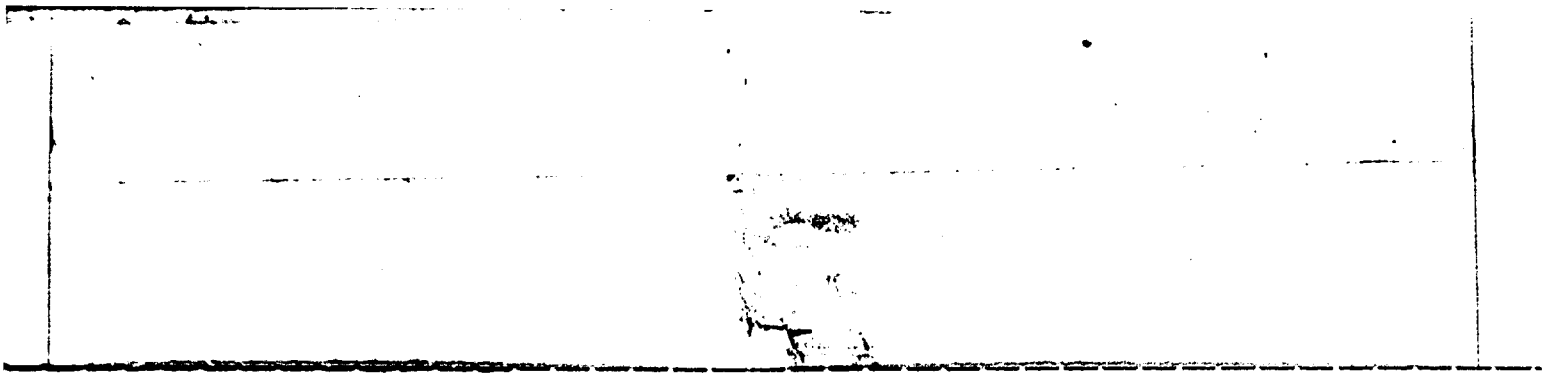
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.2	47.3	50.9	54.1	57.3	58.4	59.8	60.1	61.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 20000	15.3	52.0	55.5	59.4	62.6	64.1	66.2	66.9	68.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 18000	15.3	52.0	55.5	59.4	63.0	64.8	66.9	67.6	68.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 16000	15.3	52.0	55.5	59.4	63.0	64.8	66.9	67.6	68.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 14000	15.3	52.3	55.9	60.1	63.7	65.5	67.6	68.3	69.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 12000	15.7	53.4	56.9	61.2	64.8	66.6	68.7	69.4	70.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 10000	16.0	56.2	59.8	64.1	67.6	69.4	71.5	72.2	73.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 9000	16.0	56.2	59.8	64.1	67.6	69.4	71.5	72.2	73.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 8000	16.3	56.6	60.5	65.1	68.7	70.5	72.6	73.3	74.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 7000	16.3	56.6	60.5	65.1	68.7	70.5	72.6	73.3	74.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 6000	16.0	56.6	60.5	65.1	68.7	70.5	72.6	73.3	74.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 5000	16.4	57.3	61.2	65.8	69.4	71.2	73.3	74.0	75.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 4500	16.7	58.7	62.6	67.3	70.8	72.6	74.7	75.4	76.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 4000	16.7	59.1	63.4	68.0	71.5	73.3	75.4	76.2	77.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 3500	16.7	60.5	64.8	69.4	73.0	74.7	76.9	77.6	78.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 3000	17.8	63.7	68.7	73.3	76.9	79.0	81.1	81.9	82.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 2500	18.9	63.0	73.0	77.6	81.1	83.3	85.4	86.1	87.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 2000	19.2	71.5	76.9	81.5	85.4	87.5	89.7	90.4	91.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800	19.2	72.2	77.6	82.2	86.1	88.3	90.4	91.1	92.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500	19.2	74.4	79.7	84.3	88.3	90.4	92.5	93.2	94.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	19.2	74.4	79.7	84.7	88.6	90.8	92.9	93.6	95.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	19.6	76.2	81.9	86.8	91.1	93.2	95.4	96.1	97.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	19.6	76.2	81.9	86.8	91.1	93.2	95.4	96.1	97.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	19.6	76.2	81.9	86.8	91.5	93.6	95.7	96.4	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	19.6	76.2	82.2	87.2	92.2	94.3	96.4	97.2	98.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	19.6	76.5	82.2	87.2	92.2	94.3	96.4	97.2	98.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	19.6	76.9	82.6	87.5	92.5	94.7	96.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	19.6	76.9	82.6	87.5	92.5	94.7	96.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	19.6	76.9	82.6	87.5	92.5	94.7	96.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	19.6	76.9	82.6	87.5	92.5	94.7	96.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	19.6	76.9	82.6	87.5	92.5	94.7	96.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	19.6	76.9	82.6	87.5	92.5	94.7	96.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 291

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	YEARS	MONTH

15
HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.3	55.1	57.5	59.2	60.2	60.6	62.8	63.5	63.9	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 20000	17.4	61.7	64.2	64.9	67.7	68.1	70.2	70.9	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 18000	17.4	61.7	64.2	64.9	67.7	68.4	70.6	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000	17.4	61.7	64.2	64.9	67.7	68.4	70.6	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000	17.4	62.9	65.3	66.3	69.5	70.2	72.3	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 12000	17.4	63.8	66.7	67.7	70.9	71.6	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000	18.1	66.3	69.2	70.2	73.4	74.1	76.2	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 9000	18.1	66.3	69.2	70.2	73.4	74.1	76.2	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 8000	18.1	67.7	70.6	71.6	74.8	75.5	77.7	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000	18.1	68.4	71.3	72.3	75.5	76.2	78.4	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 6000	18.8	69.2	72.0	73.1	76.2	77.0	79.1	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 5000	18.8	69.2	72.0	73.1	76.2	77.0	79.1	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 4500	18.8	69.5	72.3	73.4	76.6	77.3	79.4	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 4000	19.2	70.6	73.4	74.8	78.4	79.1	81.2	81.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 3500	19.2	71.3	74.1	75.5	79.1	79.8	81.9	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000	19.9	73.4	76.2	78.0	81.6	82.3	84.4	85.1	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 2500	20.2	77.0	79.8	81.6	85.5	86.2	88.3	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2000	20.6	79.8	82.6	84.4	88.3	89.0	91.1	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800	20.9	80.9	83.7	85.5	89.4	90.1	92.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	20.9	82.3	85.1	87.2	91.1	91.8	94.3	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1200	20.9	82.6	85.5	87.9	91.8	92.6	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	20.9	84.0	86.9	89.4	93.6	94.3	96.8	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 900	20.9	84.0	86.9	89.4	93.6	94.7	97.2	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 800	20.9	84.4	87.2	89.7	94.3	95.0	97.5	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	20.9	84.4	87.2	89.7	94.3	95.0	97.5	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	20.9	84.4	87.6	90.1	94.7	95.4	97.9	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	20.9	84.8	87.9	90.4	95.0	95.7	98.6	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	20.9	84.8	87.9	90.4	95.0	95.7	98.6	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	20.9	84.8	87.9	90.4	95.0	95.7	98.6	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	20.9	84.8	87.9	90.4	95.0	95.7	98.6	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	20.9	84.8	87.9	90.4	95.0	95.7	98.6	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	20.9	84.8	87.9	90.4	95.0	95.7	98.6	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 282

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-77 (YEARS) | FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19 (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	60.3	62.4	[illegible]	66.3	68.3	67.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 20000	[illegible]	[illegible]	67.4	69.5	71.6	71.6	73.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 18000	[illegible]	[illegible]	67.4	69.5	71.6	71.6	73.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 16000	[illegible]	[illegible]	67.4	69.5	71.6	71.6	73.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 14000	[illegible]	[illegible]	69.8	70.9	73.1	73.1	74.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 12000	[illegible]	57.4	69.9	72.0	74.1	74.1	75.5	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 10000	[illegible]	69.9	72.3	74.5	76.6	76.6	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 9000	[illegible]	69.9	72.3	74.5	76.6	76.6	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 8000	[illegible]	70.6	73.1	75.5	77.7	77.7	79.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 7000	[illegible]	72.0	74.5	77.0	79.1	79.1	80.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000	[illegible]	72.7	75.2	77.7	79.8	79.8	81.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000	[illegible]	73.1	75.9	78.4	80.5	80.5	81.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500	[illegible]	74.1	77.0	79.4	81.6	81.6	83.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4000	[illegible]	75.5	78.4	80.9	83.0	83.0	84.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 3500	[illegible]	77.3	80.1	82.6	84.8	84.8	86.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3000	[illegible]	79.4	82.3	84.8	87.2	87.2	88.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 2500	[illegible]	80.1	83.3	85.8	88.3	88.3	89.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2000	[illegible]	82.3	85.8	87.9	90.4	90.4	91.8	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	[illegible]	82.3	85.5	87.9	90.4	90.4	91.8	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	[illegible]	84.8	87.9	90.4	92.9	92.9	94.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	[illegible]	85.1	88.3	90.8	93.3	93.3	94.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	[illegible]	86.2	89.4	91.8	94.3	94.3	95.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 900	[illegible]	86.5	89.7	92.2	94.7	94.7	96.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800	[illegible]	86.5	89.7	92.2	94.7	94.7	96.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	[illegible]	86.5	89.7	92.2	94.7	94.7	96.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 600	[illegible]	86.9	90.1	92.6	95.4	95.4	97.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	[illegible]	87.2	90.4	92.9	95.7	95.7	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	[illegible]	87.6	90.8	93.3	96.1	96.1	97.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	[illegible]	87.6	90.8	93.3	96.1	96.1	97.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	[illegible]	87.6	90.8	93.3	96.1	96.1	97.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	[illegible]	87.6	90.8	93.3	96.1	96.1	97.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0	[illegible]	87.6	90.8	93.3	96.1	96.1	97.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[redacted] (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.8	61.1	63.1	65.3	66.7	67.7	68.8	69.2	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 20000	7.8	63.1	65.3	67.4	68.8	69.9	70.9	71.6	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0
AVAI 18000	7.8	63.1	65.3	67.4	68.8	69.9	70.9	71.6	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0
AVAI 16000	7.8	63.1	65.3	67.4	68.8	69.9	70.9	71.6	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0
AVAI 14000	7.8	64.2	66.3	68.4	69.9	70.9	72.0	72.7	72.7	73.1	73.1	73.1	73.1	73.1	73.1	73.1
AVAI 12000	7.8	65.3	67.4	69.5	70.9	72.0	73.1	73.8	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1
AVAI 10000	8.2	67.4	69.5	71.6	73.1	74.1	75.2	75.9	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2
AVAI 9000	8.2	67.4	69.5	71.6	73.1	74.1	75.2	75.9	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2
AVAI 8000	8.2	68.4	70.6	72.7	74.1	75.2	76.2	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3
AVAI 7000	8.2	69.2	71.3	73.4	74.8	75.9	77.0	77.7	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0
AVAI 6000	8.2	69.9	72.0	74.1	75.5	76.6	77.7	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7
AVAI 5000	8.2	70.1	72.2	74.8	76.2	77.3	78.4	79.1	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4
AVAI 4500	8.2	70.9	73.1	75.2	76.6	77.7	78.7	79.4	79.4	79.8	79.8	79.8	79.8	79.8	79.8	79.8
AVAI 4000	8.2	71.6	73.8	75.9	77.3	78.4	79.4	80.1	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5
AVAI 3500	8.2	72.3	74.5	76.6	78.0	79.1	80.1	80.9	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2
AVAI 3000	8.2	75.5	77.7	79.8	81.6	82.6	83.7	84.4	84.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8
AVAI 2500	8.2	76.2	78.7	80.9	82.6	83.7	84.8	85.5	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8
AVAI 2000	8.2	79.4	82.6	84.8	86.5	87.6	88.7	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
AVAI 1800	8.2	79.8	83.0	85.1	86.8	87.9	89.0	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1
AVAI 1500	8.2	80.2	84.0	86.5	88.3	89.4	90.4	91.1	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5
AVAI 1200	8.2	80.9	84.4	86.9	88.7	89.7	90.8	91.5	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8
AVAI 1000	8.2	82.6	86.2	88.4	91.8	92.9	94.1	94.7	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0
AVAI 900	8.2	83.0	86.5	89.7	92.3	93.3	94.3	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4
AVAI 800	8.2	83.0	86.5	89.7	92.2	93.3	94.7	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7
AVAI 700	8.2	83.0	86.5	89.7	92.2	93.3	95.0	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AVAI 600	8.2	83.3	86.9	90.0	93.3	94.3	96.1	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
AVAI 500	8.2	83.3	87.2	91.1	94.0	95.0	96.8	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
AVAI 400	8.2	83.3	87.2	91.1	94.0	95.0	97.2	97.9	97.9	98.2	98.2	98.2	98.2	98.6	98.6	98.6
AVAI 300	8.2	83.3	87.2	91.1	94.3	95.4	97.5	98.2	98.2	98.6	98.6	98.6	98.6	98.9	98.9	99.3
AVAI 200	8.2	83.3	87.2	91.1	94.3	95.4	97.5	98.2	98.2	98.6	98.6	98.6	98.6	98.9	98.9	99.3
AVAI 100	8.2	83.3	87.2	91.1	94.3	95.4	97.5	98.2	98.2	98.6	98.6	98.6	98.6	98.9	98.9	99.3
0	8.2	83.3	87.2	91.1	94.3	95.4	97.5	98.2	98.2	98.6	98.6	98.6	98.6	98.9	98.9	99.3

		100.0
TOTAL NUMBER OF OBSERVATIONS		552

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 72-[illegible] (YEARS) | FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.9	53.7	56.0	58.0	59.9	60.5	61.6	62.2	62.4	62.7	62.7	62.7	62.7	62.7	62.8	62.9
≥ 20000	12.1	57.5	60.1	62.9	64.6	65.2	66.5	67.2	67.5	67.8	67.8	67.8	67.8	67.8	67.9	68.1
≥ 18000	12.3	57.7	60.2	62.5	64.7	65.5	66.7	67.5	67.7	68.0	68.0	68.0	68.0	68.0	68.1	68.2
≥ 16000	12.3	57.7	60.2	62.5	64.7	65.5	66.7	67.5	67.7	68.0	68.0	68.0	68.0	68.0	68.1	68.3
≥ 14000	12.4	58.3	61.0	63.4	65.6	66.5	67.7	68.5	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.4
≥ 12000	12.4	58.4	61.1	64.1	66.4	67.3	68.5	69.3	69.5	69.8	69.9	69.9	69.9	69.9	70.0	70.2
≥ 10000	12.5	61.0	64.0	66.3	68.7	69.5	70.8	71.6	71.8	72.2	72.2	72.2	72.2	72.2	72.3	72.6
≥ 9000	12.4	61.1	64.2	66.4	68.7	69.6	70.9	71.7	71.9	72.2	72.3	72.3	72.3	72.3	72.4	72.6
≥ 8000	12.6	62.2	65.1	67.6	69.9	70.8	72.1	72.9	73.2	73.5	73.5	73.5	73.5	73.5	73.6	73.9
≥ 7000	12.4	62.6	65.6	68.2	70.5	71.4	72.7	73.5	73.8	74.1	74.1	74.1	74.1	74.1	74.2	74.5
≥ 6000	12.6	63.1	66.1	68.7	71.0	71.8	73.2	74.0	74.2	74.6	74.6	74.6	74.6	74.6	74.7	74.9
≥ 5000	12.9	63.5	66.7	69.2	71.5	72.4	73.8	74.6	74.9	75.1	75.2	75.2	75.2	75.2	75.3	75.6
≥ 4500	12.9	64.1	67.3	69.8	72.2	73.0	74.4	75.2	75.4	75.7	75.8	75.8	75.8	75.8	75.9	76.1
≥ 4000	13.1	65.1	68.3	70.8	73.3	74.2	75.5	76.3	76.5	76.9	76.9	76.9	76.9	76.9	77.0	77.2
≥ 3500	13.2	65.9	69.1	71.6	74.0	74.9	76.3	77.1	77.3	77.7	77.7	77.7	77.7	77.7	77.8	78.1
≥ 3000	13.6	66.6	71.4	74.1	76.7	77.7	79.0	79.8	80.0	80.4	80.4	80.4	80.4	80.4	80.5	81.3
≥ 2500	15.1	71.3	74.1	76.9	79.5	80.5	82.0	82.8	83.1	83.4	83.5	83.5	83.5	83.5	83.6	83.8
≥ 2000	14.1	73.2	77.1	80.0	82.9	84.0	85.4	86.2	86.5	86.9	87.0	87.0	87.0	87.0	87.1	87.3
≥ 1800	14.1	73.5	77.4	80.4	83.2	84.3	85.8	86.6	86.9	87.3	87.3	87.3	87.3	87.3	87.4	87.7
≥ 1500	14.1	75.7	79.7	82.9	86.0	87.2	88.8	89.6	89.9	90.3	90.4	90.4	90.4	90.4	90.5	90.7
≥ 1200	14.1	76.1	80.2	83.6	86.7	87.9	89.5	90.3	90.6	91.0	91.1	91.1	91.1	91.1	91.2	91.4
≥ 1000	14.2	78.0	82.3	85.8	89.1	90.4	92.2	93.1	93.4	93.8	93.9	93.9	93.9	93.9	94.0	94.2
≥ 900	14.2	78.2	82.5	86.1	89.5	90.8	92.6	93.6	93.9	94.3	94.3	94.3	94.3	94.3	94.4	94.7
≥ 800	14.2	78.4	82.7	86.3	89.8	91.2	93.1	94.0	94.3	94.9	94.9	94.9	94.9	94.9	95.0	95.3
≥ 700	14.2	78.4	82.8	86.4	90.0	91.4	93.4	94.3	94.6	95.1	95.2	95.2	95.2	95.2	95.3	95.5
≥ 600	14.3	78.5	83.0	86.7	90.5	91.7	94.0	94.9	95.3	95.8	95.8	95.8	95.9	95.9	96.0	96.2
≥ 500	14.3	78.9	83.3	87.2	91.0	92.5	94.7	95.6	95.9	96.5	96.6	96.6	96.6	96.6	96.7	97.0
≥ 400	14.3	79.1	83.5	87.4	91.2	92.7	94.9	95.8	96.1	96.7	96.8	96.8	96.9	96.9	97.0	97.3
≥ 300	14.3	79.4	83.9	87.4	91.2	92.7	94.9	95.9	96.2	96.8	96.9	96.9	97.2	97.2	97.3	97.7
≥ 200	14.3	79.1	83.6	87.5	91.3	92.8	95.0	96.0	96.3	97.0	97.2	97.2	97.5	97.5	97.8	98.2
≥ 100	14.3	79.1	83.6	87.5	91.3	92.8	95.0	96.0	96.3	97.0	97.2	97.2	97.5	97.5	98.1	99.1
0	14.3	79.1	83.6	87.5	91.3	92.8	95.0	96.0	96.3	97.0	97.2	97.2	97.5	97.6	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 2215

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA 73-82 MAR

STATION STATION NAME YEARS MONTH

01

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	67.5	67.2	67.6	67.6	[illegible]	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 20000	[illegible]	67.2	67.2	67.5	67.5	[illegible]	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 18000	[illegible]	67.5	67.5	67.8	67.8	[illegible]	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 16000	[illegible]	67.4	67.5	67.8	67.8	[illegible]	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 14000	[illegible]	67.9	67.9	67.9	67.9	[illegible]	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 12000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 10000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 9000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 8000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 7000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 6000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 5000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 4500	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 4000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 3500	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 3000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 2500	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 2000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 1800	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 1500	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 1200	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 1000	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 900	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 800	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 700	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 600	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 500	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 400	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 300	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 200	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 100	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	100.0
0	[illegible]	68.2	68.2	68.2	68.2	[illegible]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIPNAVOCEANMET SIMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA [illegible] MAY
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

04
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	57.1	58.1	58.1	59.4	58.4	58.4	58.4	58.4	58.4	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	[illegible]	59.[illegible]	60.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000	[illegible]	59.[illegible]	60.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0
≥ 16000	[illegible]	59.[illegible]	60.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0
≥ 14000	[illegible]	59.4	60.3	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000	[illegible]	59.4	60.3	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.6	61.6	61.6	61.6	61.6	61.6
≥ 10000	[illegible]	61.0	61.9	62.6	62.9	62.9	62.9	62.9	62.9	62.9	63.2	63.2	63.2	63.2	63.2	63.2
≥ 9000	[illegible]	61.0	61.9	62.6	62.9	62.9	62.9	62.9	62.9	62.9	63.2	63.2	63.2	63.2	63.2	63.2
≥ 8000	[illegible]	61.0	61.9	62.6	62.9	63.2	63.2	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6
≥ 7000	[illegible]	61.[illegible]	61.9	62.6	62.9	63.2	63.2	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6
≥ 6000	[illegible]	61.6	62.6	63.2	63.6	63.9	63.9	63.9	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2
≥ 5000	[illegible]	62.3	63.6	64.2	64.5	64.8	64.8	64.8	64.8	64.8	65.2	65.2	65.2	65.2	65.2	65.2
≥ 4500	[illegible]	62.6	63.9	64.5	64.8	65.2	65.2	65.2	65.2	65.2	65.5	65.5	65.5	65.5	65.5	65.5
≥ 4000	[illegible]	64.5	65.8	66.5	66.8	67.1	67.1	67.1	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4
≥ 3500	[illegible]	66.1	67.4	68.1	68.4	68.7	68.7	68.7	68.7	68.7	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3000	[illegible]	72.9	74.5	75.2	75.5	75.8	75.8	75.8	75.8	75.8	76.1	76.1	76.1	76.1	76.1	76.1
≥ 2500	[illegible]	78.7	80.3	81.0	81.6	81.9	81.9	81.9	81.9	81.9	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2000	[illegible]	81.6	83.9	85.2	85.8	86.1	86.1	86.1	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1800	[illegible]	81.9	84.5	85.8	86.5	86.8	86.8	86.8	86.8	86.8	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500	[illegible]	85.2	88.7	91.0	91.6	91.9	91.9	91.9	91.9	91.9	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1200	[illegible]	86.1	90.0	92.3	92.9	93.2	93.2	93.2	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000	[illegible]	87.7	91.6	93.9	94.5	94.8	94.8	94.8	94.8	94.8	95.2	95.2	95.2	95.2	95.2	95.2
≥ 900	[illegible]	87.7	91.9	94.2	95.2	95.5	95.5	95.5	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	[illegible]	88.7	92.9	95.5	96.8	97.1	97.1	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	[illegible]	88.7	92.9	95.5	96.8	97.1	97.1	97.1	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	[illegible]	88.7	93.2	95.8	97.1	97.4	97.4	97.4	97.4	97.7	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	[illegible]	89.[illegible]	93.6	96.1	97.4	97.7	97.7	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	[illegible]	89.[illegible]	93.6	96.1	97.4	97.7	97.7	97.7	97.7	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	[illegible]	[illegible]	93.6	96.1	97.4	97.7	97.7	97.7	97.7	98.1	98.7	98.7	98.7	98.7	99.0	99.0
≥ 200	[illegible]	[illegible]	93.8	96.1	97.4	97.7	97.7	97.7	97.7	98.1	98.7	98.7	98.7	98.7	99.4	99.7
≥ 100	[illegible]	[illegible]	93.[illegible]	96.1	97.4	97.7	97.7	97.7	97.7	98.1	98.7	98.7	98.7	98.7	99.4	100.0
≥ 0	[illegible]	[illegible]	93.[illegible]	96.1	97.4	97.7	97.7	97.7	97.7	98.1	98.7	98.7	98.7	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMCs

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH MAY

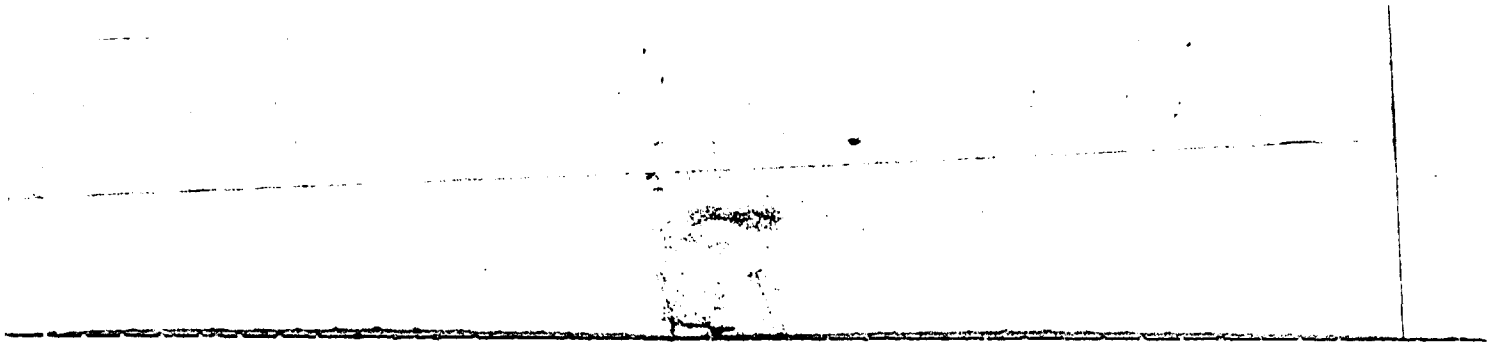
HOURS (L.S.T.) 07

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

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

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

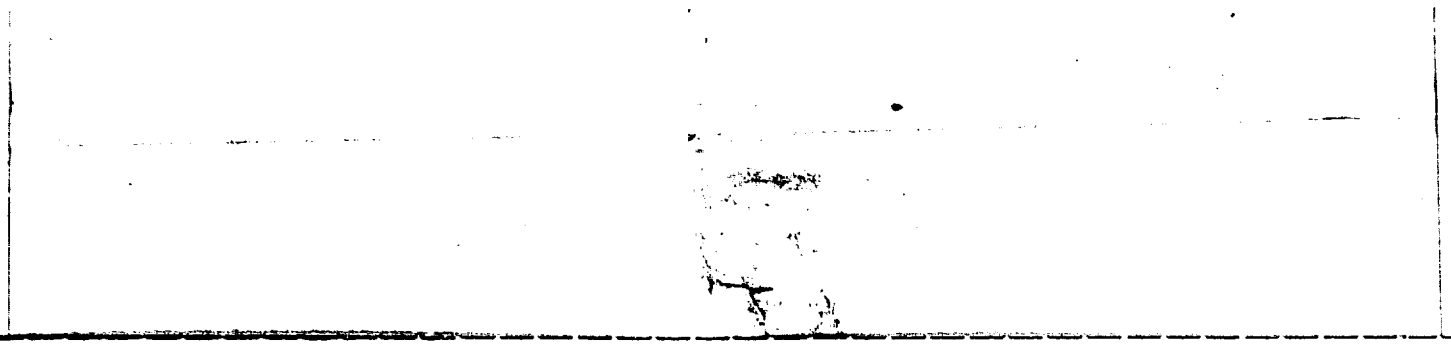
STATION	STATION NAME	YEARS	MONTH
[illegible]14	SANTA ANA, CALIFORNIA	73-82	MAR

HOURS (L S T): 10

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	13.6	45.8	47.1	48.7	50.3	50.7	51.3	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 20000	13.6	47.7	49.7	51.9	53.6	54.2	55.2	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 18000	13.6	48.1	50.0	52.3	53.9	54.5	55.5	55.8	55.8	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 16000	13.6	48.1	50.0	52.3	53.9	54.5	55.5	55.8	55.8	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 14000	13.6	48.7	50.7	52.9	54.5	55.2	56.1	56.5	56.5	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 12000	13.6	49.0	51.0	53.2	54.8	55.8	56.8	57.1	57.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 10000	13.9	50.0	51.9	54.2	56.1	56.8	57.7	58.1	58.1	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 9000	13.9	50.0	51.9	54.2	56.1	56.8	57.7	58.1	58.1	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 8000	14.2	50.7	52.6	54.8	56.8	57.4	58.4	58.7	58.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 7000	14.2	51.9	53.9	56.1	58.1	58.7	59.7	60.0	60.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 6000	14.2	52.3	54.2	56.5	58.4	59.0	60.0	60.3	60.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 5000	14.2	54.5	56.8	59.0	61.0	61.6	62.6	62.9	62.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 4500	14.2	55.5	57.7	60.0	61.9	62.6	63.6	63.9	63.9	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 4000	14.5	57.7	60.0	62.3	64.2	64.8	65.8	66.1	66.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 3500	14.5	58.7	61.6	63.9	65.8	66.5	67.4	67.7	67.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 3000	17.1	65.5	68.7	71.0	73.2	73.9	74.8	75.2	75.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 2500	17.4	71.0	74.2	76.5	78.7	79.4	80.7	81.0	81.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2000	19.3	76.5	80.0	82.3	85.2	85.8	87.1	87.4	87.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800	19.7	76.5	80.0	82.3	85.5	86.1	87.4	87.7	87.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500	19.7	80.0	84.2	86.5	90.0	90.7	91.9	92.3	92.3	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200	19.7	80.0	84.8	87.1	90.7	91.3	92.6	92.9	92.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	20.0	83.2	88.1	90.7	94.5	95.5	96.8	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	20.0	83.2	88.1	90.7	94.5	95.5	96.8	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	20.0	83.2	88.1	90.7	94.5	95.8	97.1	97.4	97.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	20.0	83.2	88.1	90.7	94.5	95.8	97.1	97.4	97.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	20.0	83.2	88.1	90.7	94.5	95.8	97.1	97.4	97.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	20.0	83.2	88.1	90.7	94.5	95.8	97.1	97.7	98.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	20.0	83.2	88.1	90.7	94.5	95.8	97.1	97.7	98.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	20.0	83.2	88.1	91.0	94.8	96.1	97.4	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	20.0	83.2	88.1	91.0	94.8	96.1	97.4	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	20.0	83.2	88.1	91.0	94.8	96.1	97.4	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
0	20.0	83.2	88.1	91.0	94.8	96.1	97.4	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	73-82	MAR
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.5	53.9	54.5	56.1	57.1	57.1	57.4	57.7	57.7	58.1	58.1	58.1	58.2	58.1	58.1	58.1
≥ 20000	16.3	58.1	59.7	61.6	62.6	62.9	63.6	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 18000	16.3	58.1	59.7	61.6	62.6	62.9	63.6	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 16000	16.3	58.1	59.7	61.6	62.6	62.9	63.6	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000	16.3	58.1	59.7	61.6	62.6	62.9	63.6	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 12000	17.1	59.0	60.7	62.6	63.6	63.9	64.5	65.2	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 10000	17.1	60.7	62.3	64.2	65.2	65.5	66.1	66.3	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 9000	17.1	60.7	62.3	64.2	65.2	65.5	66.1	66.8	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000	17.4	61.0	62.6	64.5	65.5	65.8	66.5	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 7000	17.4	62.3	63.9	65.8	66.8	67.1	67.7	68.4	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 6000	17.4	62.9	64.5	66.5	67.4	67.7	68.4	69.0	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 5000	17.4	64.5	66.1	68.1	69.0	69.4	70.0	70.7	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4500	17.7	65.8	67.4	69.4	70.3	70.7	71.3	71.9	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4000	18.1	67.1	68.7	70.7	71.6	71.9	72.6	73.2	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3500	18.7	69.0	70.7	72.6	73.6	73.9	74.5	75.2	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3000	20.0	75.3	76.8	78.7	79.7	80.3	81.0	81.6	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2500	21.9	82.3	84.2	86.5	87.4	88.1	88.7	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2000	22.5	87.1	89.4	91.9	92.9	93.6	94.2	94.8	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1800	22.6	87.9	89.7	92.3	93.2	93.9	94.5	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500	22.6	88.7	91.0	92.9	95.2	95.8	96.8	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1200	22.6	89.0	91.3	93.2	95.5	96.1	97.1	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000	22.6	89.7	91.9	95.2	96.5	97.1	98.4	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	22.6	89.7	91.9	95.2	96.5	97.1	98.4	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	22.6	89.7	91.9	95.2	96.5	97.1	98.4	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	22.6	89.7	91.9	95.2	96.5	97.1	98.4	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	22.6	90.0	92.3	95.5	96.8	97.4	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	22.6	90.0	92.3	95.5	97.1	97.7	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	22.6	90.0	92.3	95.5	97.1	97.7	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	22.6	90.0	92.3	95.5	97.1	97.7	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	22.6	90.0	92.3	95.5	97.1	97.7	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	22.6	90.0	92.3	95.5	97.1	97.7	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	22.6	90.0	92.3	95.5	97.1	97.7	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA 73-82 [illegible]
STATION | STATION NAME | YEARS | MONTH

16
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	16.4	62.3	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 20000	19.4	66.8	68.4	68.7	69.0	69.0	69.4	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 18000	19.4	66.8	68.4	68.7	69.0	69.0	69.4	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 16000	19.4	66.8	68.4	68.7	69.0	69.0	69.4	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 14000	19.7	67.1	68.7	69.0	69.4	69.4	69.7	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 12000	19.7	67.7	69.4	69.7	70.0	70.0	70.3	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 10000	20.0	69.7	71.3	71.6	71.9	71.9	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 9000	20.0	69.7	71.3	71.6	71.9	71.9	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 8000	20.0	70.0	71.6	71.9	72.3	72.3	72.9	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 7000	20.0	70.0	71.9	72.3	72.6	72.6	73.2	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000	20.0	71.3	73.2	73.6	73.9	73.9	74.5	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000	20.3	71.6	73.6	73.9	74.2	74.2	74.8	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 4500	21.0	73.9	75.8	76.1	76.5	76.5	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000	21.0	74.8	77.1	77.4	77.7	77.7	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500	21.3	75.8	78.1	78.4	78.7	78.7	79.4	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 3000	21.6	81.3	83.6	83.9	84.2	84.2	84.8	84.8	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 2500	23.2	86.1	88.4	88.7	89.0	89.0	89.7	89.7	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000	23.6	89.4	91.6	91.9	92.3	92.3	92.9	93.2	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1800	23.6	90.0	92.3	92.6	92.9	92.9	93.6	93.9	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1500	23.9	93.6	95.8	96.1	96.5	96.5	97.1	97.4	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	23.9	93.6	95.8	96.2	96.5	96.5	97.1	97.4	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000	23.9	94.2	96.5	97.1	97.4	97.4	98.1	98.4	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	23.9	94.5	96.8	97.4	97.7	97.7	98.4	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	23.9	94.5	96.8	97.4	97.7	97.7	98.4	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	23.9	94.5	96.8	97.4	97.7	97.7	98.7	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	23.9	94.8	97.1	97.7	98.1	98.1	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA 73-82 MAR

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	65.8	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 20000	70.7	69.4	69.7	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000	70.7	69.4	69.7	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 16000	70.7	69.4	69.7	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 14000	70.7	70.0	70.3	71.0	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 12000	71.0	70.7	70.7	71.3	71.6	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 10000	71.0	72.3	72.6	73.2	73.6	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 9000	71.0	72.6	72.9	73.6	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	71.0	73.2	73.6	74.5	74.8	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 7000	71.0	73.2	73.6	74.5	74.8	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	71.0	73.6	73.9	75.2	75.5	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 5000	71.3	76.5	76.8	78.1	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500	71.3	78.1	78.4	79.7	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 4000	71.6	79.4	79.7	81.0	81.3	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3500	71.6	80.3	80.7	81.9	82.3	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000	71.9	84.0	85.2	86.5	86.8	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	71.9	87.4	88.1	89.4	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2000	72.3	90.7	91.3	92.6	92.9	92.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800	72.3	91.0	91.6	92.9	93.2	93.2	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1500	72.3	93.6	94.5	95.8	96.1	96.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	72.3	93.9	94.8	96.1	96.5	96.5	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000	72.3	95.2	96.1	97.4	97.7	97.7	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	72.3	95.2	96.1	97.4	97.7	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	72.3	95.5	96.8	98.1	98.4	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	72.3	95.8	97.4	98.7	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	72-92	MAR
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.7	65.5	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 20000	9.8	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 18000	9.8	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 16000	9.8	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 14000	9.8	68.4	68.4	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 12000	9.8	69.0	69.0	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 10000	9.8	69.4	69.4	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000	9.8	69.4	69.4	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 8000	9.7	71.3	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 7000	9.7	71.9	71.9	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 6000	9.7	71.9	71.9	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000	10.0	72.6	72.6	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	10.0	73.9	73.9	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	10.0	74.8	74.8	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 3500	10.0	77.1	77.1	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000	10.0	81.9	81.9	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 2500	10.3	84.8	85.2	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 2000	10.7	89.4	90.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800	10.7	90.0	90.7	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1500	10.7	92.3	93.2	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200	10.7	92.3	93.6	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	10.7	94.2	95.5	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900	10.7	94.5	95.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	10.7	95.2	96.5	98.1	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	10.7	95.2	96.5	98.1	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	10.7	95.2	96.5	98.1	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	10.7	95.5	96.8	98.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	10.7	95.5	96.8	98.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	10.7	95.5	96.8	98.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0
≥ 200	10.7	95.5	96.8	98.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0
≥ 100	10.7	95.5	96.8	98.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0
≥ 0	10.7	95.5	96.8	98.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | MAR (MONTH) | ALL (HOURS (LST))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	57.7	58.5	59.3	59.8	59.8	60.0	60.1	60.1	60.3	60.3	60.3	60.3	60.4	60.4	60.4
≥ 20000	12.1	60.4	61.2	62.6	63.2	63.3	63.5	63.7	63.7	63.9	64.0	64.0	64.0	64.0	64.0	64.1
≥ 18000	12.1	60.6	61.7	62.7	63.3	63.4	63.7	63.8	63.9	64.1	64.1	64.1	64.1	64.2	64.2	64.2
≥ 16000	12.1	60.6	61.7	62.7	63.3	63.4	63.7	63.8	63.9	64.1	64.1	64.1	64.1	64.2	64.2	64.2
≥ 14000	12.2	61.0	62.0	63.1	63.7	63.8	64.1	64.3	64.3	64.5	64.6	64.6	64.6	64.6	64.6	64.7
≥ 12000	12.1	61.5	62.7	63.8	64.4	64.6	64.8	65.0	65.0	65.3	65.3	65.3	65.3	65.4	65.4	65.4
≥ 10000	12.2	62.8	64.0	65.1	65.7	65.9	66.1	66.3	66.3	66.6	66.6	66.6	66.6	66.7	66.7	66.7
≥ 9000	12.2	62.8	64.0	65.1	65.8	65.9	66.2	66.3	66.4	66.6	66.7	66.7	66.7	66.7	66.7	66.8
≥ 8000	12.4	63.5	64.8	65.8	66.4	66.6	66.9	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.5
≥ 7000	12.4	63.6	65.2	66.4	67.0	67.2	67.5	67.7	67.7	67.9	68.0	68.0	68.0	68.0	68.0	68.1
≥ 6000	12.4	64.5	65.7	66.9	67.5	67.7	68.0	68.2	68.2	68.5	68.5	68.5	68.5	68.6	68.6	68.6
≥ 5000	12.5	65.7	67.0	68.2	68.9	69.0	69.4	69.5	69.6	69.8	69.8	69.8	69.8	69.9	69.9	70.0
≥ 4500	12.7	66.9	68.2	69.4	70.1	70.3	70.6	70.8	70.8	71.1	71.1	71.1	71.1	71.1	71.1	71.2
≥ 4000	12.8	68.4	69.7	71.0	71.7	71.8	72.1	72.3	72.3	72.6	72.6	72.6	72.6	72.7	72.7	72.7
≥ 3500	12.9	70.1	71.5	72.7	73.4	73.6	73.9	74.1	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.5
≥ 3000	13.6	75.6	77.2	78.5	79.2	79.4	79.8	79.9	80.0	80.2	80.3	80.3	80.3	80.3	80.3	80.4
≥ 2500	14.4	80.4	82.1	83.5	84.2	84.5	84.8	85.0	85.0	85.3	85.4	85.4	85.4	85.4	85.4	85.5
≥ 2000	14.5	84.6	86.6	88.1	89.0	89.2	89.6	89.9	89.9	90.2	90.2	90.2	90.2	90.3	90.3	90.4
≥ 1800	14.5	84.9	87.0	88.5	89.4	89.6	90.1	90.3	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.8
≥ 1500	14.6	87.7	90.2	92.0	93.1	93.3	93.8	94.1	94.1	94.4	94.4	94.4	94.4	94.5	94.5	94.6
≥ 1200	14.9	88.0	90.7	92.7	93.8	94.1	94.6	94.8	94.9	95.2	95.2	95.2	95.2	95.3	95.3	95.4
≥ 1000	15.3	89.7	92.3	94.4	95.8	96.1	96.6	96.9	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.4
≥ 900	15.3	89.8	92.5	94.6	96.0	96.3	96.9	97.2	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.7
≥ 800	15.3	90.0	92.7	94.9	96.4	96.8	97.4	97.7	97.8	98.1	98.1	98.1	98.1	98.2	98.2	98.3
≥ 700	15.3	90.1	92.9	95.0	96.5	96.9	97.6	97.9	98.0	98.4	98.4	98.4	98.4	98.5	98.5	98.6
≥ 600	15.4	90.2	93.0	95.2	96.7	97.1	97.7	98.1	98.2	98.6	98.7	98.7	98.7	98.8	98.8	98.9
≥ 500	15.5	90.3	93.1	95.3	96.9	97.3	98.0	98.4	98.5	98.9	99.1	99.1	99.1	99.1	99.1	99.3
≥ 400	15.5	90.3	93.1	95.4	97.0	97.3	98.1	98.5	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.4
≥ 300	15.5	90.3	93.1	95.4	97.0	97.4	98.1	98.5	98.6	99.0	99.2	99.2	99.2	99.2	99.4	99.6
≥ 200	15.5	90.3	93.1	95.4	97.0	97.4	98.1	98.5	98.6	99.0	99.2	99.2	99.2	99.2	99.5	99.9
≥ 100	15.5	90.3	93.1	95.4	97.0	97.4	98.1	98.5	98.6	99.0	99.2	99.2	99.2	99.3	99.5	100.0
0	15.5	90.3	93.1	95.4	97.0	97.4	98.1	98.5	98.6	99.0	99.2	99.2	99.2	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2420

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA 73-82 APR

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

01

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.3	61.0	62.3	63.3	63.7	63.7	64.0	64.0	64.0	64.0	64.3	64.3	64.3	64.3	64.7	64.7
≥ 20000	6.3	61.3	62.7	64.0	64.3	64.3	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3
≥ 18000	6.3	61.3	62.7	64.0	64.3	64.3	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3
≥ 16000	6.3	61.3	62.7	64.0	64.3	64.3	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3
≥ 14000	6.3	61.3	62.7	64.0	64.3	64.3	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3
≥ 12000	6.3	61.3	62.7	64.0	64.3	64.3	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3
≥ 10000	6.3	61.7	63.0	64.3	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3	65.3	65.3	65.7	65.7
≥ 9000	6.3	61.7	63.0	64.3	64.7	64.7	65.0	65.0	65.0	65.0	65.3	65.3	65.3	65.3	65.7	65.7
≥ 8000	6.3	62.0	63.3	64.7	65.0	65.0	65.3	65.3	65.3	65.3	65.7	65.7	65.7	65.7	66.0	66.0
≥ 7000	6.3	62.7	63.3	64.7	65.0	65.0	65.3	65.3	65.3	65.3	65.7	65.7	65.7	65.7	66.0	66.0
≥ 6000	6.3	62.7	63.3	64.7	65.0	65.0	65.3	65.3	65.3	65.3	65.7	65.7	65.7	65.7	66.0	66.0
≥ 5000	6.3	62.7	64.0	65.3	65.7	65.7	66.0	66.0	66.0	66.0	66.3	66.3	66.3	66.3	66.7	66.7
≥ 4500	6.3	63.3	64.7	66.0	66.3	66.3	66.7	66.7	66.7	66.7	67.0	67.0	67.0	67.0	67.3	67.3
≥ 4000	6.3	65.0	66.3	67.7	68.0	68.0	68.3	68.3	68.3	68.3	68.7	68.7	68.7	68.7	69.0	69.0
≥ 3500	6.3	66.0	67.3	68.7	69.0	69.0	69.3	69.3	69.3	69.3	69.7	69.7	69.7	69.7	70.0	70.0
≥ 3000	6.3	69.0	70.3	71.7	72.0	72.0	72.3	72.3	72.3	72.3	72.7	72.7	72.7	72.7	73.0	73.0
≥ 2500	6.3	73.7	75.0	76.3	76.7	76.7	77.0	77.0	77.0	77.0	77.3	77.3	77.3	77.3	77.7	77.7
≥ 2000	6.3	78.3	80.0	81.7	82.0	82.0	82.3	82.7	82.7	82.7	83.0	83.0	83.0	83.0	83.3	83.3
≥ 1800	6.3	78.7	80.3	82.0	82.3	82.3	82.7	83.0	83.0	83.0	83.3	83.3	83.3	83.3	83.7	83.7
≥ 1500	6.3	83.3	85.3	87.0	87.3	87.3	87.7	88.0	88.0	88.0	88.3	88.3	88.3	88.3	88.7	88.7
≥ 1200	6.3	84.7	86.7	88.3	88.7	88.7	89.0	89.3	89.3	89.3	89.7	89.7	89.7	89.7	90.0	90.0
≥ 1000	6.3	87.7	91.0	93.0	93.7	93.7	94.0	94.3	94.3	94.3	94.7	94.7	94.7	94.7	95.0	95.0
≥ 900	6.3	88.0	91.3	93.3	94.3	94.7	95.0	95.3	95.3	95.3	95.7	95.7	95.7	95.7	96.0	96.0
≥ 800	6.3	88.3	92.7	94.7	96.0	96.3	96.7	97.0	97.0	97.0	97.3	97.3	97.3	97.3	97.7	97.7
≥ 700	6.3	88.3	92.7	94.7	96.0	96.3	96.7	97.0	97.0	97.0	97.3	97.3	97.3	97.3	97.7	97.7
≥ 600	6.3	88.3	93.0	95.0	96.3	96.7	97.0	97.3	97.3	97.3	97.7	97.7	97.7	97.7	98.0	98.0
≥ 500	6.3	88.3	93.0	95.0	96.7	97.0	97.3	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.3	98.3
≥ 400	6.3	88.3	93.3	95.3	97.0	97.3	97.7	98.3	98.3	98.3	99.0	99.0	99.0	99.0	99.3	99.3
≥ 300	6.3	88.3	93.3	95.3	97.0	97.3	97.7	98.3	98.3	98.3	99.0	99.0	99.3	99.3	99.7	99.7
≥ 200	6.3	88.7	93.7	95.7	97.3	97.7	98.0	98.7	98.7	98.7	99.3	99.3	99.7	99.7	100.0	100.0
≥ 100	6.3	88.7	93.7	95.7	97.3	97.7	98.0	98.7	98.7	98.7	99.3	99.3	99.7	99.7	100.0	100.0
≥ 0	6.3	88.7	93.7	95.7	97.3	97.7	98.0	98.7	98.7	98.7	99.3	99.3	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-92	APR
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.3	50.0	51.3	51.3	51.3	51.3	51.7	51.7	51.7	51.7	51.7	51.7	52.0	52.0	52.0	52.3
≥ 20000	49.3	51.3	52.7	52.7	52.7	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.3	53.3	53.3	53.7
≥ 18000	49.3	51.3	52.7	52.7	52.7	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.3	53.3	53.3	53.7
≥ 16000	49.3	51.3	52.7	52.7	52.7	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.3	53.3	53.3	53.7
≥ 14000	49.3	51.3	52.7	52.7	52.7	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.3	53.3	53.3	53.7
≥ 12000	49.7	52.0	53.7	53.3	53.3	53.3	53.7	53.7	53.7	53.7	53.7	53.7	54.0	54.0	54.0	54.3
≥ 10000	49.3	52.3	53.7	53.7	53.7	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.3	54.3	54.3	54.7
≥ 9000	49.7	52.3	53.7	53.7	53.7	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.3	54.3	54.3	54.7
≥ 8000	49.3	53.7	55.0	55.0	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.7	55.7	55.7	56.0
≥ 7000	49.7	54.3	55.7	55.7	55.7	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.3	56.3	56.3	56.7
≥ 6000	49.3	54.3	55.7	55.7	55.7	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.3	56.3	56.3	56.7
≥ 5000	49.7	55.3	56.7	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.3	57.3	57.3	57.7
≥ 4500	49.3	55.7	57.0	57.0	57.0	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.7	57.7	57.7	58.0
≥ 4000	49.3	56.3	57.7	57.7	57.7	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.3	58.3	58.3	58.7
≥ 3500	49.3	58.3	59.7	60.0	60.0	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.7	60.7	60.7	61.0
≥ 3000	49.3	62.7	64.0	64.3	64.3	64.3	64.7	64.7	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.3
≥ 2500	49.3	66.7	68.3	68.7	68.7	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.3	69.3	69.3	69.7
≥ 2000	49.3	73.3	75.3	76.0	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.7	77.0	77.0	77.0	77.3
≥ 1800	49.3	74.3	76.0	76.7	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.7	77.7	77.7	78.0
≥ 1500	49.3	79.0	81.7	82.7	83.0	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.7	83.7	83.7	84.0
≥ 1200	49.3	80.3	83.3	84.3	84.7	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.3	85.3	85.3	85.7
≥ 1000	49.3	82.0	87.0	88.3	88.7	88.7	89.0	89.0	89.0	89.3	89.3	89.3	89.7	89.7	89.7	90.0
≥ 900	49.3	83.7	87.7	89.3	89.7	89.7	90.3	90.3	90.3	90.7	90.7	90.7	91.0	91.0	91.0	91.3
≥ 800	49.3	84.0	88.3	90.3	90.7	90.7	91.3	91.3	91.3	91.7	91.7	91.7	92.0	92.0	92.0	92.3
≥ 700	49.7	84.3	88.7	90.7	91.0	91.0	91.7	91.7	91.7	92.0	92.0	92.0	92.3	92.3	92.3	92.7
≥ 600	49.3	84.7	89.7	92.0	92.7	93.0	93.7	94.0	94.0	94.3	94.3	94.3	94.7	94.7	94.7	95.0
≥ 500	49.3	84.7	89.7	92.3	93.3	93.7	95.0	95.3	95.3	95.7	95.7	95.7	96.0	96.0	96.0	96.3
≥ 400	49.7	84.7	89.7	92.3	93.3	93.7	95.0	95.7	95.7	96.0	96.0	96.0	96.3	96.3	96.3	97.0
≥ 300	49.3	84.7	89.7	92.7	93.7	94.0	95.7	96.3	96.3	96.7	97.0	97.0	97.3	97.3	97.3	98.0
≥ 200	49.3	84.7	89.7	92.7	93.7	94.0	95.7	96.3	96.3	96.7	97.0	97.0	97.7	97.7	98.0	99.0
≥ 100	49.3	84.7	89.7	92.7	93.7	94.0	95.7	96.3	96.7	97.0	97.3	97.3	98.0	98.0	98.3	99.3
0	49.3	84.7	89.7	92.7	93.7	94.0	95.7	96.3	96.3	97.0	97.3	97.3	98.0	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) SEP (MONTH)

07 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	48.7	48.0	49.7	49.3	50.0	50.0	50.7	50.7	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	48.7	47.0	49.7	50.3	51.0	51.0	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 18000	48.7	47.0	49.7	50.3	51.0	51.0	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 16000	48.7	47.0	49.7	50.3	51.0	51.0	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 14000	48.7	47.0	49.7	50.3	51.0	51.0	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 12000	48.7	47.0	49.7	50.3	51.0	51.0	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 10000	49.0	48.3	51.0	52.0	52.7	52.7	53.3	53.3	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 9000	49.0	48.7	51.3	52.3	53.0	53.0	53.7	53.7	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 8000	49.0	50.0	52.7	53.7	54.3	54.3	55.0	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 7000	49.0	50.3	53.3	54.3	55.0	55.0	55.7	55.7	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 6000	49.0	50.3	53.3	54.3	55.0	55.0	55.7	55.7	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 5000	49.0	51.0	54.0	55.0	55.7	55.7	56.3	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 4500	49.3	51.7	54.7	55.7	56.3	56.3	57.0	57.0	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 4000	49.3	53.0	56.0	57.0	57.7	57.7	58.3	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 3500	49.3	53.7	57.0	58.0	58.7	58.7	59.3	59.3	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 3000	10.7	59.7	63.3	64.7	65.7	65.7	66.3	66.3	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 2500	11.3	62.3	66.3	68.0	69.0	69.0	69.7	69.7	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 2000	11.7	68.3	73.3	75.3	76.3	76.3	77.0	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 1800	11.7	69.0	74.0	76.0	77.0	77.0	77.7	77.7	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 1500	11.7	74.0	79.3	82.3	83.3	83.3	84.0	84.0	84.0	84.3	84.3	84.3	84.7	84.7	84.7	84.7
≥ 1200	11.7	74.7	80.3	83.7	85.3	85.3	86.0	86.0	86.0	86.3	86.3	86.3	86.7	86.7	86.7	86.7
≥ 1000	11.7	75.7	82.3	86.0	88.7	88.7	89.7	90.0	90.0	90.7	90.7	90.7	91.0	91.0	91.0	91.0
≥ 900	11.7	76.0	82.7	86.7	89.3	89.3	90.3	90.7	90.7	91.3	91.3	91.3	91.7	91.7	91.7	91.7
≥ 800	11.7	76.0	83.0	87.3	90.3	90.3	91.3	91.7	91.7	92.3	92.3	92.3	92.7	92.7	92.7	92.7
≥ 700	11.7	76.3	83.3	87.7	90.7	90.7	91.7	92.3	92.3	93.0	93.0	93.0	93.3	93.3	93.3	93.3
≥ 600	11.7	76.3	83.3	87.7	90.7	90.7	92.0	92.7	92.7	93.7	93.7	93.7	94.0	94.0	94.0	94.0
≥ 500	11.7	76.3	83.3	87.7	91.0	91.0	93.0	94.0	94.0	95.0	95.0	95.0	95.3	95.3	95.3	95.7
≥ 400	11.7	76.3	83.3	87.7	91.0	91.0	93.0	94.7	94.7	96.0	96.0	96.3	96.7	96.7	96.7	97.0
≥ 300	11.7	76.3	83.3	87.7	91.0	91.0	93.0	94.7	94.7	97.0	97.0	97.3	98.0	98.0	98.0	98.7
≥ 200	11.7	76.3	83.3	87.7	91.0	91.0	93.0	94.7	94.7	97.0	97.0	97.3	98.0	98.0	98.3	99.7
≥ 100	11.7	76.3	83.3	87.7	91.0	91.0	93.0	94.7	94.7	97.0	97.0	97.3	98.0	98.0	98.3	99.7
0	11.7	76.3	83.3	87.7	91.0	91.0	93.0	94.7	94.7	97.0	97.0	97.3	98.0	98.0	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] | SANTA ANA, CALIFORNIA | 73-[illegible] | APR

STATION | STATION NAME | YEARS | MONTH

10

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	45.3	48.0	51.0	52.0	53.3	54.3	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 20000	[illegible]	47.3	51.0	52.0	54.0	55.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000	[illegible]	47.3	52.0	53.3	54.3	55.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 16000	[illegible]	47.3	52.0	53.3	54.3	55.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 14000	[illegible]	47.7	52.3	53.7	54.7	56.0	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 12000	[illegible]	48.7	51.7	55.0	56.0	57.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000	[illegible]	49.3	52.3	55.7	56.7	58.0	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 9000	[illegible]	49.3	52.3	55.7	56.7	58.0	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 8000	[illegible]	50.0	53.3	56.7	57.7	59.0	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 7000	[illegible]	50.7	54.0	57.3	58.3	59.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 6000	[illegible]	51.0	54.3	57.7	58.7	60.0	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 5000	[illegible]	52.3	55.7	59.0	60.0	61.3	62.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 4500	[illegible]	52.3	55.7	59.0	60.0	61.3	62.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 4000	[illegible]	54.0	57.3	60.7	61.7	63.0	64.0	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 3500	11.0	56.3	59.7	63.0	64.0	65.3	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 3000	12.3	62.3	65.7	69.3	70.3	71.7	72.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 2500	13.7	69.0	72.3	76.0	77.0	78.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 2000	13.7	75.7	79.0	83.0	84.3	85.7	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1800	13.7	76.3	79.7	84.0	85.3	86.7	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1500	14.0	81.0	85.3	90.0	91.7	93.0	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	14.0	81.3	86.0	90.7	92.3	94.0	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000	14.7	83.0	87.0	92.7	94.7	96.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	14.0	83.0	88.0	92.7	94.7	96.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	14.0	83.0	88.0	92.7	95.0	97.0	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	14.0	83.0	88.0	93.0	95.3	97.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]570

DIFNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

- 114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	13.7	61.3	65.7	67.0	69.3	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 20000	14.3	66.3	70.3	72.0	74.3	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 18000	14.3	66.3	70.7	72.3	74.7	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 16000	14.3	66.3	70.7	72.3	74.7	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 14000	14.3	66.7	71.0	72.7	75.0	75.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 12000	14.3	67.0	71.3	73.0	75.3	76.0	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 10000	15.0	68.0	72.3	74.3	76.7	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 9000	15.0	68.0	72.3	74.3	76.7	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 8000	15.0	68.7	73.0	75.0	77.3	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 7000	15.0	68.7	73.0	75.0	77.3	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 6000	15.3	69.7	73.3	75.3	77.7	78.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000	15.3	71.3	75.3	77.3	79.7	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500	15.7	71.3	75.7	77.7	80.0	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 4000	15.7	72.3	76.7	79.0	81.3	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 3500	15.7	73.0	77.3	79.7	82.0	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000	16.3	76.7	81.0	83.3	85.7	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500	16.3	82.3	87.0	89.3	91.7	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000	16.3	86.7	91.3	93.7	96.3	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800	16.7	87.3	91.7	94.0	96.7	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1500	16.7	88.7	93.3	96.0	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200	16.7	88.7	93.3	96.0	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	16.7	88.7	93.3	96.0	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	16.	70.3	72.3	73.3	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 20000	16.3	74.	76.3	77.3	78.0	78.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
18000	16.3	74.7	77.0	78.0	79.7	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
16000	16.3	74.7	77.0	78.0	79.7	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
14000	16.3	75.3	77.7	78.7	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
12000	16.7	76.0	78.3	79.3	80.0	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
10000	16.7	77.0	79.3	80.3	81.0	81.3	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
9000	16.7	77.0	79.3	80.3	81.0	81.3	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
8000	16.7	77.7	80.0	81.0	81.7	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
7000	16.7	78.0	80.3	81.3	82.0	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
6000	16.7	78.3	80.3	81.3	82.0	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
5000	16.7	78.7	80.7	81.7	82.3	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
4500	16.7	78.7	81.0	82.0	82.7	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
4000	16.7	79.0	81.3	82.3	83.0	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
3500	17.0	80.3	82.7	83.7	84.3	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
3000	17.7	85.3	87.7	88.7	89.3	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
2500	17.7	90.0	92.7	93.7	94.3	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
2000	17.7	93.7	96.3	97.3	98.0	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1800	17.7	93.7	96.3	97.3	98.0	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1500	17.7	94.3	97.0	98.0	98.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1200	17.7	94.3	97.3	98.3	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
1000	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	17.7	94.7	97.3	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIFNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.7	73.3	74.7	76.0	77.0	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 20000	12.7	75.7	77.0	78.3	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 18000	12.7	75.7	77.0	78.3	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 16000	12.7	75.7	77.0	78.3	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 14000	12.7	75.7	77.0	78.3	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	12.7	76.3	77.7	79.0	80.0	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 10000	12.7	77.0	78.3	79.7	80.7	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000	12.7	77.0	78.3	79.7	80.7	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 8000	12.7	77.3	78.7	80.0	81.0	81.3	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 7000	12.7	77.3	78.7	80.0	81.0	81.3	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 6000	12.7	77.7	79.0	80.3	81.3	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 5000	12.3	79.0	80.3	81.7	82.7	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500	12.3	79.3	80.7	82.0	83.0	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 4000	12.3	80.7	82.0	83.3	84.3	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 3500	12.3	81.7	83.0	84.3	85.3	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	12.7	86.3	88.0	89.3	90.3	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	12.7	90.0	91.7	93.0	94.0	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 2000	12.7	91.7	93.3	95.0	96.0	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800	12.7	91.7	93.3	95.0	96.0	96.3	96.7	96.7	95.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500	12.7	93.7	95.3	97.0	98.0	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	12.7	93.7	95.3	97.0	98.0	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	12.7	93.7	95.3	97.0	98.0	98.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	12.7	93.7	95.3	97.0	98.0	98.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	12.7	93.7	95.3	97.0	98.0	98.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	12.7	93.7	95.3	97.0	98.3	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

RNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | APR (MONTH)

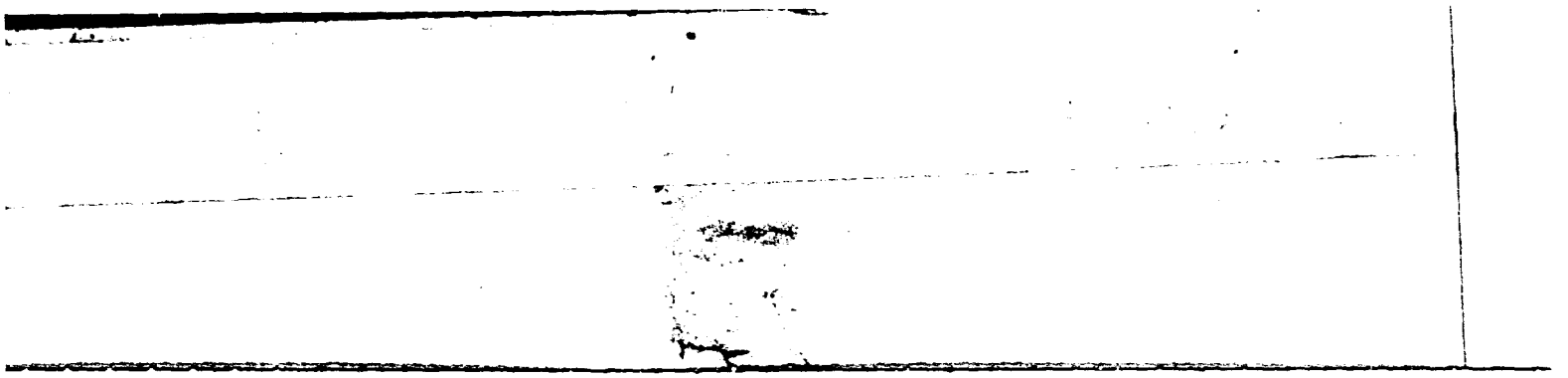
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	68.3	68.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 20000	[illegible]	68.7	68.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
18000	[illegible]	68.7	68.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
16000	[illegible]	68.7	68.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
14000	[illegible]	68.7	68.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
12000	[illegible]	69.7	69.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
10000	[illegible]	70.7	70.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
9000	[illegible]	70.7	70.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
8000	[illegible]	70.7	70.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
7000	[illegible]	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
6000	[illegible]	71.7	71.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
5000	[illegible]	71.3	71.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
4500	[illegible]	72.0	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
4000	[illegible]	73.3	73.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
3500	[illegible]	74.3	74.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
3000	[illegible]	78.0	78.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
2500	[illegible]	83.3	83.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
2000	[illegible]	87.7	88.3	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
1800	[illegible]	87.7	88.3	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
1500	[illegible]	90.7	92.3	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
1200	[illegible]	91.0	93.0	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
1000	[illegible]	92.3	95.3	97.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
900	[illegible]	92.7	95.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
800	[illegible]	92.7	95.7	97.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
700	[illegible]	92.7	95.7	98.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
600	[illegible]	92.7	95.7	98.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
500	[illegible]	92.7	95.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	[illegible]	92.7	95.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	[illegible]	92.7	95.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	[illegible]	92.7	95.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	[illegible]	92.7	95.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	[illegible]	92.7	95.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA (STATION NAME) 73-97 (YEARS) APR (MONTH)

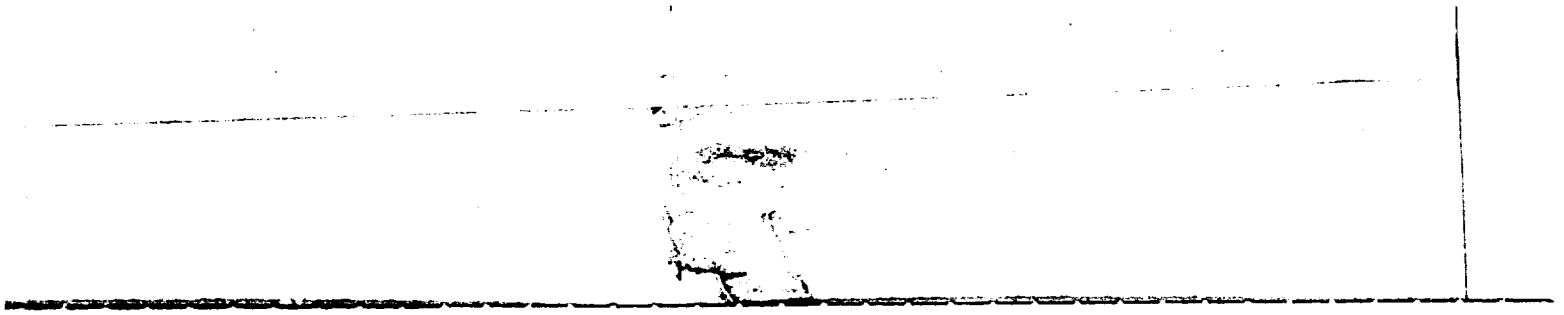
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.8	59.5	61.4	62.6	63.3	63.6	64.0	64.0	64.0	64.1	64.1	64.1	64.2	64.2	64.2	64.3
≥ 20000	10.1	61.4	63.4	64.7	65.4	65.8	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.4
≥ 18000	10.1	61.5	63.5	64.8	65.6	65.9	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.6
≥ 16000	10.1	61.5	63.5	64.8	65.6	65.9	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.6
≥ 14000	10.1	61.7	63.7	65.0	65.8	66.1	66.5	66.5	66.5	66.6	66.6	66.6	66.7	66.7	66.7	66.8
≥ 12000	10.1	62.3	64.3	65.6	66.3	66.7	67.1	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.3	67.3
≥ 10000	10.3	63.0	65.1	66.5	67.2	67.5	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.2	68.2
≥ 9000	10.3	63.1	65.1	66.5	67.3	67.6	68.0	68.0	68.0	68.1	68.1	68.1	68.2	68.2	68.2	68.3
≥ 8000	10.3	63.9	65.8	67.2	68.0	68.3	68.7	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	69.0
≥ 7000	10.3	64.0	66.1	67.5	68.3	68.6	69.0	69.0	69.0	69.1	69.1	69.1	69.2	69.2	69.2	69.3
≥ 6000	10.3	64.2	66.3	67.7	68.4	68.8	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.4
≥ 5000	10.3	65.1	67.3	68.7	69.4	69.8	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.4	70.4
≥ 4500	10.4	65.5	67.7	69.1	69.8	70.2	70.6	70.6	70.6	70.7	70.7	70.7	70.8	70.8	70.8	70.9
≥ 4000	10.5	67.0	69.1	70.5	71.3	71.6	72.0	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.3	72.3
≥ 3500	10.7	68.0	70.1	71.6	72.4	72.7	73.1	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.4
≥ 3000	11.1	72.5	74.8	76.4	77.2	77.5	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.2
≥ 2500	11.3	77.2	79.6	81.3	82.0	82.4	82.8	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0	83.0
≥ 2000	11.4	81.9	84.6	86.5	87.5	87.8	88.2	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.5	88.5
≥ 1800	11.5	82.2	85.0	86.9	87.8	88.2	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.9
≥ 1500	11.5	85.6	88.7	90.9	91.9	92.2	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	93.0
≥ 1200	11.5	86.1	89.4	91.6	92.7	93.1	93.6	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.9	93.9
≥ 1000	11.5	87.3	91.2	93.5	95.0	95.4	96.0	96.3	96.3	96.4	96.4	96.4	96.5	96.5	96.5	96.6
≥ 900	11.5	87.5	91.4	93.8	95.3	95.8	96.5	96.7	96.7	96.8	96.9	96.9	97.0	97.0	97.0	97.0
≥ 800	11.5	87.6	91.7	94.3	95.9	96.4	97.1	97.3	97.3	97.5	97.5	97.5	97.6	97.6	97.6	97.7
≥ 700	11.5	87.7	91.8	94.4	96.1	96.6	97.3	97.5	97.6	97.7	97.8	97.8	97.8	97.8	97.9	97.9
≥ 600	11.5	87.8	92.0	94.6	96.4	96.9	97.6	97.9	98.0	98.1	98.2	98.2	98.3	98.3	98.3	98.3
≥ 500	11.5	87.8	92.1	94.7	96.5	97.0	98.0	98.3	98.4	98.5	98.6	98.6	98.7	98.7	98.7	98.8
≥ 400	11.5	87.8	92.1	94.7	96.6	97.1	98.0	98.5	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.2
≥ 300	11.5	87.8	92.0	94.8	96.6	97.1	98.1	98.6	98.7	99.0	99.1	99.2	99.3	99.3	99.4	99.5
≥ 200	11.5	87.8	92.0	94.8	96.7	97.2	98.2	98.7	98.7	99.0	99.2	99.2	99.4	99.4	99.5	99.8
≥ 100	11.5	87.8	92.0	94.8	96.7	97.2	98.2	98.7	98.7	99.1	99.2	99.3	99.5	99.5	99.6	99.7
0	11.5	87.9	92.0	94.8	96.7	97.2	98.2	98.7	98.7	99.1	99.2	99.3	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2400

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

4 SANTA ANA, CALIFORNIA (STATION NAME) 73-92 (YEARS) MAY (MONTH)

01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.7	39.4	40.7	41.0	41.3	41.3	41.3	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 20000	1.7	39.4	40.7	41.0	41.3	41.3	41.3	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6
AVAI 18000	1.7	39.7	41.0	41.3	41.6	41.6	41.6	41.6	41.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9
AVAI 16000	1.7	39.7	41.0	41.3	41.6	41.6	41.6	41.6	41.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9
AVAI 14000	1.7	39.7	41.0	41.3	41.6	41.6	41.6	41.6	41.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9
AVAI 12000	1.7	39.7	41.0	41.3	41.6	41.6	41.6	41.6	41.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9
AVAI 10000	1.7	40.7	41.9	42.3	42.6	42.6	42.6	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9
AVAI 9000	1.7	40.7	41.9	42.3	42.6	42.6	42.6	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9
AVAI 8000	1.7	40.7	41.9	42.3	42.6	42.6	42.6	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9
AVAI 7000	1.7	40.7	41.9	42.3	42.6	42.6	42.6	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9
AVAI 6000	1.7	40.7	41.9	42.3	42.6	42.6	42.6	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9
AVAI 5000	1.8	41.3	42.6	42.9	43.2	43.2	43.2	43.2	43.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6
AVAI 4500	1.8	41.3	42.6	42.9	43.2	43.2	43.2	43.2	43.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6
AVAI 4000	1.8	42.3	43.6	43.9	44.2	44.2	44.2	44.2	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
AVAI 3500	1.8	43.6	44.8	45.2	45.5	45.5	45.5	45.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8
AVAI 3000	1.8	47.1	48.4	48.7	49.0	49.0	49.0	49.0	49.0	49.4	49.4	49.4	49.4	49.4	49.4	49.4
AVAI 2500	1.8	55.2	56.5	56.8	57.1	57.1	57.1	57.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4
AVAI 2000	1.8	64.8	66.1	66.4	67.1	67.4	67.4	67.4	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7
AVAI 1800	1.8	65.8	67.7	68.1	68.4	68.4	68.4	68.4	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7
AVAI 1500	1.8	74.2	77.7	79.0	80.0	80.0	80.0	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3
AVAI 1200	1.8	77.1	81.3	82.6	83.6	83.6	83.9	83.9	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2
AVAI 1000	1.8	81.0	86.5	88.7	90.0	90.0	90.3	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
AVAI 900	1.8	81.6	87.7	90.3	91.6	91.9	92.3	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
AVAI 800	1.8	83.6	90.3	93.6	95.2	95.5	96.1	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5
AVAI 700	1.8	83.6	90.3	93.9	95.8	96.1	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
AVAI 600	1.8	83.6	90.3	94.2	96.1	96.5	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
AVAI 500	1.8	83.6	90.3	94.5	96.5	96.8	97.4	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
AVAI 400	1.8	83.9	91.0	95.5	97.4	97.7	98.7	98.7	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4
AVAI 300	1.8	83.9	91.0	95.5	97.4	98.1	99.0	99.0	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7
AVAI 200	1.8	83.9	91.0	95.5	97.4	98.1	99.0	99.0	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7
AVAI 100	1.8	83.9	91.0	95.5	97.4	98.1	99.0	99.0	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0
0	1.8	83.9	91.0	95.5	97.4	98.1	99.0	99.0	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

4 SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) MAY (MONTH)

04 (HOURS (LST))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.9	30.3	31.9	32.6	32.6	32.6	32.9	32.9	32.9	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 20000	1.9	31.0	32.6	33.2	33.2	33.2	33.6	33.6	33.6	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 18000	1.9	31.0	32.6	33.2	33.2	33.2	33.6	33.6	33.6	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 16000	1.9	31.0	32.6	33.2	33.2	33.2	33.6	33.6	33.6	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 14000	1.9	31.0	32.6	33.2	33.2	33.2	33.6	33.6	33.6	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 12000	1.9	31.0	32.6	33.2	33.2	33.2	33.6	33.6	33.6	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 10000	1.9	31.3	32.9	33.6	33.6	33.6	33.9	33.9	33.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 9000	1.9	31.3	32.9	33.6	33.6	33.6	33.9	33.9	33.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 8000	1.9	31.6	33.2	33.9	33.9	33.9	34.2	34.2	34.2	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 7000	1.9	31.6	33.2	33.9	33.9	33.9	34.2	34.2	34.2	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 6000	1.9	31.6	33.2	33.9	33.9	33.9	34.2	34.2	34.2	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 5000	1.9	32.3	33.9	34.5	34.5	34.5	34.8	34.8	34.8	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥ 4500	1.9	32.6	34.2	34.8	34.8	34.8	35.2	35.2	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 4000	1.9	32.9	34.5	35.2	35.2	35.2	35.5	35.5	35.5	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 3500	1.9	34.2	35.8	36.5	36.5	36.5	36.8	36.8	36.8	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 3000	1.9	37.7	39.4	40.0	40.0	40.0	40.3	40.3	40.3	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 2500	1.9	43.9	45.5	46.1	46.5	46.5	46.8	46.8	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 2000	1.9	53.2	55.2	55.8	56.1	56.1	56.5	56.5	56.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 1800	1.9	54.5	56.5	57.1	57.4	57.4	57.7	57.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1500	1.9	66.5	69.7	71.0	71.9	71.9	72.3	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 1200	1.9	70.0	73.2	75.5	76.5	76.5	76.8	76.8	76.8	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1000	1.9	74.8	81.3	84.5	86.5	86.5	87.1	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 900	1.9	75.2	81.9	85.8	88.1	88.1	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800	1.9	75.5	82.9	87.7	90.7	90.7	91.3	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 700	1.9	75.9	83.6	88.7	91.9	91.9	92.6	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 600	1.9	75.9	83.6	89.4	92.6	92.6	93.6	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 500	1.9	76.1	84.2	90.3	93.6	94.5	95.5	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 400	1.9	76.1	84.2	90.7	93.9	94.8	96.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	1.9	76.1	84.2	90.7	94.2	95.2	96.8	97.7	97.7	98.4	98.4	98.4	98.7	98.7	98.7	98.7
≥ 200	1.9	76.1	84.2	90.7	94.2	95.2	96.8	98.1	98.1	99.0	99.0	99.0	99.4	99.4	99.7	99.7
≥ 100	1.9	76.1	84.2	90.7	94.2	95.2	96.8	98.1	98.1	99.0	99.0	99.0	99.4	99.4	99.7	100.0
0	1.9	76.1	84.2	90.7	94.2	95.2	96.8	98.1	98.1	99.0	99.0	99.0	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

4 SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.4	25.6	26.9	27.5	28.2	28.5	29.1	29.1	29.1	29.5	29.5	29.5	29.5	29.5	29.5	29.5
≥ 20000	3.4	26.5	27.8	28.5	29.1	29.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 18000	3.4	26.5	27.8	28.5	29.1	29.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 16000	3.4	26.5	27.8	28.5	29.1	29.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 14000	3.4	26.5	27.8	28.5	29.1	29.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 12000	3.4	26.5	27.8	28.5	29.1	29.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 10000	3.4	26.5	28.2	28.8	29.5	29.8	30.4	30.4	30.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 9000	3.4	26.5	28.2	28.8	29.5	29.8	30.4	30.4	30.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 8000	3.4	26.5	28.2	28.8	29.5	29.8	30.4	30.4	30.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 7000	3.4	26.5	28.2	28.8	29.5	29.8	30.4	30.4	30.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 6000	3.4	26.5	28.2	28.8	29.5	29.8	30.4	30.4	30.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 5000	3.4	26.9	28.5	29.1	29.8	30.1	30.7	30.7	30.7	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥ 4500	3.4	26.9	28.5	29.1	29.8	30.1	30.7	30.7	30.7	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥ 4000	3.4	27.6	29.5	30.1	30.7	31.1	31.7	31.7	31.7	32.0	32.0	32.0	32.0	32.0	32.0	32.0
≥ 3500	3.4	29.1	30.7	31.4	32.0	32.4	33.0	33.0	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 3000	3.4	36.6	38.9	39.2	39.8	40.1	40.8	40.8	40.8	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 2500	4.2	50.8	43.0	43.7	44.3	44.7	45.6	45.6	45.6	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 2000	4.6	51.8	54.7	56.0	57.6	57.9	58.9	58.9	58.9	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 1800	4.9	52.8	56.0	57.3	58.9	59.2	60.2	60.2	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 1500	4.9	61.2	67.0	70.2	72.5	72.8	73.8	73.8	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 1200	4.9	63.1	69.6	73.5	77.4	77.7	79.3	79.6	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 1000	4.9	64.7	73.1	79.0	83.5	85.4	87.1	87.7	87.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900	4.9	65.1	73.5	79.6	84.0	86.7	88.4	89.3	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	4.9	65.1	73.5	79.9	86.1	88.4	90.0	90.9	91.2	91.9	92.2	92.2	92.2	92.2	92.2	92.2
≥ 700	4.9	65.1	73.8	80.3	86.7	89.3	90.9	92.6	92.9	93.5	93.9	93.9	93.9	93.9	93.9	93.9
≥ 600	4.9	65.1	73.8	80.3	87.4	90.0	91.9	93.5	93.9	94.5	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	4.9	65.1	73.8	80.3	87.7	90.3	92.6	94.8	95.5	96.6	97.1	97.1	97.1	97.1	97.1	97.1
≥ 400	4.9	65.1	73.8	80.3	87.7	90.6	93.5	95.8	96.4	98.1	98.4	98.4	98.4	98.4	98.4	98.7
≥ 300	4.9	65.1	73.8	80.3	87.7	90.6	93.5	95.8	96.4	98.1	98.4	98.4	98.7	98.7	98.7	99.0
≥ 200	4.9	65.1	73.8	80.3	87.7	90.6	93.5	95.8	96.4	98.4	98.7	99.0	99.4	99.4	99.7	100.0
≥ 100	4.9	65.1	73.8	80.3	87.7	90.6	93.5	95.8	96.4	98.4	98.7	99.0	99.4	99.4	99.7	100.0
0	4.9	65.1	73.8	80.3	87.7	90.6	93.5	95.8	96.4	98.4	98.7	99.0	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

ON	SANTA ANA, CALIFORNIA (STATION NAME)	73-82 (YEARS)	MAY (MONTH)
			10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.9	31.0	32.6	35.2	38.7	40.0	41.6	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 20000	3.9	32.6	34.2	36.8	40.0	41.6	43.2	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 18000	3.9	32.6	34.2	36.8	40.0	41.6	43.2	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 16000	3.9	32.6	34.2	36.8	40.0	41.6	43.2	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 14000	3.9	32.6	34.2	36.8	40.0	41.6	43.2	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 12000	3.9	32.9	34.5	37.1	40.3	41.9	43.6	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 10000	4.2	33.6	35.2	37.7	41.0	42.6	44.2	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 9000	4.2	33.6	35.2	37.7	41.0	42.6	44.2	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 8000	4.2	34.2	35.8	38.4	41.6	43.2	44.8	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 7000	4.2	34.2	35.8	38.4	41.6	43.2	44.8	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 6000	4.2	34.5	36.1	38.7	41.9	43.6	45.2	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 5000	4.2	34.9	36.5	39.0	42.3	43.9	45.5	45.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 4500	4.2	35.5	37.1	39.7	42.9	44.5	46.1	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
≥ 4000	4.2	37.1	38.7	41.3	44.5	46.1	47.7	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 3500	4.2	38.7	40.3	42.9	46.1	47.7	49.4	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 3000	4.2	43.0	45.5	48.1	51.3	52.9	54.8	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 2500	5.5	52.8	54.2	56.8	60.0	61.6	63.6	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 2000	6.5	64.8	66.1	71.0	74.5	76.5	78.4	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 1800	6.8	66.1	69.7	72.6	76.1	78.1	80.0	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1500	6.9	71.6	77.4	81.0	85.5	87.7	90.0	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200	7.1	72.9	79.4	83.6	89.0	92.3	95.2	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	7.1	74.2	81.3	85.8	91.3	94.8	97.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	7.1	74.2	81.3	85.8	91.6	95.2	98.1	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	7.1	74.2	81.3	86.1	91.9	95.5	98.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

13
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.5	56.8	61.0	62.9	66.1	67.1	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	69.1	68.1
≥ 20000	7.1	58.7	61.9	64.8	68.1	69.0	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
18000	7.1	58.7	61.9	64.8	68.1	69.0	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
16000	7.1	58.7	61.9	64.8	68.1	69.0	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
14000	7.1	58.7	61.9	64.8	68.1	69.0	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
12000	7.1	58.7	61.9	64.8	68.1	69.0	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
10000	7.1	59.0	62.3	65.2	69.4	69.4	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
9000	7.1	59.0	62.3	65.5	68.7	69.7	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
8000	7.1	59.4	62.6	65.8	69.0	70.0	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
7000	7.1	59.4	62.6	65.8	69.0	70.0	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
6000	7.1	59.7	62.9	66.1	69.4	70.3	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
5000	7.1	59.7	62.9	66.1	69.4	70.3	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
4500	7.1	60.3	63.6	66.8	70.0	71.0	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
4000	7.1	60.7	63.9	67.1	70.3	71.3	71.9	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3
3500	7.1	61.9	65.2	68.4	71.6	72.6	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
3000	7.1	67.1	70.3	73.6	76.8	77.7	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2500	7.4	72.9	76.1	79.4	82.9	83.9	84.5	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
2000	7.4	77.7	81.0	84.5	88.1	89.4	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
1800	7.7	78.4	81.6	85.2	88.7	90.0	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1500	8.1	83.6	87.4	91.3	94.8	96.5	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
1200	8.4	84.2	88.0	92.3	95.8	97.4	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1000	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	8.4	85.2	89.0	93.2	96.8	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 210

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
114	SANTA ANA, CALIFORNIA	73-82	MAY

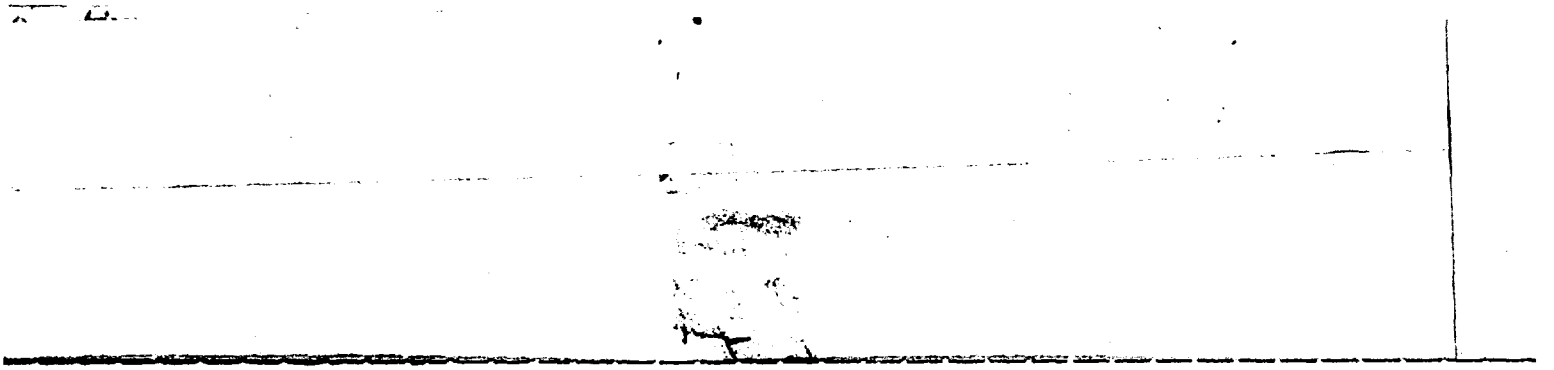
HOURS (L S T) 11

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	72.1	64.1	67.5	70.2	71.8	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 20000	72.1	66.0	70.2	72.8	74.4	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 18000	72.8	68.7	73.9	73.5	75.1	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 16000	72.8	68.7	73.9	73.5	75.1	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 14000	72.8	68.7	73.9	73.5	75.1	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 12000	72.8	69.1	74.2	73.8	75.4	75.7	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 10000	72.8	69.6	74.8	74.4	76.1	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 9000	72.8	69.6	74.8	74.4	76.1	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 8000	72.8	68.5	72.5	75.1	76.7	77.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000	72.8	68.3	72.5	75.1	76.7	77.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000	72.8	68.6	72.8	75.4	77.0	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 5000	72.8	68.9	73.1	75.7	77.4	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4500	72.8	69.3	73.5	76.1	77.7	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 4000	72.8	69.9	74.1	76.7	78.3	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 3500	72.8	70.2	74.4	77.0	78.6	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 3000	72.8	74.4	79.6	81.2	82.9	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 2500	88.9	91.9	86.1	88.7	90.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 2000	88.7	88.4	91.7	93.9	95.5	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800	88.7	88.7	91.6	94.2	95.8	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1500	88.7	88.4	93.2	95.8	97.4	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	98.1	98.7	93.9	96.4	98.1	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.4	99.3	94.5	97.1	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

TION	STATION NAME	YEARS	MONTH
11	SANTA ANA, CALIFORNIA	73-82	MAY

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.8	59.7	62.9	64.8	65.8	66.1	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 20000	5.2	63.2	66.5	68.7	69.7	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 18000	5.2	63.2	66.5	68.7	69.7	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 16000	5.2	63.2	66.5	68.7	69.7	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 14000	5.2	63.2	66.5	68.7	69.7	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 12000	5.2	63.2	66.5	69.0	70.0	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 10000	5.2	64.2	67.4	69.7	71.0	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000	5.2	64.2	67.4	69.7	71.0	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	5.2	64.2	67.4	69.7	71.0	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 7000	5.2	64.2	67.4	69.7	71.0	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000	5.2	64.2	67.4	69.7	71.0	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000	5.2	64.5	67.7	70.0	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 4500	5.2	64.5	67.7	70.0	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 4000	5.2	65.2	68.4	70.7	71.9	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 3500	5.2	65.5	68.7	71.0	72.3	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3000	5.5	71.0	74.2	76.9	78.1	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2500	5.8	76.8	80.3	83.2	84.8	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 2000	5.8	81.6	85.5	88.4	90.0	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1800	5.8	81.6	85.5	88.4	90.0	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	6.1	85.5	89.4	92.3	94.8	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200	6.1	85.8	89.7	92.9	95.5	95.8	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	6.1	86.5	91.0	94.2	97.1	97.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	6.1	86.5	91.0	94.2	97.4	97.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	6.1	87.1	91.6	94.8	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	6.1	87.1	91.6	94.8	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	6.1	87.1	91.6	94.8	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	6.1	87.1	91.6	94.8	98.1	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	6.1	87.1	91.6	94.8	98.1	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	6.1	87.1	91.6	94.8	98.1	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	6.1	87.1	91.6	94.8	98.1	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	6.1	87.1	91.6	94.8	98.1	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	6.1	87.1	91.6	94.8	98.1	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	72-82	MAY
STATION	STATION NAME	YEARS	MONTH

22
HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.9	51.1	52.4	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 20000	1.9	52.8	54.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 18000	1.9	52.8	54.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 16000	1.9	52.8	54.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 14000	1.9	52.8	54.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 12000	1.9	52.8	54.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 10000	1.9	54.1	55.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 9000	1.9	54.1	55.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 8000	1.9	54.1	55.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 7000	1.9	54.1	55.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 6000	1.9	54.1	55.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 5000	1.9	54.4	55.7	57.3	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 4500	2.3	54.7	56.0	57.6	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 4000	2.3	56.3	57.6	59.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 3500	2.3	57.0	58.3	59.9	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 3000	2.3	61.9	63.1	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 2500	2.3	67.0	68.6	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 2000	2.3	75.4	77.0	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 1800	2.3	75.7	77.4	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 1500	2.3	81.6	83.3	86.1	86.4	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	2.3	83.2	85.4	88.7	89.0	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 1000	2.3	86.4	89.0	92.9	93.5	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 900	2.3	88.0	90.6	95.2	96.1	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	2.3	88.7	91.9	96.4	97.4	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	2.3	88.7	91.9	97.1	98.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	2.3	88.7	91.9	97.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	2.3	88.7	92.2	97.7	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	2.3	88.7	92.2	97.7	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	2.3	88.7	92.2	97.7	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	2.3	88.7	92.2	97.7	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	2.3	88.7	92.2	97.7	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	2.3	88.7	92.2	97.7	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 — STATION NUMBER
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
MAY — MONTH
ALL — HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.1	44.7	46.9	48.5	49.8	50.3	50.8	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	3.9	46.3	48.5	50.2	51.5	51.9	52.4	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6
18000	4.0	46.4	48.6	50.3	51.6	52.0	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8
16000	4.0	46.4	48.6	50.3	51.6	52.0	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8
14000	4.0	46.4	48.6	50.3	51.6	52.0	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8
12000	4.0	46.5	48.7	50.4	51.7	52.2	52.6	52.7	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9
10000	4.0	47.1	49.4	51.1	52.4	52.9	53.3	53.4	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6
9000	4.0	47.1	49.4	51.1	52.4	52.9	53.4	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6
8000	4.0	47.4	49.6	51.4	52.7	53.1	53.6	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9
7000	4.0	47.4	49.6	51.4	52.7	53.1	53.6	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9
6000	4.0	47.5	49.7	51.5	52.8	53.3	53.7	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0
5000	4.1	47.8	50.1	51.8	53.2	53.6	54.1	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3
4500	4.1	48.1	50.4	52.1	53.5	53.9	54.4	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6
4000	4.1	49.1	51.3	53.0	54.3	54.8	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5
3500	4.1	50.0	52.3	54.0	55.4	55.8	56.3	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5
3000	4.2	54.9	57.3	59.0	60.4	60.9	61.3	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
2500	4.9	61.4	63.8	65.6	67.1	67.5	68.1	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3
2000	4.9	69.5	72.4	74.4	76.0	76.5	77.1	77.2	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4
1800	4.9	70.2	73.2	75.2	76.8	77.4	77.9	78.0	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2
1500	5.1	76.5	80.7	83.3	85.4	86.1	86.8	86.9	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1200	5.1	78.1	82.7	85.7	88.1	88.9	89.8	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2
1000	5.1	80.3	85.8	89.4	92.2	93.2	94.3	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
900	5.2	80.6	86.2	90.2	93.1	94.2	95.4	95.6	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
800	5.2	81.1	86.9	91.1	94.4	95.5	96.7	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
700	5.2	81.1	87.0	91.4	94.8	95.9	97.1	97.5	97.7	97.8	97.9	97.9	97.9	97.9	97.9	97.9
600	5.2	81.1	87.0	91.5	95.0	96.2	97.4	97.9	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2
500	5.2	81.2	87.2	91.8	95.3	96.6	97.9	98.4	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9
400	5.2	81.2	87.2	91.9	95.4	96.8	98.3	98.9	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4
300	5.2	81.2	87.2	91.9	95.5	96.9	98.4	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.7
200	5.2	81.3	87.2	91.9	95.5	96.9	98.4	99.0	99.2	99.6	99.7	99.7	99.8	99.8	99.9	99.9
100	5.2	81.2	87.2	91.9	95.5	96.9	98.4	99.0	99.2	99.6	99.7	99.7	99.8	99.8	99.9	100.0
0	5.2	81.2	87.2	91.9	95.5	96.9	98.4	99.0	99.2	99.6	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2477

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 SANTA ANA, CALIFORNIA 73-82 JUN

WBAN STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01

HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.0	45.0	47.3	47.7	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 20000	3.0	45.3	47.7	48.0	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
AVAI 18000	3.0	45.3	47.7	48.0	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
AVAI 16000	3.0	45.3	47.7	48.0	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
AVAI 14000	3.0	45.6	48.0	48.3	49.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
AVAI 12000	3.0	46.0	48.3	48.7	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
AVAI 10000	3.0	46.0	48.3	48.7	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
AVAI 9000	3.0	46.0	48.3	48.7	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
AVAI 8000	3.0	46.0	48.3	48.7	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
AVAI 7000	3.0	46.0	48.3	48.7	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
AVAI 6000	3.0	46.0	48.3	48.7	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
AVAI 5000	3.0	46.3	48.7	49.0	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
AVAI 4500	3.0	46.3	48.7	49.0	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
AVAI 4000	3.4	46.6	49.3	49.7	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
AVAI 3500	3.4	47.3	50.0	50.3	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
AVAI 3000	3.4	47.7	50.3	50.7	51.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
AVAI 2500	3.4	49.0	51.7	52.0	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
AVAI 2000	3.4	55.7	59.1	59.4	60.1	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
AVAI 1800	3.7	56.0	59.4	59.7	60.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
AVAI 1500	3.7	66.4	70.8	71.5	72.8	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
AVAI 1200	3.7	69.5	75.5	77.2	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
AVAI 1000	3.7	75.2	84.2	86.6	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
AVAI 900	3.7	76.5	85.6	88.3	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AVAI 800	3.7	77.2	87.3	90.3	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
AVAI 700	3.7	77.2	87.3	91.3	95.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
AVAI 600	3.7	77.2	87.3	91.3	95.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
AVAI 500	3.7	77.2	87.6	91.6	96.6	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
AVAI 400	3.7	77.2	87.6	91.6	96.6	98.0	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AVAI 300	3.7	77.2	87.6	91.6	96.6	98.3	98.7	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
AVAI 200	3.7	77.2	87.6	91.6	96.6	98.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AVAI 100	3.7	77.2	87.6	91.6	96.6	98.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	3.7	77.2	87.6	91.6	96.6	98.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 298

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	73-82	JUN
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.4	32.9	33.9	34.2	35.2	35.2	35.2	35.2	35.2	35.2	35.6	35.6	35.6	35.6	35.6	35.6
≥ 20000	2.4	33.9	34.9	35.2	36.2	36.2	36.2	36.2	36.2	36.2	36.6	36.6	36.6	36.6	36.6	36.6
≥ 18000	2.4	33.9	34.9	35.2	36.2	36.2	36.2	36.2	36.2	36.2	36.6	36.6	36.6	36.6	36.6	36.6
≥ 16000	2.4	33.9	34.9	35.2	36.2	36.2	36.2	36.2	36.2	36.2	36.6	36.6	36.6	36.6	36.6	36.6
≥ 14000	2.4	33.9	34.9	35.2	36.2	36.2	36.2	36.2	36.2	36.2	36.6	36.6	36.6	36.6	36.6	36.6
≥ 12000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 10000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 9000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 8000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 7000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 6000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 5000	2.4	34.6	35.6	35.9	36.9	36.9	36.9	36.9	36.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3
≥ 4500	2.4	34.9	35.9	36.2	37.3	37.3	37.3	37.3	37.3	37.3	37.6	37.6	37.6	37.6	37.6	37.6
≥ 4000	2.4	35.2	36.2	36.6	37.6	37.6	37.6	37.6	37.6	37.6	37.9	37.9	37.9	37.9	37.9	37.9
≥ 3500	2.4	35.9	36.9	37.3	38.3	38.3	38.3	38.3	38.3	38.3	38.6	38.6	38.6	38.6	38.6	38.6
≥ 3000	2.4	37.3	38.3	38.6	39.6	39.6	39.6	39.6	39.6	39.6	39.9	39.9	39.9	39.9	39.9	39.9
≥ 2500	2.4	38.3	39.3	39.6	40.6	40.6	40.6	40.6	40.6	40.6	40.9	40.9	40.9	40.9	40.9	40.9
≥ 2000	2.4	43.0	44.3	44.6	45.6	45.6	45.6	45.6	45.6	45.6	46.0	46.0	46.0	46.0	46.0	46.0
≥ 1800	2.7	44.0	45.6	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.3	47.3	47.3	47.3	47.3	47.3
≥ 1500	2.7	52.0	55.7	57.4	58.4	58.4	58.4	58.4	58.4	58.4	58.7	58.7	58.7	58.7	58.7	58.7
≥ 1200	2.7	55.7	59.7	62.4	63.8	63.8	63.8	63.8	63.8	63.8	64.1	64.1	64.1	64.1	64.1	64.1
≥ 1000	2.7	62.4	69.5	73.8	77.5	78.2	78.9	78.9	78.9	78.9	79.2	79.2	79.2	79.2	79.2	79.2
≥ 900	2.7	63.4	70.5	75.8	80.2	81.2	81.9	81.9	81.9	81.9	82.2	82.2	82.2	82.2	82.2	82.2
≥ 800	2.7	64.4	72.5	78.2	83.6	84.6	85.6	85.6	85.6	85.6	85.9	85.9	85.9	85.9	85.9	85.9
≥ 700	2.7	64.4	73.2	78.9	84.9	85.9	87.6	87.6	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9
≥ 600	2.7	64.4	73.8	80.2	87.3	88.6	90.3	90.3	90.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9
≥ 500	2.7	65.1	74.5	81.2	88.9	90.6	93.3	93.6	93.6	95.0	95.3	95.3	95.6	95.6	95.6	95.6
≥ 400	2.7	65.4	75.2	81.9	89.6	91.3	94.0	94.6	94.6	95.3	96.6	96.6	97.0	97.0	97.3	97.3
≥ 300	2.7	65.4	75.2	81.9	89.6	91.3	94.0	94.6	94.6	96.3	97.0	97.0	97.3	97.3	98.0	98.3
≥ 200	2.7	65.4	75.2	81.9	89.6	91.3	94.0	94.6	94.6	96.3	97.3	97.3	97.7	97.7	98.3	99.0
≥ 100	2.7	65.4	75.2	81.9	89.6	91.3	94.0	94.6	94.6	96.3	97.3	97.3	97.7	97.7	99.0	99.7
≥ 0	2.7	65.4	75.2	81.9	89.6	91.3	94.0	94.6	94.6	96.3	97.3	97.3	97.7	97.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 298

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	JUN
STATION	STATION NAME	YEARS	MONTH

07
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.3	27.0	29.3	30.3	32.3	32.7	33.0	33.3	33.3	33.3	33.3	33.3	33.7	33.7	33.7	33.7
≥ 20000	2.3	27.3	29.7	30.7	32.7	33.0	33.3	33.7	33.7	33.7	33.7	33.7	34.0	34.0	34.0	34.0
≥ 18000	2.3	27.3	29.7	30.7	32.7	33.0	33.3	33.7	33.7	33.7	33.7	33.7	34.0	34.0	34.0	34.0
≥ 16000	2.3	27.3	29.7	30.7	32.7	33.0	33.3	33.7	33.7	33.7	33.7	33.7	34.0	34.0	34.0	34.0
≥ 14000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 12000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 10000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 9000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 8000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 7000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 6000	2.3	27.7	30.0	31.0	33.0	33.3	33.7	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.3	34.3
≥ 5000	2.3	28.0	30.3	31.3	33.3	33.7	34.0	34.3	34.3	34.3	34.3	34.3	34.7	34.7	34.7	34.7
≥ 4500	2.3	28.7	31.0	32.0	34.0	34.3	34.7	35.0	35.0	35.0	35.0	35.0	35.3	35.3	35.3	35.3
≥ 4000	2.3	28.7	31.0	32.0	34.0	34.3	34.7	35.0	35.0	35.0	35.0	35.0	35.3	35.3	35.3	35.3
≥ 3500	2.3	29.7	32.0	33.0	35.0	35.3	35.7	36.0	36.0	36.0	36.0	36.0	36.3	36.3	36.3	36.3
≥ 3000	2.3	31.3	33.7	34.7	36.7	37.0	37.3	37.7	37.7	37.7	37.7	37.7	38.0	38.0	38.0	38.0
≥ 2500	3.0	35.0	37.3	38.7	40.7	41.3	41.7	42.0	42.0	42.0	42.0	42.0	42.3	42.3	42.3	42.3
≥ 2000	3.3	38.7	41.3	43.3	46.3	47.0	47.3	47.7	47.7	47.7	47.7	47.7	48.0	48.0	48.0	48.0
≥ 1800	3.3	39.0	41.7	43.7	47.0	47.7	48.0	48.3	48.3	48.3	48.3	48.3	48.7	48.7	48.7	48.7
≥ 1500	3.3	46.3	52.3	55.7	60.3	61.0	62.0	62.3	62.3	62.3	62.3	62.3	62.7	62.7	62.7	62.7
≥ 1200	3.3	46.7	52.7	56.3	61.3	62.3	64.7	65.3	65.3	65.3	65.3	65.3	65.7	65.7	65.7	65.7
≥ 1000	3.3	50.0	57.7	64.0	73.7	76.7	80.3	81.7	82.0	82.3	82.3	82.3	82.7	82.7	82.7	82.7
≥ 900	3.3	50.7	58.3	65.0	75.0	78.0	82.3	84.0	84.3	85.0	85.0	85.0	85.3	85.3	85.3	85.3
≥ 800	3.3	50.7	58.3	65.0	75.7	79.0	84.3	87.7	88.0	88.7	88.7	88.7	89.0	89.0	89.0	89.0
≥ 700	3.3	50.7	58.7	65.3	76.7	80.3	85.7	90.3	90.7	91.7	92.0	92.0	92.3	92.3	92.3	92.3
≥ 600	3.3	50.7	58.7	65.3	76.7	80.3	86.3	91.7	92.3	93.7	94.0	94.0	94.3	94.3	94.3	94.3
≥ 500	3.3	50.7	58.7	65.7	77.0	81.0	87.0	92.3	93.0	94.7	95.0	95.0	95.7	95.7	95.7	95.7
≥ 400	3.3	50.7	58.7	65.7	77.0	81.0	87.0	94.3	95.0	96.7	97.7	97.7	98.7	99.0	99.0	99.0
≥ 300	3.3	50.7	58.7	65.7	77.0	81.0	87.0	94.3	95.0	96.7	97.7	97.7	98.7	99.0	99.3	100.0
≥ 200	3.3	50.7	58.7	65.7	77.0	81.0	87.0	94.3	95.0	96.7	97.7	97.7	98.7	99.0	99.3	100.0
≥ 100	3.3	50.7	58.7	65.7	77.0	81.0	87.0	94.3	95.0	96.7	97.7	97.7	98.7	99.0	99.3	100.0
0	3.3	50.7	58.7	65.7	77.0	81.0	87.0	94.3	95.0	96.7	97.7	97.7	98.7	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

*114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.0	40.7	48.0	51.3	56.0	59.0	61.0	61.7	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 20000	4.0	42.7	50.3	53.7	58.7	61.7	64.3	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 18000	4.0	42.7	50.3	53.7	58.7	61.7	64.3	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000	4.0	42.7	50.3	53.7	58.7	61.7	64.3	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000	4.0	42.7	50.3	53.7	58.7	61.7	64.3	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000	4.0	42.7	50.7	54.0	59.0	62.0	64.7	65.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 10000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 9000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 7000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 6000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 5000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 4500	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 4000	4.0	43.0	51.0	54.3	59.3	62.3	65.0	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 3500	4.0	43.7	51.7	55.0	60.0	63.0	65.7	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 3000	4.0	46.0	54.3	57.7	62.7	65.7	68.3	69.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 2500	4.0	49.3	57.7	61.0	66.0	69.0	71.7	72.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 2000	4.0	55.3	64.0	67.7	73.0	76.0	79.0	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 1800	4.3	56.0	64.7	68.3	74.0	77.0	80.0	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 1500	4.3	60.7	70.3	75.3	83.7	88.0	91.3	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1200	4.3	61.0	71.0	76.0	86.0	90.7	94.7	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1000	4.3	61.3	71.7	77.7	88.0	93.0	97.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	4.3	61.7	72.0	78.0	88.3	93.3	97.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	4.3	61.7	72.0	78.0	88.3	93.7	98.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	4.3	61.7	72.0	78.0	88.3	94.0	98.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIFNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	JUN
STA NO	STATION NAME	YEARS	MONTH

13
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.3	61.3	70.3	75.3	80.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 20000	5.3	63.3	72.3	77.3	82.0	83.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
18000	5.3	63.3	72.3	77.3	82.0	83.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
16000	5.3	63.3	72.3	77.3	82.0	83.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
14000	5.3	63.3	72.3	77.3	82.0	83.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
12000	5.3	63.3	72.3	77.3	82.0	83.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
10000	5.3	64.0	73.0	78.0	82.7	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
9000	5.3	64.0	73.0	78.0	82.7	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
8000	5.3	64.0	73.0	78.0	82.7	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
7000	5.3	64.0	73.0	78.0	82.7	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
6000	5.3	64.0	73.0	78.0	82.7	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
5000	5.7	64.3	73.3	78.3	83.0	84.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
4500	5.7	64.3	73.3	78.3	83.0	84.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
4000	5.7	64.3	73.3	78.3	83.0	84.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
3500	5.7	64.7	73.7	78.7	83.3	84.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
3000	5.7	66.3	75.3	80.3	85.0	86.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
2500	6.0	69.0	78.0	83.0	87.7	88.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
2000	6.0	72.0	81.3	86.7	91.7	92.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
1800	6.0	72.3	81.7	87.0	92.0	93.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
1500	6.0	75.7	85.0	90.7	96.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
1200	6.0	76.7	86.0	91.7	97.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1000	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	6.0	77.0	86.7	92.3	98.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7114	SANTA ANA, CALIFORNIA	73-82	JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T): 16

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.3	74.7	79.0	81.0	83.0	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 20000	8.3	78.0	82.3	84.3	86.3	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 18000	8.3	78.3	82.7	84.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 16000	8.3	78.7	83.0	85.0	87.0	87.0	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 14000	8.3	78.7	83.0	85.0	87.0	87.0	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 12000	8.3	79.0	83.3	85.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 10000	8.3	79.3	84.0	86.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 9000	8.3	79.3	84.0	86.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 8000	8.3	79.7	84.3	86.3	88.3	88.3	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 7000	8.3	80.0	84.7	86.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 6000	8.3	80.0	84.7	86.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 5000	8.7	80.3	85.0	87.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4500	8.7	80.3	85.0	87.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4000	8.7	80.3	85.0	87.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3500	8.7	81.3	86.0	88.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3000	8.7	82.3	87.3	89.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2500	9.0	84.7	89.7	91.7	93.7	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 2000	9.3	87.0	92.0	94.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800	9.3	87.7	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	9.3	90.0	95.0	97.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS



NA' . WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	JUN
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.1	74.5	76.2	77.9	80.2	80.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 20000	10.1	76.2	78.2	79.9	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 18000	10.1	76.2	78.2	79.9	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 16000	10.1	76.2	78.2	79.9	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 14000	10.1	76.5	78.5	80.2	82.9	82.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 12000	10.1	76.9	78.9	80.5	83.2	83.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 10000	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 9000	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 8000	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 7000	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 6000	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 5000	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4500	10.1	76.9	79.2	80.9	83.6	83.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4000	10.1	77.9	80.2	81.9	84.6	84.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 3500	10.1	77.9	80.2	81.9	84.6	84.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 3000	10.1	78.5	81.2	82.9	85.6	85.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2500	10.1	80.9	83.6	85.2	87.9	87.9	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2000	10.6	82.6	85.9	87.6	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800	10.4	83.6	86.9	88.6	91.6	91.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	10.4	86.9	90.6	92.3	95.6	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200	10.4	88.3	92.3	94.0	97.3	97.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000	10.4	88.6	93.0	94.6	98.0	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	10.4	88.9	93.3	95.0	98.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 298

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (WBAN) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.0	61.7	64.1	65.8	65.8	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 20000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 18000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 16000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 14000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 12000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 10000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 9000	4.0	62.4	64.8	66.4	66.4	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
AVN 9000	4.0	62.4	64.8	66.8	66.8	67.1	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
AVN 7000	4.0	62.4	64.8	66.8	66.8	67.1	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
AVN 6000	4.0	62.4	64.8	66.8	66.8	67.1	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
AVN 5000	4.0	62.4	64.8	66.8	66.8	67.1	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
AVN 4500	4.0	62.4	64.8	66.8	66.8	67.1	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
AVN 4000	4.0	62.8	65.1	67.1	67.1	67.5	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
AVN 3500	4.0	62.8	65.1	67.1	67.1	67.5	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
AVN 3000	4.0	64.8	67.1	69.1	69.1	69.5	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
AVN 2500	4.0	68.1	70.5	72.5	72.5	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
AVN 2000	4.4	73.5	76.2	78.2	78.2	78.5	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
AVN 1800	4.4	73.5	76.2	78.2	78.5	78.9	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
AVN 1500	4.4	79.9	82.9	84.9	85.6	85.9	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
AVN 1200	4.4	92.2	85.2	87.3	88.3	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
AVN 1000	4.4	97.9	91.3	94.0	95.3	95.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
AVN 900	4.4	87.9	91.3	94.3	96.0	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
AVN 800	4.4	88.3	91.6	95.3	97.0	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
AVN 700	4.4	88.3	91.6	95.3	97.0	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
AVN 600	4.4	88.3	91.6	95.3	97.7	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
AVN 500	4.4	88.3	91.6	95.3	98.0	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
AVN 400	4.4	88.3	91.6	95.3	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AVN 300	4.4	88.3	91.6	95.3	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AVN 200	4.4	88.3	91.6	95.3	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AVN 100	4.4	88.3	91.6	95.3	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AVN 0	4.4	88.3	91.6	95.3	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 298

DIFNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114 | SANTA ANA, CALIFORNIA | 73-82 | JUN

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

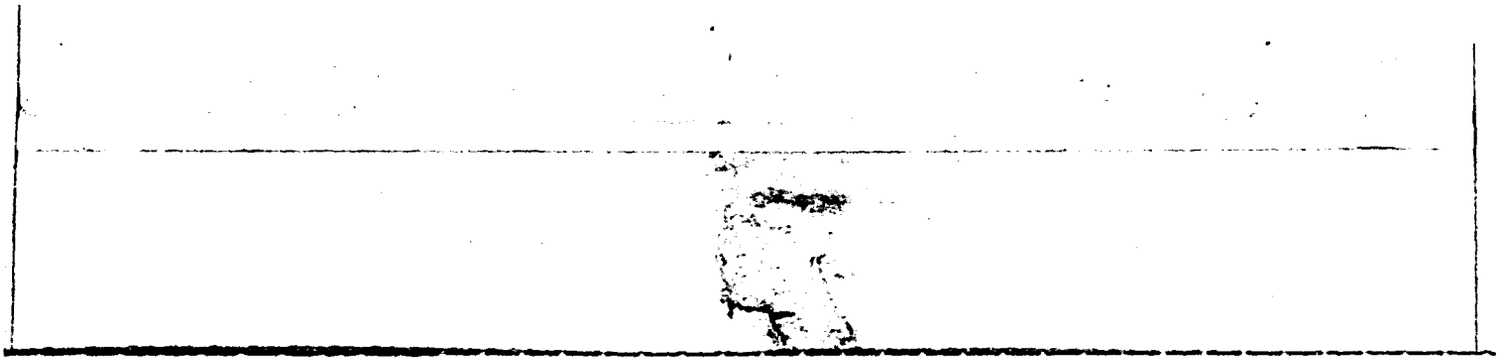
ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.9	52.2	56.0	57.9	60.1	60.7	61.3	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5
≥ 20000	4.9	53.6	57.5	59.5	61.7	62.3	63.2	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4
≥ 18000	4.9	53.7	57.6	59.5	61.8	62.4	63.2	63.3	63.4	63.4	63.4	63.4	63.5	63.5	63.5	63.5
≥ 16000	4.9	53.7	57.6	59.5	61.8	62.4	63.3	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5
≥ 14000	4.9	53.9	57.7	59.7	61.9	62.5	63.4	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 12000	4.9	54.1	58.0	59.9	62.2	62.8	63.6	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9
≥ 10000	4.9	54.2	58.2	60.2	62.4	63.0	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.1
≥ 9000	4.9	54.2	58.2	60.2	62.4	63.0	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 8000	4.9	54.3	58.3	60.2	62.5	63.1	64.0	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2
≥ 7000	4.9	54.3	58.3	60.3	62.5	63.2	64.0	64.1	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3
≥ 6000	4.9	54.3	58.3	60.3	62.5	63.2	64.0	64.1	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3
≥ 5000	5.0	54.5	58.5	60.5	62.7	63.3	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4
≥ 4500	5.0	54.6	58.6	60.6	62.8	63.5	64.3	64.4	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6
≥ 4000	5.1	54.9	58.9	60.9	63.1	63.8	64.6	64.7	64.9	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 3500	5.1	55.4	59.5	61.4	63.7	64.3	65.1	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4
≥ 3000	5.1	56.0	61.0	62.9	65.2	65.8	66.6	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9
≥ 2500	5.2	59.3	63.5	65.5	67.7	68.4	69.2	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.5	69.5
≥ 2000	5.4	63.5	68.0	70.2	72.7	73.3	74.2	74.3	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5
≥ 1800	5.5	64.0	68.6	70.8	73.4	74.1	75.0	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1500	5.5	69.7	75.3	78.1	81.5	82.3	83.3	83.4	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6
≥ 1200	5.5	71.2	77.2	80.2	84.1	85.0	86.3	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6
≥ 1000	5.5	74.0	81.1	85.0	90.0	91.3	92.9	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4
≥ 900	5.5	74.5	81.6	85.7	90.9	92.3	93.9	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5
≥ 800	5.5	74.8	82.1	86.4	91.8	93.3	95.2	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 700	5.5	74.8	82.2	86.6	92.2	93.9	95.8	96.5	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8
≥ 600	5.5	74.8	82.3	86.8	92.6	94.3	96.3	97.1	97.2	97.5	97.5	97.5	97.6	97.6	97.6	97.6
≥ 500	5.5	74.8	82.4	87.0	93.1	94.9	97.0	97.9	98.0	98.4	98.5	98.5	98.6	98.6	98.6	98.6
≥ 400	5.5	74.9	82.5	87.1	93.1	95.0	97.2	98.4	98.5	99.0	99.1	99.1	99.3	99.3	99.4	99.4
≥ 300	5.5	74.9	82.5	87.1	93.1	95.0	97.2	98.5	98.6	99.0	99.3	99.3	99.4	99.5	99.6	99.7
≥ 200	5.5	74.9	82.5	87.1	93.1	95.0	97.2	98.5	98.6	99.1	99.4	99.4	99.5	99.6	99.7	99.9
≥ 100	5.5	74.9	82.5	87.1	93.1	95.0	97.2	98.5	98.6	99.1	99.4	99.4	99.5	99.6	99.8	100.0
0	5.5	74.9	82.5	87.1	93.1	95.0	97.2	98.5	98.6	99.1	99.4	99.4	99.5	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2392

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

LIH | SANTA ANA, CALIFORNIA | 73-82 | JUL

STATION | STATION NAME | YEARS | MONTH

01

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.3	50.0	53.6	55.8	56.1	56.5	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 20000	.3	50.3	53.9	56.5	56.9	57.1	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 18000	.3	50.3	53.9	56.5	56.8	57.1	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 16000	.3	50.3	53.9	56.5	56.8	57.1	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 14000	.3	50.3	53.9	56.5	56.8	57.1	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 12000	.3	51.3	54.9	57.4	57.7	58.1	58.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	59.7	59.7
≥ 10000	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 9000	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 8000	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 7000	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 6000	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 5000	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4500	.3	52.6	56.1	58.7	59.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4000	.3	52.9	56.5	59.0	59.4	59.7	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 3500	.3	52.9	56.5	59.0	59.4	59.7	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 3000	.3	52.9	56.5	59.0	59.4	59.7	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 2500	.3	53.2	56.8	59.4	59.7	60.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 2000	.7	55.8	59.4	61.9	62.3	62.6	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 1800	.7	55.8	59.4	61.9	62.3	62.6	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 1500	.7	63.6	68.4	71.0	71.9	72.3	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 1200	.7	67.7	73.9	76.8	78.1	78.4	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 1000	1.0	75.4	83.9	87.4	89.4	89.7	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 900	1.0	77.1	85.5	89.0	91.0	91.3	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800	1.0	79.4	87.7	92.6	94.5	94.8	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 700	1.0	79.7	88.7	94.2	96.5	96.8	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	1.0	79.7	88.7	94.5	97.4	97.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	1.0	79.7	88.7	94.5	97.4	97.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	1.0	80.0	89.0	94.5	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	1.0	80.0	89.0	94.8	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	1.0	80.0	89.0	94.8	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	1.0	80.0	89.0	94.8	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	1.0	80.0	89.0	94.8	98.1	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.7	31.3	36.8	37.4	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 20000	.7	31.6	37.1	37.7	38.4	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	.7	31.6	37.1	37.7	38.4	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	.7	31.6	37.4	38.1	38.7	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 14000	.7	31.6	37.4	38.1	38.7	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 12000	.7	32.3	38.1	38.7	39.4	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 10000	.7	33.6	39.4	40.0	40.7	40.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 9000	.7	33.9	39.7	40.3	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 8000	.7	33.9	39.7	40.3	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 7000	.7	33.9	39.7	40.3	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 6000	.7	33.9	39.7	40.3	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 5000	.7	33.9	39.7	40.3	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 4500	.7	33.9	39.7	40.3	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 4000	.7	34.2	40.0	40.7	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 3500	.7	34.2	40.0	40.7	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 3000	.7	34.5	41.0	41.6	42.3	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 2500	.7	34.5	41.3	41.9	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 2000	.7	36.5	43.2	43.9	44.5	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 1800	.7	37.1	43.9	44.5	45.2	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 1500	.7	45.5	54.5	55.5	56.1	56.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 1200	.7	50.0	61.3	62.6	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 1000	1.0	59.7	73.9	78.4	80.3	81.3	82.3	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 900	1.0	60.0	74.8	80.0	81.9	82.9	83.9	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 800	1.0	61.9	78.1	84.2	86.8	87.7	88.7	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 700	1.0	62.3	79.4	84.5	87.4	88.7	90.0	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	91.0
≥ 600	1.0	62.9	79.4	85.8	90.3	91.6	93.2	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.2
≥ 500	1.0	62.9	79.4	86.5	91.6	93.2	95.2	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.8
≥ 400	1.0	62.9	79.4	86.5	92.6	94.5	96.5	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.1
≥ 300	1.0	62.9	79.4	86.5	92.6	94.5	96.5	97.4	97.7	98.1	98.1	98.1	98.4	98.4	98.7	99.0
≥ 200	1.0	62.9	79.4	86.5	92.6	94.5	96.5	97.4	97.7	98.1	98.1	98.1	98.4	98.4	98.7	99.0
≥ 100	1.0	62.9	79.4	86.5	92.6	94.5	96.5	97.4	97.7	98.1	98.1	98.1	98.7	98.7	99.0	99.4
0	1.0	62.9	79.4	86.5	92.6	94.5	96.5	97.4	97.7	98.1	98.1	98.1	98.7	98.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]14	SANTA ANA, CALIFORNIA	73-82	JUL

HOURS (L S T) 07

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.3	21.4	25.8	29.0	34.5	34.5	34.8	34.8	35.2	35.5	35.5	35.8	35.8	35.8	35.8	35.8
≥ 20000	1.3	22.0	27.1	30.3	35.8	35.8	36.1	36.1	36.5	36.8	36.8	37.1	37.1	37.1	37.1	37.1
≥ 18000	1.3	22.9	27.1	30.3	35.8	35.8	36.1	36.1	36.5	36.8	36.8	37.1	37.1	37.1	37.1	37.1
≥ 16000	1.3	22.9	27.1	32.3	35.8	35.8	36.1	36.1	36.5	36.8	36.8	37.1	37.1	37.1	37.1	37.1
≥ 14000	1.3	23.2	27.8	32.7	36.8	36.8	37.1	37.1	37.4	37.7	37.7	38.1	38.1	38.1	38.1	38.1
≥ 12000	1.3	23.5	28.1	31.3	37.4	37.4	37.7	37.7	38.1	38.4	38.4	38.7	38.7	38.7	38.7	38.7
≥ 10000	1.3	24.2	28.7	31.9	38.1	38.1	38.4	38.4	38.7	39.0	39.0	39.4	39.4	39.4	39.4	39.4
≥ 9000	1.3	24.2	28.7	31.9	38.1	38.1	38.4	38.4	38.7	39.0	39.0	39.4	39.4	39.4	39.4	39.4
≥ 8000	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 7000	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 6000	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 5000	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 4500	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 4000	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 3500	1.3	24.2	28.7	32.3	38.4	38.4	38.7	38.7	39.0	39.4	39.4	39.7	39.7	39.7	39.7	39.7
≥ 3000	1.3	24.5	29.0	32.6	38.7	38.7	39.0	39.0	39.4	39.7	39.7	40.0	40.0	40.0	40.0	40.0
≥ 2500	1.3	25.2	29.7	33.2	39.4	39.4	39.7	39.7	40.0	40.3	40.3	40.7	40.7	40.7	40.7	40.7
≥ 2000	1.4	27.7	32.3	35.8	41.9	41.9	42.3	42.3	42.6	42.9	42.9	43.2	43.2	43.2	43.2	43.2
≥ 1800	1.6	28.1	32.9	36.8	42.9	42.9	43.2	43.2	43.6	43.9	43.9	44.2	44.2	44.2	44.2	44.2
≥ 1500	1.6	36.1	42.6	48.7	55.5	56.5	56.8	56.8	57.1	57.4	57.4	57.7	57.7	57.7	57.7	57.7
≥ 1200	1.6	40.3	47.7	55.8	63.6	65.8	66.5	66.5	66.8	67.1	67.1	67.4	67.4	67.4	67.4	67.4
≥ 1000	1.6	43.6	53.2	63.9	75.2	78.1	81.3	82.6	83.2	83.6	83.6	83.9	83.9	83.9	83.9	83.9
≥ 900	1.6	43.6	53.2	64.2	76.1	79.7	83.2	84.5	85.2	86.1	86.1	86.5	86.5	86.5	86.5	86.5
≥ 800	1.6	43.6	53.6	65.2	77.1	82.3	85.8	87.4	88.4	89.7	89.7	90.0	90.0	90.0	90.0	90.0
≥ 700	1.6	43.6	54.2	65.8	78.4	83.9	87.7	90.3	91.3	92.6	92.6	92.9	92.9	92.9	92.9	92.9
≥ 600	1.6	43.6	54.2	65.8	78.7	84.2	88.7	91.6	92.6	93.9	93.9	94.2	94.2	94.2	94.2	94.2
≥ 500	1.6	43.6	54.2	65.8	79.4	84.8	89.4	93.2	94.5	96.1	96.5	96.8	96.8	96.8	96.8	96.8
≥ 400	1.6	43.6	54.2	65.8	79.7	85.8	90.3	94.2	95.5	97.1	97.4	97.7	97.7	97.7	97.7	97.7
≥ 300	1.6	43.6	54.2	65.8	79.7	85.8	90.3	94.5	95.8	97.4	98.1	98.4	98.7	98.7	99.0	99.0
≥ 200	1.6	43.6	54.2	65.8	79.7	85.8	90.3	94.5	95.8	97.4	98.4	98.7	99.0	99.0	99.4	99.4
≥ 100	1.6	43.6	54.2	65.8	79.7	85.8	90.3	94.5	95.8	97.4	98.4	98.7	99.0	99.0	99.4	100.0
0	1.6	43.6	54.2	65.8	79.7	85.8	90.3	94.5	95.8	97.4	98.4	98.7	99.0	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) JUL (MONTH)

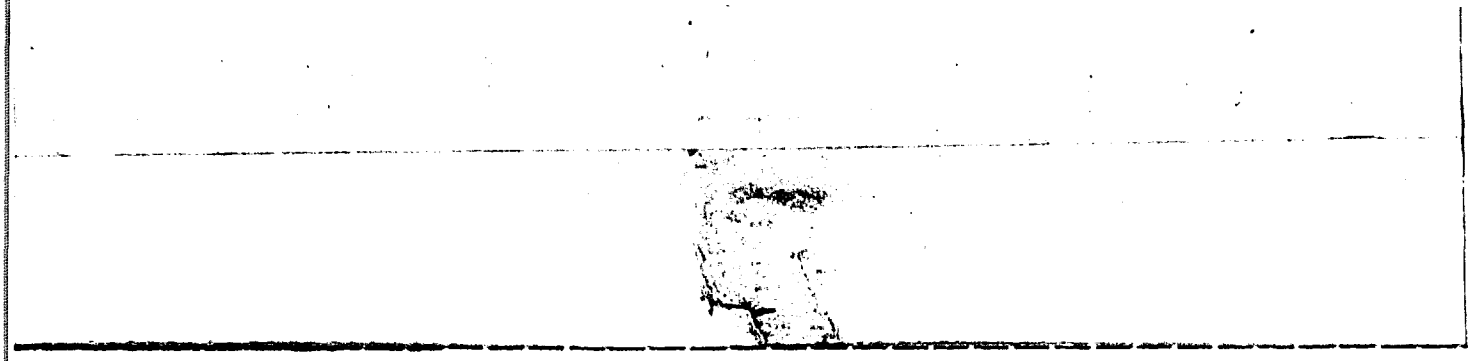
10 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.9	51.9	62.3	71.6	80.0	80.7	83.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 20000	2.9	51.9	62.3	71.6	80.0	80.7	83.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 18000	2.9	51.9	62.3	71.6	80.0	80.7	83.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 16000	2.9	51.9	62.3	71.6	80.0	80.7	83.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 14000	3.2	52.3	62.6	71.9	80.3	81.0	83.6	84.5	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 12000	3.2	53.6	63.9	73.6	82.3	82.9	85.5	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 10000	3.2	54.8	65.2	74.8	83.9	84.5	87.1	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 9000	3.2	54.8	65.2	74.8	83.9	84.5	87.1	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 8000	3.2	55.2	65.5	75.2	84.2	84.8	87.4	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 7000	3.2	55.2	65.8	75.5	84.5	85.2	87.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 6000	3.2	55.2	65.8	75.5	84.5	85.2	87.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 5000	3.2	55.2	65.8	75.5	84.5	85.2	87.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4500	3.2	55.2	65.8	75.5	84.5	85.2	87.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4000	3.2	55.2	65.8	75.5	84.5	85.2	87.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500	3.2	55.2	65.8	75.5	84.5	85.2	87.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3000	3.2	55.5	66.1	75.8	84.8	85.5	88.1	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2500	3.2	56.1	66.8	76.5	85.5	86.1	88.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2000	3.2	56.1	66.7	78.4	87.4	88.1	90.7	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1800	3.2	58.7	69.7	79.4	88.4	89.0	91.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1300	3.6	61.0	71.9	82.3	92.3	93.2	96.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	3.6	61.3	72.3	82.9	93.2	94.2	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	3.6	61.6	72.9	83.9	94.2	95.2	98.1	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	3.6	61.6	72.9	83.9	94.2	95.2	98.1	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	3.6	61.6	72.9	84.2	94.5	95.5	98.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (WBAN) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | JUL (MONTH)

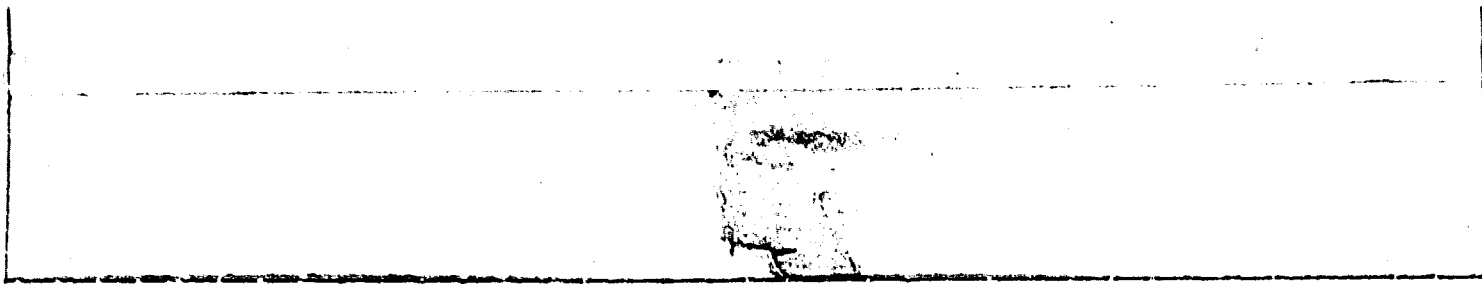
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.2	75.2	82.6	86.8	91.0	92.6	92.6	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 20000	5.2	76.1	83.4	87.7	91.9	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 18000	5.2	76.5	83.9	88.1	92.3	93.9	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 16000	5.2	76.5	83.9	88.1	92.3	93.9	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 14000	5.2	77.4	84.8	89.0	93.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 12000	5.2	77.7	85.2	89.4	93.6	95.2	95.2	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 10000	5.2	77.7	85.5	89.7	93.9	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 9000	5.2	77.7	85.5	89.7	93.9	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 8000	5.2	78.4	86.5	90.7	94.8	96.5	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 7000	5.2	78.4	86.5	90.7	94.8	96.5	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 6000	5.2	78.4	86.5	90.7	94.8	96.5	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 5000	5.2	78.4	86.5	90.7	94.8	96.5	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500	5.2	78.4	86.5	90.7	94.8	96.5	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4000	5.2	78.4	86.5	90.7	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3500	5.2	78.4	86.5	90.7	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3000	5.2	78.4	86.5	90.7	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500	5.2	78.7	86.8	91.0	95.2	97.1	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2000	5.2	79.3	87.4	91.9	96.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	5.2	79.3	87.4	91.9	96.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	5.2	79.7	88.1	92.6	96.8	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	5.2	80.0	88.7	93.2	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.8	87.1	90.0	91.6	93.2	93.2	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 20000	6.8	88.9	91.3	93.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 18000	6.8	88.4	91.3	93.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 16000	6.8	88.7	91.5	93.6	95.2	95.2	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 14000	6.8	88.7	91.6	93.6	95.2	95.2	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 12000	6.8	89.0	91.9	93.9	95.8	95.8	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 10000	6.8	90.0	92.9	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 9000	6.8	90.0	92.9	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 8000	6.8	90.7	93.6	95.5	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 7000	6.8	91.0	93.9	95.8	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000	6.8	91.0	93.9	95.8	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 5000	6.8	91.3	94.2	96.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 4500	6.8	91.3	94.2	96.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 4000	6.8	91.3	94.2	96.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3500	6.8	91.6	94.5	96.5	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3000	6.8	91.6	94.5	96.5	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2500	6.8	91.9	94.8	96.8	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000	6.8	91.9	94.8	96.8	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800	6.8	91.9	94.8	96.8	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500	6.8	92.3	95.2	97.1	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	6.8	92.6	95.5	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DiRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114	SANTA ANA, CALIFORNIA	73-12	JUL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.8	83.2	88.7	90.3	90.7	90.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 20000	5.8	84.8	90.3	91.9	92.3	92.3	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 18000	5.8	84.8	90.3	91.9	92.3	92.3	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 16000	5.8	84.8	90.3	91.9	92.3	92.3	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 14000	5.8	86.1	91.6	93.2	93.6	93.6	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 12000	5.8	86.8	92.3	93.9	94.2	94.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 10000	5.8	87.7	93.6	95.2	95.5	95.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 9000	5.8	87.7	93.6	95.2	95.5	95.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 8000	5.8	88.4	94.2	95.8	96.1	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 7000	5.8	88.4	94.2	95.8	96.1	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 6000	5.8	88.4	94.2	95.8	96.1	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 5000	5.8	88.4	94.2	95.8	96.1	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500	5.8	88.4	94.2	95.8	96.1	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4000	5.8	88.7	94.5	96.1	96.5	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3500	5.8	88.7	94.5	96.1	96.5	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3000	5.8	88.7	94.5	96.1	96.5	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500	5.8	89.4	95.2	96.8	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2000	5.8	89.7	95.5	97.1	97.4	97.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800	5.8	90.0	95.8	97.4	97.7	97.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	5.8	91.0	96.8	98.4	98.7	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200	5.8	91.0	96.8	98.4	98.7	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	5.8	91.3	97.1	98.7	99.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

11% | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | JUL (MONTH)

22 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.3	68.7	73.2	76.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 20000	1.3	68.7	73.2	76.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 18000	1.3	68.7	73.2	76.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 16000	1.3	68.7	73.2	76.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 14000	1.3	69.0	73.6	76.8	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 12000	1.3	71.0	75.5	78.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 10000	1.3	72.3	76.8	80.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 9000	1.3	72.3	76.8	80.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 8000	1.3	73.2	77.7	81.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000	1.3	73.2	77.7	81.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 6000	1.3	73.2	77.7	81.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000	1.3	73.6	78.1	81.3	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4500	1.3	73.6	78.1	81.3	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000	1.3	73.6	78.1	81.3	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3500	1.3	73.6	78.1	81.3	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3000	1.3	74.2	78.7	81.9	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 2500	1.3	74.2	78.7	81.9	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 2000	1.3	76.5	81.0	84.5	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1800	1.3	76.8	81.3	84.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1500	1.3	81.0	86.5	90.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200	1.3	83.2	88.7	92.3	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1000	1.3	86.5	92.6	96.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	1.3	87.1	93.6	97.1	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	1.3	87.4	93.9	97.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	1.3	87.4	94.2	97.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

03116	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 3/16	≥ ¼	≥ 0
NO CEILING	3.0	58.5	63.9	67.2	70.0	70.3	71.0	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4
≥ 20000	3.0	59.4	64.8	68.2	71.0	71.3	72.0	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4
≥ 18000	3.0	59.4	64.9	68.2	71.1	71.4	72.0	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 16000	3.0	59.4	65.0	68.3	71.1	71.5	72.1	72.3	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 14000	3.0	59.8	65.4	68.7	71.6	71.9	72.6	72.8	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0
≥ 12000	3.0	60.7	66.2	69.6	72.6	72.9	73.6	73.8	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0
≥ 10000	3.0	61.6	67.3	70.7	73.7	74.0	74.6	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 9000	3.0	61.7	67.3	70.7	73.7	74.0	74.7	74.9	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1
≥ 8000	3.0	62.1	67.7	71.2	74.2	74.5	75.2	75.4	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6
≥ 7000	3.0	62.1	67.8	71.3	74.3	74.6	75.2	75.5	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7
≥ 6000	3.0	62.1	67.8	71.3	74.3	74.6	75.2	75.5	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7
≥ 5000	3.0	62.2	67.9	71.3	74.4	74.7	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4500	3.0	62.2	67.9	71.3	74.4	74.7	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4000	3.0	62.3	68.0	71.5	74.5	74.8	75.5	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500	3.0	62.3	68.1	71.5	74.5	74.9	75.5	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3000	3.0	62.3	68.4	71.8	74.8	75.2	75.8	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 2500	3.0	62.9	68.8	72.2	75.2	75.6	76.2	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 2000	3.2	64.4	70.3	73.8	76.8	77.2	77.8	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 1800	3.2	64.7	70.7	74.2	77.2	77.6	78.2	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 1500	3.2	66.8	75.5	79.4	82.7	83.3	84.0	84.2	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4
≥ 1200	3.2	70.8	78.1	82.4	86.0	86.7	87.5	87.7	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9
≥ 1000	3.3	73.9	82.2	87.4	91.6	92.5	93.6	94.2	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5
≥ 900	3.3	74.2	82.7	87.9	92.3	93.2	94.6	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800	3.3	74.7	83.4	89.1	93.5	94.7	96.0	96.3	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 700	3.3	74.9	83.7	89.5	94.0	95.3	96.7	97.3	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.8
≥ 600	3.3	74.9	83.8	89.7	94.6	95.8	97.3	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 500	3.3	74.9	83.8	89.8	94.8	96.1	97.7	98.6	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1
≥ 400	3.3	74.9	83.9	89.8	95.0	96.5	98.0	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 300	3.3	74.9	83.9	89.8	95.0	96.5	98.0	99.0	99.2	99.4	99.5	99.6	99.6	99.6	99.7	99.8
≥ 200	3.3	74.9	83.9	89.8	95.0	96.5	98.0	99.0	99.2	99.4	99.6	99.6	99.7	99.7	99.8	99.8
≥ 100	3.3	74.9	83.9	89.8	95.0	96.5	98.0	99.0	99.2	99.4	99.6	99.6	99.7	99.7	99.8	99.9
0	3.3	74.9	83.9	89.8	95.0	96.5	98.0	99.0	99.2	99.4	99.6	99.6	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2483

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114	SANTA ANA, CALIFORNIA	73-82	AUG	01
STATION	STATION NAME	YEARS	MONTH	HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.3	49.4	52.9	55.8	58.1	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 20000	1.3	50.0	53.9	56.8	59.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000	1.3	50.0	53.9	56.8	59.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 16000	1.3	50.0	53.9	56.8	59.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 14000	1.3	51.0	54.9	57.7	60.0	61.3	61.6	61.6	61.6	61.6	61.6	61.6	62.6	61.6	61.6	61.6
≥ 12000	1.3	51.0	54.9	57.7	60.0	61.3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 10000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 9000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 8000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 7000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 6000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 5000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 4500	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 4000	1.3	51.9	55.8	58.7	61.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 3500	1.3	52.3	56.1	59.0	61.3	62.6	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 3000	1.3	53.2	57.1	60.0	62.3	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 2500	1.9	54.5	58.4	61.3	63.6	64.8	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 2000	1.9	56.5	60.3	63.2	65.5	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 1800	1.9	56.8	60.7	63.6	65.8	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 1500	1.9	67.4	71.6	74.8	77.1	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 1200	1.9	69.4	73.9	77.7	80.3	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1000	1.9	77.7	83.6	87.7	91.6	92.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 900	1.9	78.7	84.8	89.0	93.2	94.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800	1.9	79.4	85.8	90.3	95.3	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	1.9	79.4	85.8	91.0	95.8	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	1.9	79.7	86.1	91.3	96.8	98.1	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	1.9	79.7	86.5	91.9	97.4	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	1.9	79.7	86.5	91.9	97.4	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	1.9	79.7	86.5	91.9	97.4	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	1.9	79.7	86.5	91.9	97.4	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	1.9	79.7	86.5	91.9	97.4	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0
0	1.9	79.7	86.5	91.9	97.4	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	YEARS	MONTH

04
HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.3	27.4	31.6	32.9	34.5	34.8	35.5	35.5	35.5	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 20000	.3	28.1	32.3	33.6	35.2	35.5	36.1	36.1	36.1	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 18000	.3	28.1	32.3	33.6	35.2	35.5	36.1	36.1	36.1	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 16000	.3	28.1	32.3	33.6	35.2	35.5	36.1	36.1	36.1	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 14000	.3	28.1	32.6	33.9	35.5	35.8	36.5	36.5	36.5	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 12000	.3	28.4	32.9	34.2	35.8	36.1	36.8	36.8	36.8	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 10000	.3	29.0	33.6	34.8	36.5	36.8	37.4	37.4	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7
≥ 9000	.3	29.0	33.6	34.8	36.5	36.8	37.4	37.4	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7
≥ 8000	.3	29.4	33.9	35.2	36.8	37.1	37.7	37.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 7000	.3	29.4	33.9	35.2	36.8	37.1	37.7	37.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 6000	.3	29.4	33.9	35.2	36.8	37.1	37.7	37.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 5000	.3	29.7	34.2	35.5	37.1	37.4	38.1	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 4500	.3	29.7	34.2	35.5	37.1	37.4	38.1	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 4000	.3	29.7	34.2	35.5	37.1	37.4	38.1	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 3500	.3	29.7	34.2	35.5	37.1	37.4	38.1	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 3000	.7	31.0	35.5	36.8	38.4	38.7	39.4	39.4	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 2500	1.0	31.4	36.1	37.4	39.0	39.4	40.0	40.0	40.0	40.3	40.3	40.3	40.3	40.3	40.3	40.3
≥ 2000	1.0	35.2	39.7	41.0	42.6	42.9	43.6	43.6	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 1800	1.3	35.9	40.3	41.6	43.2	43.6	44.2	44.2	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 1500	1.3	48.1	53.2	54.8	57.4	57.7	58.7	58.7	58.7	59.4	59.4	59.4	59.7	59.7	59.7	59.7
≥ 1200	1.3	52.9	58.1	59.7	62.3	62.6	63.6	63.6	63.6	64.2	64.2	64.2	64.5	64.8	64.8	64.8
≥ 1000	1.3	61.9	71.3	74.5	78.4	78.7	80.7	80.7	80.7	81.3	81.3	81.3	81.6	81.9	81.9	81.9
≥ 900	1.3	62.9	72.9	76.8	81.0	81.6	83.6	83.9	83.9	84.5	84.5	84.5	84.8	85.2	85.2	85.2
≥ 800	1.3	63.2	73.9	77.7	82.3	83.9	85.8	86.8	86.8	87.4	87.4	87.4	87.7	88.1	88.1	88.1
≥ 700	1.3	63.9	74.8	79.0	84.8	86.8	88.7	89.7	89.7	90.3	90.3	90.3	90.7	91.0	91.0	91.0
≥ 600	1.3	64.2	75.2	79.4	86.1	88.1	90.0	91.0	91.0	91.9	91.9	91.9	92.3	92.6	92.6	92.6
≥ 500	1.3	64.5	76.1	80.7	87.7	90.7	92.9	93.9	93.9	94.8	94.8	94.8	95.2	95.5	95.5	95.5
≥ 400	1.3	64.5	76.1	81.0	88.1	91.3	93.6	94.8	94.8	95.8	95.8	95.8	96.1	96.5	96.5	96.5
≥ 300	1.3	64.8	76.5	81.6	88.7	91.9	94.2	95.5	95.5	96.8	96.8	96.8	97.1	97.4	97.4	97.4
≥ 200	1.3	64.8	76.5	81.6	89.0	92.3	94.5	96.1	96.1	97.4	97.4	97.4	97.7	98.1	98.1	98.1
≥ 100	1.3	64.8	76.5	81.6	89.0	92.3	94.5	96.1	96.1	97.4	97.4	97.4	97.7	98.1	98.1	99.0
0	1.3	64.8	76.5	81.6	89.0	92.3	94.5	96.1	96.1	97.4	97.4	97.4	98.1	98.4	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 (HOURS (L S T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.6	17.8	23.0	26.2	27.8	29.5	29.8	29.8	29.8	30.1	30.1	30.1	30.4	30.4	30.7	30.7
≥ 20000	1.6	18.1	23.6	26.9	28.5	30.1	30.4	30.4	30.4	30.7	30.7	30.7	31.1	31.1	31.4	31.4
≥ 18000	1.6	18.1	23.6	26.9	28.5	30.1	30.4	30.4	30.4	30.7	30.7	30.7	31.1	31.1	31.4	31.4
≥ 16000	1.6	18.1	23.6	26.9	28.5	30.1	30.4	30.4	30.4	30.7	30.7	30.7	31.1	31.1	31.4	31.4
≥ 14000	1.6	18.5	24.0	27.2	28.8	30.4	30.7	30.7	30.7	31.1	31.1	31.1	31.4	31.4	31.7	31.7
≥ 12000	1.6	18.8	24.3	27.5	29.1	30.7	31.1	31.1	31.1	31.4	31.4	31.4	31.7	31.7	32.0	32.0
≥ 10000	1.6	20.1	25.6	28.8	30.4	32.0	32.4	32.4	32.4	32.7	32.7	32.7	33.0	33.0	33.3	33.3
≥ 9000	1.6	20.1	25.6	28.8	30.4	32.0	32.4	32.4	32.4	32.7	32.7	32.7	33.0	33.0	33.3	33.3
≥ 8000	1.6	20.1	25.6	28.8	30.4	32.0	32.4	32.4	32.4	33.0	33.0	33.0	33.3	33.3	33.7	33.7
≥ 7000	1.6	20.1	25.6	28.8	30.4	32.0	32.4	32.4	32.4	33.0	33.0	33.0	33.3	33.3	33.7	33.7
≥ 6000	1.6	20.1	25.6	28.8	30.4	32.0	32.4	32.4	32.4	33.0	33.0	33.0	33.3	33.3	33.7	33.7
≥ 5000	1.6	20.4	25.9	29.1	30.7	32.4	32.7	32.7	32.7	33.3	33.3	33.3	33.7	33.7	34.0	34.0
≥ 4500	1.6	20.4	25.9	29.1	30.7	32.4	32.7	32.7	32.7	33.3	33.3	33.3	33.7	33.7	34.0	34.0
≥ 4000	1.6	20.9	25.9	29.5	31.1	32.7	33.0	33.0	33.0	33.7	33.7	33.7	34.0	34.0	34.3	34.3
≥ 3500	1.6	21.4	26.9	30.4	32.0	33.7	34.0	34.0	34.0	34.6	34.6	34.6	35.0	35.0	35.3	35.3
≥ 3000	1.6	22.3	27.8	31.4	33.0	34.6	35.0	35.0	35.0	35.6	35.6	35.6	35.9	35.9	36.3	36.3
≥ 2500	1.6	23.0	28.8	32.7	34.3	35.9	36.3	36.3	36.3	36.9	36.9	36.9	37.2	37.2	37.5	37.5
≥ 2000	1.6	26.2	34.3	38.2	40.5	42.1	42.4	42.4	42.4	43.0	43.0	43.0	43.4	43.4	43.7	43.7
≥ 1800	1.9	29.1	35.6	39.5	41.8	43.4	43.7	43.7	43.7	44.3	44.3	44.3	44.7	44.7	45.0	45.0
≥ 1500	1.9	33.3	42.1	47.3	51.1	52.8	53.1	53.1	53.1	53.7	53.7	53.7	54.1	54.1	54.4	54.4
≥ 1200	1.9	36.6	46.9	53.1	58.9	61.5	61.8	62.1	62.1	62.8	62.8	62.8	63.1	63.1	63.4	63.4
≥ 1000	1.9	38.2	50.8	58.3	67.0	70.9	73.8	74.8	75.1	75.7	75.7	75.7	76.1	76.1	76.4	76.4
≥ 900	1.9	38.5	51.5	59.6	69.6	73.5	78.3	79.6	79.9	80.5	80.6	80.6	80.9	80.9	81.2	81.2
≥ 800	1.9	38.8	52.1	60.8	71.2	75.4	80.9	82.5	82.9	83.8	83.8	83.8	84.1	84.1	84.5	84.5
≥ 700	1.9	38.8	52.1	61.2	72.2	77.0	82.8	84.5	84.8	85.8	85.8	85.8	86.1	86.1	86.4	86.4
≥ 600	1.9	38.8	52.1	61.5	72.8	77.7	83.8	86.7	87.1	89.0	89.0	89.0	89.3	89.3	89.6	89.6
≥ 500	1.9	38.8	52.1	61.5	73.1	78.6	85.1	89.6	90.0	92.9	93.5	93.5	94.5	94.5	94.8	94.8
≥ 400	1.9	38.8	52.1	61.5	73.8	79.3	86.1	91.3	91.9	95.2	96.1	96.1	97.1	97.1	97.4	97.4
≥ 300	1.9	38.8	52.1	61.5	73.8	79.6	86.4	91.9	92.6	95.8	96.8	96.8	97.7	97.7	98.1	98.4
≥ 200	1.9	38.8	52.1	61.5	73.8	79.6	86.4	91.9	92.6	95.8	96.8	96.8	98.1	98.1	98.4	99.0
≥ 100	1.9	38.8	52.1	61.5	73.8	79.6	86.4	91.9	92.6	95.8	96.8	96.8	98.1	98.1	98.4	99.7
≥ 0	1.9	38.8	52.1	61.5	73.8	79.6	86.4	91.9	92.6	95.8	96.8	96.8	98.1	98.1	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

1114	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	YEARS	MONTH
			10
			HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.9	37.1	47.1	54.5	63.9	67.4	70.3	71.6	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 20000	1.9	37.7	47.7	55.5	64.8	68.7	71.6	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 18000	1.9	37.7	47.7	55.5	64.8	68.7	71.6	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 16000	1.9	37.7	47.7	55.5	64.8	68.7	71.6	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 14000	1.9	38.1	48.1	56.1	65.5	69.4	72.3	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 12000	1.9	39.0	49.0	57.1	66.8	70.7	73.6	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000	1.9	39.4	49.4	57.7	67.4	71.3	74.5	75.8	75.8	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	1.9	39.4	49.4	57.7	67.4	71.3	74.5	75.8	75.8	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 8000	1.9	40.0	50.0	58.4	68.1	71.9	75.2	76.5	76.5	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 7000	1.9	40.3	50.3	58.7	68.4	72.3	75.5	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000	1.9	40.3	50.3	58.7	68.4	72.3	75.5	77.1	77.1	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 5000	1.9	40.3	50.3	58.7	68.4	72.3	75.5	77.1	77.1	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4500	1.9	40.3	50.3	58.7	68.4	72.3	75.5	77.1	77.1	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4000	1.9	40.3	50.3	59.0	68.7	72.6	75.8	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3500	1.9	40.3	50.3	59.0	68.7	72.6	75.8	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000	2.3	42.9	52.9	61.6	71.3	75.2	78.4	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500	2.6	44.5	54.5	63.2	72.9	76.8	80.0	81.6	81.6	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2000	2.9	47.4	58.7	68.1	77.7	81.6	84.8	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800	2.9	47.7	59.0	68.4	78.1	81.9	85.2	86.8	86.8	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 1500	2.3	49.7	62.9	72.9	83.9	87.7	91.0	92.6	92.6	93.2	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200	2.3	51.0	64.5	74.8	86.1	90.3	93.6	95.2	95.2	95.8	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	2.3	51.3	64.8	75.8	87.4	91.6	95.2	96.8	96.8	97.4	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900	2.9	51.6	65.5	76.5	88.1	92.3	95.8	97.4	97.4	98.1	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	2.9	51.6	65.5	76.5	88.1	92.3	96.1	97.7	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	2.9	51.6	65.5	76.5	88.1	92.3	96.1	97.7	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	2.9	51.6	65.5	76.5	88.4	92.6	96.5	98.1	98.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	2.9	51.6	65.5	76.8	88.7	92.9	96.8	98.4	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	2.9	51.6	65.5	76.8	88.7	93.2	97.1	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	2.9	51.6	65.5	76.8	88.7	93.2	97.1	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	2.9	51.6	65.5	76.8	88.7	93.2	97.1	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	2.9	51.6	65.5	76.8	88.7	93.2	97.1	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
0	2.9	51.6	65.5	76.8	88.7	93.2	97.1	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH	HOURS (L S T)
[illegible]	SANTA ANA, CALIFORNIA	73-92	AUG	13

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	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.5	68.1	75.2	82.6	88.4	89.7	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 20000	4.5	69.7	77.1	84.5	90.3	91.6	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 18000	4.5	69.7	77.1	84.5	90.3	91.6	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 16000	4.5	69.7	77.1	84.5	90.3	91.6	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 14000	4.5	70.7	78.1	85.5	91.3	92.6	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 12000	4.5	71.0	78.4	85.8	91.6	92.9	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 10000	4.5	71.6	79.4	87.1	92.9	94.2	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 9000	4.5	71.6	79.4	87.1	92.9	94.2	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 8000	4.5	71.6	79.4	87.1	92.9	94.2	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 7000	4.5	72.3	80.0	87.7	93.6	94.8	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 6000	4.5	72.3	80.0	87.7	93.6	94.8	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 5000	4.5	72.3	80.0	87.7	93.6	94.8	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4500	4.5	72.3	80.0	87.7	93.6	94.8	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4000	4.5	72.3	80.0	87.7	93.6	94.8	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3500	4.5	72.3	80.0	87.7	93.6	94.8	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000	4.5	73.2	81.0	88.7	94.5	95.8	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500	4.5	73.2	81.0	88.7	94.5	95.8	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2000	4.5	73.6	81.3	89.0	94.8	96.1	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1800	4.5	73.6	81.3	89.0	94.8	96.1	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500	4.8	75.2	82.9	90.7	96.5	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	4.8	75.2	82.9	91.0	96.8	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	4.8	75.5	83.2	91.3	97.1	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	4.8	75.5	83.2	91.3	97.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	4.8	75.5	83.2	91.3	97.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	4.8	75.5	83.2	91.3	97.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	4.8	75.5	83.2	91.3	97.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7110	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.1	82.3	87.1	90.3	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 20000	6.1	85.8	90.7	93.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 18000	6.1	85.8	90.7	93.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 16000	6.1	85.8	90.7	93.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 14000	6.1	86.5	91.3	94.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 12000	6.1	86.8	91.6	94.8	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 10000	6.1	86.8	91.9	95.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 9000	6.1	86.8	91.9	95.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000	6.1	86.8	91.9	95.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 7000	6.1	86.8	91.9	95.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 6000	6.1	86.8	91.9	95.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 5000	6.1	86.8	91.9	95.2	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500	6.1	86.9	91.9	95.2	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4000	6.1	86.8	91.9	95.2	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 3500	6.1	86.8	91.9	95.2	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 3000	6.5	88.4	93.6	96.8	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500	6.5	88.4	93.6	96.8	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000	6.5	88.7	93.9	97.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1800	6.5	88.7	93.9	97.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1500	6.5	89.0	94.2	97.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	6.5	89.4	94.5	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	6.5	89.4	94.5	97.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	6.5	89.4	94.5	97.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	6.5	89.4	94.5	97.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	6.5	89.4	94.5	97.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) AUG (MONTH)

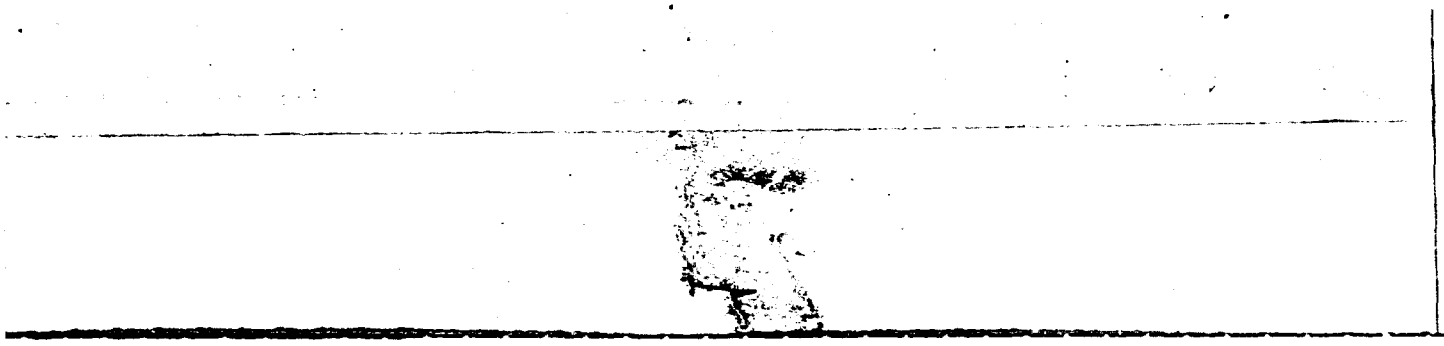
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.5	78.7	82.6	85.8	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 20000	5.5	81.9	86.1	89.4	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 18000	5.5	81.9	86.1	89.4	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 16000	5.5	81.9	86.1	89.4	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 14000	5.5	82.3	86.5	89.7	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 12000	5.5	83.2	87.7	91.0	91.3	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 10000	5.5	83.9	88.4	91.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 9000	5.5	83.9	88.4	91.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 8000	5.5	83.9	88.4	91.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 7000	5.5	83.9	88.4	91.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 6000	5.5	84.2	88.7	92.3	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 5000	5.5	84.2	88.7	92.3	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4500	5.5	84.2	88.7	92.3	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	5.5	84.5	89.0	92.6	92.9	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3500	5.5	84.5	89.0	92.6	92.9	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3000	5.5	86.1	90.7	94.2	94.5	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2500	5.5	86.3	91.3	94.8	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2000	5.5	87.7	92.6	96.5	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1800	5.5	87.7	92.6	96.5	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500	5.5	89.4	94.5	98.4	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	5.5	89.4	94.5	98.4	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000	5.5	89.4	94.5	98.4	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	5.5	89.4	94.5	98.4	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	5.5	89.7	94.8	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	5.5	89.7	94.8	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	5.5	89.7	94.8	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	5.5	89.7	94.8	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	5.5	89.7	94.8	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	5.5	90.0	95.2	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	5.5	90.0	95.2	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	5.5	90.0	95.2	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	5.5	90.0	95.2	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) AUG (MONTH)

22 (HOURS L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.3	67.7	71.6	74.2	74.8	74.8	74.8	74.8	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 20000	2.3	71.0	74.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 18000	2.3	71.	74.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 16000	2.3	71.0	74.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 14000	2.3	71.3	75.2	77.7	78.4	78.4	78.4	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000	2.3	71.3	75.2	77.7	78.4	78.4	78.4	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 10000	2.3	71.6	75.5	78.1	78.7	78.7	78.7	78.7	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 9000	2.3	71.6	75.5	78.1	78.7	78.7	78.7	78.7	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 8000	2.3	71.9	75.8	78.4	79.0	79.0	79.0	79.0	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 7000	2.3	71.9	75.8	78.4	79.0	79.0	79.0	79.0	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 6000	2.3	72.3	76.1	78.7	79.4	79.4	79.4	79.4	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 5000	2.3	72.3	76.1	78.7	79.4	79.4	79.4	79.4	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 4500	2.3	72.3	76.1	78.7	79.4	79.4	79.4	79.4	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 4000	2.3	72.3	76.1	78.7	79.4	79.7	79.7	79.7	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500	2.3	72.3	76.1	78.7	79.4	79.7	79.7	79.7	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	2.3	72.9	76.8	79.4	80.0	80.3	80.3	80.3	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500	2.3	73.9	77.7	80.3	81.0	81.3	81.3	81.3	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2000	2.3	75.0	80.9	82.6	83.2	83.6	83.6	83.6	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	2.3	76.5	80.7	83.2	83.9	84.2	84.2	84.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500	2.3	83.2	87.7	90.7	91.3	91.6	91.6	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1200	2.3	85.2	89.7	92.6	93.6	93.9	93.9	93.9	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000	2.3	88.1	92.6	95.8	97.7	98.1	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	2.3	88.1	92.6	95.8	97.7	98.4	98.4	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	2.3	88.4	93.2	96.5	98.7	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	2.3	88.4	93.6	96.8	99.0	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIFNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA 73-82 AUG

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.9	53.6	58.9	62.8	65.7	66.7	67.4	67.6	67.6	67.7	67.7	67.7	67.9	67.8	67.8	67.8
≥ 20000	3.0	55.3	60.8	64.7	67.7	68.7	69.3	69.5	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 18000	3.0	55.3	60.8	64.7	67.7	68.7	69.3	69.5	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 16000	3.0	55.3	60.8	64.7	67.7	68.7	69.3	69.5	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 14000	3.0	55.9	61.3	65.3	68.2	69.3	69.9	70.1	70.1	70.3	70.3	70.3	70.4	70.4	70.4	70.4
≥ 12000	3.0	56.2	61.8	65.8	68.7	69.8	70.4	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.9	70.9
≥ 10000	3.0	56.4	62.4	66.6	69.5	70.6	71.2	71.4	71.4	71.6	71.6	71.6	71.7	71.7	71.7	71.7
≥ 9000	3.0	56.4	62.4	66.6	69.5	70.6	71.2	71.4	71.4	71.6	71.6	71.6	71.7	71.7	71.7	71.7
≥ 8000	3.0	57.0	62.6	66.7	69.7	70.7	71.4	71.6	71.6	71.8	71.8	71.8	71.9	71.9	71.9	71.9
≥ 7000	3.0	57.1	62.7	66.8	69.8	70.8	71.5	71.7	71.7	72.0	72.0	72.0	72.0	72.0	72.1	72.1
≥ 6000	3.0	57.2	62.8	66.9	69.9	70.9	71.6	71.8	71.8	72.1	72.1	72.1	72.1	72.1	72.2	72.2
≥ 5000	3.0	57.2	62.9	67.0	70.0	71.0	71.7	72.0	72.0	72.2	72.2	72.2	72.3	72.3	72.3	72.3
≥ 4500	3.0	57.2	62.9	67.0	70.0	71.0	71.7	72.0	72.0	72.2	72.2	72.2	72.3	72.3	72.3	72.3
≥ 4000	3.0	57.3	62.9	67.1	70.1	71.2	71.9	72.1	72.1	72.4	72.4	72.4	72.4	72.4	72.5	72.5
≥ 3500	3.0	57.4	63.1	67.3	70.2	71.4	72.1	72.3	72.3	72.5	72.5	72.5	72.6	72.6	72.6	72.6
≥ 3000	3.1	58.8	64.9	68.6	71.6	72.7	73.4	73.6	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 2500	3.3	59.5	65.2	69.4	72.4	73.5	74.2	74.4	74.4	74.7	74.7	74.7	74.7	74.7	74.8	74.8
≥ 2000	3.3	61.6	67.6	72.0	75.0	76.1	76.8	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.4	77.4
≥ 1800	3.4	62.0	68.0	72.4	75.4	76.5	77.2	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.8	77.8
≥ 1500	3.4	66.2	73.7	78.4	81.9	83.0	83.7	84.0	84.0	84.3	84.3	84.3	84.4	84.4	84.4	84.4
≥ 1200	3.4	68.6	75.6	80.6	84.5	85.8	86.6	86.9	86.9	87.1	87.2	87.2	87.3	87.3	87.3	87.3
≥ 1000	3.4	71.4	79.5	85.0	89.7	91.2	92.5	92.8	92.9	93.1	93.2	93.2	93.3	93.3	93.3	93.3
≥ 900	3.4	71.8	80.0	85.6	90.6	92.2	93.8	94.2	94.2	94.5	94.6	94.6	94.6	94.7	94.7	94.7
≥ 800	3.4	72.0	80.4	86.2	91.4	93.1	94.8	95.4	95.4	95.7	95.8	95.8	95.9	95.9	95.9	95.9
≥ 700	3.4	72.1	80.6	86.5	92.0	93.8	95.5	96.1	96.1	96.5	96.5	96.5	96.6	96.6	96.7	96.7
≥ 600	3.4	72.2	80.6	86.7	92.4	94.2	96.0	96.7	96.7	97.2	97.3	97.3	97.3	97.4	97.4	97.4
≥ 500	3.4	72.2	80.8	86.9	92.7	94.8	96.6	97.5	97.5	98.2	98.3	98.3	98.5	98.5	98.6	98.6
≥ 400	3.4	72.2	80.8	87.0	92.9	95.0	96.9	97.9	98.0	98.6	98.8	98.8	99.0	99.0	99.0	99.0
≥ 300	3.4	72.3	80.9	87.1	93.0	95.2	97.1	98.2	98.3	99.0	99.2	99.2	99.3	99.4	99.4	99.4
≥ 200	3.4	72.3	80.9	87.1	93.0	95.2	97.1	98.3	98.4	99.1	99.2	99.2	99.4	99.5	99.5	99.6
≥ 100	3.4	72.3	80.9	87.1	93.0	95.2	97.1	98.3	99.4	99.1	99.2	99.2	99.4	99.5	99.5	99.8
0	3.4	72.3	80.9	87.1	93.0	95.2	97.1	98.3	98.4	99.1	99.2	99.2	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2479

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
116	SANTA ANA, CALIFORNIA	73-82	SEP

HOURS (L S T.) 01

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.3	44.7	49.3	51.0	53.0	53.0	53.0	53.0	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 20000	1.3	45.3	50.3	52.0	54.0	54.0	54.0	54.0	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 18000	1.3	45.3	50.3	52.0	54.0	54.0	54.0	54.0	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 16000	1.3	45.3	50.3	52.0	54.0	54.0	54.0	54.0	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 14000	1.3	45.7	50.7	52.3	54.3	54.3	54.3	54.3	54.3	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 12000	1.3	46.3	51.3	53.0	55.0	55.0	55.0	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 10000	1.3	47.3	52.3	54.0	56.0	56.0	56.0	56.0	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 9000	1.3	47.3	52.3	54.0	56.0	56.0	56.0	56.0	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 8000	1.3	48.0	53.0	54.7	56.7	56.7	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 7000	1.3	48.0	53.0	54.7	56.7	56.7	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 6000	1.3	48.0	53.0	54.7	56.7	56.7	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 5000	1.3	48.7	53.7	55.3	57.3	57.3	57.3	57.3	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 4500	1.3	49.0	54.0	55.7	57.7	57.7	57.7	57.7	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 4000	1.7	49.3	54.3	56.0	58.0	58.0	58.0	58.0	58.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 3500	1.3	49.7	54.7	56.3	58.3	58.3	58.3	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 3000	1.3	51.3	56.3	58.0	60.0	60.0	60.0	60.0	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 2500	1.3	53.0	58.3	60.0	62.3	62.3	62.3	62.3	62.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 2000	1.3	57.0	62.7	64.3	67.7	67.7	67.7	67.7	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 1800	1.7	58.0	63.7	65.3	68.7	68.7	68.7	68.7	69.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 1500	1.7	66.3	72.0	74.3	77.7	77.7	77.7	77.7	78.0	78.3	78.7	78.7	78.7	78.7	78.7	78.7
≥ 1200	1.7	69.0	75.7	78.7	82.3	82.3	82.3	82.7	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 1000	1.7	72.3	80.3	85.3	91.7	91.7	92.3	92.7	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 900	1.7	73.0	81.0	86.3	93.0	93.0	93.7	94.0	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 800	1.7	73.0	81.0	87.0	94.0	94.0	94.7	95.0	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700	1.7	73.7	81.7	87.7	95.0	95.0	95.7	96.0	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 600	1.7	73.7	82.0	88.3	95.7	95.7	96.3	96.7	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 500	1.7	73.7	82.0	88.3	95.7	95.7	96.3	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400	1.7	73.7	82.0	88.3	96.0	96.3	97.3	97.7	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	1.7	73.7	82.0	88.3	96.3	96.7	97.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	1.7	73.7	82.0	88.3	96.3	96.7	97.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	1.7	73.7	82.0	88.3	96.3	96.7	97.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	1.7	73.7	82.0	88.3	96.3	96.7	97.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) SEP (MONTH) 04 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	33.7	36.0	39.3	41.7	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.3	42.3	42.3	42.7
≥ 20000	1.0	33.7	36.0	39.3	42.0	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.7	42.7	42.7	43.0
≥ 18000	1.0	33.7	36.0	39.3	42.0	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.7	42.7	42.7	43.0
≥ 16000	1.0	34.0	36.3	39.7	42.3	42.3	42.7	42.7	42.7	42.7	42.7	42.7	43.0	43.0	43.0	43.3
≥ 14000	1.0	34.3	36.7	40.0	43.0	43.0	43.3	43.3	43.3	43.3	43.3	43.3	43.7	43.7	43.7	44.0
≥ 12000	1.0	35.0	37.7	41.0	44.0	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.7	44.7	44.7	45.0
≥ 10000	1.0	35.3	38.7	42.0	45.0	45.0	45.3	45.3	45.3	45.3	45.3	45.3	45.7	45.7	45.7	46.0
≥ 9000	1.0	35.3	38.7	42.0	45.0	45.0	45.3	45.3	45.3	45.3	45.3	45.3	45.7	45.7	45.7	46.0
≥ 8000	1.0	35.7	39.0	42.3	45.3	45.3	45.7	45.7	45.7	45.7	45.7	45.7	46.0	46.0	46.0	46.3
≥ 7000	1.0	35.7	39.0	42.3	45.3	45.3	45.7	45.7	45.7	45.7	45.7	45.7	46.0	46.0	46.0	46.3
≥ 6000	1.0	35.7	39.0	42.3	45.3	45.3	45.7	45.7	45.7	45.7	45.7	45.7	46.0	46.0	46.0	46.3
≥ 5000	1.0	35.7	39.0	42.7	45.7	45.7	46.0	46.0	46.0	46.0	46.0	46.0	46.3	46.3	46.3	46.7
≥ 4500	1.0	36.0	39.3	43.0	46.0	46.0	46.3	46.3	46.3	46.3	46.3	46.3	46.7	46.7	46.7	47.0
≥ 4000	1.0	36.3	39.7	43.3	46.3	46.3	46.7	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.0	47.3
≥ 3500	1.0	36.3	39.7	43.3	46.3	46.3	46.7	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.0	47.3
≥ 3000	1.0	37.7	41.0	44.7	47.7	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.3	48.3	48.3	48.7
≥ 2500	1.0	39.7	43.0	46.7	50.0	50.0	50.3	50.3	50.3	50.3	50.3	50.3	50.7	50.7	50.7	51.0
≥ 2000	1.0	44.7	48.3	52.3	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	57.0	57.0	57.0	57.3
≥ 1800	1.0	45.0	49.0	53.0	57.0	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.7	57.7	57.7	58.0
≥ 1500	1.0	52.3	57.0	61.7	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	67.0	67.0	67.0	67.3
≥ 1200	1.0	56.3	61.7	67.3	72.0	72.0	73.0	73.0	73.0	73.0	73.0	73.0	73.3	73.3	73.3	73.7
≥ 1000	1.0	60.0	66.7	74.7	82.0	82.0	84.0	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7	85.0
≥ 900	1.0	60.7	68.0	76.0	84.0	84.0	86.3	86.7	86.7	86.7	86.7	86.7	87.0	87.0	87.0	87.3
≥ 800	1.0	61.0	69.0	78.0	86.7	87.0	89.3	89.7	89.7	89.7	89.7	89.7	90.0	90.0	90.0	90.3
≥ 700	1.0	61.7	69.7	79.3	88.3	88.7	91.3	91.7	91.7	92.0	92.0	92.0	92.3	92.3	92.3	92.7
≥ 600	1.0	61.7	70.0	79.7	89.3	89.7	92.7	93.0	93.0	93.3	93.3	93.3	93.7	93.7	93.7	94.0
≥ 500	1.0	62.0	70.7	80.3	90.3	90.7	93.7	94.3	94.3	94.7	94.7	94.7	95.0	95.0	95.0	95.3
≥ 400	1.0	62.0	70.7	80.3	90.7	91.0	94.0	94.7	94.7	95.0	95.0	95.0	95.3	95.3	95.3	95.7
≥ 300	1.0	62.0	70.7	80.3	90.7	91.0	94.7	95.7	95.7	96.0	96.0	96.0	96.7	96.7	96.7	97.0
≥ 200	1.0	62.0	70.7	80.3	90.7	91.0	94.7	95.7	95.7	96.3	96.3	96.3	97.7	98.0	98.0	99.3
≥ 100	1.0	62.0	70.7	80.3	90.7	91.0	94.7	95.7	95.7	96.3	96.3	96.3	97.7	98.0	98.0	99.3
≥ 0	1.0	62.0	70.7	80.3	90.7	91.0	94.7	95.7	95.7	96.3	96.3	96.3	97.7	98.0	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (TIME) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.7	26.3	27.7	29.7	32.7	33.3	34.3	35.3	36.0	36.3	36.3	36.3	36.3	36.3	36.7	37.0
≥ 20000	1.7	26.7	28.3	30.7	33.7	34.3	35.3	36.3	37.0	37.3	37.3	37.3	37.3	37.3	37.7	38.0
18000	1.7	26.7	28.3	30.7	33.7	34.3	35.3	36.3	37.0	37.3	37.3	37.3	37.3	37.3	37.7	38.0
16000	1.7	27.0	28.7	31.0	34.0	34.7	35.7	36.7	37.3	37.7	37.7	37.7	37.7	37.7	38.0	38.3
14000	1.7	27.0	28.7	31.0	34.0	34.7	35.7	36.7	37.3	37.7	37.7	37.7	37.7	37.7	38.0	38.3
12000	2.0	28.0	29.7	32.0	35.0	35.7	36.7	37.7	38.3	38.7	38.7	38.7	38.7	38.7	39.3	39.7
10000	2.0	28.3	30.3	32.7	36.0	36.7	37.7	38.7	39.3	39.7	39.7	39.7	39.7	39.7	40.3	40.7
9000	2.0	28.3	30.3	32.7	36.0	36.7	37.7	38.7	39.3	39.7	39.7	39.7	39.7	39.7	40.3	40.7
8000	2.0	29.3	31.3	33.7	37.0	37.7	38.7	39.7	40.3	40.7	40.7	40.7	40.7	40.7	41.3	41.7
7000	2.0	29.7	31.7	34.0	38.0	38.7	39.7	40.7	41.3	41.7	41.7	41.7	41.7	41.7	42.3	42.7
6000	2.0	29.7	31.7	34.0	38.0	38.7	39.7	40.7	41.3	41.7	41.7	41.7	41.7	41.7	42.3	42.7
5000	2.0	30.0	32.0	34.3	38.3	39.0	40.0	41.0	41.7	42.0	42.0	42.0	42.0	42.0	42.7	43.0
4500	2.0	30.7	32.7	35.0	39.0	39.7	40.7	41.7	42.3	42.7	42.7	42.7	42.7	42.7	43.3	43.7
4000	2.0	31.3	33.3	35.7	39.7	40.3	41.3	42.3	43.0	43.3	43.3	43.3	43.3	43.3	44.0	44.3
3500	2.0	32.0	34.0	36.3	40.3	41.0	42.0	43.0	43.7	44.0	44.0	44.0	44.0	44.0	44.7	45.0
3000	2.0	33.0	35.0	37.3	41.7	42.3	43.3	44.3	45.0	45.3	45.3	45.3	45.3	45.3	46.0	46.3
2500	2.0	34.7	36.7	39.0	43.3	44.3	45.3	46.3	47.3	47.7	47.7	47.7	47.7	47.7	48.3	48.7
2000	2.7	39.3	41.7	44.0	48.3	49.7	50.7	51.7	52.7	53.0	53.0	53.0	53.0	53.0	53.7	54.0
1800	2.7	40.7	43.0	45.3	49.7	51.0	52.0	53.0	54.0	54.3	54.3	54.3	54.3	54.3	55.0	55.3
1500	2.7	47.3	50.7	54.3	61.0	62.7	63.7	65.0	66.0	66.3	66.3	66.3	66.3	66.3	67.0	67.3
1200	2.7	49.0	53.0	58.0	65.7	67.3	69.7	71.0	72.0	72.7	72.7	72.7	72.7	72.7	73.3	73.7
1000	2.7	50.0	54.3	60.7	70.3	73.0	76.3	78.3	79.3	82.0	82.0	82.0	82.0	82.0	82.7	83.0
900	2.7	50.7	55.0	61.3	71.3	74.3	77.7	80.0	81.0	83.7	83.7	83.7	83.7	83.7	84.3	84.7
800	2.7	50.7	55.3	61.7	73.0	76.0	80.3	83.0	84.0	87.0	87.0	87.0	87.3	87.3	88.0	88.3
700	2.7	50.7	55.3	61.7	73.0	76.0	81.0	83.7	85.0	88.7	88.7	88.7	89.0	89.0	89.7	90.0
600	2.7	50.7	55.3	62.3	74.0	77.0	82.3	86.7	88.0	92.0	92.0	92.0	92.3	92.3	93.0	93.3
500	2.7	50.7	55.3	62.3	74.0	77.0	82.3	87.0	88.3	93.3	93.3	93.3	94.0	94.0	94.7	95.0
400	2.7	50.7	55.3	62.3	74.0	77.0	82.3	87.0	88.3	93.7	94.0	94.0	94.7	94.7	95.7	96.3
300	2.7	50.7	55.3	62.3	74.0	77.0	82.3	87.0	88.3	93.7	94.3	94.3	95.3	95.7	96.7	98.0
200	2.7	50.7	55.3	62.3	74.0	77.0	82.3	87.0	88.3	93.7	94.3	94.3	95.7	96.0	97.0	99.0
100	2.7	50.7	55.3	62.3	74.0	77.0	82.3	87.0	88.3	93.7	94.3	94.3	95.7	96.0	97.0	99.7
0	2.7	50.7	55.3	62.3	74.0	77.0	82.3	87.0	88.3	93.7	94.3	94.3	95.7	96.0	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.0	29.0	36.0	42.3	47.7	49.7	54.3	54.7	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 20000	3.0	30.0	37.0	43.3	48.7	50.7	55.3	55.7	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000	3.0	30.3	37.3	44.0	49.3	51.3	56.0	56.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 16000	3.0	30.3	37.3	44.0	49.3	51.3	56.0	56.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 14000	3.0	30.7	37.7	44.3	49.7	51.7	56.3	56.7	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 12000	3.0	31.0	38.0	45.0	50.3	52.3	57.0	57.3	58.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 10000	3.0	31.3	38.3	45.3	51.0	53.0	57.7	58.0	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 9000	3.0	31.3	38.3	45.3	51.0	53.0	57.7	58.0	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 8000	3.0	32.0	39.0	46.0	51.7	53.7	58.3	58.7	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 7000	3.0	32.0	39.0	46.0	52.0	54.0	58.7	59.0	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 6000	3.0	32.0	39.0	46.0	52.0	54.0	58.7	59.0	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 5000	3.0	32.3	39.3	46.3	52.3	54.3	59.0	59.3	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 4500	3.0	32.3	39.3	46.3	52.3	54.3	59.0	59.3	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 4000	3.0	34.0	41.0	48.0	54.0	56.0	60.7	61.0	61.7	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 3500	3.0	35.0	42.0	49.0	55.0	57.0	61.7	62.0	62.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 3000	3.3	38.7	46.0	53.0	59.0	61.0	66.0	66.3	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 2500	3.7	42.3	50.0	57.0	63.0	65.3	70.3	70.7	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 2000	4.0	46.7	55.0	62.3	69.7	72.3	77.7	78.0	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 1800	4.0	47.3	56.0	63.3	71.0	74.0	79.3	79.7	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1500	4.0	51.7	61.7	70.0	79.7	83.0	89.0	89.7	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1200	4.0	52.7	62.7	71.0	81.0	84.7	91.0	92.0	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1000	4.0	53.0	63.3	72.3	83.0	87.7	94.7	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900	4.0	53.0	63.3	72.3	83.0	87.7	95.0	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800	4.0	53.0	63.7	72.7	83.3	88.0	95.3	97.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	4.0	53.0	63.7	72.7	83.3	88.0	95.3	97.0	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	4.0	53.0	63.7	73.0	83.7	88.3	96.0	97.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114 STATION | SANTA ANA, CALIFORNIA STATION NAME | 73-82 YEARS | SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (L 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	3.7	56.0	64.0	69.0	75.3	77.7	78.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 20000	3.7	57.0	65.0	70.0	76.3	78.7	79.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 18000	3.7	57.3	65.3	70.3	76.7	79.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 16000	3.7	57.3	65.3	70.3	76.7	79.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 14000	3.7	57.3	65.3	70.3	76.7	79.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 12000	3.7	57.7	65.7	71.0	77.7	80.0	81.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 10000	3.7	58.3	66.3	71.7	78.3	80.7	81.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 9000	3.7	58.3	66.3	71.7	78.3	80.7	81.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 8000	3.7	58.7	67.0	72.3	79.0	81.3	82.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 7000	3.7	58.7	67.0	72.3	79.3	81.7	82.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 6000	3.7	58.7	67.0	72.3	79.3	81.7	82.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 5000	3.7	59.0	67.3	72.7	79.7	82.0	83.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4500	3.7	59.3	67.7	73.0	80.0	82.3	83.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4000	3.7	59.7	68.0	73.3	80.3	82.7	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500	3.7	61.0	69.3	74.7	81.7	84.0	85.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	3.7	63.3	71.7	77.0	84.7	87.0	88.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2500	3.7	65.0	73.7	79.0	86.7	89.0	90.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000	3.7	66.7	75.7	81.3	89.7	92.0	93.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1800	3.7	66.7	75.7	81.3	90.0	92.3	93.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1500	3.7	69.7	78.7	84.3	93.0	95.3	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	3.7	69.7	78.7	84.3	93.0	95.3	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000	3.7	70.0	79.0	84.7	93.7	96.0	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	3.7	70.0	79.0	84.7	93.7	96.0	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	3.7	70.0	79.0	84.7	93.7	96.0	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	3.7	70.0	79.0	84.7	93.7	96.0	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	3.7	70.0	79.0	84.7	93.7	96.3	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | SEP (MONTH) | 16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.3	69.3	69.3	75.3	79.0	79.0	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 20000	7.3	66.7	72.0	78.0	81.7	81.7	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 18000	7.3	67.3	72.7	78.7	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 16000	7.3	67.3	72.7	78.7	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 14000	7.3	67.3	72.7	78.7	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 12000	7.3	68.7	74.0	80.0	83.7	83.7	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 10000	7.3	69.3	74.7	80.7	84.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 9000	7.3	69.3	74.7	80.7	84.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 8000	7.3	70.3	75.7	81.7	85.7	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 7000	7.3	70.3	75.7	81.7	85.7	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 6000	7.3	70.3	76.0	82.0	86.0	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 5000	7.3	70.7	76.3	82.3	86.3	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 4500	7.3	70.7	76.3	82.7	86.7	87.0	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4000	7.3	71.0	77.0	83.3	87.3	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 3500	7.3	72.0	78.0	84.3	88.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000	7.3	73.3	80.3	86.7	90.7	91.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	7.3	75.3	81.3	87.7	91.7	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000	7.3	78.3	84.3	90.7	95.0	95.7	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1800	7.3	78.7	84.7	91.0	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500	7.3	80.0	86.0	92.3	96.7	97.3	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	7.3	80.0	86.0	92.3	96.7	97.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000	7.3	80.0	86.0	92.7	97.0	98.0	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	7.3	80.3	86.3	93.0	97.3	98.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	7.3	80.3	86.3	93.0	97.3	98.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	7.3	80.3	86.3	93.0	97.3	98.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	7.3	80.3	86.3	93.0	97.3	98.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	7.3	80.7	86.7	93.3	97.7	98.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	7.3	80.7	86.7	93.3	97.7	98.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	7.3	80.7	86.7	93.3	97.7	98.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	7.3	80.7	86.7	93.3	97.7	98.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	7.3	80.7	86.7	93.3	97.7	98.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	7.3	80.7	86.7	93.3	97.7	98.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) 73-77 (YEARS) SEP (MONTH)

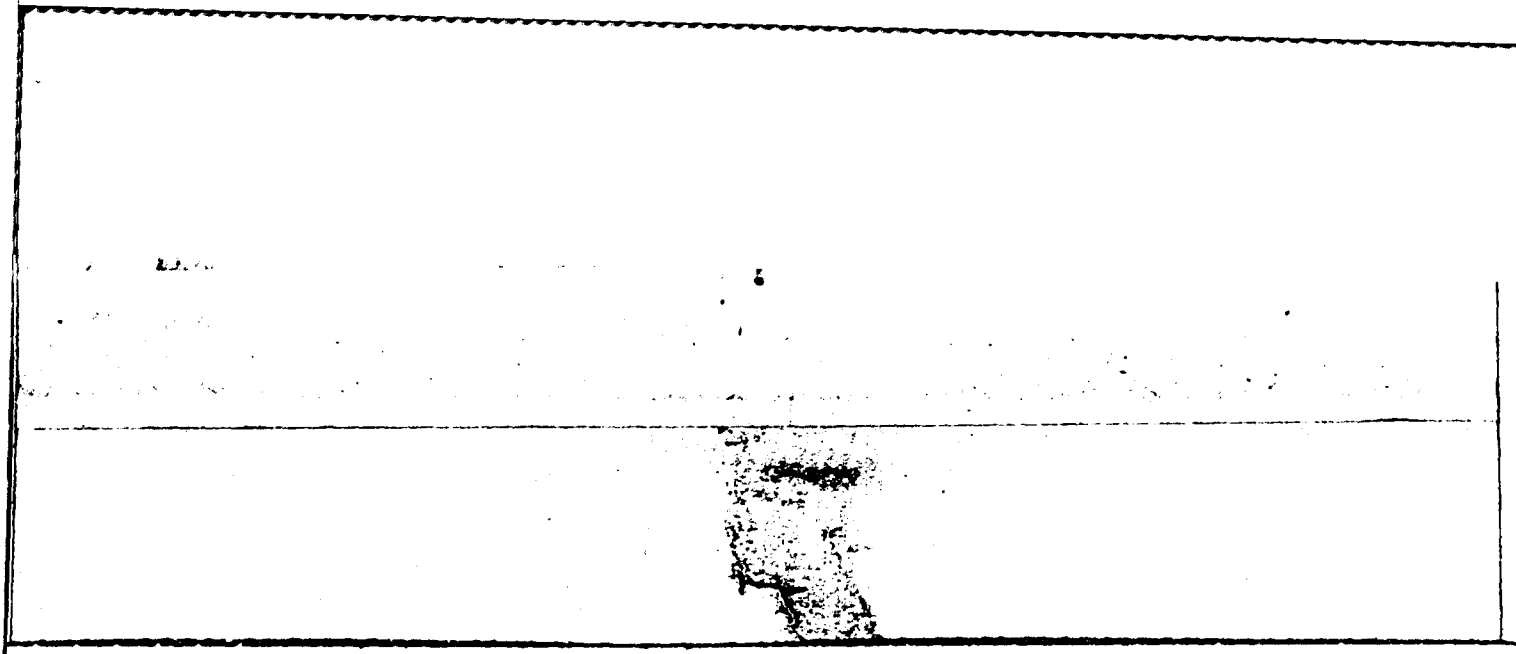
19 (HOURS (L.S.T.))

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	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.0	63.3	67.7	69.7	73.3	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 20000	3.0	63.7	69.0	71.0	74.7	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 18000	3.0	64.7	69.0	71.0	74.7	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 16000	3.0	64.7	69.0	71.0	74.7	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 14000	3.0	65.7	70.0	72.0	75.7	76.0	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 12000	3.0	66.3	70.7	72.7	76.3	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 10000	3.0	67.3	71.7	73.7	77.7	78.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 9000	3.0	67.3	71.7	73.7	77.7	78.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 8000	3.0	68.3	72.7	74.7	78.7	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 7000	3.0	68.7	73.0	75.0	79.0	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000	3.0	69.7	73.0	75.0	79.0	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000	3.0	69.7	74.0	76.0	80.0	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 4500	3.0	70.0	74.3	76.3	80.3	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000	3.0	70.7	75.0	77.0	81.0	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500	3.0	71.7	76.0	78.0	82.0	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000	3.0	74.0	78.3	80.3	84.3	85.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500	3.0	75.7	80.0	82.0	86.0	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2000	3.0	78.3	83.0	85.0	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1800	3.0	78.7	83.3	85.3	90.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500	3.0	80.7	85.7	88.0	93.0	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1200	3.3	81.7	87.0	90.0	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	3.3	82.7	88.7	92.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	3.3	82.7	88.7	92.0	97.3	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	3.3	82.7	88.7	92.0	97.3	98.0	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	3.3	82.7	88.7	92.0	97.3	98.0	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	3.3	82.7	88.7	92.0	97.3	98.0	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	3.3	82.7	88.7	92.0	97.3	98.0	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	3.3	82.7	88.7	92.0	97.7	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	3.3	82.7	88.7	92.0	97.7	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	3.3	82.7	88.7	92.0	97.7	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	3.3	82.7	88.7	92.0	97.7	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	3.3	82.7	88.7	92.0	97.7	98.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (TIME) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-02 (YEARS) | SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.7	57.3	62.3	64.0	66.0	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 20000	1.7	58.0	63.0	64.7	67.0	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
18000	1.7	58.0	63.0	64.7	67.0	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
16000	1.7	58.0	63.0	64.7	67.0	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
14000	1.7	58.3	63.3	65.0	67.3	67.7	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
12000	1.7	59.0	64.0	65.7	68.0	68.3	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
10000	1.7	60.3	65.3	67.0	69.3	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
9000	1.7	60.3	65.3	67.0	69.3	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
8000	1.7	61.3	66.3	68.0	70.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
7000	1.7	61.3	66.3	68.0	70.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
6000	1.7	62.0	67.0	68.7	71.0	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
5000	1.7	62.3	67.3	69.0	71.3	71.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
4500	1.7	63.0	68.0	69.7	72.0	72.3	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
4000	1.7	64.0	69.0	70.7	73.0	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
3500	1.7	64.3	69.3	71.0	73.3	73.7	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
3000	2.0	64.7	69.7	71.3	73.7	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2500	2.0	67.0	72.0	73.7	76.0	76.3	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2000	2.0	71.7	76.7	78.3	81.3	81.7	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
1800	2.0	72.0	77.0	78.7	81.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
1500	2.0	77.0	82.7	84.7	88.0	88.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1200	2.3	79.0	85.7	88.0	91.3	91.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1000	2.3	81.0	88.0	91.7	95.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
900	2.3	81.0	88.3	92.3	96.7	97.0	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
800	2.3	81.0	88.3	92.3	96.7	97.0	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
700	2.3	81.3	88.7	92.7	97.0	97.3	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
600	2.3	81.3	89.0	93.0	97.3	97.7	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
500	2.3	81.3	89.0	93.0	97.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	2.3	81.3	89.0	93.0	97.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	2.3	81.3	89.0	93.0	97.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	2.3	81.3	89.0	93.0	97.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	2.3	81.3	89.0	93.0	97.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	2.3	81.3	89.0	93.0	97.7	98.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.8	46.3	51.5	55.0	58.6	59.3	60.4	60.7	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.1
≥ 20000	2.8	47.8	52.6	56.1	59.8	60.5	61.5	61.8	62.0	62.1	62.1	62.1	62.2	62.2	62.2	62.3
≥ 18000	2.8	47.9	52.8	56.3	60.0	60.7	61.8	62.0	62.2	62.3	62.3	62.3	62.4	62.4	62.4	62.5
≥ 16000	2.8	48.0	52.9	56.4	60.0	60.8	61.8	62.1	62.3	62.4	62.4	62.4	62.5	62.5	62.5	62.6
≥ 14000	2.8	48.3	53.1	56.7	60.4	61.1	62.2	62.5	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.9
≥ 12000	2.9	49.0	53.9	57.5	61.2	62.0	63.0	63.3	63.5	63.6	63.6	63.6	63.7	63.7	63.7	63.8
≥ 10000	2.9	49.7	54.7	58.4	62.2	63.0	64.1	64.4	64.5	64.7	64.7	64.7	64.7	64.7	64.8	64.9
≥ 9000	2.9	49.7	54.7	58.4	62.2	63.0	64.1	64.4	64.5	64.7	64.7	64.7	64.7	64.7	64.8	64.9
≥ 8000	2.9	50.5	55.5	59.2	63.0	63.8	64.9	65.2	65.4	65.5	65.5	65.5	65.5	65.5	65.6	65.7
≥ 7000	2.9	50.5	55.6	59.3	63.2	64.1	65.2	65.5	65.6	65.8	65.8	65.8	65.8	65.8	65.9	66.0
≥ 6000	2.9	50.6	55.7	59.4	63.4	64.2	65.3	65.6	65.8	65.9	65.9	65.9	65.9	65.9	66.0	66.1
≥ 5000	2.9	51.0	56.1	59.8	63.9	64.7	65.8	66.0	66.2	66.3	66.3	66.3	66.4	66.4	66.5	66.5
≥ 4500	2.9	51.4	56.5	60.2	64.3	65.0	66.1	66.4	66.6	66.7	66.7	66.7	66.9	66.8	66.8	66.9
≥ 4000	2.9	52.0	57.2	60.9	65.0	65.8	66.8	67.1	67.3	67.4	67.4	67.4	67.5	67.5	67.5	67.6
≥ 3500	2.9	52.8	57.9	61.6	65.7	66.5	67.5	67.8	68.0	68.1	68.1	68.1	68.2	68.2	68.3	68.3
≥ 3000	3.0	54.6	59.8	63.5	67.7	68.5	69.6	69.9	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.4
≥ 2500	3.0	56.6	61.9	65.6	69.9	70.8	71.9	72.2	72.5	72.6	72.6	72.6	72.6	72.6	72.7	72.8
≥ 2000	3.1	60.3	65.9	69.8	74.7	75.7	77.0	77.3	77.5	77.6	77.6	77.6	77.7	77.7	77.8	77.8
≥ 1800	3.1	60.9	66.5	70.4	75.4	76.5	77.7	78.0	78.3	78.4	78.4	78.4	78.4	78.4	78.5	78.6
≥ 1500	3.2	65.6	71.8	76.2	81.9	83.0	84.5	84.9	85.2	85.3	85.3	85.3	85.4	85.4	85.5	85.5
≥ 1200	3.3	67.2	73.8	78.7	84.7	85.9	87.7	88.1	88.4	88.6	88.6	88.6	88.6	88.6	88.7	88.8
≥ 1000	3.3	68.6	75.8	81.8	88.8	90.3	92.6	93.3	93.5	94.0	94.0	94.0	94.0	94.0	94.1	94.2
≥ 900	3.3	68.9	76.2	82.3	89.5	91.0	93.5	94.3	94.6	95.1	95.1	95.1	95.1	95.1	95.2	95.3
≥ 800	3.3	69.0	76.4	82.7	90.3	91.8	94.4	95.2	95.6	96.2	96.2	96.2	96.3	96.3	96.3	96.4
≥ 700	3.3	69.2	76.6	83.0	90.6	92.2	94.9	95.7	96.2	96.9	96.9	96.9	97.0	97.0	97.0	97.1
≥ 600	3.3	69.2	76.8	83.3	91.0	92.6	95.5	96.5	97.0	97.7	97.7	97.7	97.8	97.8	97.9	98.0
≥ 500	3.3	69.3	76.9	83.4	91.3	92.8	95.7	96.8	97.3	98.2	98.2	98.2	98.3	98.3	98.4	98.5
≥ 400	3.3	69.3	76.9	83.4	91.4	93.0	95.9	97.0	97.5	98.5	98.5	98.5	98.7	98.7	98.8	98.9
≥ 300	3.3	69.3	76.9	83.4	91.4	93.0	96.0	97.2	97.7	98.7	98.8	98.8	99.0	99.0	99.2	99.4
≥ 200	3.3	69.3	76.9	83.4	91.4	93.0	96.0	97.2	97.7	98.8	98.8	98.8	99.2	99.3	99.4	99.8
≥ 100	3.3	69.3	76.9	83.4	91.4	93.0	96.0	97.2	97.7	98.5	98.8	98.8	99.2	99.3	99.4	99.9
0	3.3	69.3	76.9	83.4	91.4	93.0	96.0	97.2	97.7	98.8	98.8	98.8	99.2	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 2400

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (TIME) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) OCT (MONTH) 01 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 4	≥ 3	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ⅛	≥ 0
NO CEILING	2.6	44.8	46.5	51.3	54.5	55.5	56.5	56.5	56.5	56.8	56.8	56.8	56.8	56.8	57.1	57.1
≥ 20000	2.6	46.5	48.1	52.9	56.8	57.7	58.7	58.7	58.7	59.0	59.0	59.0	59.0	59.0	59.4	59.4
≥ 18000	2.6	46.5	48.1	52.9	56.8	57.7	58.7	58.7	58.7	59.0	59.0	59.0	59.0	59.0	59.4	59.4
≥ 16000	2.6	46.5	48.1	53.2	57.1	58.1	59.0	59.0	59.0	59.4	59.4	59.4	59.4	59.4	59.7	59.7
≥ 14000	2.6	47.1	48.7	53.9	57.7	58.7	59.7	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.3	60.3
≥ 12000	2.6	48.1	49.7	54.8	58.7	59.7	60.7	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.3	61.3
≥ 10000	2.6	49.4	51.0	56.1	60.0	61.0	61.9	61.9	61.9	62.3	62.3	62.3	62.3	62.3	62.6	62.6
≥ 9000	2.6	49.4	51.0	56.1	60.0	61.0	61.9	61.9	61.9	62.3	62.3	62.3	62.3	62.3	62.6	62.6
≥ 8000	2.9	50.7	52.3	57.4	61.3	62.3	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.9	63.9
≥ 7000	2.9	50.7	52.3	57.4	61.3	62.3	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.9	63.9
≥ 6000	2.9	50.7	52.3	57.4	61.3	62.3	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.9	63.9
≥ 5000	2.9	51.0	52.6	57.7	61.6	62.6	63.6	63.6	63.6	63.9	63.9	63.9	63.9	63.9	64.2	64.2
≥ 4500	2.9	51.0	52.6	57.7	61.6	62.6	63.6	63.6	63.6	63.9	63.9	63.9	63.9	63.9	64.2	64.2
≥ 4000	2.9	51.6	53.2	58.4	62.3	63.2	64.2	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.8	64.8
≥ 3500	2.9	51.9	53.9	59.0	62.9	63.9	64.8	64.8	64.8	65.2	65.2	65.2	65.2	65.2	65.5	65.5
≥ 3000	3.2	53.2	55.2	60.3	64.2	65.2	66.1	66.1	66.1	66.5	66.5	66.5	66.5	66.5	66.8	66.8
≥ 2500	3.9	56.1	58.1	63.6	67.4	68.4	69.4	69.4	69.4	69.7	69.7	69.7	69.7	69.7	70.0	70.0
≥ 2000	3.9	57.4	60.0	65.5	69.4	70.3	71.3	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.9	71.9
≥ 1800	3.9	57.4	60.0	65.5	69.4	70.3	71.3	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.9	71.9
≥ 1500	3.9	62.6	66.1	71.9	75.8	76.8	77.7	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.4	78.4
≥ 1200	3.9	62.6	66.1	71.9	76.1	77.1	78.1	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.7	78.7
≥ 1000	3.9	65.8	69.7	77.1	81.9	82.9	84.2	84.2	84.2	84.5	84.5	84.5	84.5	84.5	84.8	84.8
≥ 900	3.9	66.1	70.0	77.7	82.6	83.6	84.8	84.8	84.8	85.2	85.2	85.2	85.2	85.2	85.5	85.5
≥ 800	3.9	67.4	71.3	79.7	84.5	85.8	87.7	87.7	87.7	88.1	88.1	88.1	88.1	88.1	88.4	88.4
≥ 700	3.9	67.4	71.3	80.0	85.2	86.5	89.0	89.0	89.0	89.4	89.4	89.4	89.4	89.4	89.7	89.7
≥ 600	3.9	67.4	71.3	80.0	85.5	86.8	89.4	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.3	90.3
≥ 500	3.9	67.4	71.3	80.3	86.1	87.7	91.6	91.9	91.9	92.6	92.6	92.6	92.6	92.6	92.9	92.9
≥ 400	3.9	67.4	71.3	80.3	86.1	87.7	91.6	91.9	92.3	92.9	92.9	92.9	92.9	92.9	93.2	93.2
≥ 300	3.9	67.4	71.3	80.3	86.1	87.7	91.9	92.9	93.2	94.2	94.5	94.5	94.5	94.5	94.8	94.8
≥ 200	3.9	67.4	71.3	80.3	86.1	87.7	91.9	93.2	93.6	94.8	95.5	95.5	95.8	95.8	96.5	96.5
≥ 100	3.9	67.4	71.3	80.3	86.1	87.7	91.9	93.2	93.6	95.2	95.8	95.8	96.1	96.1	97.1	98.1
0	3.9	67.4	71.3	80.3	86.1	87.7	91.9	93.2	93.6	95.2	95.8	95.8	96.1	96.1	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

118	SANTA ANA, CALIFORNIA	73-*3	OCT
STATION	STATION NAME	YEARS	MONTH

DA

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.9	41.6	43.9	45.6	46.5	46.5	46.8	46.8	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.4
≥ 20000	2.9	42.5	44.8	46.8	47.4	47.4	48.1	48.1	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.7
≥ 18000	2.9	42.6	44.8	46.8	47.4	47.4	48.1	48.1	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.7
≥ 16000	2.9	42.6	44.8	46.8	47.4	47.4	48.1	48.1	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.7
≥ 14000	2.9	42.9	45.2	47.1	47.7	47.7	48.4	48.4	48.4	48.7	48.7	48.7	48.7	48.7	48.7	49.0
≥ 12000	2.9	43.2	45.5	47.4	48.1	48.1	48.7	48.7	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.4
≥ 10000	2.9	44.8	47.1	49.0	49.7	49.7	50.3	50.3	50.3	50.7	50.7	50.7	50.7	50.7	50.7	51.0
≥ 9000	2.9	44.8	47.1	49.0	49.7	49.7	50.3	50.3	50.3	50.7	50.7	50.7	50.7	50.7	50.7	51.0
≥ 8000	2.9	45.6	48.1	50.0	50.7	50.7	51.3	51.3	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.9
≥ 7000	2.9	45.9	48.1	50.0	50.7	50.7	51.3	51.3	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.9
≥ 6000	2.9	45.9	48.1	50.0	50.7	50.7	51.3	51.3	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.9
≥ 5000	2.9	46.1	48.4	50.3	51.0	51.0	51.6	51.6	51.6	51.9	51.9	51.9	51.9	51.9	51.9	52.3
≥ 4500	2.9	46.1	48.4	50.3	51.0	51.0	51.6	51.6	51.6	51.9	51.9	51.9	51.9	51.9	51.9	52.3
≥ 4000	2.9	47.1	49.7	51.6	52.3	52.3	52.9	52.9	52.9	53.2	53.2	53.2	53.2	53.2	53.2	53.6
≥ 3500	2.9	47.4	50.0	51.9	52.6	52.6	53.2	53.2	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.9
≥ 3000	3.2	48.7	51.3	53.2	53.9	53.9	54.5	54.5	54.5	54.8	54.8	54.8	54.8	54.8	54.8	55.2
≥ 2500	3.2	51.6	54.5	56.5	57.4	57.4	58.1	58.1	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.7
≥ 2000	3.2	55.5	59.0	61.3	62.6	62.6	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.9
≥ 1800	3.2	55.9	59.0	61.3	62.6	62.6	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.9
≥ 1500	3.2	60.7	64.5	67.4	68.7	69.0	70.3	70.3	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.3
≥ 1200	3.2	61.3	65.5	68.4	70.0	70.3	71.6	71.6	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.6
≥ 1000	3.2	63.9	68.4	73.2	75.8	76.1	78.4	78.4	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.4
≥ 900	3.2	64.2	68.7	73.9	76.5	76.8	79.0	79.0	79.4	79.7	79.7	79.7	79.7	79.7	79.7	80.0
≥ 800	3.2	64.5	70.0	75.5	78.1	78.4	81.0	81.0	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.9
≥ 700	3.2	64.8	70.3	76.1	79.4	79.7	82.6	82.6	82.9	83.6	83.6	83.6	83.6	83.6	83.6	83.9
≥ 600	3.2	64.8	70.3	76.5	80.0	80.3	83.2	83.2	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.5
≥ 500	3.2	64.8	70.3	76.5	80.7	81.0	84.5	84.5	85.2	86.1	86.1	86.1	86.1	86.1	86.1	86.8
≥ 400	3.2	64.8	70.3	76.5	81.3	81.3	84.8	85.2	85.9	86.8	86.8	86.8	86.8	86.8	86.8	87.4
≥ 300	3.2	64.8	70.3	76.5	81.0	81.3	84.8	85.5	86.1	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 200	3.2	64.8	70.3	76.5	81.0	81.3	84.8	85.8	86.5	88.7	89.7	89.7	90.3	90.3	91.3	92.6
≥ 100	3.2	64.8	70.3	76.5	81.0	81.3	84.8	85.8	86.5	89.4	90.3	90.3	91.3	91.3	92.6	94.8
0	3.2	64.8	70.3	76.5	81.0	81.3	84.8	85.8	86.5	89.7	90.7	90.7	91.9	91.9	93.6	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
11W	SANTA ANA, CALIFORNIA	73-82	OCT

HOURS (LST) 07

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.8	31.2	34.2	36.8	38.4	38.7	41.0	42.3	42.3	42.6	42.6	42.6	42.9	42.9	42.9	42.9
≥ 20000	6.5	38.2	37.8	40.0	41.9	42.3	44.5	45.8	45.8	46.1	46.1	46.1	46.5	46.5	46.5	46.8
≥ 18000	6.5	38.2	37.8	40.0	41.9	42.3	44.5	45.8	45.8	46.1	46.1	46.1	46.5	46.5	46.5	46.8
≥ 16000	6.5	38.2	37.8	40.0	41.9	42.3	44.5	45.8	45.8	46.1	46.1	46.1	46.5	46.5	46.5	46.8
≥ 14000	6.5	38.5	37.7	40.3	42.3	42.6	44.8	46.1	46.1	46.5	46.5	46.5	46.8	46.8	46.8	47.1
≥ 12000	6.5	38.5	38.4	41.3	43.6	43.9	46.1	47.7	47.7	48.1	48.1	48.1	48.4	48.4	48.4	48.7
≥ 10000	6.5	38.5	39.7	42.6	44.8	45.2	47.4	49.0	49.0	49.4	49.4	49.4	49.7	49.7	49.7	50.0
≥ 9000	6.5	38.5	39.7	42.6	44.8	45.2	47.4	49.0	49.0	49.4	49.4	49.4	49.7	49.7	49.7	50.0
≥ 8000	6.5	38.8	40.0	42.9	45.2	45.5	47.7	49.4	49.4	49.7	49.7	49.7	50.0	50.0	50.0	50.3
≥ 7000	6.5	37.1	40.3	43.2	45.5	45.8	48.1	49.7	49.7	50.0	50.0	50.0	50.3	50.3	50.3	50.7
≥ 6000	6.5	37.7	41.0	43.9	46.1	46.5	48.7	50.7	50.7	51.0	51.0	51.0	51.3	51.3	51.3	51.6
≥ 5000	6.5	37.7	41.0	43.9	46.1	46.5	48.7	50.7	50.7	51.0	51.0	51.0	51.3	51.3	51.3	51.6
≥ 4500	6.5	37.7	41.0	43.9	46.1	46.5	48.7	50.7	50.7	51.0	51.0	51.0	51.3	51.3	51.3	51.6
≥ 4000	6.5	37.7	41.3	44.2	46.5	46.8	49.0	51.0	51.0	51.3	51.3	51.3	51.6	51.6	51.6	51.9
≥ 3500	6.5	38.7	42.3	45.2	47.4	47.7	50.0	51.9	51.9	52.3	52.3	52.3	52.6	52.6	52.6	52.9
≥ 3000	7.4	41.0	44.5	47.4	49.7	50.3	52.6	54.5	54.5	54.8	54.8	54.8	55.2	55.2	55.2	55.5
≥ 2500	7.7	42.9	46.8	49.7	51.9	52.6	54.8	56.8	56.8	57.1	57.1	57.1	57.4	57.4	57.7	58.1
≥ 2000	7.7	46.8	51.3	54.8	57.1	57.7	60.3	62.3	62.3	62.6	62.6	62.6	62.9	62.9	63.2	63.6
≥ 1800	7.7	46.8	51.3	54.8	57.1	57.7	60.3	62.3	62.3	62.6	62.6	62.6	62.9	62.9	63.2	63.6
≥ 1500	7.7	50.7	55.8	60.3	63.9	64.8	67.7	70.0	70.0	70.3	70.3	70.3	70.7	70.7	71.0	71.3
≥ 1200	7.7	51.0	56.5	61.0	64.8	65.8	69.4	71.9	71.9	72.3	72.3	72.3	72.6	72.6	72.9	73.2
≥ 1000	7.7	51.9	58.1	63.2	68.1	69.0	73.2	76.2	76.5	77.4	77.4	77.4	77.7	77.7	78.1	78.4
≥ 900	7.7	51.9	58.1	63.2	68.4	69.4	73.6	76.8	77.1	78.1	78.1	78.1	78.4	78.4	78.7	79.0
≥ 800	7.7	51.9	58.1	63.2	68.4	69.7	74.2	77.4	77.7	78.4	78.4	78.4	78.7	78.7	80.0	80.3
≥ 700	7.7	51.9	58.4	63.6	68.7	70.0	74.5	78.7	79.0	80.7	80.7	80.7	81.0	81.0	81.3	81.6
≥ 600	7.7	51.9	58.4	63.9	69.0	70.7	75.2	79.7	80.0	82.3	82.6	82.6	82.9	82.9	83.2	83.6
≥ 500	7.7	51.9	58.4	63.9	69.4	71.0	75.8	80.7	81.0	84.5	84.8	84.8	85.8	85.8	86.1	86.5
≥ 400	7.7	52.3	58.7	64.2	69.7	71.3	76.1	81.3	81.6	85.2	86.1	86.1	87.1	87.1	87.4	87.7
≥ 300	7.7	52.3	58.7	64.2	69.7	71.3	76.1	81.3	81.6	86.2	88.1	88.1	89.7	89.7	90.0	91.0
≥ 200	7.7	52.3	58.7	64.5	70.0	71.6	76.5	81.6	81.9	87.4	88.7	88.7	91.3	91.3	92.6	94.8
≥ 100	7.7	52.3	59.7	64.3	70.0	71.6	76.5	81.6	81.9	87.4	89.7	88.7	91.9	92.3	94.8	97.7
0	7.7	52.3	58.7	64.5	70.0	71.6	76.5	81.6	81.9	87.4	89.0	89.0	92.3	92.6	95.5	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

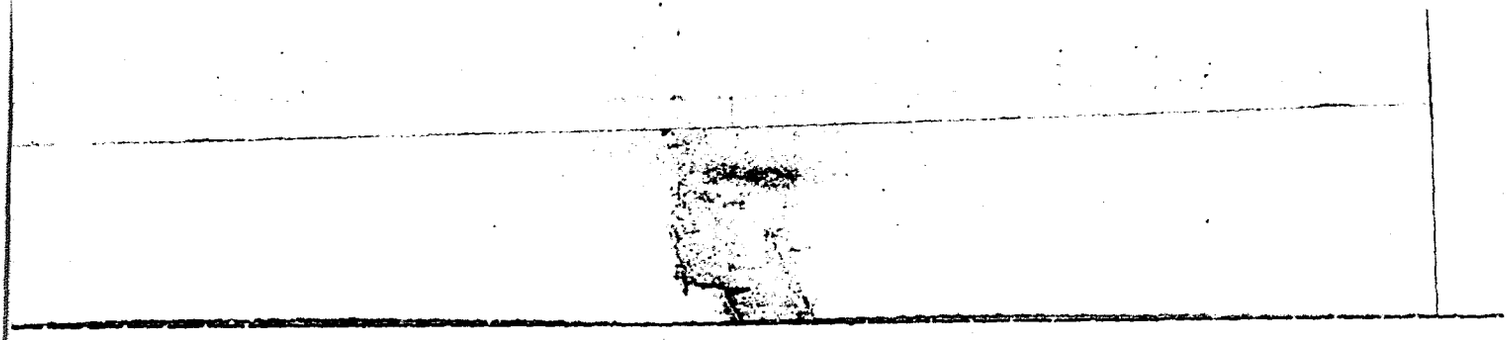
114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) OCT (MONTH) 10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.4	38.2	38.4	43.2	45.8	47.3	53.6	55.7	60.0	61.3	61.3	61.3	61.3	61.6	61.6	61.6
≥ 20000	9.4	38.4	40.7	45.8	49.4	50.7	57.1	62.3	63.6	64.8	64.8	64.8	64.8	65.2	65.2	65.2
≥ 18000	9.4	38.4	40.3	45.8	49.4	50.7	57.1	62.3	63.6	64.8	64.8	64.8	64.8	65.2	65.2	65.2
≥ 16000	9.4	38.4	40.3	45.8	49.4	50.7	57.1	62.3	63.6	64.8	64.8	64.8	64.8	65.2	65.2	65.2
≥ 14000	9.4	38.7	40.7	46.1	49.7	51.0	57.4	62.6	63.9	65.2	65.2	65.2	65.2	65.5	65.5	65.5
≥ 12000	9.4	38.4	41.3	46.8	50.3	51.6	58.4	63.5	64.8	66.1	66.1	66.1	66.1	66.5	66.5	66.5
≥ 10000	9.4	40.0	41.9	47.7	51.6	52.9	59.7	64.8	66.5	67.7	67.7	67.7	67.7	68.1	68.1	68.1
≥ 9000	9.4	40.0	41.9	47.7	51.6	52.9	59.7	64.8	66.5	67.7	67.7	67.7	67.7	68.1	68.1	68.1
≥ 8000	9.7	40.3	42.3	48.1	51.9	53.2	60.0	65.2	66.9	68.1	68.1	68.1	68.1	68.4	68.4	68.4
≥ 7000	9.7	40.3	42.3	48.1	51.9	53.2	60.0	65.5	67.1	68.4	68.4	68.4	68.4	68.7	68.7	68.7
≥ 6000	9.7	40.3	42.3	48.1	51.9	53.2	60.0	65.5	67.1	68.4	68.4	68.4	68.4	68.7	68.7	68.7
≥ 5000	9.7	40.7	42.6	48.4	52.3	53.6	60.3	65.8	67.4	68.7	68.7	68.7	68.7	69.0	69.0	69.0
≥ 4500	9.7	40.7	42.6	48.4	52.3	53.6	60.3	65.8	67.4	68.7	68.7	68.7	68.7	69.0	69.0	69.0
≥ 4000	9.7	41.3	43.2	49.0	52.9	54.2	61.0	66.5	68.1	69.4	69.4	69.4	69.4	69.7	69.7	69.7
≥ 3500	9.7	42.6	44.5	50.3	54.2	55.5	62.3	67.7	69.4	70.7	70.7	70.7	70.7	71.0	71.0	71.0
≥ 3000	10.3	46.5	48.4	54.2	58.1	59.4	66.1	71.6	73.2	74.5	74.5	74.5	74.5	74.8	74.8	74.8
≥ 2500	11.0	49.0	51.0	56.8	60.7	61.9	68.7	74.2	75.8	77.1	77.1	77.1	77.1	77.4	77.4	77.4
≥ 2000	11.0	52.9	54.8	60.7	65.5	66.8	73.6	79.0	80.7	81.9	81.9	81.9	81.9	82.3	82.3	82.3
≥ 1800	11.3	53.6	55.5	61.3	66.5	67.7	74.5	80.0	81.6	82.9	82.9	82.9	82.9	83.2	83.2	83.2
≥ 1500	11.6	56.2	58.1	65.2	70.7	72.6	79.4	85.2	86.9	88.1	88.1	88.1	88.1	88.4	88.4	88.4
≥ 1200	11.6	57.1	59.4	65.8	71.6	73.6	81.0	86.9	88.4	89.7	89.7	89.7	89.7	90.0	90.0	90.0
≥ 1000	11.6	58.1	61.0	67.7	73.9	75.8	84.0	91.6	93.0	95.2	95.2	95.2	95.2	95.5	95.5	95.5
≥ 900	11.6	58.1	61.0	68.1	74.2	76.1	85.8	92.6	94.5	96.1	96.5	96.5	96.5	96.6	96.8	96.8
≥ 800	11.6	58.1	61.0	68.1	74.5	76.8	86.5	93.6	95.5	97.1	97.4	97.4	97.4	97.7	97.7	97.7
≥ 700	11.6	58.1	61.0	68.1	74.5	76.8	86.8	93.9	95.8	97.7	98.1	98.1	98.1	98.4	98.4	98.4
≥ 400	11.6	58.1	61.0	68.1	74.5	76.8	86.8	93.9	95.9	98.4	98.7	98.7	98.7	99.0	99.0	99.0
≥ 500	11.6	58.1	61.0	68.1	74.5	76.8	86.8	94.2	96.5	99.0	99.7	99.7	99.7	100.0	100.0	100.0
≥ 400	11.6	58.1	61.0	68.1	74.5	76.8	86.8	94.2	96.5	99.0	99.7	99.7	99.7	100.0	100.0	100.0
≥ 300	11.6	58.1	61.0	68.1	74.5	76.8	86.8	94.2	96.5	99.0	99.7	99.7	99.7	100.0	100.0	100.0
≥ 200	11.6	58.1	61.0	68.1	74.5	76.8	86.8	94.2	96.5	99.0	99.7	99.7	99.7	100.0	100.0	100.0
≥ 100	11.6	58.1	61.0	68.1	74.5	76.8	86.8	94.2	96.5	99.0	99.7	99.7	99.7	100.0	100.0	100.0
0	11.6	58.1	61.0	68.1	74.5	76.8	86.8	94.2	96.5	99.0	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (1964) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.7	49.4	53.2	56.8	65.5	68.4	74.5	76.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 20000	10.7	51.9	55.8	60.3	69.4	72.3	78.7	80.7	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6
18000	10.7	52.3	56.1	60.7	69.7	72.6	79.0	81.0	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9
16000	10.7	52.3	56.1	60.7	69.7	72.6	79.0	81.0	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9
14000	10.7	52.6	56.5	61.0	70.0	72.9	79.4	81.3	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2
12000	10.7	53.6	57.4	61.9	71.3	74.2	80.7	82.6	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5
10000	10.7	54.5	58.4	62.9	72.3	75.2	81.6	83.6	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5
9000	10.7	54.5	58.4	62.9	72.3	75.2	81.6	83.6	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5
8000	10.7	54.5	58.4	62.9	72.3	75.2	81.6	83.6	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5
7000	10.7	54.8	58.7	63.2	72.6	75.5	81.9	83.9	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8
6000	10.7	54.8	58.7	63.2	72.6	75.5	82.3	84.2	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1
5000	10.7	54.8	58.7	63.2	72.6	75.5	82.3	84.2	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1
4500	10.7	55.2	59.0	63.6	72.9	75.8	82.6	84.5	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5
4000	11.0	55.5	59.4	63.9	73.2	76.1	82.9	84.8	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8
3500	11.0	56.5	60.3	64.8	74.2	77.1	83.9	85.8	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7
3000	11.3	60.7	64.5	69.0	78.7	81.6	88.4	90.3	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2500	11.9	62.5	66.8	71.3	81.0	83.9	90.7	92.6	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2000	12.2	63.6	68.1	72.6	82.6	85.5	92.3	94.2	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1800	12.6	63.9	68.7	73.2	83.2	86.1	92.9	94.8	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1500	12.6	65.5	70.3	74.8	85.2	88.1	94.8	96.9	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1200	12.9	65.5	70.3	74.8	85.5	88.4	95.2	97.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1000	12.9	65.8	71.0	75.5	86.1	89.0	95.8	97.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
900	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	12.9	66.1	71.3	75.8	86.5	89.4	96.1	98.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 — STATION NUMBER — SANTA ANA, CALIFORNIA — STATION NAME — 73-82 — YEARS — OCT — MONTH

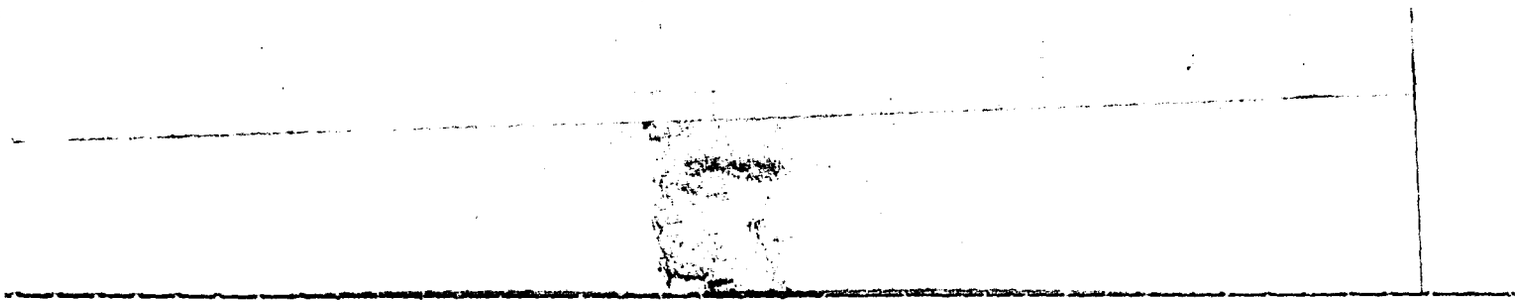
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

18 — HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.6	61.0	63.9	69.0	75.8	77.7	79.0	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 20000	11.6	64.8	68.1	73.9	81.3	83.2	84.8	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 18000	11.6	64.8	68.1	73.9	81.3	83.2	84.8	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 16000	11.6	64.8	68.1	73.9	81.3	83.2	84.8	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 14000	11.6	65.2	68.4	74.2	81.6	83.6	85.2	86.5	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 12000	11.6	66.8	70.0	75.8	83.2	85.2	87.1	88.4	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 10000	11.9	68.1	71.3	77.1	84.5	86.5	88.7	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 9000	11.9	68.4	71.6	77.4	84.8	86.8	89.0	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 8000	11.9	68.7	71.9	77.7	85.2	87.1	89.4	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 7000	11.9	68.7	71.9	77.7	85.2	87.1	89.7	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 6000	11.9	68.7	71.9	77.7	85.2	87.1	89.7	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 5000	11.9	69.4	72.6	78.4	85.8	87.7	90.3	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 4500	11.9	69.4	72.6	78.4	85.8	87.7	90.3	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 4000	12.3	69.7	72.9	78.7	86.1	88.1	90.7	91.9	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 3500	12.3	70.0	73.2	79.0	86.5	88.4	91.0	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 3000	12.4	72.9	76.1	81.9	89.4	91.3	93.9	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500	12.9	74.2	77.4	83.2	90.7	92.6	95.2	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2000	13.2	75.2	78.4	84.2	91.6	93.6	96.1	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1800	13.2	75.2	78.4	84.2	91.6	93.6	96.1	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1500	13.2	76.1	79.4	85.5	93.2	95.2	97.7	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	13.2	76.1	79.4	85.5	93.2	95.2	97.7	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	13.6	76.5	79.7	85.8	93.6	95.5	98.1	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	13.6	76.5	79.7	85.8	93.6	95.5	98.1	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	13.6	76.5	79.7	85.8	93.6	95.5	98.1	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	13.6	76.5	79.7	85.8	93.9	95.8	98.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 312

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

'I14	SANTA ANA, CALIFORNIA	73-82	OCT
STATION	STATION NAME	YEARS	MONTH

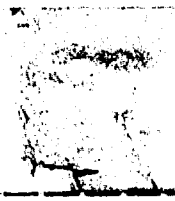
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.1	63.6	69.7	72.3	77.1	78.1	79.7	80.3	80.3	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 20000	6.1	66.5	72.9	75.5	80.7	81.6	83.6	84.2	84.2	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 18000	6.1	66.5	72.9	75.5	80.7	81.6	83.6	84.2	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 16000	6.1	66.5	72.9	75.5	80.7	81.6	83.7	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 14000	6.1	67.7	74.2	76.8	81.9	82.9	85.2	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 12000	6.1	68.8	74.8	77.4	82.6	83.6	86.1	86.8	86.8	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 10000	6.1	69.0	75.5	78.1	83.6	84.5	87.1	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 9000	6.1	69.4	75.8	78.4	83.9	84.8	87.4	88.1	88.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 8000	6.1	70.0	76.5	79.0	84.5	85.5	88.1	88.7	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 7000	6.1	70.0	76.5	79.0	84.5	85.5	88.1	88.7	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 6000	6.1	70.0	76.5	79.0	84.5	85.5	88.1	88.7	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 5000	6.1	70.0	76.5	79.0	84.5	85.5	88.1	88.7	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 4500	6.1	70.3	76.8	79.4	84.8	85.8	88.4	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4000	6.1	70.3	76.8	79.4	84.8	85.8	88.4	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3500	6.1	70.7	77.1	79.7	85.2	86.1	88.7	89.4	89.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3000	6.1	72.6	79.0	81.6	87.1	88.1	90.7	91.3	91.3	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2500	6.9	73.9	80.3	82.9	88.4	89.4	91.9	92.6	92.6	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2000	7.1	75.2	81.6	84.5	90.0	91.0	93.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800	7.1	75.2	81.6	84.8	90.3	91.3	93.9	94.5	94.5	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1500	7.1	77.1	83.8	87.1	92.9	93.9	96.5	97.1	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1200	7.1	77.1	83.8	87.4	93.2	94.2	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000	7.1	77.1	83.8	87.4	93.2	94.5	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	7.1	77.1	83.8	87.4	93.6	94.8	97.7	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	7.1	77.1	83.8	87.7	93.9	95.2	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	100.0	100.0	100.0	100.0
≥ 200	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	100.0	100.0	100.0	100.0
≥ 100	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	100.0	100.0	100.0	100.0
0	7.1	77.4	83.9	88.1	94.2	95.5	98.4	99.0	99.0	99.7	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7114	SANTA ANA, CALIFORNIA	73-82	OCT
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.5	53.9	57.7	62.3	67.4	67.7	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	70.0	70.0
≥ 20000	4.5	55.2	59.7	64.9	70.0	70.3	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.6	72.6
≥ 18000	4.5	55.8	59.7	64.8	70.0	70.3	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.6	72.6
≥ 16000	4.5	55.8	59.7	64.8	70.0	70.3	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.6	72.6
≥ 14000	4.3	56.1	60.0	65.2	70.3	70.7	71.9	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.9	72.9
≥ 12000	4.5	56.5	60.3	65.5	70.7	71.0	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.2	73.2
≥ 10000	4.5	57.7	61.6	66.8	71.9	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.5	74.5
≥ 9000	4.5	57.7	61.6	66.8	71.9	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.5	74.5
≥ 8000	4.5	58.4	62.3	67.4	72.6	72.9	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	75.2	75.2
≥ 7000	4.5	58.4	62.3	67.4	72.6	72.9	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	75.2	75.2
≥ 6000	4.5	58.4	62.3	67.4	72.9	73.2	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.5	75.5
≥ 5000	4.5	58.7	62.6	67.7	73.2	73.6	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.8	75.8
≥ 4500	4.5	59.0	62.9	68.1	73.6	73.9	75.2	75.8	75.8	75.8	75.8	75.8	75.8	75.8	76.1	76.1
≥ 4000	4.5	59.0	62.9	68.1	73.6	73.9	75.2	75.8	75.8	75.8	75.8	75.8	75.8	75.8	76.1	76.1
≥ 3500	4.5	59.7	63.6	68.7	74.2	74.5	75.8	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.8	76.8
≥ 3000	4.8	62.6	66.5	71.6	77.1	77.4	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.7	79.7
≥ 2500	4.8	63.2	67.1	72.3	77.7	78.1	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.3	80.3
≥ 2000	4.8	65.5	70.0	75.5	81.0	81.3	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.6	83.6
≥ 1800	4.8	65.8	70.3	75.8	81.3	81.6	82.9	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.9	83.9
≥ 1500	4.8	69.7	74.8	80.3	85.8	86.1	87.4	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.4	88.4
≥ 1200	4.8	70.3	75.5	81.0	86.5	86.8	88.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7	89.0	89.0
≥ 1000	4.8	71.9	77.7	83.9	90.3	90.7	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.2	93.2
≥ 900	4.8	72.3	78.1	84.2	91.3	91.6	93.2	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.2	94.2
≥ 800	4.8	72.3	78.1	84.5	91.9	92.3	93.9	94.5	94.5	94.8	94.8	94.8	94.8	94.8	95.2	95.2
≥ 700	4.8	72.3	78.4	85.2	92.6	92.9	95.2	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.8	96.8
≥ 600	4.8	72.3	78.4	85.5	92.9	93.2	95.5	96.5	96.5	96.8	96.8	96.8	96.8	96.8	97.1	97.1
≥ 500	4.8	72.3	78.4	85.8	93.6	93.9	96.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.7	97.7
≥ 400	4.8	72.3	78.8	85.8	93.6	93.9	96.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.7	97.7
≥ 300	4.8	72.3	78.4	85.8	93.6	93.9	96.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.7	97.7
≥ 200	4.8	72.3	78.4	85.8	93.6	93.9	96.1	97.1	97.4	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 100	4.8	72.3	78.4	85.8	93.6	93.9	96.1	97.1	97.4	98.1	98.1	98.1	98.4	98.4	99.0	99.0
0	4.8	72.3	78.4	85.8	93.6	93.9	96.1	97.1	97.4	98.1	98.1	98.1	98.4	98.4	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IN | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | OCT (MONTH)

ALL (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.7	47.8	50.9	54.7	58.9	60.0	62.5	63.8	64.2	64.6	64.6	64.6	64.6	64.7	64.8	64.8
≥ 20000	6.8	50.1	53.4	57.5	62.1	63.2	65.9	67.3	67.6	68.1	68.1	68.1	68.1	66.2	68.2	68.3
< 20000 ≥ 18000	6.8	50.1	53.4	57.5	62.1	63.2	65.9	67.3	67.7	68.1	68.1	68.1	68.2	68.2	68.3	68.4
< 18000 ≥ 16000	6.8	50.1	53.4	57.6	62.2	63.3	66.0	67.4	67.7	68.2	68.2	68.2	68.2	68.3	68.4	68.4
< 16000 ≥ 14000	6.8	50.6	53.9	58.1	62.7	63.8	66.5	67.9	68.2	68.7	68.7	68.7	68.7	68.8	68.8	68.9
< 14000 ≥ 12000	6.8	51.4	54.7	58.9	63.6	64.6	67.5	68.9	69.3	69.7	69.7	69.7	69.8	69.8	69.9	70.0
< 12000 ≥ 10000	6.8	52.5	55.8	60.0	64.8	65.9	68.8	70.2	70.6	71.1	71.1	71.1	71.1	71.1	71.2	71.3
< 10000 ≥ 9000	6.8	52.6	55.9	60.1	64.9	66.0	68.9	70.3	70.7	71.1	71.1	71.1	71.2	71.2	71.3	71.4
< 9000 ≥ 8000	6.9	53.2	56.5	60.7	65.4	66.5	69.4	70.9	71.3	71.7	71.7	71.7	71.7	71.8	71.9	71.9
< 8000 ≥ 7000	6.9	53.2	56.5	60.8	65.5	66.6	69.6	71.0	71.4	71.9	71.9	71.9	71.9	71.9	72.0	72.1
< 7000 ≥ 6000	6.9	53.3	56.6	60.9	65.7	66.7	69.7	71.2	71.6	72.1	72.1	72.1	72.1	72.1	72.2	72.3
< 6000 ≥ 5000	6.9	53.6	56.9	61.1	65.9	67.0	70.0	71.5	71.9	72.3	72.3	72.3	72.3	72.4	72.5	72.5
< 5000 ≥ 4500	6.9	53.7	57.0	61.2	66.0	67.1	70.1	71.6	72.0	72.4	72.4	72.4	72.5	72.5	72.6	72.7
< 4500 ≥ 4000	7.0	54.0	57.4	61.7	66.5	67.5	70.5	72.0	72.4	72.9	72.9	72.9	72.9	72.9	73.0	73.1
< 4000 ≥ 3500	7.0	54.7	58.1	62.3	67.1	68.2	71.2	72.7	73.1	73.6	73.6	73.6	73.6	73.6	73.7	73.9
< 3500 ≥ 3000	7.5	57.3	60.7	64.9	69.8	70.9	73.9	75.4	75.8	76.2	76.2	76.2	76.3	76.3	76.4	76.5
< 3000 ≥ 2500	7.7	59.2	62.7	67.0	71.9	73.0	76.0	77.5	77.9	78.4	78.4	78.4	78.4	78.4	78.6	78.6
< 2500 ≥ 2000	7.9	61.5	65.8	69.9	75.0	76.1	79.1	80.6	81.0	81.5	81.5	81.5	81.5	81.5	81.7	81.7
< 2000 ≥ 1800	8.0	61.7	65.6	70.1	75.2	76.4	79.4	80.9	81.3	81.7	81.7	81.7	81.8	81.8	81.9	82.0
< 1800 ≥ 1500	8.0	64.9	69.2	74.1	79.5	80.8	84.0	85.5	86.0	86.4	86.4	86.4	86.5	86.5	86.6	86.7
< 1500 ≥ 1200	8.0	65.1	69.5	74.5	80.1	81.4	84.7	86.3	86.8	87.2	87.2	87.2	87.3	87.3	87.4	87.5
< 1200 ≥ 1000	8.1	66.4	71.1	76.7	82.9	84.2	88.0	89.8	90.3	90.9	90.9	90.9	90.9	91.0	91.1	91.2
< 1000 ≥ 900	8.1	66.5	71.3	77.0	83.3	84.6	88.6	90.4	90.9	91.5	91.5	91.5	91.5	91.6	91.7	91.8
< 900 ≥ 800	8.1	66.7	71.6	77.5	83.9	85.4	89.4	91.3	91.8	92.5	92.5	92.5	92.6	92.6	92.7	92.8
< 800 ≥ 700	8.1	66.8	71.8	77.8	84.4	85.8	90.1	92.1	92.7	93.4	93.5	93.5	93.5	93.6	93.7	93.8
< 700 ≥ 600	8.1	66.8	71.8	77.9	84.6	86.1	90.4	92.5	93.0	93.9	94.0	94.0	94.0	94.1	94.2	94.3
< 600 ≥ 500	8.1	66.8	71.8	78.0	84.8	86.4	91.0	93.2	93.8	94.9	95.0	95.0	95.2	95.2	95.3	95.4
< 500 ≥ 400	8.1	66.8	71.8	78.1	84.9	86.5	91.1	93.3	94.0	95.1	95.3	95.3	95.4	95.5	95.6	95.7
< 400 ≥ 300	8.1	66.9	71.8	78.1	84.9	86.5	91.1	93.5	94.1	95.6	95.9	95.9	96.1	96.2	96.3	96.5
< 300 ≥ 200	8.1	66.9	71.8	78.1	85.0	86.5	91.1	93.6	94.3	96.0	96.4	96.4	96.9	96.9	97.4	97.8
< 200 ≥ 100	8.1	66.9	71.8	78.1	85.0	86.5	91.1	93.6	94.3	96.1	96.5	96.5	97.2	97.3	97.9	98.7
< 100 ≥ 0	8.1	66.9	71.8	78.1	85.0	86.5	91.1	93.6	94.3	96.1	96.6	96.6	97.3	97.4	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 2480

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114	SANTA ANA, CALIFORNIA	73-82	NOV	01
STATION	STATION NAME	YEARS	MONTH	HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING	[illegible]	[illegible]	60.0	62.3	66.3	67.0	68.3	69.3	[illegible]	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 20000	4.3	60.3	63.7	66.0	70.3	71.0	73.3	73.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 18000	4.3	60.3	63.7	66.0	70.3	71.0	73.3	73.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 16000	4.3	60.3	63.7	66.0	70.3	71.0	73.3	73.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 14000	4.3	60.3	63.7	66.0	70.3	71.0	73.3	73.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 12000	4.3	61.0	64.3	66.7	71.0	71.7	74.0	74.0	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 10000	4.3	61.7	65.3	67.7	72.0	72.7	75.0	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 9000	4.3	61.7	65.3	67.7	72.0	72.7	75.0	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 8000	4.3	61.7	65.3	67.7	72.0	72.7	75.0	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000	4.3	62.0	65.7	68.0	72.3	73.0	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 6000	4.3	62.0	65.7	68.0	72.3	73.0	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 5000	4.3	62.0	65.7	68.0	72.3	73.0	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4500	4.3	62.0	65.7	68.0	72.3	73.0	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4000	4.3	62.7	66.3	68.7	73.0	73.7	76.0	76.0	76.0	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 3500	4.3	63.0	66.7	69.0	73.3	74.0	76.3	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3000	4.7	65.3	69.0	71.3	75.7	76.3	79.0	79.0	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 2500	4.7	66.7	70.3	73.0	77.3	78.0	80.7	80.7	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 2000	5.0	69.7	73.3	76.0	80.7	81.3	84.0	84.0	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1800	5.0	69.7	73.3	76.0	80.7	81.3	84.0	84.0	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1500	5.0	71.0	75.0	78.3	83.7	84.7	87.3	87.3	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1200	5.0	72.0	76.0	79.7	85.3	86.3	89.0	89.0	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1000	5.0	72.7	77.0	81.0	86.7	88.0	90.7	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	5.0	73.0	77.3	81.3	87.0	88.3	91.0	91.0	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 800	5.0	73.0	77.3	81.3	87.0	88.3	91.3	91.3	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 700	5.0	73.0	77.3	81.3	87.7	89.0	92.7	92.7	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 600	5.0	73.0	77.3	81.3	87.7	89.0	93.0	93.0	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 500	5.0	73.0	77.3	81.7	88.3	89.7	93.7	94.0	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 400	5.0	73.0	77.3	82.0	88.7	90.0	94.0	94.3	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 300	5.0	73.0	77.3	82.0	88.7	90.0	94.0	94.3	95.0	95.3	95.3	95.3	95.3	95.3	95.7	95.7
≥ 200	5.0	73.0	77.3	82.0	88.7	90.0	94.0	94.3	95.3	95.7	95.7	95.7	96.0	96.0	96.3	97.0
≥ 100	5.0	73.0	77.3	82.0	88.7	90.0	94.0	94.3	95.3	95.7	[illegible]	95.7	96.0	96.0	96.3	97.7
0	5.0	73.0	77.3	82.0	88.7	90.0	94.0	94.3	95.3	95.7	95.7	95.7	96.0	96.0	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

SANTA ANA, CALIFORNIA (STATION NAME) | 73-92 (YEARS) | NOV (MONTH)

04 (HOURS (L S T.))

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	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.7	55.0	57.3	58.7	61.7	62.0	62.3	62.3	62.3	63.3	63.3	63.7	64.0	64.0	64.0	64.3
≥ 20000	5.0	57.3	59.7	61.0	64.3	64.7	65.0	65.0	65.0	66.0	66.0	66.3	66.7	66.7	66.7	67.0
≥ 18000	5.0	57.3	59.7	61.0	64.3	64.7	65.0	65.0	65.0	66.0	66.0	66.3	66.7	66.7	66.7	67.0
≥ 16000	5.0	57.3	59.7	61.0	64.3	64.7	65.0	65.0	65.0	66.0	66.0	66.3	66.7	66.7	66.7	67.0
≥ 14000	5.0	57.3	59.7	61.0	64.3	64.7	65.0	65.0	65.0	66.0	66.0	66.3	66.7	66.7	66.7	67.0
≥ 12000	5.0	58.0	60.3	61.7	65.0	65.3	65.7	65.7	65.7	66.7	66.7	67.0	67.3	67.3	67.3	67.7
≥ 10000	5.0	59.3	61.7	63.0	66.3	66.7	67.0	67.0	67.0	68.0	68.0	68.3	68.7	68.7	68.7	69.0
≥ 9000	5.0	59.3	61.7	63.0	66.3	66.7	67.0	67.0	67.0	68.0	68.0	68.3	68.7	68.7	68.7	69.0
≥ 8000	5.0	59.3	61.7	63.0	66.3	66.7	67.0	67.0	67.0	68.0	68.0	68.3	68.7	68.7	68.7	69.0
≥ 7000	5.0	59.7	62.0	63.3	66.7	67.0	67.3	67.3	67.3	68.3	68.3	68.7	69.0	69.0	69.0	69.3
≥ 6000	5.0	59.7	62.0	63.3	66.7	67.0	67.3	67.3	67.3	68.3	68.3	68.7	69.0	69.0	69.0	69.3
≥ 5000	5.0	59.7	62.0	63.3	66.7	67.0	67.3	67.3	67.3	68.3	68.3	68.7	69.0	69.0	69.0	69.3
≥ 4500	5.0	59.7	62.0	63.3	66.7	67.0	67.3	67.3	67.3	68.3	68.3	68.7	69.0	69.0	69.0	69.3
≥ 4000	5.0	60.7	63.0	64.3	67.7	68.0	68.3	68.3	68.3	69.3	69.3	69.7	70.0	70.0	70.0	70.3
≥ 3500	5.0	60.7	63.0	64.3	68.0	68.3	68.7	68.7	68.7	69.7	69.7	70.0	70.3	70.3	70.3	70.7
≥ 3000	5.0	62.7	65.3	66.7	70.3	70.7	71.0	71.0	71.0	72.0	72.0	72.3	72.7	72.7	72.7	73.0
≥ 2500	5.0	64.0	66.7	68.0	72.0	72.3	72.7	72.7	72.7	73.7	73.7	74.0	74.3	74.3	74.3	74.7
≥ 2000	5.0	69.3	72.7	74.0	78.3	78.7	79.0	79.0	79.0	80.0	80.0	80.3	80.7	80.7	80.7	81.0
≥ 1800	5.0	69.3	73.0	74.3	79.3	79.7	80.0	80.0	80.0	81.0	81.0	81.3	81.7	81.7	81.7	82.0
≥ 1500	5.0	70.3	74.7	77.0	82.0	82.3	82.7	82.7	82.7	83.7	83.7	84.0	84.3	84.3	84.3	84.7
≥ 1200	5.0	71.0	75.3	77.7	83.0	83.3	83.7	83.7	83.7	84.7	84.7	85.0	85.3	85.3	85.3	85.7
≥ 1000	5.0	71.3	75.7	78.0	83.3	84.0	85.0	85.0	85.0	86.0	86.0	86.3	86.7	86.7	86.7	87.0
≥ 900	5.0	71.7	76.0	78.3	83.7	84.3	85.7	85.7	85.7	86.7	86.7	87.0	87.3	87.3	87.3	87.7
≥ 800	5.0	71.7	76.0	78.3	84.7	85.3	87.0	87.3	87.3	88.3	88.3	88.7	89.0	89.0	89.0	89.3
≥ 700	5.0	71.7	76.0	78.3	85.0	85.7	87.3	87.7	87.7	88.7	88.7	89.0	89.3	89.3	89.3	89.7
≥ 600	5.0	71.7	76.0	78.3	85.3	86.0	88.0	88.3	88.3	89.3	89.3	89.7	90.0	90.0	90.0	90.3
≥ 500	5.0	71.7	76.3	79.0	86.3	87.0	89.0	89.3	89.7	90.7	91.0	91.3	91.7	91.7	91.7	92.0
≥ 400	5.0	72.0	76.7	79.3	86.7	87.3	89.3	89.7	90.0	91.0	91.3	91.7	92.0	92.0	92.0	92.3
≥ 300	5.0	72.0	76.7	79.3	87.0	87.7	90.3	91.3	91.7	93.3	93.7	94.0	94.3	94.3	94.3	94.7
≥ 200	5.0	72.0	76.7	79.3	87.0	87.7	90.3	91.7	92.0	93.7	94.3	94.7	95.0	95.0	95.0	96.0
≥ 100	5.0	72.0	76.7	79.3	87.0	88.0	91.0	92.3	92.7	94.3	95.0	95.3	95.7	95.7	95.7	97.0
0	5.0	72.0	76.7	79.3	87.0	88.0	91.0	92.3	92.7	94.3	95.0	95.3	95.7	95.7	95.7	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (TYPE) SANTA ANA, CALIFORNIA (STATION NAME) 73-92 (YEARS) NOV (MONTH)

07 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.3	54.3	57.0	59.0	61.7	62.3	63.3	63.3	63.7	63.7	63.7	63.7	64.0	64.0	64.3	64.3
≥ 20000	11.0	59.3	62.0	64.0	67.3	68.0	69.7	69.7	70.0	70.0	70.3	70.3	70.7	70.7	71.0	71.3
≥ 18000	11.0	59.7	62.3	64.3	67.7	68.3	70.0	70.0	70.3	70.3	70.7	70.7	71.0	71.0	71.3	71.7
≥ 16000	11.0	60.0	62.7	64.7	68.0	68.7	70.3	70.3	70.7	70.7	71.0	71.0	71.3	71.3	71.7	72.0
≥ 14000	11.3	60.3	63.0	65.0	68.3	69.0	70.7	70.7	71.0	71.0	71.3	71.3	71.7	71.7	72.0	72.3
≥ 12000	11.3	61.3	64.0	66.0	69.3	70.0	71.7	71.7	72.0	72.0	72.3	72.3	72.7	72.7	73.0	73.3
≥ 10000	11.3	61.7	64.7	66.7	70.0	70.7	72.7	72.7	73.0	73.0	73.3	73.3	73.7	73.7	74.0	74.3
≥ 9000	11.3	61.7	64.7	66.7	70.0	70.7	72.7	72.7	73.0	73.0	73.3	73.3	73.7	73.7	74.0	74.3
≥ 8000	11.3	61.7	64.7	66.7	70.0	70.7	72.7	72.7	73.0	73.0	73.3	73.3	73.7	73.7	74.0	74.3
≥ 7000	11.3	62.0	65.0	67.3	70.7	71.3	73.3	73.3	73.7	73.7	74.0	74.0	74.3	74.3	74.7	75.0
≥ 6000	11.3	62.0	65.0	67.3	70.7	71.3	73.3	73.3	73.7	73.7	74.0	74.0	74.3	74.3	74.7	75.0
≥ 5000	11.3	62.3	65.3	67.7	71.0	71.7	73.7	73.7	74.0	74.0	74.3	74.3	74.7	74.7	75.0	75.3
≥ 4500	11.3	62.7	65.7	68.0	71.3	72.0	74.0	74.0	74.3	74.3	74.7	74.7	75.0	75.0	75.3	75.7
≥ 4000	11.3	63.7	66.7	69.0	72.3	73.0	75.0	75.0	75.3	75.3	75.7	75.7	76.0	76.0	76.3	76.7
≥ 3500	11.3	64.0	67.0	69.3	72.7	73.3	75.3	75.3	75.7	75.7	76.0	76.0	76.3	76.3	76.7	77.0
≥ 3000	11.7	65.7	68.7	71.0	74.7	75.3	77.3	77.3	77.7	77.7	78.0	78.0	78.3	78.3	78.7	79.0
≥ 2500	12.0	66.7	69.7	72.0	75.7	76.3	78.3	78.3	78.7	78.7	79.0	79.0	79.3	79.3	79.7	80.0
≥ 2000	12.0	69.7	72.7	75.0	79.0	79.7	82.0	82.0	82.3	82.3	82.7	82.7	83.0	83.0	83.3	83.7
≥ 1800	12.0	69.7	72.7	75.0	79.3	80.0	82.3	82.3	82.7	82.7	83.0	83.0	83.3	83.3	83.7	84.0
≥ 1500	12.0	70.7	73.7	76.0	80.3	81.0	83.7	83.7	84.0	84.0	84.3	84.3	84.7	84.7	85.0	85.3
≥ 1200	12.0	70.7	73.7	76.0	80.7	81.3	84.3	84.3	84.7	84.7	85.0	85.0	85.3	85.3	85.7	86.0
≥ 1000	12.0	71.0	74.3	76.7	81.7	82.3	85.3	85.7	86.0	86.0	86.3	86.3	86.7	86.7	87.0	87.3
≥ 900	12.0	71.0	74.3	76.7	81.7	82.3	85.3	85.7	86.3	86.3	86.7	86.7	87.0	87.0	87.3	87.7
≥ 800	12.0	71.3	74.7	77.0	82.0	82.7	86.0	86.3	87.7	88.0	88.3	88.3	88.7	88.7	89.0	89.3
≥ 700	12.0	71.3	75.0	77.3	82.3	83.0	86.7	87.0	88.3	89.0	89.7	89.7	90.0	90.0	90.3	90.7
≥ 600	12.0	71.3	75.0	77.3	82.3	83.0	87.0	87.3	88.7	89.3	90.3	90.3	90.7	90.7	91.0	91.3
≥ 500	12.0	71.3	75.0	77.3	82.3	83.0	87.3	88.0	89.3	90.0	91.0	91.0	91.3	91.3	91.7	92.0
≥ 400	12.0	71.3	75.0	77.3	82.3	83.0	87.3	88.0	89.3	90.3	91.3	91.3	91.7	91.7	92.0	92.3
≥ 300	12.0	71.3	75.0	77.3	82.3	83.0	87.3	88.0	89.3	90.7	92.0	92.0	92.7	92.7	93.0	93.3
≥ 200	12.0	71.3	75.0	77.3	82.3	83.0	87.3	88.0	89.3	90.7	92.3	92.3	93.3	93.3	93.7	94.0
≥ 100	12.0	71.3	75.0	77.3	82.3	83.0	87.3	88.0	89.3	90.7	92.7	92.7	94.0	94.0	94.7	96.3
0	12.0	71.3	75.0	77.3	82.3	83.0	87.3	88.0	89.3	90.7	92.7	92.7	94.0	94.0	95.3	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-92 (YEARS) NOV (MONTH)

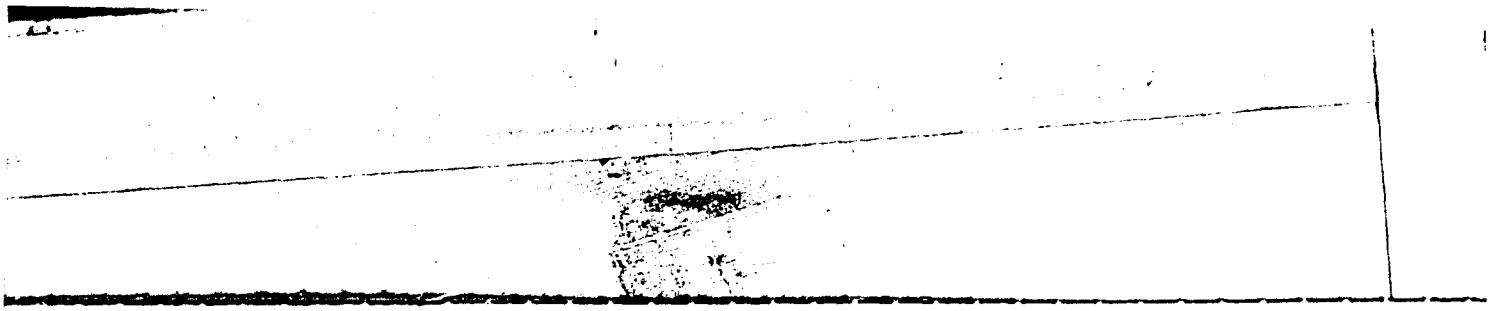
10 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.3	54.7	57.7	60.7	64.0	65.0	67.3	68.3	68.7	71.0	71.0	71.0	71.3	71.7	71.7	71.7
≥ 20000	12.7	57.7	60.7	64.7	68.3	69.3	71.7	72.7	73.0	75.3	75.3	75.3	75.7	76.0	76.0	76.0
≥ 18000	12.7	58.0	61.0	65.0	68.7	69.7	72.0	73.0	73.3	75.7	75.7	75.7	76.0	76.3	76.3	76.3
≥ 16000	12.7	58.0	61.0	65.0	68.7	69.7	72.0	73.0	73.3	75.7	75.7	75.7	76.0	76.3	76.3	76.3
≥ 14000	12.7	58.3	61.3	65.3	69.0	70.0	72.3	73.3	73.7	76.0	76.0	76.0	76.3	76.7	76.7	76.7
≥ 12000	12.7	59.3	62.3	66.3	70.0	71.0	73.3	74.3	74.7	77.0	77.0	77.0	77.3	77.7	77.7	77.7
≥ 10000	12.7	59.7	63.0	67.0	71.3	72.3	74.7	75.7	76.0	78.3	78.3	78.3	78.7	79.0	79.0	79.0
≥ 9000	12.7	59.7	63.0	67.0	71.3	72.3	74.7	75.7	76.0	78.3	78.3	78.3	78.7	79.0	79.0	79.0
≥ 8000	13.3	60.7	64.3	68.3	72.7	73.7	76.0	77.0	77.3	79.7	79.7	79.7	80.0	80.3	80.3	80.3
≥ 7000	13.3	61.0	64.7	68.7	73.0	74.0	76.3	77.3	77.7	80.0	80.0	80.0	80.3	80.7	80.7	80.7
≥ 6000	13.3	61.0	64.7	68.7	73.0	74.0	76.3	77.3	77.7	80.0	80.0	80.0	80.3	80.7	80.7	80.7
≥ 5000	13.3	61.0	64.7	68.7	73.0	74.0	76.3	77.3	77.7	80.0	80.0	80.0	80.3	80.7	80.7	80.7
≥ 4500	13.3	62.0	65.7	69.7	74.0	75.0	77.3	78.3	78.7	81.0	81.0	81.0	81.3	81.7	81.7	81.7
≥ 4000	13.3	62.3	66.0	70.0	74.3	75.3	77.7	78.7	79.0	81.3	81.3	81.3	81.7	82.0	82.0	82.0
≥ 3500	13.3	62.7	66.3	70.3	74.7	75.7	78.0	79.0	79.3	81.7	81.7	81.7	82.0	82.3	82.3	82.3
≥ 3000	13.7	64.0	68.0	72.0	76.3	77.3	79.7	80.7	81.0	83.3	83.3	83.3	83.7	84.0	84.0	84.0
≥ 2500	14.0	65.7	69.7	73.7	78.0	79.0	81.3	82.3	82.7	85.0	85.0	85.0	85.3	85.7	85.7	85.7
≥ 2000	14.0	68.0	72.0	76.0	80.3	81.3	83.7	84.7	85.0	87.3	87.3	87.3	87.7	88.0	88.0	88.0
≥ 1800	14.0	68.0	72.3	76.3	80.7	81.7	84.0	85.0	85.3	87.7	87.7	87.7	88.0	88.3	88.3	88.3
≥ 1500	14.0	69.0	74.0	78.7	83.7	85.0	88.0	89.0	89.7	92.0	92.0	92.0	92.3	92.7	92.7	92.7
≥ 1200	14.0	69.0	74.0	78.7	83.7	85.0	88.3	89.3	90.0	92.3	92.3	92.3	92.7	93.0	93.0	93.0
≥ 1000	14.0	69.0	74.0	78.7	84.0	85.3	89.0	91.0	91.7	94.0	94.3	94.3	94.7	95.0	95.0	95.0
≥ 900	14.0	69.0	74.0	78.7	84.0	85.3	89.0	91.0	91.7	94.0	94.3	94.3	94.7	95.0	95.0	95.0
≥ 800	14.0	69.0	74.0	79.0	84.3	85.7	89.3	91.7	92.7	95.7	96.0	96.0	96.3	96.7	96.7	96.7
≥ 700	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	96.3	96.7	96.7	97.0	97.3	97.3	97.3
≥ 600	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	96.3	96.7	96.7	97.0	97.3	97.3	97.3
≥ 500	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	96.7	97.0	97.0	97.3	97.7	97.7	97.7
≥ 400	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	97.0	97.7	97.7	98.0	98.3	98.3	98.3
≥ 300	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	97.0	98.0	98.0	98.3	98.7	99.0	99.3
≥ 200	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	97.0	98.0	98.0	98.7	99.0	99.3	99.7
≥ 100	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	97.0	98.0	98.0	98.7	99.0	99.3	100.0
0	14.0	69.3	74.3	79.3	84.7	86.0	89.7	92.0	93.0	97.0	98.0	98.0	98.7	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | NOV (MONTH)

13 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.3	57.7	59.3	63.3	68.0	69.3	73.3	74.7	75.3	75.7	76.3	76.3	76.7	77.0	77.3	77.7
≥ 20000	12.3	62.0	64.3	68.3	73.3	74.7	79.0	80.3	81.0	81.3	82.0	82.0	82.3	82.7	83.0	83.3
≥ 18000	12.3	62.0	64.3	68.3	73.3	74.7	79.0	80.3	81.0	81.3	82.0	82.0	82.3	82.7	83.0	83.3
≥ 16000	12.3	62.0	64.3	68.3	73.3	74.7	79.0	80.3	81.0	81.3	82.0	82.0	82.3	82.7	83.0	83.3
≥ 14000	12.7	62.7	65.3	69.3	74.7	76.0	80.3	81.7	82.3	82.7	83.3	83.3	83.7	84.0	84.3	84.7
≥ 12000	13.0	64.0	66.7	70.7	76.0	77.3	81.7	83.0	83.7	84.0	84.7	84.7	85.0	85.3	85.7	86.0
≥ 10000	13.0	65.0	67.7	71.7	77.3	78.7	83.0	84.3	85.0	85.3	86.0	86.0	86.3	86.7	87.0	87.3
≥ 9000	13.0	65.0	67.7	71.7	77.3	78.7	83.0	84.3	85.0	85.3	86.0	86.0	86.3	86.7	87.0	87.3
≥ 8000	13.3	65.3	68.3	72.3	78.0	79.3	83.7	85.0	85.7	86.0	86.7	86.7	87.0	87.3	87.7	88.0
≥ 7000	13.3	65.3	68.3	72.3	78.0	79.3	83.7	85.0	85.7	86.0	86.7	86.7	87.0	87.3	87.7	88.0
≥ 6000	13.3	65.7	68.7	72.7	78.3	79.7	84.0	85.3	86.0	86.3	87.0	87.0	87.3	87.7	88.0	88.3
≥ 5000	13.3	66.3	69.3	73.3	79.0	80.3	84.7	86.0	86.7	87.0	87.7	87.7	88.0	88.3	88.7	89.0
≥ 4500	13.7	67.0	70.0	74.0	79.7	81.0	85.3	86.7	87.3	87.7	88.3	88.3	88.7	89.0	89.3	89.7
≥ 4000	14.0	68.0	71.0	75.0	80.7	82.0	86.3	87.7	88.3	88.7	89.3	89.3	89.7	90.0	90.3	90.7
≥ 3500	14.0	68.0	71.0	75.0	80.7	82.0	86.3	87.7	88.3	88.7	89.3	89.3	89.7	90.0	90.3	90.7
≥ 3000	14.0	69.0	72.0	76.0	81.7	83.3	87.7	89.0	89.7	90.0	90.7	90.7	91.0	91.3	91.7	92.0
≥ 2500	14.3	70.7	73.7	77.7	83.7	85.3	89.7	91.0	91.7	92.0	92.7	92.7	93.0	93.3	93.7	94.0
≥ 2000	14.3	72.3	75.3	79.3	85.3	87.0	91.3	92.7	93.3	93.7	94.3	94.3	94.7	95.0	95.3	95.7
≥ 1800	14.3	72.7	75.7	79.7	85.7	87.3	91.7	93.0	93.7	94.0	94.7	94.7	95.0	95.3	95.7	96.0
≥ 1500	14.3	73.0	76.0	80.3	86.7	88.7	93.3	95.0	95.7	96.0	96.7	96.7	97.0	97.3	97.7	98.0
≥ 1200	14.3	73.0	76.0	80.3	86.7	88.7	93.3	95.3	96.0	96.3	97.0	97.0	97.3	97.7	98.0	98.3
≥ 1000	14.3	73.7	76.7	81.0	87.3	89.3	94.0	96.0	96.7	97.3	98.0	98.0	98.3	98.7	99.0	99.3
≥ 900	14.3	73.7	76.7	81.0	87.3	89.3	94.0	96.0	96.7	97.3	98.0	98.0	98.3	98.7	99.0	99.3
≥ 800	14.3	73.7	76.7	81.0	87.7	89.7	94.3	96.3	97.0	97.7	98.3	98.3	98.7	99.0	99.3	99.7
≥ 700	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
≥ 600	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
≥ 500	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
≥ 400	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
≥ 300	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
≥ 200	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
≥ 100	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0
0	14.3	73.7	76.7	81.0	87.7	90.0	94.7	96.7	97.3	98.0	98.7	98.7	99.0	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

11B — SANTA ANA, CALIFORNIA — 73-82 — NOV

ATION — STATION NAME — YEARS — MONTH

16

HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.7	59.3	63.3	69.0	72.7	74.0	76.0	76.3	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 20000	13.3	67.3	71.7	77.3	81.7	83.3	85.3	85.7	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 18000	13.3	67.3	71.7	77.3	81.7	83.3	85.3	85.7	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 16000	13.3	67.3	71.7	77.3	81.7	83.3	85.3	85.7	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 14000	13.3	68.7	73.3	79.0	83.3	85.0	87.0	87.3	88.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 12000	13.3	69.3	74.0	79.7	84.0	85.7	87.7	88.0	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 10000	13.7	70.0	74.7	80.3	84.7	86.3	88.3	88.7	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 9000	13.7	70.0	74.7	80.3	84.7	86.3	88.3	88.7	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 8000	13.7	70.0	75.0	80.7	85.0	86.7	88.7	89.0	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 7000	13.7	70.0	75.0	80.7	85.0	86.7	88.7	89.0	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 6000	13.7	70.3	75.3	81.0	85.3	87.0	89.0	89.3	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 5000	14.0	71.7	76.7	82.3	86.7	88.3	90.3	90.7	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 4500	14.0	71.7	76.7	82.3	86.7	88.3	90.3	90.7	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 4000	14.0	72.3	77.3	83.0	87.3	89.0	91.0	91.3	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 3500	14.0	72.7	77.7	83.3	87.7	89.3	91.3	91.7	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000	14.0	73.3	78.7	84.3	88.7	90.7	92.7	93.0	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2500	14.3	74.7	80.0	85.7	90.0	92.0	94.0	94.3	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 2000	14.3	77.0	82.3	88.0	92.3	94.3	96.3	96.7	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1800	14.3	77.0	82.3	88.0	92.3	94.3	96.3	96.7	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1500	14.3	77.3	82.7	88.3	93.0	95.0	97.0	97.3	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	14.3	77.7	83.0	88.7	93.3	95.3	97.3	97.7	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	14.3	78.3	83.7	89.3	94.0	96.0	98.0	98.3	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	14.3	78.3	83.7	89.3	94.0	96.0	98.0	98.3	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	14.3	78.7	84.0	89.7	94.3	96.3	98.3	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	14.3	78.7	84.0	89.7	94.3	96.3	98.3	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	14.3	78.7	84.0	89.7	94.3	96.3	98.3	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	14.3	78.7	84.0	89.7	94.3	96.3	98.3	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	14.3	78.7	84.0	89.7	94.3	96.3	98.3	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	14.3	78.7	84.0	89.7	94.3	96.3	98.3	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	14.3	78.7	84.0	89.7	94.3	96.3	98.3	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	14.3	78.7	84.0	89.7	94.3	96.3	98.3	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	14.3	78.7	84.0	89.7	94.3	96.3	98.3	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

1a	SANTA ANA, CALIFORNIA	73-82	NOV	19
FROM	STATION NAME	YEARS	MONTH	HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.0	67.3	69.7	74.7	79.0	79.7	81.0	81.3	81.7	81.3	81.3	81.3	81.7	81.7	82.0	82.0
≥ 20000	6.0	70.3	72.7	78.0	82.3	83.0	84.7	85.0	85.0	85.0	85.0	85.0	85.3	85.3	85.7	85.7
≥ 18000	6.0	70.3	72.7	78.0	82.3	83.0	84.7	85.0	85.0	85.0	85.0	85.0	85.3	85.3	85.7	85.7
≥ 16000	6.0	70.3	72.7	78.0	82.3	83.0	84.7	85.0	85.0	85.0	85.0	85.0	85.3	85.3	85.7	85.7
≥ 14000	6.0	70.7	73.0	78.3	82.7	83.3	85.0	85.3	85.3	85.3	85.3	85.3	85.7	85.7	86.0	86.0
≥ 12000	6.0	71.3	73.7	79.7	84.0	84.7	86.3	86.7	86.7	86.7	86.7	86.7	87.0	87.0	87.3	87.3
≥ 10000	6.0	73.0	75.3	81.3	85.7	86.3	88.0	88.3	88.3	88.3	88.3	88.3	88.7	88.7	89.0	89.0
≥ 9000	6.0	73.0	75.3	81.3	85.7	86.3	88.0	88.3	88.3	88.3	88.3	88.3	88.7	88.7	89.0	89.0
≥ 8000	6.0	73.3	75.7	81.7	86.0	86.7	88.3	88.7	88.7	88.7	88.7	88.7	89.0	89.0	89.3	89.3
≥ 7000	6.0	73.3	75.7	81.7	86.0	86.7	88.3	88.7	88.7	88.7	88.7	88.7	89.0	89.0	89.3	89.3
≥ 6000	6.0	73.3	75.7	81.7	86.0	86.7	88.3	88.7	88.7	88.7	88.7	88.7	89.0	89.0	89.3	89.3
≥ 5000	6.0	73.7	76.0	82.0	86.3	87.0	88.7	89.0	89.0	89.0	89.0	89.0	89.3	89.3	89.7	89.7
≥ 4500	6.0	73.7	76.0	82.0	86.3	87.0	88.7	89.0	89.0	89.0	89.0	89.0	89.3	89.3	89.7	89.7
≥ 4000	6.0	74.3	76.7	82.7	87.0	87.7	89.3	89.7	89.7	89.7	89.7	89.7	90.0	90.0	90.3	90.3
≥ 3500	6.3	74.7	77.0	83.0	87.3	88.0	89.7	90.0	90.0	90.0	90.0	90.0	90.3	90.3	90.7	90.7
≥ 3000	6.3	75.3	78.0	84.0	88.3	89.0	90.7	91.0	91.0	91.0	91.0	91.0	91.3	91.3	91.7	91.7
≥ 2500	6.3	77.0	79.7	85.7	90.0	90.7	92.3	92.7	92.7	92.7	92.7	92.7	93.0	93.0	93.3	93.3
≥ 2000	6.3	79.0	81.7	88.0	92.7	93.3	95.0	95.3	95.3	95.3	95.3	95.3	95.7	95.7	96.0	96.0
≥ 1800	6.3	79.3	82.0	88.3	93.0	93.7	95.3	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.3	96.3
≥ 1500	6.3	80.7	83.3	89.7	94.7	95.3	97.0	97.3	97.3	97.3	97.3	97.3	97.7	97.7	98.0	98.0
≥ 1200	6.3	81.0	83.7	90.0	95.0	95.7	97.3	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.3	98.3
≥ 1000	6.3	81.0	83.7	90.0	95.0	95.7	97.3	97.7	98.0	98.0	98.0	98.0	98.3	98.3	98.7	98.7
≥ 900	6.3	81.0	83.7	90.0	95.0	95.7	97.3	97.7	98.0	98.0	98.0	98.0	98.3	98.3	98.7	98.7
≥ 800	6.3	81.3	84.0	90.3	95.3	96.0	97.7	98.0	98.3	98.3	98.3	98.3	98.7	98.7	99.0	99.0
≥ 700	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.0	99.0	99.3	99.3
≥ 600	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.0	99.0	99.3	99.3
≥ 500	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.0	99.0	99.3	99.3
≥ 400	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.3	99.3	99.7	99.7
≥ 300	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.3	99.3	99.7	99.7
≥ 200	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.3	99.3	99.7	99.7
≥ 100	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.3	99.3	99.7	99.7
0	6.3	81.3	84.0	90.3	95.7	96.3	98.0	98.3	98.7	98.7	98.7	98.7	99.3	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 SANTA ANA, CALIFORNIA 73-82 NOV

ITION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.7	61.3	64.0	67.3	73.3	73.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 20000	5.7	63.3	66.3	70.0	76.3	76.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 18000	5.7	63.3	66.3	70.0	76.3	76.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 16000	5.7	63.3	66.3	70.0	76.3	76.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 14000	5.7	63.7	66.7	70.3	76.7	77.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000	5.7	64.0	67.3	71.0	77.3	77.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 10000	5.7	64.7	68.0	71.7	78.0	78.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000	5.7	64.7	68.0	71.7	78.0	78.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000	5.7	65.0	68.3	72.0	78.3	78.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 7000	5.7	65.0	69.3	72.0	78.3	78.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 6000	5.7	65.0	68.3	72.0	78.3	78.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 5000	5.7	65.3	68.7	72.3	78.7	79.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500	5.7	65.3	68.7	72.3	78.7	79.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4000	5.7	65.3	68.7	72.3	78.	79.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500	5.7	66.0	69.3	73.0	79.3	79.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000	5.7	67.3	71.0	74.7	81.0	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2500	5.7	68.3	72.0	75.7	82.0	82.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2000	5.7	71.7	75.3	79.3	86.0	86.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800	5.7	71.7	75.3	79.3	86.0	86.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500	5.7	74.7	78.3	82.7	90.0	90.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200	5.7	74.7	78.3	83.0	90.7	91.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000	5.7	74.7	78.7	83.7	91.3	91.7	94.7	95.0	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	5.7	74.7	78.7	83.7	91.3	91.7	94.7	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 800	5.7	75.3	79.3	84.7	92.3	92.7	96.0	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	5.7	75.3	79.3	84.7	92.7	93.0	96.7	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	5.7	75.3	79.7	85.0	93.0	93.3	97.0	97.7	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	5.7	75.3	79.7	85.0	93.0	93.3	97.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	5.7	75.3	79.7	85.0	93.0	93.3	97.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	5.7	75.3	79.7	85.3	93.3	93.7	97.3	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.3
≥ 200	5.7	75.3	79.7	85.3	93.3	93.7	97.3	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.3
≥ 100	5.7	75.3	79.7	85.3	93.3	93.7	97.3	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.7
0	5.7	75.3	79.7	85.3	93.3	93.7	97.3	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

11W | SANTA ANA, CALIFORNIA | 73-82 | NOV

ATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 4	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	58.3	61.0	68.4	69.3	69.1	71.0	71.4	71.5	72.1	72.2	72.3	72.5	72.5	72.7	72.8
≥ 20000	9.8	62.2	65.1	68.7	73.0	73.6	75.9	76.3	76.5	77.0	77.2	77.2	77.4	77.5	77.6	77.8
≥ 18000	9.8	62.3	65.2	68.8	73.1	73.9	76.0	76.3	76.5	77.1	77.3	77.3	77.5	77.6	77.7	77.9
≥ 16000	9.8	62.3	65.3	68.8	73.1	74.0	76.0	76.4	76.6	77.2	77.3	77.3	77.5	77.6	77.8	77.9
≥ 14000	9.9	62.8	65.8	69.3	73.7	74.5	76.5	76.9	77.2	77.7	77.8	77.9	78.1	78.2	78.3	78.4
≥ 12000	9.9	63.2	66.6	70.2	74.6	75.4	77.5	77.8	78.1	78.6	78.8	78.8	79.0	79.1	79.2	79.3
≥ 10000	9.9	64.4	67.5	71.2	75.7	76.5	78.6	79.0	79.2	79.8	79.9	79.9	80.1	80.2	80.3	80.5
≥ 9000	9.9	64.4	67.5	71.2	75.7	76.5	78.6	79.0	79.2	79.8	79.9	79.9	80.1	80.2	80.3	80.5
≥ 8000	9.1	64.5	67.9	71.5	76.0	76.9	79.0	79.3	79.6	80.1	80.3	80.3	80.5	80.6	80.7	80.8
≥ 7000	9.1	64.8	68.1	71.8	76.3	77.1	79.2	79.5	79.8	80.3	80.5	80.5	80.7	80.8	80.9	81.0
≥ 6000	9.1	64.9	68.2	71.0	76.3	77.2	79.3	79.6	79.9	80.4	80.5	80.6	80.8	80.9	81.0	81.1
≥ 5000	9.1	65.3	68.5	72.2	76.7	77.5	79.6	80.0	80.3	80.8	80.9	81.0	81.2	81.3	81.4	81.5
≥ 4500	9.2	65.5	68.8	72.5	77.0	77.8	79.9	80.3	80.5	81.0	81.2	81.2	81.4	81.5	81.6	81.8
≥ 4000	9.2	66.2	69.5	73.1	77.6	78.5	80.5	80.9	81.2	81.7	81.8	81.9	82.1	82.2	82.3	82.4
≥ 3500	9.3	66.5	69.8	73.4	78.0	78.8	80.9	81.3	81.5	82.0	82.2	82.2	82.4	82.5	82.6	82.8
≥ 3000	9.4	67.8	71.3	75.0	79.6	80.5	82.7	83.0	83.3	83.8	84.0	84.0	84.2	84.3	84.4	84.5
≥ 2500	9.5	69.2	72.7	76.4	81.1	82.0	84.2	84.5	84.8	85.3	85.5	85.5	85.7	85.8	85.9	86.0
≥ 2000	9.6	72.1	75.7	79.5	84.3	85.3	87.5	87.9	88.1	88.7	88.8	88.8	89.0	89.1	89.3	89.4
≥ 1800	9.6	72.2	75.8	79.6	84.5	85.5	87.8	88.2	88.4	89.0	89.1	89.1	89.3	89.4	89.5	89.7
≥ 1500	9.6	73.3	77.2	81.4	86.8	87.9	90.2	90.6	90.9	91.5	91.6	91.6	91.8	91.9	92.0	92.2
≥ 1200	9.6	73.6	77.5	81.8	87.3	88.3	90.8	91.3	91.6	92.1	92.3	92.3	92.5	92.6	92.7	92.8
≥ 1000	9.6	74.0	78.0	82.3	87.9	89.0	91.8	92.4	92.8	93.4	93.5	93.6	93.8	93.9	94.0	94.1
≥ 900	9.6	74.0	78.0	82.4	88.0	89.1	91.9	92.6	93.0	93.6	93.8	93.8	94.0	94.1	94.3	94.4
≥ 800	9.6	74.3	78.3	82.7	88.5	89.6	92.5	93.3	93.8	94.6	94.8	94.8	95.0	95.1	95.2	95.3
≥ 700	9.6	74.3	78.3	82.8	88.8	89.9	92.8	93.8	94.3	95.2	95.4	95.4	95.6	95.7	95.8	96.0
≥ 600	9.6	74.3	78.4	82.8	88.8	90.0	93.2	94.0	94.5	95.4	95.7	95.7	95.9	96.0	96.1	96.3
≥ 500	9.6	74.3	78.4	82.9	89.0	90.2	93.5	94.4	95.0	95.9	96.2	96.3	96.5	96.5	96.7	96.8
≥ 400	9.6	74.3	78.5	83.0	89.1	90.3	93.5	94.5	95.1	96.1	96.5	96.5	96.8	96.8	97.0	97.1
≥ 300	9.6	74.3	78.5	83.0	89.2	90.4	93.7	94.8	95.4	96.5	96.9	97.0	97.3	97.3	97.5	97.8
≥ 200	9.6	74.3	78.5	83.0	89.2	90.4	93.7	94.8	95.5	96.6	97.1	97.1	97.5	97.6	97.8	98.2
≥ 100	9.6	74.3	78.5	83.0	89.2	90.4	93.8	94.9	95.5	96.7	97.2	97.3	97.7	97.8	98.0	98.8
0	9.6	74.3	78.5	83.0	89.2	90.4	93.8	94.9	95.5	96.7	97.2	97.3	97.7	97.8	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 2400

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 (TIME) | SANTA ANA, CALIFORNIA (STATION NAME) | 73-82 (YEARS) | DEC (MONTH)

01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.6	51.9	56.5	60.0	63.6	63.6	66.1	69.4	69.4	69.7	70.3	70.3	70.3	70.3	70.3	70.7
≥ 20000	2.6	52.9	57.7	61.3	65.2	65.8	70.7	72.3	72.3	72.6	73.2	73.2	73.2	73.2	73.2	73.6
≥ 18000	2.6	52.9	57.7	61.3	65.2	65.8	70.7	72.3	72.3	72.6	73.2	73.2	73.2	73.2	73.2	73.6
≥ 16000	2.6	52.9	57.7	61.3	65.2	65.8	70.7	72.3	72.3	72.6	73.2	73.2	73.2	73.2	73.2	73.6
≥ 14000	2.6	53.9	58.7	62.3	66.1	66.8	71.6	73.2	73.2	73.6	74.2	74.2	74.2	74.2	74.2	74.5
≥ 12000	2.6	55.8	60.7	64.2	68.1	68.7	73.6	75.2	75.2	75.5	76.1	76.1	76.1	76.1	76.1	76.5
≥ 10000	2.6	56.5	61.3	64.8	69.4	70.0	74.8	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4
≥ 9000	2.6	56.5	61.3	64.8	69.4	70.0	74.8	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4
≥ 8000	2.6	56.5	61.3	64.8	69.4	70.0	74.8	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4
≥ 7000	2.6	56.5	61.3	64.8	69.4	70.0	74.8	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.4
≥ 6000	2.6	56.5	61.6	65.2	69.7	70.3	75.2	77.1	77.1	77.7	78.5	78.4	78.4	78.4	78.4	78.7
≥ 5000	2.6	57.1	62.3	65.8	70.7	71.3	76.1	78.1	78.1	78.7	79.4	79.4	79.4	79.4	79.4	79.7
≥ 4500	2.6	57.4	62.6	66.1	71.0	71.6	76.5	78.4	78.4	79.0	79.7	79.7	79.7	79.7	79.7	80.0
≥ 4000	2.6	58.1	63.2	66.8	71.6	72.3	77.1	79.0	79.0	79.7	80.3	80.3	80.3	80.3	80.3	80.7
≥ 3500	2.6	58.4	63.6	67.1	71.9	72.6	77.4	79.4	79.4	80.0	80.7	80.7	80.7	80.7	80.7	81.0
≥ 3000	2.6	59.7	64.8	68.4	73.2	73.9	78.7	80.7	80.7	81.3	81.9	81.9	81.9	81.9	81.9	82.3
≥ 2500	2.6	60.7	66.1	70.0	74.8	75.5	80.3	82.3	82.3	82.9	83.6	83.6	83.6	83.6	83.6	83.9
≥ 2000	2.6	62.6	68.1	71.9	76.8	77.4	82.3	84.2	84.2	84.8	85.5	85.5	85.5	85.5	85.5	85.8
≥ 1800	2.6	62.6	68.1	71.9	76.8	77.4	82.3	84.2	84.2	84.8	85.5	85.5	85.5	85.5	85.5	85.8
≥ 1500	2.6	64.5	70.0	74.2	79.4	80.0	84.8	86.8	86.8	87.4	88.1	88.1	88.1	88.1	88.1	88.4
≥ 1200	2.6	64.8	70.7	74.8	80.3	81.0	85.8	88.1	88.1	88.7	89.4	89.4	89.4	89.4	89.4	89.7
≥ 1000	2.6	66.1	71.9	76.5	82.3	83.2	88.1	90.3	90.3	91.0	91.6	91.6	91.6	91.6	91.6	91.9
≥ 900	2.6	66.1	72.3	76.8	82.6	83.6	88.4	90.7	90.7	91.6	92.3	92.3	92.3	92.3	92.3	92.6
≥ 800	2.6	66.5	72.6	77.1	82.9	83.9	88.7	91.0	91.0	91.9	92.6	92.6	92.6	92.6	92.6	92.9
≥ 700	2.6	66.5	72.6	77.1	82.9	83.9	88.7	91.0	91.3	92.3	92.9	92.9	92.9	92.9	92.9	93.2
≥ 600	2.6	66.5	72.6	77.1	82.9	83.9	88.7	91.0	91.3	92.3	92.9	92.9	92.9	92.9	92.9	93.2
≥ 500	2.6	66.5	72.6	77.1	82.9	83.9	88.7	91.0	91.3	92.3	93.2	93.2	93.2	93.2	93.2	93.6
≥ 400	2.6	66.5	72.6	77.1	82.9	83.9	88.7	91.0	91.3	92.3	93.2	93.2	93.2	93.2	93.2	93.6
≥ 300	2.6	66.5	72.9	77.4	83.2	84.2	89.0	91.3	91.6	92.9	93.9	93.9	93.9	93.9	93.9	94.2
≥ 200	2.6	66.5	72.9	77.4	83.2	84.2	89.0	91.3	91.6	93.6	94.5	94.5	94.5	94.5	94.5	94.8
≥ 100	2.6	66.5	72.9	77.4	83.2	84.2	89.0	91.3	91.6	93.6	94.5	94.5	94.5	94.5	94.8	95.8
0	2.6	66.5	72.9	77.4	83.2	84.2	89.0	91.3	91.6	93.6	94.5	94.5	94.5	94.5	94.8	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

4 SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) DEC (MONTH)

04 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.6	52.9	59.0	59.7	63.2	63.2	65.8	66.5	66.5	66.5	66.8	66.8	67.4	67.4	67.4	68.1
≥ 20000	3.6	54.8	61.0	61.6	65.5	65.8	68.4	69.0	69.0	69.0	69.4	69.4	70.0	70.0	70.0	70.7
≥ 18000	3.6	54.8	61.0	61.6	65.5	65.8	68.4	69.0	69.0	69.0	69.4	69.4	70.0	70.0	70.0	70.7
≥ 16000	3.6	54.8	61.0	61.6	65.5	65.8	68.4	69.0	69.0	69.0	69.4	69.4	70.0	70.0	70.0	70.7
≥ 14000	3.6	55.2	61.3	61.9	65.8	66.1	68.7	69.4	69.4	69.4	69.7	69.7	70.3	70.3	70.3	71.0
≥ 12000	3.6	56.1	62.3	62.9	66.8	67.1	69.7	70.3	70.3	70.3	70.7	70.7	71.3	71.3	71.3	71.9
≥ 10000	3.6	56.5	62.6	63.2	67.1	67.4	70.3	71.0	71.0	71.0	71.3	71.3	71.9	71.9	71.9	72.6
≥ 9000	3.6	56.5	62.6	63.2	67.1	67.4	70.3	71.0	71.0	71.0	71.3	71.3	71.9	71.9	71.9	72.6
≥ 8000	3.6	56.5	62.6	63.2	67.1	67.4	70.3	71.0	71.0	71.0	71.3	71.3	71.9	71.9	71.9	72.6
≥ 7000	3.6	56.5	62.6	63.2	67.1	67.4	70.3	71.0	71.0	71.0	71.3	71.3	71.9	71.9	71.9	72.6
≥ 6000	3.6	56.5	62.6	63.2	67.1	67.4	70.3	71.0	71.0	71.0	71.3	71.3	71.9	71.9	71.9	72.6
≥ 5000	3.6	56.5	62.6	63.2	67.1	67.4	70.3	71.0	71.0	71.0	71.3	71.3	71.9	71.9	71.9	72.6
≥ 4500	3.6	56.8	62.9	63.6	67.4	67.7	70.7	71.3	71.3	71.3	71.6	71.6	72.3	72.3	72.3	72.9
≥ 4000	3.6	56.8	62.9	63.9	67.7	68.1	71.0	71.6	71.6	71.6	71.9	71.9	72.6	72.6	72.6	73.2
≥ 3500	3.6	57.1	63.2	64.2	68.1	68.4	71.3	71.9	71.9	71.9	72.3	72.3	72.9	72.9	72.9	73.5
≥ 3000	3.6	58.1	64.5	65.5	69.4	69.7	72.6	73.2	73.2	73.2	73.6	73.6	74.2	74.2	74.2	74.8
≥ 2500	3.6	60.3	66.8	68.1	71.9	72.3	75.2	75.8	75.8	75.8	76.1	76.1	76.8	76.8	76.8	77.4
≥ 2000	3.6	62.6	69.4	70.7	74.5	74.8	77.7	78.4	78.4	78.4	78.7	78.7	79.4	79.4	79.4	80.0
≥ 1800	3.6	62.9	70.0	71.3	75.2	75.5	78.4	79.0	79.0	79.0	79.4	79.4	80.0	80.0	80.0	80.7
≥ 1500	3.6	65.5	72.6	74.5	78.4	78.7	81.9	82.6	82.6	82.6	82.9	82.9	83.6	83.6	83.6	84.2
≥ 1200	3.6	65.5	72.9	74.8	78.7	79.0	82.3	83.2	83.6	83.6	83.9	83.9	84.5	84.5	84.5	85.2
≥ 1000	3.6	66.1	73.6	75.5	80.6	80.3	84.5	85.5	85.8	86.1	86.5	86.5	87.1	87.1	87.1	87.7
≥ 900	3.6	66.1	73.6	75.5	80.6	80.3	84.5	85.5	85.8	86.5	86.8	86.8	87.4	87.4	87.4	88.1
≥ 800	3.6	66.1	73.9	75.8	80.7	81.0	85.2	86.1	86.5	87.1	87.4	87.4	88.1	88.1	88.1	88.7
≥ 700	3.6	66.5	74.5	76.5	81.3	81.6	85.8	86.8	87.1	87.7	88.1	88.1	88.7	88.7	88.7	89.4
≥ 600	3.6	66.5	74.5	76.5	81.6	81.9	86.1	87.1	87.4	88.1	88.4	88.4	89.0	89.0	89.0	89.7
≥ 500	3.6	66.8	74.8	76.8	81.9	82.3	86.5	87.4	88.1	88.7	89.0	89.0	89.7	89.7	89.7	90.3
≥ 400	3.6	66.8	74.8	76.8	81.9	82.3	86.5	87.4	88.1	88.7	89.0	89.0	89.7	89.7	89.7	90.3
≥ 300	3.6	66.8	74.8	76.8	81.9	82.3	87.1	88.1	88.7	89.7	90.0	90.0	90.7	90.7	90.7	91.3
≥ 200	3.6	66.8	74.8	76.8	81.9	82.3	87.1	88.1	88.7	89.7	90.0	90.0	90.7	90.7	91.0	91.6
≥ 100	3.6	66.8	74.8	76.8	81.9	82.3	87.1	88.1	88.7	89.7	90.3	90.3	91.0	91.0	91.9	93.9
0	3.6	66.9	74.8	76.8	81.9	82.3	87.1	88.1	88.7	89.7	90.3	90.3	91.0	91.0	91.9	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

14 SANTA ANA, CALIFORNIA 73-82 DEC
ON STATION NAME YEARS MONTH

07
HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.1	50.0	54.2	56.5	58.7	58.7	60.7	61.3	61.6	62.6	62.9	62.9	63.2	63.2	63.2	63.9
≥ 20000	6.8	52.9	57.4	59.7	61.9	61.9	63.9	64.5	64.8	65.8	66.1	66.1	66.5	66.5	66.5	67.1
≥ 18000	6.8	52.9	57.7	60.0	62.3	62.3	64.2	64.8	65.2	66.1	66.5	66.5	66.8	66.8	66.8	67.4
≥ 16000	6.8	52.9	57.7	60.0	62.3	62.3	64.2	64.8	65.2	66.1	66.5	66.5	66.8	66.8	66.8	67.4
≥ 14000	6.8	53.6	58.4	60.7	62.9	62.9	64.8	65.5	65.8	66.8	67.1	67.1	67.4	67.4	67.4	68.1
≥ 12000	6.8	54.2	59.0	61.3	63.6	63.6	65.5	66.1	66.5	67.4	67.7	67.7	68.1	68.1	68.1	68.7
≥ 10000	7.1	55.2	60.0	62.6	65.2	65.2	67.4	68.1	68.4	69.4	69.7	69.7	70.0	70.0	70.0	70.7
≥ 9000	7.1	55.2	60.0	62.6	65.2	65.2	67.4	68.1	68.4	69.4	69.7	69.7	70.0	70.0	70.0	70.7
≥ 8000	7.1	55.2	60.0	62.6	65.2	65.2	67.4	68.1	68.4	69.4	69.7	69.7	70.0	70.0	70.0	70.7
≥ 7000	7.1	55.2	60.0	62.9	65.5	65.5	67.7	68.4	68.7	69.7	70.0	70.0	70.3	70.3	70.3	71.0
≥ 6000	7.1	55.2	60.0	62.9	65.5	65.5	67.7	68.4	68.7	69.7	70.0	70.0	70.3	70.3	70.3	71.0
≥ 5000	7.1	55.5	60.3	63.2	65.8	65.8	68.1	68.7	69.0	70.0	70.3	70.3	70.7	70.7	70.7	71.3
≥ 4500	7.1	55.8	60.7	63.6	66.1	66.1	68.4	69.0	69.4	70.3	70.7	70.7	71.0	71.0	71.0	71.6
≥ 4000	7.8	56.1	61.0	63.9	66.8	66.8	69.0	69.7	70.0	71.0	71.3	71.3	71.6	71.6	71.6	72.3
≥ 3500	7.8	56.1	61.0	63.9	66.8	66.8	69.0	69.7	70.0	71.0	71.3	71.3	71.6	71.6	71.6	72.3
≥ 3000	7.8	57.1	61.9	64.8	67.7	68.1	70.3	71.0	71.3	72.3	72.6	72.6	72.9	72.9	72.9	73.6
≥ 2500	7.7	59.7	64.5	67.4	70.3	70.7	72.9	73.6	73.9	74.8	75.2	75.2	75.5	75.5	75.5	76.1
≥ 2000	7.7	61.3	66.5	69.4	72.3	72.6	75.2	75.8	76.1	77.1	77.4	77.4	77.7	77.7	77.7	78.4
≥ 1800	7.7	61.9	67.1	70.0	72.9	73.2	76.1	76.8	77.1	78.1	78.4	78.4	78.7	78.7	78.7	79.4
≥ 1500	7.7	62.6	68.1	71.6	74.8	75.2	78.7	79.4	79.7	81.3	81.6	81.6	81.9	81.9	81.9	82.6
≥ 1200	7.7	62.6	68.1	71.9	75.2	75.5	79.4	80.0	80.3	82.3	82.9	82.9	83.2	83.2	83.2	83.9
≥ 1000	7.7	63.6	69.7	73.9	77.4	78.1	82.3	83.2	83.6	85.5	86.1	86.1	86.5	86.5	86.5	87.1
≥ 900	7.7	63.6	69.7	73.9	77.4	78.1	82.6	83.9	84.2	86.1	86.8	86.8	87.1	87.1	87.1	87.7
≥ 800	7.7	63.6	69.7	74.2	77.1	79.0	83.9	85.2	85.5	87.4	88.1	88.1	88.4	88.4	88.4	89.0
≥ 700	7.7	63.9	70.0	74.5	78.4	79.4	84.5	85.8	86.1	88.1	88.7	88.7	89.0	89.0	89.0	89.7
≥ 600	7.7	63.9	70.0	74.5	78.4	79.4	84.8	86.1	86.5	88.4	89.0	89.0	89.4	89.4	89.4	90.0
≥ 500	7.7	63.9	70.0	74.5	78.4	79.4	84.8	86.1	86.5	88.4	89.0	89.0	89.7	89.7	89.7	90.3
≥ 400	7.7	64.2	70.3	74.8	78.7	79.7	85.2	86.5	86.8	89.0	89.7	89.7	90.3	90.3	90.3	91.0
≥ 300	7.7	64.2	70.3	74.8	78.7	79.7	85.2	86.5	86.8	89.0	89.7	89.7	90.7	90.7	90.7	91.3
≥ 200	7.7	64.2	70.3	74.8	78.7	79.7	85.2	86.5	86.8	89.4	90.0	90.0	91.0	91.0	91.0	92.9
≥ 100	7.7	64.2	70.3	74.8	78.7	79.7	85.2	86.5	86.8	89.4	90.0	90.0	91.3	91.3	91.3	94.8
0	7.7	64.2	70.3	74.8	78.7	79.7	85.2	86.5	86.8	89.4	90.0	90.0	91.3	91.3	91.3	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7116	SANTA ANA, CALIFORNIA	73-82	DEC
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1[illegible].0	65.5	69.7	53.2	57.1	57.7	59.4	61.3	61.9	65.2	67.6	63.6	63.6	63.6	63.6	63.6
≥ 20000	1[illegible].7	49.7	54.2	58.1	61.9	62.6	64.8	67.4	68.1	70.0	70.3	70.3	70.7	70.3	70.7	70.7
≥ 18000	10.7	50.3	54.9	58.7	62.6	63.2	65.5	68.1	68.7	70.7	71.0	71.0	71.0	71.0	71.3	71.3
≥ 16000	10.7	50.3	54.9	58.7	62.6	63.2	65.5	68.1	68.7	70.7	71.0	71.0	71.0	71.0	71.3	71.3
≥ 14000	10.7	52.3	55.9	60.7	64.5	65.2	67.7	70.3	71.0	73.2	73.6	73.6	73.6	73.6	73.9	73.9
≥ 12000	11.0	52.6	57.4	61.3	65.2	65.8	68.4	71.3	71.9	74.2	74.5	74.5	74.5	74.5	74.8	74.8
≥ 10000	11.0	54.5	59.4	63.2	67.1	67.7	70.3	73.6	74.2	76.5	76.8	76.8	76.8	76.8	77.1	77.1
≥ 9000	11.0	54.5	59.4	63.2	67.1	67.7	70.3	73.6	74.2	76.5	76.8	76.8	76.8	76.8	77.1	77.1
≥ 8000	11.0	54.8	59.7	63.6	67.4	68.1	70.7	73.9	74.5	76.8	77.1	77.1	77.1	77.1	77.4	77.4
≥ 7000	11.0	54.8	59.7	63.6	67.4	68.1	70.7	73.9	74.5	76.8	77.1	77.1	77.1	77.1	77.4	77.4
≥ 6000	11.0	54.8	59.7	63.6	67.4	68.1	70.7	73.9	74.5	76.8	77.1	77.1	77.1	77.1	77.4	77.4
≥ 5000	11.0	54.8	59.7	63.6	67.4	68.1	70.7	73.9	74.5	76.8	77.1	77.1	77.1	77.1	77.4	77.4
≥ 4500	11.0	55.2	60.0	63.9	67.7	68.4	71.0	74.2	74.8	77.1	77.4	77.4	77.4	77.4	77.7	77.7
≥ 4000	11.0	55.2	60.7	64.5	68.4	69.0	71.6	74.8	75.5	77.7	78.1	78.1	78.1	78.1	78.4	78.4
≥ 3500	11.0	56.5	61.3	65.2	69.0	69.7	72.3	75.5	76.1	78.4	78.7	78.7	78.7	78.7	79.0	79.0
≥ 3000	11.0	57.1	61.9	65.8	69.7	70.3	73.2	76.5	77.1	79.4	79.7	79.7	79.7	79.7	80.0	80.0
≥ 2500	11.0	59.4	64.2	68.7	72.9	73.9	76.8	80.0	80.7	82.9	83.2	83.2	83.2	83.2	83.6	83.6
≥ 2000	11.[illegible]	60.7	66.[illegible]	71.0	75.5	76.5	79.4	82.6	83.2	85.5	85.8	85.8	85.8	85.8	86.1	86.1
≥ 1800	11.[illegible]	60.7	66.5	71.0	75.5	76.5	79.4	82.6	83.2	85.5	85.8	85.8	85.8	85.8	86.1	86.1
≥ 1500	11.[illegible]	61.9	67.7	73.2	79.1	79.[illegible]	81.9	85.2	85.9	88.7	89.4	89.4	89.4	89.4	89.7	89.7
≥ 1200	11.[illegible]	62.3	68.1	73.6	78.4	79.4	82.3	85.5	86.1	89.0	90.0	90.0	90.0	90.0	90.3	90.3
≥ 1000	11.0	63.6	69.4	74.8	79.7	80.7	83.9	87.1	87.7	91.0	91.9	91.9	91.9	91.9	92.3	92.3
≥ 900	11.0	63.6	69.4	74.8	79.7	80.7	83.9	87.1	87.7	91.0	91.9	91.9	91.9	91.9	92.3	92.3
≥ 800	11.0	63.6	69.4	74.8	80.0	81.0	84.5	87.7	88.4	91.6	92.6	92.6	92.6	92.6	92.9	92.9
≥ 700	11.0	63.6	69.4	74.8	80.0	81.0	84.5	87.7	88.4	91.8	92.6	92.6	92.6	92.6	92.9	92.9
≥ 600	11.0	63.6	69.4	74.8	80.0	81.0	84.5	88.1	88.7	91.9	92.9	92.9	92.9	92.9	93.2	93.2
≥ 500	11.0	63.6	69.4	74.8	80.0	81.0	84.8	88.1	88.7	91.9	92.9	92.9	92.9	92.9	93.2	93.2
≥ 400	11.0	63.6	69.4	75.2	80.3	81.3	85.2	88.4	89.4	92.6	93.6	93.6	93.6	93.6	94.2	94.2
≥ 300	11.0	63.6	69.4	75.2	80.3	81.3	85.2	88.4	89.4	92.6	93.9	93.9	93.9	93.9	94.5	94.8
≥ 200	11.0	63.6	69.4	75.2	80.3	81.3	85.2	88.4	89.4	92.6	93.9	93.9	94.2	94.2	95.5	96.8
≥ 100	11.0	63.6	69.4	75.2	80.3	81.3	85.2	88.4	89.4	92.6	93.9	93.9	94.2	94.2	95.5	97.7
≥ 0	11.0	63.6	69.4	75.2	80.3	81.3	85.2	88.4	89.4	92.6	93.9	93.9	94.2	94.2	95.5	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7114	SANTA ANA, CALIFORNIA	73-77	DEC

HOURS (L S T) 13

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.7	45.5	49.4	53.9	60.0	61.0	63.2	64.8	66.5	69.0	69.7	69.7	69.7	69.7	69.7	69.7
≥ 20000	9.7	51.9	56.5	61.3	68.4	69.7	72.3	74.5	76.1	79.0	79.7	79.7	79.7	79.7	79.7	79.7
≥ 18000	9.7	51.9	56.5	61.3	68.4	69.7	72.3	74.5	76.1	79.0	79.7	79.7	79.7	79.7	79.7	79.7
≥ 16000	9.7	51.9	56.5	61.3	68.4	69.7	72.3	74.5	76.1	79.0	79.7	79.7	79.7	79.7	79.7	79.7
≥ 14000	9.7	52.6	57.1	62.3	69.4	70.7	73.6	75.8	77.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 12000	10.0	53.2	57.7	62.9	70.0	71.3	74.2	76.5	78.4	81.3	81.9	81.9	81.9	81.9	81.9	81.9
≥ 10000	10.0	55.2	59.7	64.6	71.9	73.2	76.1	78.4	80.3	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 9000	10.0	55.2	59.7	64.8	71.9	73.2	76.1	78.4	80.3	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 8000	10.0	55.5	60.0	65.2	72.3	73.6	76.5	78.7	80.7	83.6	84.2	84.2	84.2	84.2	84.2	84.2
≥ 7000	10.0	55.5	60.0	65.2	72.3	73.6	76.5	78.7	80.7	83.6	84.2	84.2	84.2	84.2	84.2	84.2
≥ 6000	10.0	55.8	60.3	65.5	72.6	73.9	76.8	79.0	81.0	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 5000	10.0	55.9	60.3	65.5	72.6	73.9	76.8	79.0	81.0	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 4500	10.0	55.9	60.3	65.5	72.9	73.9	76.8	79.0	81.0	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 4000	10.0	56.1	60.7	65.8	72.9	74.2	77.1	79.4	81.3	84.2	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3500	10.0	56.9	61.3	66.5	73.6	74.8	77.7	80.0	81.9	84.8	85.5	85.5	85.5	85.5	85.5	85.5
≥ 3000	10.3	59.4	63.9	69.4	76.5	77.7	80.7	82.9	84.8	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2500	10.3	62.3	66.8	72.6	80.0	81.3	84.2	86.5	88.4	91.3	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000	10.3	63.6	68.1	73.9	81.3	82.6	85.5	87.7	89.7	92.6	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1800	10.3	63.6	68.1	73.9	81.3	82.6	85.5	87.7	89.7	92.6	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1500	10.3	64.2	69.0	75.2	82.6	83.9	86.8	89.7	91.9	95.2	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1200	10.3	64.8	69.7	75.8	83.2	84.5	87.4	90.3	92.6	95.8	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	10.3	65.8	70.7	77.1	85.2	86.5	89.7	92.6	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	10.3	65.8	70.7	77.1	85.2	86.5	89.7	92.6	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	10.3	66.5	71.6	78.1	86.1	87.4	90.7	93.6	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SANTA ANA, CALIFORNIA 73-82 DEC
STATION STATION NAME YEARS MONTH

16
HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.4	55.7	57.9	63.8	68.9	70.6	72.5	73.1	73.9	74.4	75.1	75.1	75.4	75.4	75.4	75.7
≥ 20000	10.4	59.9	62.8	69.3	75.1	76.7	79.0	79.9	80.9	81.9	82.5	82.5	82.9	82.9	82.9	83.2
≥ 18000	10.4	59.9	62.8	69.3	75.4	77.3	79.3	80.3	81.2	82.2	82.9	82.9	83.2	83.2	83.2	83.5
≥ 16000	10.4	59.9	62.8	69.3	75.4	77.0	79.3	80.3	81.2	82.2	82.9	82.9	83.2	83.2	83.2	83.5
≥ 14000	10.7	60.8	63.8	70.6	77.0	78.6	80.9	81.2	83.2	84.1	84.8	84.8	85.1	85.1	85.1	85.4
≥ 12000	10.7	62.1	65.1	71.8	78.3	79.9	82.2	83.5	84.5	85.4	86.1	86.1	86.4	86.4	86.4	86.7
≥ 10000	10.7	64.4	67.3	74.4	80.9	82.9	85.4	86.7	87.7	88.7	89.3	89.3	89.6	89.6	89.6	90.0
≥ 9000	10.7	64.4	67.3	74.4	80.9	82.9	85.4	86.7	87.7	88.7	89.3	89.3	89.6	89.6	89.6	90.0
≥ 8000	10.7	65.1	68.0	75.1	81.6	83.5	86.1	87.4	88.4	89.3	90.0	90.0	90.3	90.3	90.3	90.6
≥ 7000	10.7	65.1	68.0	75.1	81.6	83.5	86.1	87.4	88.4	89.3	90.0	90.0	90.3	90.3	90.3	90.6
≥ 6000	10.7	65.4	68.3	75.4	82.2	84.1	86.7	88.0	89.0	90.0	90.6	90.6	90.9	90.9	90.9	91.3
≥ 5000	10.7	65.4	68.3	75.4	82.2	84.1	86.7	88.0	89.0	90.0	90.6	90.6	90.9	90.9	90.9	91.3
≥ 4500	10.7	65.4	68.3	75.4	82.2	84.1	86.7	88.0	89.0	90.0	90.6	90.6	90.9	90.9	90.9	91.3
≥ 4000	10.7	65.7	68.6	75.7	82.5	84.5	87.1	88.4	89.3	90.3	90.9	90.9	91.3	91.3	91.3	91.6
≥ 3500	10.7	65.7	68.6	75.7	82.5	84.5	87.1	88.4	89.3	90.3	90.9	90.9	91.3	91.3	91.3	91.6
≥ 3000	10.7	67.6	70.5	77.7	84.5	86.4	89.0	90.3	91.3	92.2	92.9	92.9	93.2	93.2	93.2	93.5
≥ 2500	11.0	68.6	71.5	78.6	85.4	87.4	90.0	91.3	92.2	93.2	93.9	93.9	94.2	94.2	94.2	94.5
≥ 2000	11.0	69.6	72.5	79.9	86.7	88.7	91.3	92.6	93.5	94.5	95.2	95.2	95.5	95.5	95.5	95.8
≥ 1800	11.0	69.6	72.5	79.9	86.7	88.7	91.3	92.6	93.5	94.5	95.2	95.2	95.5	95.5	95.5	95.8
≥ 1500	11.3	70.6	73.5	80.9	88.0	90.0	92.6	93.9	95.2	96.1	96.8	96.8	97.1	97.1	97.1	97.4
≥ 1200	11.3	71.2	74.1	81.6	88.7	90.6	93.2	94.5	95.8	96.6	97.4	97.4	97.7	97.7	97.7	98.1
≥ 1000	11.3	71.5	74.8	82.2	89.3	91.6	93.5	96.1	97.1	98.1	98.7	98.7	99.0	99.0	99.0	99.4
≥ 900	11.0	71.5	74.8	82.2	89.3	91.6	93.5	96.1	97.1	98.1	98.7	98.7	99.0	99.0	99.0	99.4
≥ 800	11.0	71.5	74.8	82.5	89.6	91.9	93.8	96.4	97.4	98.4	99.0	99.0	99.4	99.4	99.4	99.7
≥ 700	11.0	71.5	74.8	82.5	89.6	91.9	93.8	96.4	97.4	98.4	99.0	99.0	99.4	99.4	99.4	99.7
≥ 600	11.0	71.5	74.8	82.5	89.6	91.9	93.8	96.4	97.4	98.4	99.0	99.0	99.4	99.4	99.4	99.7
≥ 500	11.0	71.5	74.8	82.5	89.6	91.9	93.8	96.4	97.4	98.4	99.0	99.0	99.4	99.4	99.4	99.7
≥ 400	11.3	71.5	74.8	82.9	90.0	92.2	95.2	96.8	97.7	98.7	99.4	99.4	99.7	99.7	99.7	100.0
≥ 300	11.3	71.5	74.8	82.9	90.0	92.2	95.2	96.8	97.7	98.7	99.4	99.4	99.7	99.7	99.7	100.0
≥ 200	11.3	71.5	74.8	82.9	90.0	92.2	95.2	96.8	97.7	98.7	99.4	99.4	99.7	99.7	99.7	100.0
≥ 100	11.3	71.5	74.8	82.9	90.0	92.2	95.2	96.8	97.7	98.7	99.4	99.4	99.7	99.7	99.7	100.0
≥ 0	11.3	71.5	74.8	82.9	90.0	92.2	95.2	96.8	97.7	98.7	99.4	99.4	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7118 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) DEC (MONTH)

19 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.2	57.9	61.5	65.7	70.9	72.5	73.8	73.8	74.8	75.4	75.7	75.7	76.7	76.7	76.7	76.7
≥ 20000	4.5	60.8	64.4	68.9	74.4	76.1	77.7	77.7	78.6	79.9	80.3	80.3	81.2	81.2	81.2	81.2
≥ 18000	4.5	60.8	64.4	68.9	74.4	76.1	77.7	77.7	78.6	79.9	80.3	80.3	81.2	81.2	81.2	81.2
≥ 16000	4.5	60.8	64.4	68.9	74.4	76.1	77.7	77.7	78.6	79.9	80.3	80.3	81.2	81.2	81.2	81.2
≥ 14000	4.9	62.1	65.7	70.6	76.1	77.7	79.3	79.3	80.3	81.6	81.9	81.9	82.9	82.9	82.9	82.9
≥ 12000	4.9	63.1	67.6	72.5	78.0	79.6	81.2	81.2	82.2	83.5	83.8	83.8	84.8	84.8	84.8	84.8
≥ 10000	4.9	65.7	69.3	74.1	79.9	81.6	83.2	83.2	84.1	85.4	85.8	85.8	86.7	86.7	86.7	86.7
≥ 9000	4.9	65.7	69.3	74.1	79.9	81.6	83.2	83.2	84.1	85.4	85.8	85.8	86.7	86.7	86.7	86.7
≥ 8000	4.9	65.7	69.3	74.1	79.9	81.6	83.5	83.5	84.5	85.8	86.1	86.1	87.1	87.1	87.1	87.1
≥ 7000	4.9	65.7	69.3	74.1	79.9	81.6	83.5	83.5	84.5	85.8	86.1	86.1	87.1	87.1	87.1	87.1
≥ 6000	4.9	65.7	69.3	74.1	79.9	81.6	83.5	83.5	84.5	85.8	86.1	86.1	87.1	87.1	87.1	87.1
≥ 5000	4.9	67.0	70.6	75.4	81.2	82.9	84.8	84.8	85.8	87.1	87.4	87.4	88.4	88.4	88.4	88.4
≥ 4500	4.9	67.3	70.9	75.7	81.6	83.2	85.1	85.1	86.1	87.4	87.7	87.7	88.7	88.7	88.7	88.7
≥ 4000	4.9	68.0	71.5	76.4	82.2	83.8	85.8	85.8	86.7	88.0	88.4	88.4	89.3	89.3	89.3	89.3
≥ 3500	4.9	68.3	71.8	76.7	82.5	84.1	86.1	86.1	87.1	88.4	88.7	88.7	89.6	89.6	89.6	89.6
≥ 3000	4.9	70.9	74.4	79.3	85.1	86.7	88.7	88.7	89.6	90.9	91.3	91.3	92.2	92.2	92.2	92.2
≥ 2500	4.9	71.9	75.4	80.3	86.1	87.7	90.0	90.0	90.9	92.2	92.6	92.6	93.5	93.5	93.5	93.5
≥ 2000	4.9	73.1	77.0	81.9	88.0	89.6	91.9	91.9	92.9	94.2	94.5	94.5	95.5	95.5	95.5	95.5
≥ 1800	4.9	73.1	77.0	81.9	88.0	89.6	91.9	91.9	92.9	94.2	94.5	94.5	95.5	95.5	95.5	95.5
≥ 1500	4.9	74.1	78.3	83.5	89.6	91.3	93.5	93.5	94.5	95.8	96.1	96.1	97.1	97.1	97.1	97.1
≥ 1200	4.9	74.1	78.3	83.8	90.0	91.6	93.9	93.9	94.8	96.1	96.4	96.4	97.4	97.4	97.4	97.4
≥ 1000	4.9	74.8	79.3	84.5	90.6	92.2	94.5	94.5	95.5	96.8	97.1	97.1	98.1	98.1	98.1	98.1
≥ 900	4.9	74.8	79.3	84.5	90.6	92.2	94.5	94.5	95.5	96.8	97.1	97.1	98.1	98.1	98.1	98.1
≥ 800	4.9	74.8	79.3	84.8	90.9	92.6	94.8	94.8	95.8	97.1	97.4	97.4	98.4	98.4	98.4	98.4
≥ 700	4.9	74.8	79.3	84.8	90.9	92.6	94.8	94.8	95.8	97.1	97.4	97.4	98.4	98.4	98.4	98.4
≥ 600	4.9	74.8	79.3	84.8	90.9	92.6	94.8	94.8	95.8	97.1	97.4	97.4	98.4	98.4	98.4	98.4
≥ 500	4.9	75.1	79.6	85.1	91.3	92.9	95.2	95.2	96.1	97.4	98.1	98.1	99.0	99.0	99.0	99.0
≥ 400	4.9	75.1	79.6	85.1	91.3	92.9	95.2	95.2	96.1	97.4	98.1	98.1	99.0	99.0	99.0	99.0
≥ 300	4.9	75.1	79.6	85.1	91.3	92.9	95.2	95.2	96.4	97.7	98.4	98.4	99.4	99.4	99.4	99.4
≥ 200	4.9	75.1	79.6	85.1	91.3	92.9	95.2	95.2	96.4	97.7	98.4	98.4	99.4	99.4	99.4	99.4
≥ 100	4.9	75.1	79.6	85.1	91.3	92.9	95.2	95.2	96.4	97.7	98.4	98.4	99.4	99.4	99.4	99.4
≥ 0	4.9	75.1	79.6	85.1	91.3	92.9	95.2	95.2	96.4	97.7	98.4	98.4	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

114 STATION | SANTA ANA, CALIFORNI. STATION NAME | 73-82 YEARS | DEC MONTH

72 HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.4	53.4	58.6	61.5	66.2	67.6	70.2	71.2	71.8	72.5	72.5	72.8	72.8	72.8	72.8	72.8
≥ 20000	3.4	56.1	61.2	64.1	68.9	71.2	74.1	75.1	75.7	77.0	77.7	77.7	77.7	77.7	77.7	77.7
≥ 18000	3.5	56.1	61.2	64.1	68.9	71.2	74.1	75.1	75.7	77.0	77.7	77.7	77.7	77.7	77.7	77.7
≥ 16000	3.6	56.1	61.2	64.1	68.9	71.2	74.1	75.1	75.7	77.0	77.7	77.7	77.7	77.7	77.7	77.7
≥ 14000	3.6	57.9	63.1	66.0	70.9	73.5	76.4	77.4	78.0	79.3	79.9	79.9	79.9	79.9	79.9	79.9
≥ 12000	3.6	59.2	64.4	67.3	72.2	74.8	77.7	78.6	79.3	80.6	81.2	81.2	81.2	81.2	81.2	81.2
≥ 10000	3.6	60.2	65.4	68.3	73.1	75.7	79.0	79.9	80.9	82.2	82.9	82.9	82.9	82.9	82.9	82.9
≥ 9000	3.6	60.2	65.4	68.3	73.1	75.7	79.0	79.9	80.9	82.2	82.9	82.9	82.9	82.9	82.9	82.9
≥ 8000	3.6	61.2	66.3	69.3	74.1	76.7	79.9	80.9	81.9	83.2	83.8	83.8	83.8	83.8	83.8	83.8
≥ 7000	3.6	61.2	66.3	69.3	74.1	76.7	79.9	80.9	81.9	83.2	83.8	83.8	83.8	83.8	83.8	83.8
≥ 6000	3.6	61.2	66.3	69.3	74.1	76.7	79.9	80.9	81.9	83.2	83.8	83.8	83.8	83.8	83.8	83.8
≥ 5000	3.6	61.5	66.7	69.6	74.4	77.0	80.3	81.2	82.2	83.5	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4500	3.6	61.5	66.7	69.6	74.4	77.0	80.3	81.2	82.2	83.5	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4000	3.6	62.1	67.3	70.2	75.1	77.7	81.2	82.2	83.2	84.5	85.1	85.1	85.1	85.1	85.1	85.1
≥ 3500	3.6	62.5	67.6	70.6	75.4	78.0	81.6	82.5	83.5	84.8	85.4	85.4	85.4	85.4	85.4	85.4
≥ 3000	3.6	63.8	68.9	71.8	76.7	79.3	82.9	83.8	84.8	86.1	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500	3.6	64.4	69.9	72.8	77.7	80.3	83.8	84.8	85.8	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2000	3.6	67.6	73.5	76.4	81.6	84.1	87.7	88.7	89.6	90.9	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800	3.6	67.6	73.5	76.4	81.6	84.1	87.7	88.7	89.6	90.9	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1500	3.6	68.3	74.8	78.3	84.1	86.7	90.3	91.3	92.2	93.5	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1200	3.6	68.3	74.8	78.3	84.1	86.7	90.3	91.3	92.2	93.5	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000	3.6	69.3	75.7	79.3	85.1	87.7	91.3	92.2	93.2	94.5	95.2	95.2	95.2	95.2	95.2	95.2
≥ 900	3.6	69.6	76.1	79.6	85.4	88.0	91.6	92.6	93.5	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.2	94.2	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.2	94.2	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.2	94.5	95.8	96.4	96.4	96.4	96.4	96.4	96.4
≥ 500	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.2	94.5	95.8	96.4	96.4	96.4	96.4	96.4	96.4
≥ 400	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.2	94.5	95.8	96.4	96.4	96.4	96.4	96.4	96.4
≥ 300	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.2	94.5	95.8	96.4	96.4	96.4	96.4	96.4	96.4
≥ 200	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.5	94.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 100	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.5	94.8	96.1	96.8	96.8	96.8	96.8	96.8	97.1
0	3.6	70.2	76.7	80.3	86.1	88.7	92.2	93.5	94.8	96.1	96.8	96.8	96.8	96.8	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS 774

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.2	51.6	55.8	59.3	63.5	64.4	66.7	67.7	68.3	69.2	69.6	69.6	69.9	69.9	69.9	70.1
≥ 20000	6.5	54.9	59.4	63.0	67.7	68.7	71.3	72.6	73.2	74.4	74.9	74.9	75.2	75.2	75.2	75.5
≥ 18000	6.5	55.0	59.5	63.1	67.8	68.9	71.5	72.7	73.4	74.6	75.1	75.1	75.3	75.3	75.4	75.6
≥ 16000	6.5	55.0	59.5	63.1	67.8	68.9	71.5	72.7	73.4	74.6	75.1	75.1	75.3	75.3	75.4	75.6
≥ 14000	6.5	56.0	60.6	64.4	69.1	70.2	72.9	74.1	74.8	76.1	76.5	76.5	76.8	76.8	76.9	77.1
≥ 12000	6.6	57.2	61.8	65.5	70.3	71.3	74.0	75.3	76.0	77.3	77.8	77.8	78.0	78.0	78.1	78.3
≥ 10000	6.7	58.5	63.1	66.9	71.8	73.0	75.8	77.2	77.9	79.2	79.7	79.7	80.0	80.0	80.0	80.3
≥ 9000	6.7	58.5	63.1	66.9	71.8	73.0	75.8	77.2	77.9	79.2	79.7	79.7	80.0	80.0	80.0	80.3
≥ 8000	6.7	58.8	63.4	67.2	72.1	73.2	76.1	77.5	78.2	79.5	80.0	80.0	80.3	80.3	80.3	80.6
≥ 7000	6.7	58.8	63.4	67.3	72.1	73.3	76.2	77.6	78.3	79.6	80.1	80.1	80.3	80.3	80.4	80.6
≥ 6000	6.7	58.9	63.5	67.4	72.3	73.4	76.3	77.7	78.4	79.7	80.2	80.2	80.5	80.5	80.5	80.8
≥ 5000	6.7	59.2	63.8	67.7	72.7	73.8	76.7	78.1	78.8	80.1	80.6	80.6	80.9	80.9	80.9	81.2
≥ 4500	6.7	59.4	64.0	67.9	72.9	74.0	76.9	78.3	79.0	80.3	80.8	80.8	81.1	81.1	81.1	81.4
≥ 4000	6.7	59.6	64.5	68.4	73.4	74.5	77.5	78.9	79.6	80.9	81.4	81.4	81.6	81.6	81.7	81.9
≥ 3500	6.7	60.2	64.8	68.7	73.7	74.9	77.8	79.2	79.9	81.2	81.7	81.7	82.0	82.0	82.0	82.2
≥ 3000	6.7	61.7	66.4	70.3	75.3	76.5	79.5	80.9	81.6	82.9	83.4	83.4	83.7	83.7	83.7	83.9
≥ 2500	6.8	63.4	68.2	72.3	77.4	78.6	81.6	83.0	83.7	85.0	85.5	85.5	85.8	85.8	85.8	86.1
≥ 2000	6.8	65.1	70.2	74.4	79.6	80.8	83.9	85.2	86.0	87.2	87.7	87.7	88.0	88.0	88.1	88.3
≥ 1800	6.8	65.2	70.3	74.5	79.7	80.9	84.1	85.4	86.2	87.4	87.9	87.9	88.2	88.2	88.3	88.5
≥ 1500	6.8	66.5	71.7	76.4	81.9	83.1	86.3	87.8	88.6	90.1	90.6	90.6	90.9	90.9	90.9	91.2
≥ 1200	6.8	66.7	72.1	76.8	82.3	83.5	86.8	88.4	89.2	90.7	91.3	91.3	91.6	91.6	91.6	91.9
≥ 1000	6.8	67.6	73.1	78.0	83.7	85.0	88.6	90.2	91.0	92.6	93.2	93.2	93.5	93.5	93.5	93.8
≥ 900	6.9	67.6	73.2	78.0	83.8	85.1	88.7	90.4	91.2	92.9	93.5	93.5	93.7	93.7	93.8	94.0
≥ 800	6.9	67.8	73.5	78.4	84.3	85.7	89.3	91.0	91.8	93.5	94.2	94.2	94.4	94.4	94.5	94.7
≥ 700	6.8	67.9	73.6	78.6	84.4	85.8	89.5	91.2	92.1	93.7	94.4	94.4	94.6	94.6	94.7	94.9
≥ 600	6.8	67.9	73.6	78.6	84.5	85.8	89.6	91.3	92.2	93.9	94.5	94.5	94.8	94.8	94.8	95.1
≥ 500	6.8	68.0	73.7	78.6	84.5	85.9	89.7	91.4	92.3	94.0	94.7	94.7	95.0	95.0	95.1	95.3
≥ 400	6.8	68.0	73.7	78.6	84.7	86.0	89.8	91.5	92.5	94.2	94.9	94.9	95.2	95.2	95.3	95.6
≥ 300	6.8	68.0	73.8	78.8	84.7	86.1	90.0	91.6	92.7	94.5	95.2	95.2	95.6	95.6	95.6	95.9
≥ 200	6.8	68.0	73.8	78.8	84.7	86.1	90.0	91.6	92.7	94.6	95.4	95.4	95.8	95.8	96.0	96.5
≥ 100	6.8	68.0	73.8	78.8	84.7	86.1	90.0	91.6	92.7	94.6	95.4	95.4	95.8	95.8	96.2	97.3
0	6.8	68.0	73.8	78.8	84.7	86.1	90.0	91.6	92.7	94.6	95.4	95.4	95.8	95.8	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 2477

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible]114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS) ALL (MONTH) ALL (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.0	53.1	56.4	58.9	61.5	62.1	63.1	63.5	63.7	63.9	64.0	64.0	64.1	64.1	64.1	64.2
≥ 20000	7.1	55.5	58.8	61.6	64.3	64.9	66.1	66.5	66.7	67.0	67.1	67.1	67.2	67.2	67.2	67.3
≥ 18000	7.1	55.6	59.0	61.7	64.4	65.0	66.2	66.7	66.8	67.1	67.2	67.2	67.3	67.3	67.3	67.4
≥ 16000	7.1	55.6	59.0	61.7	64.4	65.1	66.2	66.7	66.8	67.2	67.2	67.2	67.3	67.3	67.4	67.4
≥ 14000	7.2	56.0	59.5	62.2	65.0	65.6	66.8	67.3	67.4	67.7	67.8	67.8	67.9	67.9	67.9	68.0
≥ 12000	7.2	56.7	60.1	62.9	65.7	66.4	67.6	68.0	68.2	68.5	68.6	68.6	68.7	68.7	68.7	68.8
≥ 10000	7.3	57.7	61.2	64.1	66.9	67.6	68.8	69.3	69.5	69.8	69.9	69.9	69.9	70.0	70.0	70.1
≥ 9000	7.3	57.7	61.3	64.1	66.9	67.6	68.9	69.3	69.5	69.8	69.9	69.9	70.0	70.0	70.0	70.1
≥ 8000	7.3	58.2	61.8	64.7	67.5	68.2	69.4	69.9	70.1	70.4	70.5	70.5	70.6	70.6	70.6	70.7
≥ 7000	7.3	58.5	62.0	64.9	67.8	68.4	69.7	70.2	70.4	70.7	70.8	70.8	70.8	70.9	70.9	71.0
≥ 6000	7.4	58.6	62.2	65.1	68.0	68.6	69.9	70.4	70.6	70.9	71.0	71.0	71.0	71.1	71.1	71.2
≥ 5000	7.4	59.1	62.7	65.6	68.4	69.1	70.4	70.9	71.1	71.4	71.5	71.5	71.5	71.6	71.6	71.7
≥ 4500	7.4	59.4	63.0	65.9	68.8	69.5	70.8	71.3	71.4	71.8	71.8	71.8	71.9	71.9	72.0	72.1
≥ 4000	7.5	60.1	63.8	66.7	69.5	70.2	71.5	72.0	72.2	72.5	72.6	72.6	72.7	72.7	72.7	72.8
≥ 3500	7.5	60.8	64.5	67.4	70.3	71.0	72.3	72.8	72.9	73.3	73.3	73.3	73.4	73.4	73.5	73.6
≥ 3000	7.8	63.4	67.1	70.1	73.0	73.7	75.0	75.5	75.7	76.0	76.1	76.1	76.2	76.2	76.3	76.3
≥ 2500	8.0	66.0	69.8	72.8	75.8	76.6	77.9	78.4	78.6	78.9	79.0	79.0	79.0	79.1	79.1	79.2
≥ 2000	8.2	69.4	73.5	76.6	79.8	80.6	81.9	82.4	82.6	83.0	83.0	83.1	83.1	83.1	83.2	83.3
≥ 1800	8.2	69.7	73.9	77.0	80.2	81.0	82.4	82.9	83.1	83.4	83.5	83.5	83.6	83.6	83.6	83.7
≥ 1500	8.2	73.3	77.9	81.5	85.1	85.9	87.4	87.9	88.1	88.5	88.6	88.6	88.7	88.7	88.7	88.8
≥ 1200	8.3	74.2	79.1	82.9	86.6	87.5	89.1	89.7	89.9	90.2	90.4	90.4	90.4	90.5	90.5	90.6
≥ 1000	8.3	75.9	81.4	85.6	89.8	90.9	92.7	93.4	93.7	94.1	94.2	94.2	94.3	94.3	94.4	94.5
≥ 900	8.3	76.1	81.6	85.9	90.3	91.4	93.3	94.1	94.3	94.8	94.9	94.9	95.0	95.0	95.0	95.1
≥ 800	8.3	76.4	82.0	86.5	91.0	92.1	94.2	95.0	95.2	95.7	95.8	95.8	95.9	95.9	96.0	96.1
≥ 700	8.3	76.5	82.2	86.7	91.3	92.5	94.6	95.5	95.8	96.3	96.4	96.4	96.5	96.5	96.6	96.7
≥ 600	8.3	76.5	82.3	86.8	91.6	92.8	95.0	95.9	96.2	96.8	96.9	96.9	97.0	97.0	97.1	97.2
≥ 500	8.3	76.6	82.4	87.0	91.9	93.2	95.4	96.4	96.7	97.4	97.5	97.5	97.7	97.7	97.7	97.9
≥ 400	8.3	76.6	82.4	87.1	92.0	93.3	95.6	96.7	97.0	97.7	97.9	97.9	98.0	98.0	98.1	98.2
≥ 300	8.3	76.6	82.4	87.1	92.0	93.4	95.7	96.8	97.1	97.9	98.1	98.1	98.3	98.3	98.5	98.7
≥ 200	8.3	76.6	82.4	87.1	92.1	93.4	95.7	96.8	97.2	98.0	98.2	98.2	98.5	98.5	98.7	99.1
≥ 100	8.3	76.6	82.4	87.1	92.1	93.4	95.7	96.8	97.2	98.0	98.3	98.3	98.6	98.6	98.9	99.4
0	8.3	76.6	82.4	87.1	92.1	93.4	95.7	96.8	97.2	98.0	98.3	98.3	98.6	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 29199

DIPNAVOCEANMET SMOS

SKY COVER

93114 SANTA ANA, CALIFORNIA 73-82 JAN

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	01	39.5			20.1						16.8	23.6	4.5	309
	04	37.4			14.8						19.4	28.4	5.0	310
	07	23.5			27.1						22.6	26.8	5.5	310
	10	26.5			24.2						22.6	26.8	5.4	310
	13	24.8			24.2						27.1	23.9	5.6	310
	16	23.2			27.7						24.2	24.8	5.5	310
	19	31.3			25.5						20.0	23.2	4.9	310
	22	37.1			23.2						16.8	22.9	4.5	310
TOTALS		30.4			23.4						21.2	25.1	5.1	2479

NAVWEASERVCOM

SKY COVER

93114 SANTA ANA, CALIFORNIA 73-82 FEB

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		
FEB	01	36.5			24.1						16.7	22.7	4.5	282
	04	31.9			21.3						16.0	30.9	5.2	282
	07	19.9			22.3						28.0	29.8	6.2	282
	10	26.6			21.3						22.0	30.1	5.6	282
	13	26.2			22.0						29.4	23.4	5.6	282
	16	29.4			22.0						24.5	24.1	5.3	282
	19	25.2			36.5						18.4	19.9	4.7	282
	22	29.8			28.7						22.7	18.8	4.8	282
TOTALS		28.2			24.8						22.1	25.0	5.2	2256

NAVWEASERVCOM

SKY COVER

93114	SANTA ANA, CALIFORNIA	73-82	MAR
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		
MAR	01	35.5			22.6						17.7	24.2	4.7	310
	04	38.4			13.2						21.6	26.8	5.0	310
	07	22.9			25.8						21.9	29.4	5.7	310
	10	26.8			16.1						31.0	26.1	5.9	310
	13	22.3			22.3						30.6	24.8	5.9	310
	16	26.5			26.5						28.7	18.4	5.2	310
	19	32.3			25.8						22.6	19.4	4.7	310
	22	34.8			23.9						20.6	20.6	4.6	310
TOTALS		29.9			22.0						24.3	23.7	5.2	2480

NAVWEASERVCOM

SKY COVER

93114	SANTA ANA, CALIFORNIA	73-82	APR
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		
APR	01	40.3			19.0						15.7	25.0	4.5	300
	04	34.3			14.0						17.0	34.7	5.4	300
	07	23.0			21.0						23.3	32.7	6.0	300
	10	27.0			21.0						25.3	26.7	5.6	300
	13	33.3			26.3						24.7	15.7	4.6	300
	16	38.0			25.7						23.7	12.7	4.2	300
	19	37.0			34.0						14.3	14.7	3.8	300
	22	43.0			19.7						14.7	22.7	4.2	300
TOTALS		34.5			22.6						19.8	23.1	4.8	2400

NAVWEASERVCOM

SKY COVER

93114 | SANTA ANA, CALIFORNIA | 73-82 | MAY

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		
MAY	01	28.7			9.0						13.2	49.0	6.4	310
	04	19.4			10.6						14.2	55.8	7.2	310
	07	14.8			11.3						12.6	61.3	7.6	310
	10	17.1			21.0						25.8	36.1	6.6	310
	13	28.1			31.0						18.4	22.6	4.8	310
	16	33.9			29.4						17.4	19.4	4.4	310
	19	28.7			30.0						15.8	25.5	4.9	310
	22	32.7			18.1						14.9	34.3	5.3	309
TOTALS		25.4			20.1						16.5	38.0	5.9	2479

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SKY COVER

93114	SANTA ANA, CALIFORNIA	73-82	JUN
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		
JUN	01	33.6			12.1						12.1	42.3	5.7	298
	04	22.5			10.4						8.7	58.4	6.9	298
	07	16.0			14.0						13.0	57.0	7.3	300
	10	32.0			23.3						17.0	27.7	5.0	300
	13	42.0			31.3						13.0	13.7	3.5	300
	16	49.0			28.7						13.7	8.7	3.0	300
	19	45.3			28.9						12.4	13.4	3.3	298
	22	48.0			13.4						10.7	27.9	4.2	298
TOTALS		36.1			20.3						12.6	31.1	4.9	2392

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SKY COVER

93114	SANTA ANA, CALIFORNIA	73-82	JUL
STATION	STATION NAME	PERIOD	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUFNCY 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		
JUL	01	31.6			19.7						12.3	36.5	6.3	310
	04	22.6			14.8						9.7	52.9	6.6	310
	07	14.8			18.4						15.8	51.0	7.1	310
	10	32.9			43.2						14.8	9.0	3.5	310
	13	51.9			37.1						8.7	2.3	2.1	310
	16	51.6			40.0						6.5	1.9	2.0	310
	19	44.2			42.6						10.0	3.2	2.5	310
	22	42.6			32.9						9.4	15.2	3.3	310
TOTALS		36.5			31.1						10.9	21.5	4.1	2480

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SKY COVER

STATION	STATION NAME	PERIOD	MONTH
3114	SANTA ANA, CALIFORNIA	73-92	AUG

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		
AUG	01	33.5			21.9						13.2	31.3	5.0	310
	04	20.0			13.9						12.3	53.9	6.9	310
	07	13.6			13.9						14.2	38.3	7.5	309
	10	25.9			41.0						15.6	17.4	4.4	310
	13	43.5			41.9						11.0	3.5	2.6	310
	16	49.4			37.7						10.3	2.6	2.3	310
	19	48.4			34.8						11.3	5.8	2.6	310
	22	49.4			23.5						9.7	18.4	3.4	310
TOTALS		35.3			28.5						12.2	23.9	4.3	2475

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SKY COVER

STATION	STATION NAME	PERIOD	MONTH
93114	SANTA ANA, CALIFORNIA	73-82	SEP

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		
SEP	01	34.3			17.3						13.0	35.7	5.3	300
	04	26.7			15.0						11.0	47.3	6.2	300
	07	17.7			16.0						14.3	52.0	7.0	300
	10	20.0			31.3						19.7	29.0	5.6	300
	13	34.3			40.0						14.0	11.7	3.6	300
	16	43.7			32.0						14.7	9.7	3.2	300
	19	40.7			30.3						11.7	17.3	3.7	300
	22	45.3			18.0						14.7	22.3	4.1	300
TOTALS		32.8			25.0						14.1	28.1	4.8	2400

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SKY COVER

STATION	STATION NAME	PERIOD	MONTH
93114	SANTA ANA, CALIFORNIA	73-92	OCT

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		
OCT	01	30.0			21.9						12.9	35.2	5.3	310
	04	27.4			13.5						12.9	44.2	6.0	310
	07	23.5			17.1						17.7	41.6	6.3	310
	10	29.0			26.1						26.5	18.4	5.0	310
	13	31.6			38.4						20.0	10.0	4.0	310
	16	35.8			36.8						19.4	8.1	3.7	310
	19	42.6			27.7						16.5	13.2	3.6	310
	22	39.0			24.8						13.9	22.3	4.2	310
TOTALS		32.0			25.8						17.5	24.1	4.8	2480

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SKY COVER

93114	SANTA ANA, CALIFORNIA	73-82	NOV
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		
NOV	01	42.7			22.3						13.3	21.7	4.0	300
	04	41.3			18.0						16.7	24.0	4.4	300
	07	29.0			25.0						21.7	24.3	5.1	300
	10	28.3			31.7						24.7	15.3	4.7	300
	13	31.3			35.0						21.3	12.7	4.2	300
	16	26.3			41.7						20.0	12.0	4.3	300
	19	36.0			34.7						20.0	9.3	3.8	300
	22	38.7			30.3						14.3	16.7	3.9	300
TOTALS		34.2			29.8						19.0	17.0	4.3	2400

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SKY COVE

STATION	STATION NAME	PERIOD	MONTH
3114	SANTA ANA, CALIFORNIA	73-82	DEC

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		
DEC	01	39.7			23.9						11.6	24.8	4.2	310
	04	42.9			19.0						10.3	27.7	4.3	310
	07	27.4			26.1						19.4	27.1	5.2	310
	10	27.4			26.5						20.6	25.5	5.2	310
	13	28.1			29.4						23.2	19.4	4.9	310
	16	27.8			33.0						21.7	17.5	4.7	309
	19	39.2			27.8						18.1	14.9	4.0	309
	22	37.2			27.2						13.9	21.7	4.2	309
TOTALS		33.7			26.6						17.4	22.3	4.6	2477

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SKY COVER

STATION	STATION NAME	PERIOD	MONTH
93114	SANTA ANA, CALIFORNIA	73-92	ALL

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	ALL	36.4			23.4						21.2	25.1	5.1	2479
FEB		29.2			24.4						22.1	25.0	5.2	2256
MAR		29.9			22.0						24.3	23.7	5.2	2480
APR		34.5			22.6						19.8	23.1	4.8	2400
MAY		25.4			29.1						16.5	38.0	5.9	2479
JUN		36.1			20.3						12.6	31.1	4.9	2392
JUL		36.5			31.1						10.9	21.5	4.1	2480
AUG		35.3			28.5						12.2	23.9	4.3	2479
SEP		32.3			25.0						14.1	28.1	4.8	2400
OCT		32.6			25.8						17.5	24.1	4.8	2480
NOV		34.2			29.8						19.0	17.0	4.3	2400
DEC		33.7			26.6						17.4	22.3	4.6	2477
TOTALS		32.5			25.0						17.3	25.2	4.8	29202

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sheville, N. C.

'ART E PSYCHROMETRIC SUMMARIES

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

. 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

. 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:

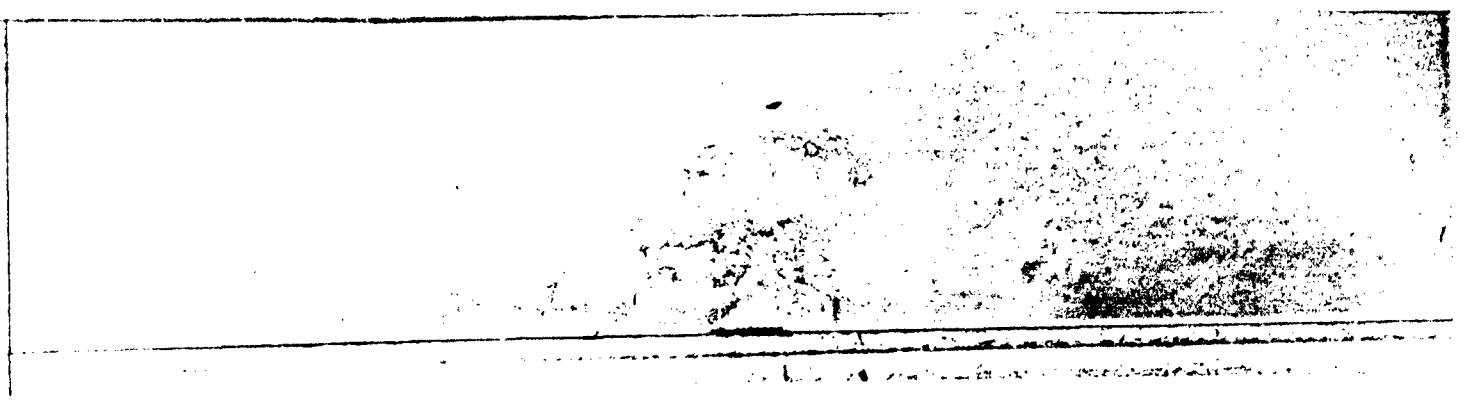
a. Extreme maximum temperature
b. Extreme minimum temperature

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

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.



. 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.

. 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.

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

Dry-bulb temperature
Wet-bulb temperature
Dew-point temperature

mulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly servations 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.

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

DAILY TEMPERATURES

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 45-47, 51-53, 63, 67-82 (YEARS)

MAXIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
NNNNN 110									.2				.0
NNNNN 105						.2			.4				.0
NNNNN 100					.3	1.2	.3	.4	2.9				.4
NNNNN 95				.2	1.0	2.1	1.6	2.0	7.3	2.6	.4		1.4
NNNNN 90			.4	.6	2.8	4.6	4.8	6.6	15.1	7.2	1.1	.9	3.7
NNNNN 85	1.:	1.0	1.3	2.2	5.5	10.1	18.9	23.6	29.7	15.3	7.2	1.6	10.3
NNNNN 80	4.1	6.2	5.3	8.5	10.3	22.4	50.9	63.8	51.9	30.3	17.0	5.2	23.5
NNNNN 75	12.5	15.7	13.1	21.3	23.3	49.5	89.4	97.7	84.2	57.9	31.9	14.7	43.5
NNNNN 70	27.4	33.5	28.9	44.1	55.5	84.4	99.7	100.0	98.9	88.0	58.2	31.1	63.4
NNNNN 65	68.9	60.4	60.0	75.6	91.0	98.6	100.0		100.0	98.0	85.7	59.8	82.1
NNNNN 60	81.9	89.4	91.9	96.7	99.8	100.0				99.8	98.6	85.1	95.8
NNNNN 55	96.8	99.4	99.4	99.6	100.0					100.0	99.8	97.2	99.4
NNNNN 50	99.8	100.0	100.0	100.0							100.0	99.5	99.9
NNNNN 45	100.0											100.0	100.0
NNNNN													
NNNNN													
NNNNN												

DAILY TEMPERATURES

93114 STATION — SANTA ANA, CALIFORNIA STATION NAME — 49-47, 51-53, 63, 67-82 YEARS

MINIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 80									.2				.0
≥ 70							.5	2.7	2.0	.2			.4
≥ 65					.3	2.6	21.3	35.9	22.2	3.5	.2	.2	7.4
≥ 60	.9	.4		.6	12.7	37.7	69.7	78.3	64.7	20.3	.9	.5	24.8
≥ 55	5.8	5.0	6.4	13.4	49.8	82.9	95.6	97.0	90.4	51.2	9.0	3.1	43.8
≥ 50	20.8	22.9	32.5	42.3	83.3	98.8	99.2	99.6	98.3	77.8	32.4	15.0	61.4
≥ 45	42.7	55.0	68.5	80.3	95.3	99.8	100.0	100.0	99.8	94.6	64.0	37.0	78.7
≥ 40	69.9	84.5	93.2	96.7	99.5	100.0			100.0	98.9	90.7	69.6	92.1
≥ 35	91.5	97.2	99.4	99.6	100.0					99.8	98.6	94.4	98.4
≥ 30	99.3	99.8	100.0	100.0						100.0	100.0	99.7	99.9
≥ 25	100.0	100.0										100.0	100.0
MEAN	43.5	45.2	47.0	48.7	54.0	58.1	61.2	62.6	60.9	54.3	46.8	43.0	52.1
S. D.	6.791	5.550	5.022	4.981	4.783	3.717	3.877	4.106	4.750	6.082	5.629	5.897	8.688
TOTAL OBS.	539	498	533	544	600	584	640	563	544	541	558	573	6717

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DAILY TEMPERATURES

93114	SANTA ANA, CALIFORNIA	45-47, 51-53, 63, 67-82	
STATION	STATION NAME	YEARS	

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 90									.4				.0
≥ 85							.3		1.1				.1
≥ 80						1.7	1.4	2.8	7.2	.4			1.1
≥ 75				.2	1.0	6.2	14.7	24.9	22.6	4.1			6.3
≥ 70	.4		.6	.9	6.8	21.1	63.9	80.5	65.4	20.3	2.7	.3	22.8
≥ 65	3.2	4.2	3.8	10.7	31.5	74.0	97.7	98.8	96.5	59.1	13.6	3.5	42.6
≥ 60	18.3	22.1	30.8	49.4	79.7	98.3	100.0	100.0	100.0	93.0	50.4	17.0	64.4
≥ 55	52.1	69.9	75.0	86.4	99.0	100.0				98.7	88.4	55.1	85.9
≥ 50	84.3	95.2	97.7	98.9	100.0					99.8	99.1	89.7	97.2
≥ 45	98.9	99.4	100.0	100.0							100.0	99.0	99.8
≥ 40	100.0	100.0								100.0		100.0	100.0
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MEAN	54.6	56.5	57.2	59.3	62.9	67.1	71.1	72.5	71.5	65.9	59.6	55.2	62.8
S. D.	5.127	4.377	4.137	4.372	4.134	4.237	3.570	3.428	4.681	4.784	4.568	4.684	7.677
TOTAL OBS.	536	498	533	544	600	584	640	563	544	541	558	572	6713

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1946-1947 1952-1952 9999-9999	JANUARY

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	54.1	12.3	64.8	18.2	77	25.0	1981	43.3	6.3	34	1.1	1976*
2	52.9	11.6	63.6	17.6	84	28.9	1980	42.1	5.6	32	.0	1976
3	52.4	11.3	64.4	18.0	87	30.6	1969	40.4	4.7	30	-1.1	1952
4	52.1	11.2	63.7	17.6	86	30.0	1969	40.6	4.8	28	-2.2	1952
5	52.1	11.2	64.2	17.9	79	26.1	1969	40.0	4.4	29	-1.7	1972*
6	53.5	11.9	64.6	18.1	80	26.7	1981	42.5	5.8	30	-1.1	1973
7	53.3	11.8	63.4	17.4	73	22.8	1976	43.2	6.2	34	1.1	1976
8	52.6	11.4	63.1	17.3	74	23.3	1976	42.2	5.7	30	-1.1	1968
9	53.6	12.0	64.6	18.1	79	26.1	1982	42.6	5.9	32	.0	1952
10	53.2	11.8	64.0	17.8	79	26.1	1981	42.4	5.8	31	-.6	1952
11	54.3	12.4	64.9	18.3	75	23.9	1981	43.7	6.5	33	.6	1952
12	55.8	13.2	65.0	18.3	73	22.8	1975	46.6	8.1	36	2.2	1976
13	55.7	13.7	68.4	20.2	82	27.8	1975	44.9	7.2	35	1.7	1976
14	56.4	13.6	68.0	20.0	83	28.3	1975	44.8	7.1	35	1.7	1968*
15	56.7	13.7	68.2	20.1	87	30.6	1976	45.2	7.3	34	1.1	1971
16	57.9	14.4	67.8	19.9	89	31.7	1976	47.9	8.8	36	1.7	1971
17	58.1	14.5	68.3	20.2	85	27.4	1977*	47.9	8.8	37	2.8	1946
18	56.5	13.6	67.2	19.6	83	28.3	1971	45.8	7.7	31	-.6	1947
19	56.2	13.4	66.9	19.4	82	27.8	1976	45.3	7.4	31	-.6	1947
20	56.0	13.3	66.7	19.3	82	27.8	1976	45.1	7.3	31	-.6	1973
21	55.8	13.2	66.1	18.9	80	26.7	1976	45.6	7.6	32	.0	1947
22	55.8	13.2	66.6	19.2	76	24.4	1976	44.9	7.2	33	.6	1946
23	56.0	13.3	67.5	19.7	81	27.2	1968	44.4	6.9	34	1.1	1947
24	56.4	13.6	68.6	20.3	81	27.2	1968	44.2	6.8	32	.0	1973*
25	54.6	12.6	65.8	18.8	76	24.4	1977	43.5	6.4	32	.0	1947
26	53.8	12.1	65.3	18.5	76	24.4	1946	42.4	5.8	31	-.6	1947
27	54.5	12.5	66.0	18.9	80	26.7	1971	43.1	6.2	32	.0	1973
28	53.6	12.0	65.8	18.8	87	30.6	1976	41.4	5.2	32	.0	1975
29	53.4	11.9	64.9	18.3	70	25.6	1976	41.9	5.5	31	-.6	1979
30	52.1	11.2	63.9	17.7	76	24.4	1976	40.4	4.7	29	-1.7	1946
31	53.5	11.9	64.8	18.2	80	26.7	1976	42.2	5.7	32	.0	1947
Monthly	54.6	12.6	65.7	18.7	89	31.7	1976	43.5	6.4	28	-2.2	1952

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1946-1947 1952-1952 9999-9999	FEBRUARY

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	54.6	12.6	66.2	19.0	82	27.8	1976	43.1	6.2	36	2.2	1981
2	55.3	12.9	68.1	20.1	81	27.2	1980	42.5	5.8	34	1.1	1946
3	55.8	13.2	68.7	20.4	79	26.1	1974	42.9	6.1	36	2.2	1972
4	55.7	13.2	68.4	20.2	80	26.7	1947	43.1	6.2	35	1.7	1979*
5	55.1	12.8	66.1	18.9	75	23.9	1952	44.2	6.8	32	.0	1946
6	56.1	13.4	67.5	19.7	80	26.7	1952	44.8	7.1	31	-.6	1946
7	56.0	13.3	67.5	19.7	79	26.1	1970	44.6	7.0	34	1.1	1974
8	56.3	13.8	66.5	19.2	83	28.3	1970	47.0	8.3	39	3.9	1974*
9	56.8	13.8	65.5	18.6	81	27.2	1971	48.1	8.9	35	1.7	1946
10	55.5	13.1	65.9	18.8	80	26.7	1977	45.1	7.3	30	-1.1	1946
11	55.9	13.3	66.4	19.1	77	25.0	1977*	45.4	7.4	29	-1.7	1946
12	56.2	13.4	67.8	19.9	84	28.9	1977	44.6	7.0	29	-1.7	1946
13	55.6	13.1	66.3	19.1	81	27.2	1981	44.9	7.2	36	2.2	1972
14	56.4	13.6	66.4	19.1	81	27.2	1981	46.4	8.0	31	-.6	1946
15	56.9	13.8	67.7	19.8	86	30.0	1977	46.2	7.9	34	1.1	1946
16	56.2	13.4	66.2	19.0	85	29.4	1977	46.3	7.9	35	1.7	1952
17	56.9	13.8	67.2	19.6	84	28.9	1981	46.5	8.1	35	1.7	1946
18	56.3	13.5	68.1	20.1	87	30.6	1981	44.6	7.0	33	.6	1952
19	56.0	13.3	66.6	19.2	86	30.0	1982	45.4	7.4	36	2.2	1952
20	56.2	13.4	67.2	19.6	82	27.8	1982	45.2	7.3	34	1.1	1946
21	56.9	13.8	67.0	19.4	85	29.4	1982	46.8	8.2	38	3.3	1974
22	57.0	13.9	68.8	20.4	82	27.8	1981	45.2	7.3	36	2.2	1976
23	55.7	13.2	66.7	19.3	77	25.0	1968	44.8	7.1	38	3.3	1952
24	56.8	13.8	67.9	19.9	81	27.2	1974	45.7	7.6	37	2.8	1971
25	57.9	14.4	70.2	21.2	83	28.3	1968	45.6	7.6	35	3.3	1977
26	56.7	13.7	67.9	19.9	83	28.3	1980	45.5	7.5	38	3.3	1974*
27	56.6	13.7	67.8	19.9	81	27.2	1980	45.3	7.4	36	2.2	1971
28	56.0	13.3	65.8	18.8	75	23.9	1982	46.2	7.9	36	2.2	1971
29	57.4	14.1	66.8	19.3	76	24.4	1968	48.0	8.9	39	3.9	1952
30												
31												
Monthly	56.2	13.4	67.2	19.6	87	30.6	1981	45.2	7.3	29	-1.7	1946

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1952-1952 9999-9999	MARCH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP DATE
1	56.1	13.4	64.8	18.2	81	27.2	1967	47.4	8.6	34	1.1	1945
2	55.4	13.0	64.4	18.0	75	23.9	1972	46.5	8.1	38	3.3	1979*
3	54.9	12.7	64.9	18.3	77	25.0	1968	44.8	7.1	34	1.1	1971
4	54.8	12.7	64.9	18.3	92	33.3	1968	44.7	7.1	36	2.2	1976
5	55.2	12.9	65.8	18.8	86	30.0	1979	44.6	7.0	34	1.1	1945
6	56.2	13.4	67.5	19.7	89	31.7	1979	44.8	7.1	33	.6	1967
7	55.5	13.1	66.5	19.2	85	29.4	1979	44.5	6.9	35	1.7	1967
8	55.7	13.2	65.7	18.7	79	26.1	1946	45.7	7.6	36	2.2	1967
9	56.1	13.4	65.9	18.8	80	26.7	1946	46.2	7.9	37	2.8	1945
10	55.2	12.9	64.7	18.2	76	24.4	1981	45.8	7.7	40	4.4	1947*
11	55.9	13.3	64.7	18.2	74	23.3	1979	47.1	8.4	40	4.4	1969
12	56.0	13.3	66.4	19.1	81	27.2	1947	45.5	7.5	39	3.9	1946
13	56.7	13.7	66.2	19.0	84	28.9	1947	47.2	8.4	39	3.9	1976
14	56.4	13.6	67.6	19.8	83	28.3	1970*	45.2	7.3	35	1.7	1973
15	56.9	13.8	69.5	20.8	84	28.9	1978	44.3	6.8	35	1.7	1973
16	58.4	14.7	69.6	20.9	87	30.6	1978	47.3	8.5	38	3.3	1946
17	57.4	14.1	67.9	19.9	92	33.3	1978	47.0	8.3	40	4.4	1977*
18	57.1	13.9	65.8	18.8	74	23.3	1978	48.4	9.1	42	5.6	1977*
19	57.3	14.1	66.7	19.3	74	23.3	1970	47.9	8.8	39	3.3	1945
20	56.4	13.6	65.7	18.7	77	25.0	1976	47.2	8.4	40	4.4	1968
21	56.8	13.8	66.5	19.2	81	27.2	1968	47.2	8.4	38	3.3	1968
22	57.2	14.0	67.6	19.8	85	29.4	1976	46.9	8.3	38	3.3	1946
23	56.7	13.7	68.0	18.9	74	23.3	1981*	47.4	8.6	39	3.9	1973
24	57.7	14.3	68.8	20.4	79	26.1	1968	46.7	8.2	35	1.7	1945
25	58.8	14.9	67.9	19.9	84	28.9	1947	49.6	9.8	40	4.4	1946
26	58.6	14.8	68.3	20.2	83	28.3	1969	48.9	9.4	42	5.6	1946
27	57.2	14.0	66.4	19.1	80	26.7	1969	48.0	8.9	39	3.9	1975*
28	57.7	14.3	66.9	19.4	78	25.6	1968	48.5	9.2	37	2.8	1945
29	57.8	14.3	67.5	19.8	80	26.7	1980*	48.0	8.9	35	1.7	1973
30	57.7	14.3	67.6	19.8	82	27.8	1945	47.9	8.8	31	-.6	1967
31	57.4	14.1	67.6	19.8	76	24.3	1976	47.2	8.4	39	3.9	1973
Monthly	56.7	13.7	66.6	19.2	92	33.3	1978*	46.7	8.2	31	-.6	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET–SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1952-1952 9999-9999	APRIL

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP DATE
1	57.5	14.2	67.1	19.5	81	27.2	1971	47.9	8.8	43	6.1	1973
2	56.3	13.5	66.7	19.3	78	25.6	1971	45.9	7.7	35	1.7	1973
3	56.8	13.8	68.4	20.2	87	30.6	1971	45.2	7.3	35	1.7	1945
4	58.5	14.7	71.6	22.0	89	31.7	1971	45.4	7.4	35	1.7	1945
5	59.3	15.2	72.8	22.7	89	31.7	1981	45.8	7.7	35	1.7	1945
6	58.0	14.4	68.7	20.4	78	25.6	1981	47.3	8.5	39	3.9	1967
7	57.9	14.4	68.4	20.2	79	26.1	1945	47.4	8.6	39	3.9	1975
8	57.6	14.2	68.0	20.0	86	30.0	1980	47.3	8.5	38	3.3	1973
9	57.9	14.4	68.2	20.1	77	25.0	1980*	47.5	8.6	39	3.9	1967
10	58.9	14.9	70.0	21.1	79	26.1	1982	47.8	8.8	37	2.8	1945
11	59.5	15.3	70.1	21.2	85	29.4	1980*	48.9	9.4	34	1.1	1945
12	60.3	15.7	70.3	21.3	89	31.7	1980	50.4	10.2	39	3.9	1945
13	59.8	15.4	69.6	20.9	93	33.9	1947	49.9	9.9	42	5.6	1945
14	58.7	14.8	68.6	20.3	82	27.8	1947	48.8	9.3	35	1.7	1945
15	58.3	14.6	68.4	20.2	79	26.1	1980	48.2	9.0	36	2.2	1945
16	59.3	15.2	69.1	20.6	84	28.9	1980	49.6	9.8	40	4.4	1967
17	58.1	14.5	67.2	19.6	82	27.9	1980	49.0	9.4	40	4.4	1967
18	58.9	14.9	68.3	20.2	79	26.1	1980	49.4	9.7	42	5.6	1976*
19	59.1	15.1	69.3	20.7	83	28.3	1982	48.8	9.3	37	2.8	1967
20	59.6	15.3	70.4	21.3	92	33.3	1982	48.9	9.4	34	1.1	1967
21	59.4	15.2	69.7	20.9	82	27.8	1982	49.1	9.5	39	3.9	1973
22	59.4	15.2	70.1	21.2	85	29.4	1982	48.8	9.3	40	4.4	1982
23	59.9	15.5	71.0	21.7	83	28.3	1982	48.9	9.4	40	4.4	1967
24	59.4	15.2	69.2	20.7	81	27.2	1977	49.5	9.7	41	5.0	1967
25	60.0	15.6	69.8	21.0	80	26.7	1979	50.2	10.1	41	5.0	1967
26	61.0	16.1	70.8	21.6	81	27.2	1979*	51.2	10.7	40	4.4	1967
27	60.0	15.6	69.5	20.8	84	28.9	1969	50.6	10.3	41	5.0	1967*
28	60.2	15.7	69.6	20.9	86	30.0	1981	50.8	10.4	41	5.0	1970
29	61.0	16.1	70.7	21.5	96	35.6	1981	51.3	10.7	41	5.0	1967
30	61.0	16.1	69.8	21.0	80	26.7	1976*	52.2	11.2	42	5.6	1967
31												
Monthly	59.1	15.1	69.4	20.8	96	35.6	1981	49.7	9.3	34	1.1	1967*

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET–SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

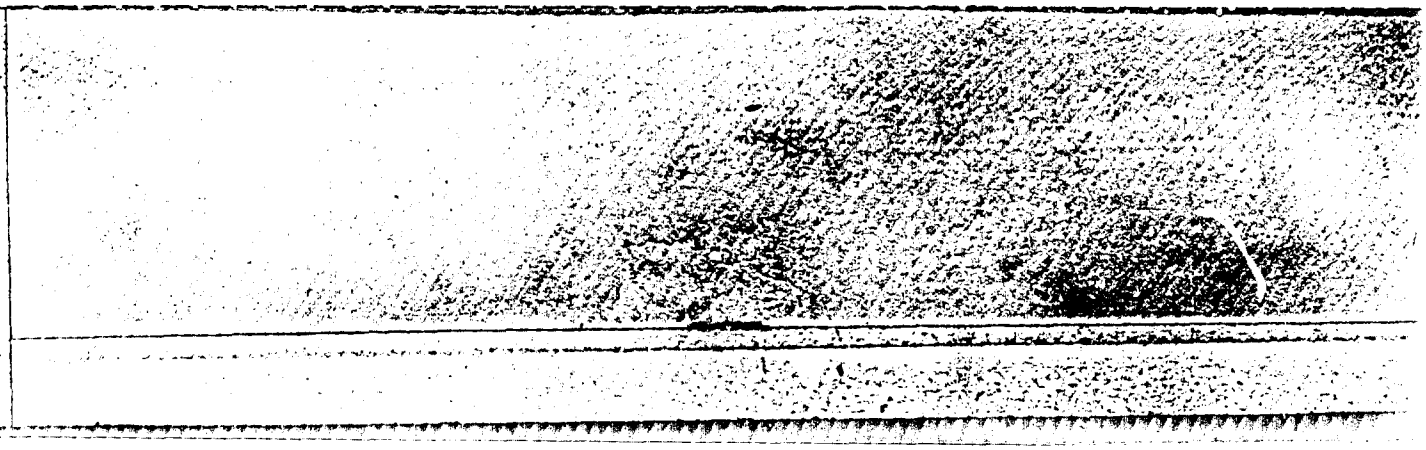
DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1952-1953 9999-9999	MAY

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP DATE
1	61.2	16.2	70.8	21.6	85	29.4	1947	51.6	10.9	39	3.9	1967
2	62.9	17.2	73.9	23.3	92	33.3	1970	51.9	11.1	42	5.6	1953
3	62.1	16.7	71.5	21.9	92	33.3	1970	52.6	11.4	41	5.0	1967
4	61.6	16.4	70.2	21.2	90	32.2	1953	53.1	11.7	45	7.2	1946
5	60.9	16.1	68.4	20.2	94	34.4	1953	53.3	11.8	46	7.8	1975
6	60.2	15.7	68.7	20.4	86	30.0	1953	51.7	10.9	39	3.3	1967
7	60.4	15.8	69.9	21.1	81	27.2	1967	51.0	10.6	44	6.7	1973
8	61.3	16.3	69.6	20.9	82	27.8	1978	53.1	11.7	48	8.9	1953
9	61.6	16.4	71.2	21.8	87	30.6	1981	52.1	11.2	42	5.6	1953
10	62.0	16.7	70.6	21.4	90	32.2	1981	53.5	11.9	44	6.7	1979
11	62.5	16.9	71.2	21.8	87	30.6	1979	53.8	12.1	47	8.3	1979
12	62.7	17.1	72.5	22.5	101	38.3	1979	52.9	11.6	39	3.9	1953
13	63.8	17.7	74.3	23.5	102	38.9	1979	53.3	11.8	42	5.6	1967
14	63.2	17.3	71.8	22.1	89	31.7	1967	54.5	12.5	45	7.2	1968
15	63.3	17.4	72.3	22.4	98	36.7	1967	54.3	12.4	43	6.1	1967
16	62.5	16.9	71.3	21.9	92	33.3	1967	53.7	12.1	49	9.4	1973*
17	63.7	17.6	74.0	23.3	88	31.1	1978	53.4	11.9	42	5.6	1946
18	63.6	17.6	73.1	22.8	89	31.7	1978	54.1	12.3	44	6.7	1945
19	62.6	17.0	70.6	21.4	85	29.4	1978	54.6	12.6	46	7.8	1945
20	62.7	17.1	69.8	21.0	77	25.0	1978*	55.5	13.1	45	7.2	1945
21	62.4	16.9	70.4	21.3	79	26.1	1974	54.3	12.4	42	5.6	1945
22	62.1	16.7	70.8	21.6	83	27.8	1979*	53.4	11.9	44	6.7	1945
23	62.3	16.8	70.1	21.2	80	26.7	1979	54.4	12.4	50	10.0	1975*
24	62.9	17.2	70.8	21.6	77	25.0	1981	55.0	12.8	43	6.1	1945
25	63.1	17.3	71.1	21.7	90	32.2	1974	55.1	12.8	43	6.1	1945
26	62.8	17.1	71.2	21.8	88	31.1	1968	54.5	12.5	44	6.7	1953
27	63.6	17.6	71.4	21.9	86	30.0	1972	55.7	13.2	45	7.2	1953
28	64.8	18.2	74.4	23.6	97	36.1	1978	55.2	12.9	45	7.2	1945
29	64.2	17.9	72.6	22.6	96	35.6	1978	55.8	13.2	41	5.0	1953
30	64.7	18.2	72.5	22.5	84	28.9	1972	56.9	13.8	45	7.2	1953
31	64.9	18.3	71.6	22.0	81	27.2	1972	58.1	14.5	50	10.0	1971
Monthly	62.7	17.1	71.4	21.9	102	38.9	1979	54.0	12.2	38	3.3	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1952-1953 9999-9999	JUNE

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	64.6	18.1	72.1	22.3	7-	25.6	1972	57.1	13.9	48	8.9	1971*
2	64.4	18.0	71.7	22.1	81	27.2	1968	57.0	13.9	42	5.6	1967
3	65.1	18.4	72.5	22.5	81	27.2	1981	57.7	14.3	47	8.3	1967
4	65.2	18.4	73.4	23.0	84	28.9	1981	56.9	13.8	45	7.2	1967
5	65.7	18.7	73.3	22.9	83	28.3	1981*	58.2	14.6	51	10.6	1947
6	65.2	18.4	72.6	22.6	84	28.9	1981	57.8	14.3	50	10.0	1967
7	65.1	18.4	72.4	22.4	84	28.9	1981	57.9	14.4	50	10.0	1980
8	64.9	18.3	72.3	22.4	88	31.1	1979	57.6	14.2	50	10.0	1945
9	65.4	18.6	73.3	22.9	97	36.1	1979	57.4	14.1	50	10.0	1946
10	66.1	18.9	73.9	23.3	102	38.9	1979	58.2	14.6	48	8.9	1946
11	66.7	19.3	74.8	23.8	96	35.6	1979	58.6	14.8	51	10.6	1945
12	66.3	19.1	75.8	24.3	103	39.4	1979	56.8	13.8	50	10.0	1947*
13	66.5	19.2	75.2	24.0	96	35.6	1979	57.8	14.3	51	10.6	1980
14	66.8	19.3	75.9	24.4	88	31.1	1981	57.6	14.2	51	10.6	1970
15	67.7	19.8	77.9	25.5	103	39.4	1981	57.5	14.2	52	11.1	1979
16	66.7	19.3	76.3	24.6	107	41.7	1981	57.1	13.9	50	10.0	1973
17	66.6	19.2	75.3	24.1	101	38.3	1981	57.8	14.3	53	11.7	1973*
18	67.2	19.6	76.4	24.7	91	32.8	1981	58.0	14.4	54	12.2	1946
19	67.9	19.9	77.8	25.4	92	33.3	1973	57.9	14.4	53	11.7	1979
20	67.9	19.9	78.2	25.7	97	36.1	1973	57.7	14.3	52	11.1	1973
21	67.6	19.8	76.8	24.9	95	35.0	1973	58.4	14.7	53	11.7	1974*
22	68.0	20.0	76.1	24.5	90	32.2	1973	59.9	15.5	55	12.8	1947
23	68.3	20.2	77.1	25.1	90	32.2	1978	59.5	15.3	52	11.1	1973
24	67.8	19.9	76.8	24.9	94	34.4	1976	58.9	14.9	52	11.1	1946*
25	68.5	20.3	77.8	25.4	92	33.3	1976*	59.2	15.1	53	11.7	1980
26	69.0	20.6	79.4	26.3	92	33.3	1979	58.7	14.8	50	10.0	1945
27	69.1	20.6	79.1	26.2	102	38.9	1976	59.1	15.1	54	12.2	1975*
28	69.1	20.6	78.2	25.7	100	37.8	1980	59.9	15.5	52	11.1	1963
29	68.4	20.2	78.2	25.7	93	33.9	1980	56.7	14.8	50	10.0	1967
30	68.4	20.2	78.6	25.9	85	29.4	1980	58.1	14.5	50	10.0	1947
31												
Monthly	66.8	19.3	75.6	24.2	107	41.7	1981	58.1	14.5	42	5.6	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	ANTA ANA, CALIFORNIA	1945-1947 1952-1953 9999-9999	JULY

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	67.6	19.8	77.1	25.1	87	30.6	1980	58.2	14.6	49	9.4	1952
2	68.5	20.3	78.2	25.7	9[illegible]	34.4	1970	58.8	14.9	51	10.6	1963
3	69.1	20.6	79.5	26.4	10[illegible]	40.0	1981	58.7	14.8	52	11.1	1963
4	69.0	20.6	79.0	26.1	96	35.6	1981	59.1	15.1	51	10.6	1947
5	68.9	20.5	77.2	25.1	89	31.7	1981	60.6	15.9	56	13.3	1947*
6	68.9	20.5	77.[illegible]	25.2	89	31.7	1981	60.3	15.7	55	12.8	1977
7	69.1	20.6	78.0	25.6	88	31.1	1976	60.2	15.7	53	11.7	1946
8	70.1	21.2	79.5	26.4	89	31.7	1979	60.6	15.9	51	10.6	1952
9	70.2	21.2	81.0	27.2	92	33.3	1968	59.4	15.2	50	10.0	1952
10	70.5	21.4	81.4	27.4	98	36.7	1968	59.5	15.3	49	9.4	1952
11	70.6	21.4	80.9	27.2	91	32.8	1975	60.3	15.7	50	10.0	1952
12	70.0	21.1	80.6	27.0	89	31.7	1968	59.3	15.2	48	8.9	1952
13	70.1	21.2	79.8	26.6	92	33.3	1978	60.5	15.8	45	7.2	1952
14	70.5	21.4	80.1	26.7	9[illegible]	34.4	1978	61.0	16.1	48	8.9	1952
15	70.8	21.6	79.3	26.3	95	35.0	1978	62.3	16.8	56	13.3	1952
16	70.4	21.3	79.5	26.4	89	31.7	1980	61.3	16.3	54	12.2	1946
17	70.5	21.4	79.4	26.3	92	33.3	1979	61.5	16.4	53	11.7	1947
18	70.9	21.6	80.0	26.7	88	31.1	1981*	61.8	16.6	55	12.8	1947
19	71.0	21.7	79.9	26.6	89	31.7	1981	62.2	16.8	55	12.8	1947*
20	71.1	21.7	80.6	27.0	93	33.9	1982	61.7	16.5	56	13.3	1968
21	71.1	21.7	80.4	26.9	90	32.2	1982	61.8	16.6	56	13.3	1952
22	70.5	21.4	80.1	26.7	86	30.0	1982	61.0	16.1	51	10.6	1952
23	71.6	22.0	81.0	27.2	90	32.2	1974	62.3	16.8	56	13.3	1972
24	72.1	22.3	81.4	27.4	88	31.1	1972	62.9	17.2	55	12.8	1947
25	72.4	22.4	82.0	27.8	89	31.7	1977*	62.9	17.2	57	13.9	1947
26	72.6	22.6	82.9	28.3	95	35.0	1977	62.3	16.8	55	12.8	1947
27	73.2	22.9	83.8	28.8	97	36.1	1972	62.6	17.0	55	12.8	1947
28	73.0	22.8	82.8	28.2	89	31.7	1982*	63.3	17.4	60	15.6	1963*
29	73.5	23.1	83.0	28.3	96	35.6	1972	64.0	17.8	60	15.6	1963*
30	73.2	22.9	82.6	28.1	100	37.8	1980	63.9	17.7	58	14.4	1947
31	73.3	22.9	83.4	28.6	96	35.6	1980	63.2	17.3	54	12.2	1946
Monthly	70.8	21.6	80.4	26.9	10[illegible]	40.0	1981	61.2	16.2	45	7.2	1952

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	ANTA ANA, CALIFORNIA	1945-1947 1952-1953 9999-9999	AUGUST

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	73.7	23.2	83.5	28.6	94	34.4	1980	63.9	17.7	57	15.0	1970*
2	72.8	22.7	81.5	27.5	88	31.1	1971	64.2	17.9	56	13.3	1968
3	72.4	22.4	80.5	26.9	89	31.7	1971	64.4	18.0	60	15.6	1981
4	72.8	22.7	81.8	27.7	92	33.3	1971	63.7	17.6	56	13.3	1979
5	72.6	22.6	81.4	27.4	91	32.8	1971	63.8	17.7	56	13.3	1968
6	73.5	23.1	83.1	28.4	91	32.8	1971	63.9	17.7	57	13.9	1973
7	73.3	22.9	83.6	28.7	93	33.9	1970	63.1	17.3	55	12.8	1973
8	72.6	22.6	83.5	28.6	91	32.8	1981*	61.8	16.6	54	12.2	1973*
9	72.6	22.6	81.9	27.7	89	31.7	1969	63.3	17.4	55	12.8	1945
10	73.0	22.8	81.8	27.7	89	31.7	1969	64.2	17.9	59	15.0	1973*
11	73.0	22.8	81.9	27.7	87	30.6	1946	64.1	17.8	60	15.6	1976*
12	72.3	22.4	80.4	26.9	86	30.0	1967	64.3	17.9	56	13.3	1976
13	72.5	22.5	81.1	27.3	86	30.0	1981*	63.9	17.7	52	11.1	1945
14	71.6	22.0	80.9	27.2	87	30.6	1981	62.3	16.8	50	10.0	1945
15	71.3	21.8	80.1	26.7	90	32.2	1981	62.6	17.0	49	9.4	1945
16	71.5	21.9	80.1	26.7	89	31.7	1977	62.9	17.2	53	11.7	1946
17	72.3	22.4	80.5	26.9	96	35.6	1945	64.1	17.8	55	12.8	1946
18	71.4	21.9	79.8	26.6	91	32.8	1967	63.1	17.3	57	13.9	1946
19	72.1	22.3	80.6	27.0	92	33.3	1973	63.6	17.6	59	15.0	1976*
20	72.3	22.4	82.1	27.8	93	33.9	1981	62.6	17.0	57	13.9	1972
21	71.7	22.1	82.0	27.8	94	34.4	1969	61.4	16.3	58	14.4	1979*
22	71.5	21.9	82.4	28.0	99	37.2	1969	60.6	15.9	56	13.3	1979*
23	72.4	22.4	84.1	28.9	99	37.2	1968	60.8	16.0	50	10.0	1973
24	71.2	21.8	82.4	28.0	91	32.8	1981*	59.9	15.5	55	12.8	1978*
25	71.9	22.2	82.3	27.9	100	37.8	1981	61.4	16.3	56	13.3	1978*
26	71.6	22.0	82.0	27.8	100	37.8	1981	61.2	16.2	54	12.2	1946
27	71.6	22.0	81.7	27.6	99	37.2	1981	61.4	16.3	54	12.2	1975*
28	72.1	22.3	82.4	28.0	97	36.1	1981	61.8	16.6	52	11.1	1973
29	71.8	22.1	82.4	28.0	93	33.9	1967	61.3	16.3	55	12.8	1946
30	71.1	21.7	82.1	27.8	96	35.6	1976*	60.1	15.6	48	8.9	1945
31	71.5	21.9	81.6	27.6	95	35.0	1967	61.3	16.3	50	10.0	1945
Monthly	72.2	22.3	81.8	27.7	100	37.8	1981	62.6	17.0	48	8.9	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET–SMOS



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1952-1953 9999-9999	SEPTEMBER

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	72.3	22.4	82.2	27.9	100	37.8	1982	62.5	16.9	58	14.4	1975*
2	72.6	22.6	82.9	28.3	103	39.4	1982	62.0	16.7	54	12.2	1946
3	72.5	22.5	82.6	28.1	99	37.2	1982	62.3	16.8	56	13.3	1975*
4	73.3	22.9	83.5	28.6	93	33.9	1982	63.2	17.3	57	13.9	1977
5	72.3	22.4	82.4	28.0	96	35.6	1982	62.3	16.8	56	13.3	1946
6	72.4	22.4	83.0	28.3	95	35.0	1977	61.8	16.6	52	11.1	1946
7	72.6	22.6	82.6	28.1	96	35.6	1977	62.5	16.9	55	12.8	1973*
8	72.5	22.5	82.6	28.1	97	36.1	1979	62.3	16.8	57	13.9	1968
9	72.0	22.2	82.7	28.2	94	34.4	1979	61.3	16.3	55	12.8	1977*
10	71.8	22.1	80.8	27.1	95	35.0	1979	62.7	17.1	56	13.3	1963
11	71.2	21.8	81.9	27.7	98	36.7	1963	60.6	15.9	51	10.6	1946
12	71.3	21.8	81.3	27.4	102	38.9	1971	61.4	16.3	54	12.2	1972
13	71.1	21.7	80.2	26.8	101	38.3	1971	61.9	16.6	52	11.1	1977
14	69.9	21.1	78.4	25.8	96	35.6	1979	61.5	16.4	52	11.1	1972
15	69.4	20.8	78.4	25.8	100	37.9	1979	60.4	15.8	53	11.7	1974
16	70.0	21.1	79.1	26.2	99	37.2	1979	60.8	16.0	53	11.7	1970
17	70.5	21.4	80.2	26.8	99	37.2	1979	60.6	15.9	53	11.7	1968*
18	70.6	21.4	80.6	27.0	97	36.1	1981	60.2	15.7	53	11.7	1977
19	70.0	21.1	79.7	26.5	101	38.3	1979	60.3	15.7	54	12.2	1973
20	69.7	20.9	79.6	26.4	89	31.7	1981*	59.9	15.5	52	11.1	1972
21	70.2	21.2	80.7	27.1	94	34.4	1978	59.7	15.4	53	11.7	1977*
22	70.7	21.5	82.6	28.1	94	34.4	1978	58.8	14.9	49	9.4	1968
23	70.8	21.6	82.4	28.0	103	39.4	1978	59.1	15.1	47	8.3	1945
24	70.8	21.6	82.5	28.1	104	40.0	1978	59.2	15.1	46	7.8	1945
25	71.3	21.8	83.7	28.7	102	38.9	1978	58.8	14.9	47	8.3	1945
26	72.5	22.5	84.7	29.3	112	44.4	1963	60.2	15.7	45	7.2	1945
27	72.1	22.3	83.1	28.4	106	41.1	1963	61.1	16.2	54	12.2	1945
28	70.6	21.4	82.4	28.0	101	38.3	1963	58.9	14.9	48	8.9	1945
29	70.7	21.5	81.6	27.6	96	35.6	1963	59.7	15.4	49	6.7	1945
30	69.5	20.8	79.6	26.4	92	33.3	1980	59.4	15.2	48	8.9	1945
31												
Monthly	71.2	21.8	91.6	27.6	112	44.4	1963	60.9	16.1	44	6.7	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1952-1953 9999-9999	OCTOBER

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	69.9	20.5	77.9	25.5	94	34.4	1945	59.9	15.5	50	10.0	1945
2	68.6	20.3	78.4	25.8	96	35.6	1945	58.8	14.9	48	8.9	1971*
3	68.2	20.1	78.6	25.9	90	32.2	1945	57.8	14.3	48	8.9	1971
4	68.3	20.2	78.4	25.8	95	35.0	1971	58.3	14.6	48	8.9	1946
5	68.2	20.1	78.9	26.1	99	37.2	1971	57.5	14.2	47	8.3	1968
6	69.0	20.6	79.8	26.3	99	37.2	1971	58.6	14.8	47	8.3	1946
7	68.6	20.3	79.1	26.2	90	32.2	1967	58.1	14.5	47	8.3	1946
8	67.6	19.8	78.4	25.8	96	35.6	1976	56.8	13.8	48	8.9	1975*
9	66.9	19.4	78.1	25.6	96	35.6	1976	55.8	13.2	45	7.2	1967
10	66.4	19.1	78.1	25.6	93	33.9	1971	54.7	12.6	47	8.3	1973
11	66.5	19.2	78.6	25.9	93	33.9	1971	54.4	12.4	43	6.1	1973
12	65.4	18.6	76.0	24.4	86	30.0	1978	54.9	12.7	47	8.3	1973
13	66.0	18.9	77.0	25.0	87	30.6	1978	55.0	12.8	46	7.8	1968
14	67.0	19.4	76.8	24.9	91	32.8	1978	57.3	14.1	47	8.3	1981
15	66.0	18.9	77.7	25.4	97	36.1	1967	54.4	12.4	43	8.9	1981
16	65.5	18.6	76.9	24.9	97	36.1	1974	54.2	12.3	43	6.1	1968
17	65.2	18.4	77.4	25.2	95	35.0	1967	53.1	11.7	43	6.1	1981
18	66.1	18.9	77.7	25.4	95	35.0	1981	54.4	12.4	43	6.1	1980
19	65.4	18.6	77.0	25.0	92	33.3	1981*	53.7	12.1	43	6.1	1971
20	64.3	17.9	74.1	23.4	90	32.2	1980	54.6	12.6	42	5.6	1946
21	64.2	17.9	74.8	23.8	89	31.7	1980	53.6	12.0	41	5.0	1946
22	64.4	18.0	75.6	24.2	89	31.7	1982	53.3	11.8	46	7.8	1971
23	65.3	18.5	77.2	25.1	98	36.7	1982	53.4	11.9	45	7.2	1967
24	65.9	18.6	79.0	26.1	92	33.3	1968*	51.8	11.0	45	7.2	1975*
25	63.6	17.6	76.8	24.9	87	30.6	1945	50.4	10.2	41	5.0	1945
26	62.4	16.9	73.3	22.9	83	28.3	1976	51.4	10.8	41	5.0	1945
27	64.0	17.8	74.6	23.7	95	35.0	1973	53.4	11.9	47	8.3	1982
28	63.3	17.4	75.1	23.9	87	30.6	1973	51.5	10.8	40	4.4	1973
29	62.0	16.7	75.3	24.1	90	32.2	1980*	48.8	9.3	30	-1.1	1971
30	62.0	16.7	74.4	23.6	91	32.8	1973	49.6	9.8	36	2.2	1971
31	61.1	16.2	74.8	23.8	90	32.2	1967	47.4	8.6	38	3.3	1946
Monthly	65.6	18.7	76.9	24.9	99	37.2	1971	54.3	12.4	30	-1.1	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET--SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1951-1953 9999-9999	NOVEMBER

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	61.6	16.4	76.4	24.7	92	33.3	1981	46.7	8.2	41	5.0	1973*
2	62.1	16.7	77.5	25.3	95	35.0	1976	46.8	8.2	41	5.0	1971*
3	62.9	17.2	77.2	25.1	92	33.3	1945	48.6	9.2	40	4.4	1951
4	62.0	16.7	75.0	23.9	95	35.0	1976	48.9	9.4	39	3.9	1946
5	61.1	16.2	72.5	22.5	91	32.8	1976	49.6	9.8	41	5.0	1973
6	61.3	16.3	74.1	23.4	85	29.4	1978*	48.6	9.2	37	2.8	1973
7	60.0	15.6	71.7	22.1	87	30.6	1978	48.3	9.1	39	3.9	1973
8	61.2	16.2	72.9	22.7	87	30.6	1976	49.6	9.8	36	2.2	1945
9	60.1	15.6	73.1	22.8	87	30.6	1981	47.2	8.4	33	.6	1945
10	59.7	15.4	72.2	22.3	86	30.0	1977	47.2	8.4	34	1.1	1945
11	59.9	15.5	72.0	22.2	86	30.0	1974	47.8	8.8	41	5.0	1945
12	60.1	15.6	71.6	22.0	89	31.7	1974	48.6	9.2	34	1.1	1945
13	60.1	15.6	70.6	21.4	86	30.0	1975	49.6	9.8	40	4.4	1945
14	59.4	15.2	70.9	21.6	82	27.8	1970	47.9	8.8	39	3.9	1945
15	59.0	15.0	71.1	21.7	83	28.3	1979	46.9	8.3	37	2.8	1971
16	59.6	15.3	71.3	21.8	89	31.7	1976	47.9	8.8	40	4.4	1977*
17	59.4	15.2	70.9	21.6	87	30.6	1976	47.9	8.8	35	1.7	1945
18	57.6	14.2	69.4	20.8	81	27.2	1976	45.7	7.6	37	2.8	1980*
19	57.9	14.4	70.2	21.2	81	27.2	1981	45.7	7.6	34	1.1	1980
20	57.9	14.4	70.7	21.5	83	28.3	1968	45.2	7.3	35	1.7	1979*
21	57.7	14.3	69.4	20.8	79	26.1	1980	46.0	7.8	33	.6	1979
22	57.0	13.9	68.9	20.5	77	25.0	1945	45.1	7.3	34	1.1	1979
23	57.9	14.4	71.0	21.7	82	27.8	1975	44.7	7.1	34	1.1	1945
24	57.9	14.4	71.3	21.8	88	31.1	1977	44.6	7.0	32	.0	1945
25	59.0	15.0	72.2	22.3	90	32.2	1977	45.9	7.7	38	3.3	1968
26	58.6	14.8	72.2	22.3	85	29.4	1977	44.9	7.2	36	2.2	1951
27	57.7	14.3	70.9	21.6	84	28.9	1980	44.5	6.9	37	2.8	1980*
28	56.3	13.6	71.6	22.0	85	29.4	1980	45.1	7.3	35	1.7	1945
29	58.2	14.5	71.4	21.9	86	30.0	1977*	44.9	7.2	38	3.3	1975
30	56.4	13.6	68.3	20.2	85	29.4	1963	44.6	7.0	35	1.7	1975
31												
Monthly	59.4	15.2	71.9	22.2	95	35.0	1976	46.8	8.2	32	.0	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET–SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME	YEARS	MONTH
	SANTA ANA, CALIFORNIA	1945-1947 1951-1953 9999-9999	DECEMBER

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	56.5	13.6	69.4	20.8	84	28.9	1979	43.6	6.4	35	1.7	1975
2	56.2	13.4	70.0	21.1	82	27.8	1969	42.5	5.8	32	.0	1945
3	56.7	13.7	69.5	20.8	81	27.2	1981	44.0	6.7	33	.6	1967*
4	56.1	13.4	68.0	20.0	91	32.8	1979	44.3	6.8	35	1.7	1973*
5	56.4	13.6	67.8	19.9	92	33.3	1979	45.1	7.3	36	2.2	1967
6	54.8	12.7	67.4	19.7	87	30.6	1979	42.1	5.6	31	-.6	1968
7	55.0	12.8	67.2	19.6	84	28.9	1979	42.8	6.0	34	1.1	1968
8	55.6	13.1	67.1	19.5	83	28.3	1981	44.1	6.7	35	1.7	1945
9	55.6	13.1	68.5	20.3	86	30.0	1973	42.6	5.9	28	-2.2	1978
10	55.6	13.1	68.3	20.2	85	29.4	1973	42.9	6.1	31	-.6	1945
11	55.8	13.2	67.7	19.8	83	28.3	1980	43.9	6.6	35	1.7	1972
12	54.3	12.4	66.4	19.1	77	25.0	1980*	42.1	5.6	34	1.1	1971
13	53.4	11.9	65.6	18.7	78	25.6	1978	41.3	5.2	34	1.1	1945
14	53.0	11.7	66.7	19.3	76	24.4	1981*	39.3	4.1	30	-1.1	1945
15	54.3	12.4	68.5	20.3	86	30.0	1980	40.1	4.5	32	.0	1979
16	55.3	12.9	69.6	20.9	90	32.2	1980	41.1	5.1	33	.6	1975*
17	55.8	13.2	67.6	19.8	81	27.2	1980	43.9	6.6	35	1.7	1979*
18	54.3	12.4	65.3	18.5	78	25.6	1979	43.4	6.3	33	.6	1975
19	54.1	12.3	65.3	18.5	78	25.6	1973	43.0	6.1	37	2.8	1945
20	53.6	12.0	66.2	19.0	82	27.8	1972	40.9	4.9	32	.0	1968*
21	53.6	12.0	64.9	18.3	77	25.0	1972	42.4	5.8	28	-2.2	1968
22	55.4	13.0	65.6	18.7	72	22.2	1981	44.4	6.9	31	-.6	1968
23	54.7	12.6	65.9	18.8	77	25.0	1967	43.4	6.3	34	1.1	1968
24	55.1	12.8	66.3	19.1	82	27.8	1980	43.8	6.6	35	1.7	1968
25	56.0	13.3	66.3	19.1	81	27.2	1980	45.7	7.6	38	3.3	1976*
26	54.7	12.6	66.4	19.1	84	28.9	1980	42.9	6.1	35	1.7	1982*
27	53.3	11.8	63.5	17.5	74	23.3	1972	43.1	6.2	35	1.7	1951
28	54.7	12.6	64.3	17.9	81	27.2	1975	45.2	7.3	36	2.2	1979
29	54.2	12.3	64.8	18.2	92	33.3	1980	43.6	6.4	34	1.1	1971
30	54.5	12.5	66.6	19.2	93	33.9	1980	42.4	5.8	35	1.7	1972
31	54.3	12.4	65.9	18.8	82	27.8	1968	42.8	6.0	34	1.1	1978*
Monthly	54.9	12.7	66.8	19.3	93	33.9	1980	43.0	6.1	28	-2.2	1978*

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

[illegible] STATION | SANTA ANA, CALIFORNIA STATION NAME | 45-47, 51-53, 63, 67-82 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				79	79	79	84	96	92	96	92	76	
46	79	75	80	85	89	82	96	87	91	92	80	69	92
47	74	80	84	93	90	79	94						
51													
52													
53					94								
63						82	84	87	112	86			
67			91	71	96	82	88	96	94	97	84	77	
68	81	83	92		88	86	90	99	96	92	86	82	
69	87	74	83	84	90	84	88	99					
70	73	83	83	83	92	92	94	93	101	85	82	73	101
71	83	83	80	89	84	86	89	92	102	99	81	70	102
72	80	75	75	81	90	83	97	96	92	94	91	92	97
73	77	75	69	82	96	97	87	92	99	95	83	86	99
74	78	81	75	82	90	88	90	82	92	97	89	78	97
75	83	76	75	73	75	81	91	86	101	88	87	81	101
76	89	82	85	81	84	102	88	96	90	96	95	83	102
77	85	86	77	82	77	81	95	89	96	84	90	83	96
78	74	80	92	77	97	98	95		104	92	87	78	
79	76	75	89	82	102	103	92	91	101	89	83	92	103
80	84	83	80	89	81	100	100	94	96	91	86	93	100
81	82	87	76	96	90	107	104	100	97	95	92	83	107
82													
MEAN	80.2	79.9	80.9	82.9	88.2	88.5	91.8	92.6	97.4	92.5	86.1	80.4	99.8
S.D.	5.764	4.303	6.300	6.392	7.547	8.978	5.503	5.123	5.702	4.094	4.500	6.761	3.898
TOTAL OBS.	496	453	527	510	589	570	589	527	510	527	480	496	6273

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

93114	SANTA ANA, CALIFORNIA	45-47, 51-53, 63, 67-82
STATION	STATION NAME	YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
51											85	70	MAX TEMP
											23	21	DAYS
52	76	80					89						MAX TEMP
	25	27					29						DAYS
63											86		MAX TEMP
											27		DAYS
68				82									MAX TEMP
				9									DAYS
69									87		84	82	MAX TEMP
									17		17	30	DAYS
78								89					MAX TEMP
								30					DAYS
82	79	86	81	92	76	76	93	92	103	98	87	77	MAX TEMP
	15	19	6	25	11	14	22	6	22	14	11	25	DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

72114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 45-47, 51-53, 63, 67-82 (YEARS)

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				34	42	50	55	48	44	41	32	30	
46	29	29	36	41	42	48	53	50	51	38	38	36	29
47	31	38	36	41	46	50	50						
51													
52													
53					39								
63						51	51	56	55	51			
67			31	34	38	42	49	57	54	44	39	33	
68	30	41	38		45	52	52	53		43	38	31	
69	34	39	40	45	51	54	55	58					
70	34	40	44	41	48	51	57	59	53	43	39	37	34
71	34	35	34	42	43	47	57	58	49	30	37	34	35
72	29	36	40	41	49	54	56	57	52	43	39	34	29
73	30	38	35	35	43	50	56	50	50	36	37	33	30
74	32	34	38	43	48	53	56	54		50	37	37	
75	32	34	39	39	44	52	54	54	56	45	35	33	32
76	31	36	36	42	51	53	60	56	58	44	39	35	31
77	38	38	38	45	47	54	55	58	52	48	40	43	38
78	40	42	45	42	50	55	56		51	51	39	28	
79	31	35	38	44	48	52	54	56	57	44	33	32	31
80	39	39	43	44	44	50	55	57	54	43	34	36	34
81	36	36	42	41	48	55	57	58	56	41	41	35	35
82													
MEAN	33.1	36.9	38.4	40.8	45.2	51.2	55.2	55.2	52.8	43.2	37.3	34.0	32.1
S.D.	3.519	3.202	3.692	3.486	3.731	3.155	2.500	3.270	3.590	5.356	2.575	3.688	2.844
TOTAL OBS.	496	452	527	519	589	570	589	527	450	527	480	496	6213

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

92114 STATION | SANTA ANA, CALIFORNIA STATION NAME | 45-47, 51-53, 63, 67-82 YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
51											36	32	MIN TEMP
											23	22	DAYS
52	28	33					45						MIN TEMP
	28	27					29						DAYS
63											39		MIN TEMP
											27		DAYS
68				44					49				MIN TEMP
				9					27				DAYS
69									59		42	36	MIN TEMP
									17		17	30	DAYS
74									52				MIN TEMP
									28				DAYS
78								55					MIN TEMP
								30					DAYS
82	35	44	42	39	51	52	55	62	56	46	43	35	MIN TEMP
	15	19	6	25	11	14	22	6	22	14	11	25	DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

PSYCHROMETRIC SUMMARY

23114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	YEARS	MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 89															.0			1	1		
88/ 87															.0			1	1		
[illegible] 85										.0				.1				3	3		
[illegible] 83										.0					.0			2	2		
[illegible] 81								.0				.0	.1	.1				6	6		
[illegible] 79									.0	.1	.0	.1	.0		.0			9	9		
78/ 77							.0	.0		.2	.2	.1	.1					17	17		
76/ 75				.0			.1	.2		.1	.1	.1	.2					19	19		
74/ 73					.1	.0	.1	.3	.2	.1	.2	.1	.0					25	25		
72/ 71		.0				.1	.2	.2	.2	.2	.2	.1						35	35		
[illegible] 69				.1	.2	.3	.2	.3	.1	.2		.1						53	53	3	
[illegible] 67				.2	.4	.7	.4	.2	.2	.4	.1							63	63	1	1
66/ 65		.1	.4	.6	.9	.6	.4	.5	.3	.0	.1							96	56	5	1
[illegible] 63		.4	.4	1.1	.9	1.1	.5	.2	.3	.2	.1							126	126	15	
62/ 61		1.1	1.1	1.2	.9	1.0	.4	.2	.2	.1	.1							153	153	55	17
[illegible] 59	.1	1.4	1.6	1.5	1.0	.6	.2	.5	.1	.1								194	194	99	34
[illegible] 57	.2	2.4	2.3	1.3	1.1	.5	.4	.1	.1	.1								230	230	202	88
56/ 55	.6	3.4	2.1	1.3	1.2	.7	.4	.4	.2									258	254	260	150
[illegible] 53	.1	3.8	2.3	.8	.6	.2	.0	.2	.2									199	199	264	191
52/ 51	.2	3.5	2.6	1.0	.5	.2	.2	.2	.0									210	210	261	219
[illegible] 49	.2	3.4	2.0	.9	.4	.2												171	171	265	191
[illegible] 47	.3	2.8	1.5	.7	.2	.1		.1										139	139	240	233
[illegible] 45	.4	2.7	1.8	.6	.1	.1												141	141	211	222
[illegible] 43	.3	1.9	1.4	.4	.1	.0												103	103	165	191
[illegible] 41	.2	1.7	1.0	.3		.1												81	81	131	173
[illegible] 39	.2	1.3	.3	.4	.1	.1												72	72	112	179
[illegible] 37	.1	1.1	.3															37	37	88	137
[illegible] 35		.2	.4	.1														18	18	68	132
[illegible] 33	.1	.2	.1															9	9	27	79
[illegible] 31		.2	.1															7	7	15	82
[illegible] 29																				8	45
[illegible] 27																				1	36
[illegible] 25																					25
24/ 23																					18

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

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

[illegible] STATION | SANTA ANA, CALIFORNIA STATION NAME | 73-42 YEARS | JAN MONTH

PAGE 2 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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			Dry Bulb	Wet Bulb	Dew Point
[illegible] 21																						
[illegible] 16																						16
[illegible] 17																						12
[illegible] 13																						13
[illegible] 13																						[illegible]
[illegible] 11																						3
[illegible] 8																						
[illegible] 9																						
TOTAL	[illegible]	32.9	22.1	12.9	8.6	6.7	3.5	3.8	2.8	2.0	1.0	.6	.4	.2	.2				2479	2479		2479
																			2479		2479	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	13522627	175677	70.9	20.60[illegible]	2479							
Dry Bulb	7652703	135801	54.8	9.084	2479		2.1	70.5	25.2	4.5		744.0
Wet Bulb	6166940	122464	49.4	6.075	2479		6.6	1.2				744.0
Dew Point	4993465	108251	43.9	9.299	2479		82.5	.3				744.0

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

7711A	SANTA ANA, CALIFORNIA	73-92	FEB
STATION	STATION NAME	YEARS	MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
87 / 85										•0				•0	•0			3	3		
86 / 82										•0			•1					3	3		
84 / 81										•1	•1	•0	•0					6	6		
80 / 79						•1		•0	•1	•2	•0	•2	•2	•3				24	24		
79 / 77								•1	•3	•0	•0	•1	•1					14	14		
76 / 75					•0	•0	•2	•2	•2	•0	•0	•1	•0					21	21		
74 / 73			•1		•0	•2	•3	•2	•1	•1	•2	•1	•0					30	30		
72 / 71			•1		•3	•4	•4	•2	•3	•3	•4	•0						48	48		
71 / 69	•1		•1	•1	•1	•5	•6	•5	•4	•6		•1						63	63	3	1
69 / 67			•1	•3	•2	•3	•6	•4	•2	•3	•2	•0						72	72	3	1
67 / 65		•0	•4	•4	1•1	•8	•4	•2	•5	•2	•1							109	109	9	1
64 / 63		•6	•8	1•1	1•3	•9	•4	•4	•2	•3	•1							147	147	31	4
62 / 61	•1	1•5	1•9	1•8	1•7	•8	•5	•3	•1	•0								161	161	76	15
60 / 59		1•6	2•2	2•4	•8	•4	•4	•2	•1	•0								179	179	102	28
58 / 57	•0	2•3	3•1	1•9	•8	•2	•1	•1	•1									197	197	214	83
57 / 55	•1	3•5	2•9	1•2	•5	•4		•1	•0									211	211	267	121
56 / 53	•2	4•2	3•2	•6	•3	•2	•1	•1										200	200	313	193
54 / 51	•3	4•3	2•3	1•0	•3	•2	•1											191	191	282	257
52 / 49	•6	3•7	1•5	•4	•2	•0		•1										165	165	254	299
50 / 47	•6	3•9	1•3	•4	•3	•0												148	148	209	267
49 / 45	•2	2•6	1•1	•5	•2													107	107	161	209
46 / 43	•2	2•2	•3	•4		•1												85	85	117	181
44 / 41	•2	1•3	•3	•1														46	46	88	135
42 / 39	•0	•7	•7	•0														23	23	67	112
39 / 37	•1	•8	•2															15	15	45	66
37 / 35	•0	•3	•0															8	8	18	73
34 / 33																				7	65
32 / 31																					47
30 / 29																					31
28 / 27																					20
26 / 25																					13
24 / 23																					6
22 / 21																					5
20 / 19																					6

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

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-92	FEB

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible]																					7
[illegible]																					4
[illegible]																					1
[illegible]																					2
[illegible]																					1
TOTAL	1.0	22.6	22.5	12.9	9.1	5.7	4.2	2.3	2.6	2.4	1.2	.7	.5	.3	.0			2256	2254		2256
																		2256		2256	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	12[illegible]937	162837	72.2	20.159	2256							
Dry Bulb	737951[illegible]	127502	56.5	8.771	2256			34.6	30.1	6.6		672.0
Wet Bulb	[illegible]86478	115382	51.1	6.151	2256			1.8				672.0
Dew Point	4995852	108074	48.1	8.0[illegible]	2256		48.8	.6				672.0

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PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	MAR

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] / 91														.0				1	1		
88 / 87											.0			.0				2	2		
86 / 85												.0	.0					2	2		
[illegible] / 83											.0		.0					2	2		
[illegible] / 81							.0	.0			.1	.1						6	6		
[illegible] / 79									.1	.1	.1	.0						8	8		
78 / 77							.1	.1	.1	.0	.0	.1	.0	.0				13	13		
76 / 75						.0	.1	.2	.2	.0	.0	.1	.0					18	18		
74 / 73						.1	.1	.3	.2	.2		.1	.0					26	26		
72 / 71				.0	.0	.1	.3	.2	.4	.2	.0	.1						38	38	1	
[illegible] / 69				.1	.1	.6	.6	.2	.1	.2	.2	.1						71	71		
[illegible] / 67				.2	.2	1.4	.6	.3	.1	.2	.1							89	89	4	
66 / 65			.1	.3	1.9	1.1	.6	.1	.1	.1	.1	.0						115	115	5	1
[illegible] / 63		.1	.3	1.4	2.0	1.3	.4	.1	.1	.1								143	143	22	
62 / 61		.5	1.3	2.0	2.1	.9	.5	.2	.2	.1	.0							154	194	57	4
[illegible] / 59		1.6	2.9	2.2	2.0	1.3	.7	.2	.0	.0								254	254	118	19
[illegible] / 57	.1	2.6	3.5	1.7	1.4	.5	.1	.1	.1	.0								252	252	254	71
56 / 55	.1	3.7	4.2	2.1	.5	.1	.1	.0										269	269	304	130
[illegible] / 53	.1	3.3	3.7	1.5	.4	.1	.1											236	236	350	227
52 / 51	.3	4.3	3.2	.7	.3	.1		.0										221	221	325	309
50 / 49	.2	3.9	2.2	.5	.2	.1	.1											180	180	362	333
[illegible] / 47	.1	3.0	1.7	.4	.2													133	133	232	317
46 / 45	.0	2.0	1.5	.3														95	95	163	300
[illegible] / 43	.1	1.3	.5	.2	.1													53	53	118	243
42 / 41	.2	.8	.7	.1														46	46	83	162
40 / 39	.0	.2	.1	.1														9	9	43	125
38 / 37		.1																3	3	25	69
36 / 35		.0																1	1	6	55
34 / 33																				2	30
32 / 31																					14
[illegible] / 29																					21
[illegible] / 27																					20
[illegible] / 25																					10
24 / 23																					7

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

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PSYCHROMETRIC SUMMARY

23114	SANTA ANA, CALIFORNIA	73-82	MAY
STATION	STATION NAME	YEARS	MONTH

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 21																					4
[illegible] 19																					9
[illegible] 17																					1
[illegible] 15																					5
[illegible] 13																					1
[illegible] 9																					1
[illegible] 5																					1
[illegible] 3																					1
TOTAL	1.3	2?.7	25.9	14.2	12.4	7.9	3.8	1.9	1.7	1.2	.8	.7	.2	.1				2480	2480		2480

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	13521548	177776	71.7	17.714	2480							
Dry Bulb	3168140	141006	56.9	7.802	2480			82.9	23.4	5.1		744.0
Wet Bulb	6849101	127697	51.5	5.459	2480			1.5				744.0
Dew Point	5516843	115693	46.7	6.949	2480		28.2					744.0

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PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	APR

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible]														.0				1	1		
[illegible]															.0			1	1		
[illegible]														.0				1	1		
[illegible]																.0		1	1		
[illegible]													.0		.0			2	2		
[illegible]									.0	.1		.0	.0	.0	.1			8	8		
[illegible]								.0		.1	.0	.0	.1	.1	.1			13	13		
[illegible]							.1	.1	.2	.1	.1	.2	.1	.0				20	20		
[illegible]								.3	.2	.3	.2	.1		.0				34	34		
[illegible]							.5	.3	.3	.1	.1	.1	.2	.0				41	41		
[illegible]					.2	.3	.7	.5	.4	.1	.0		.2					62	62		
[illegible]				.0	.3	.7	.7	.4	.1	.2	.1	.1	.0					63	63		
[illegible]			.1	.2	1.1	2.0	.6	.3	.0	.0	.0	.0	.0					105	105	1	
[illegible]			.1	.3	1.3	1.9	.8	.4	.2	.1	.0	.0						125	125	8	
[illegible]			.2	.7	2.8	1.9	.7	.2	.1	.1	.0							155	155	16	
[illegible]		.1	.5	1.4	2.0	1.7	.4	.2	.1	.1								159	159	80	3
[illegible]		.5	2.1	3.2	2.0	1.1	.2	.2		.0								219	219	115	7
[illegible]		.8	4.0	3.0	1.4	.4	.1	.0	.0	.0								234	234	185	20
[illegible]		2.0	4.2	2.3	.8	.1	.1	.0										231	231	303	77
[illegible]	.0	4.0	4.2	2.1	.4	.1	.0	.3										260	260	371	176
[illegible]	.2	2.5	3.7	1.3	.2	.1	.0											188	188	375	309
[illegible]	.4	3.2	3.8	.4	.1													121	191	300	372
[illegible]	.1	3.2	2.5	.4	.1		.0											151	151	270	348
[illegible]	.0	2.0	.9	.2		.0												77	77	190	304
[illegible]		1.0	.3	.1														33	33	111	285
[illegible]	.0	.2	.4															15	15	58	199
[illegible]		.2	.1	.0														7	7	20	104
[illegible]	.0	.2																2	2	15	53
[illegible]		.0																1	1	1	38
[illegible]																				1	23
[illegible]																					15
[illegible]																					8
[illegible]																					13
[illegible]																					5

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

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PSYCHROMETRIC SUMMARY

[illegible] SANTA ANA, CALIFORNIA 73-82 [illegible]
STATION STATION NAME YEARS MONTH

PAGE 2
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 25																					8
[illegible] 23																					13
[illegible] 21																					5
[illegible] 19																					3
[illegible] 17																					4
16/ 15																					2
[illegible] 13																					1
12/ 11																					1
TOTAL	.9	17.7	26.8	15.5	12.5	10.5	5.0	3.1	1.7	1.4	.7	.6	.7	.3	.2	.0		2400	2400	2400	2400

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	12255301	166299	69.3	17.55	2400							
Dry Bulb	9718375	143361	59.7	8.098	2400			143.1	55.2	10.5	.3	720.0
Wet Bulb	6450426	128582	53.6	5.064	2400			2.7				720.0
Dew Point	5712769	116119	48.4	6.279	2400		18.0					720.0

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PSYCHROMETRIC SUMMARY

[illegible] | SANTA ANA, CALIFORNIA | 73-82 | MAY

STATION | STATION NAME | YEARS | MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] / 99																	.0	1	1		
[illegible] / 97														.0			.1	3	3		
[illegible] / 93																	.0	1	1		
[illegible] / 93												.0		.0		.0	.0	4	4		
[illegible] / 91									.0			.0						2	2		
[illegible] / 89										.0	.0	.1	.0					5	5		
[illegible] / 87										.1				.0	.0			4	4		
[illegible] / 85						.0			.1	.0	.0			.0				6	6		
[illegible] / 83								.0	.0	.0		.0	.1	.1				8	8		
[illegible] / 81							.2	.1	.3	.2		.1						20	20		
[illegible] / 79						.1	.2	.2	.2			.0						17	17		
79 / 77					.1	.1	.3	.1	.0	.0	.2							22	22		
76 / 75					.1	.1	.5	.2	.0									42	.2	.2	
74 / 73					.4	1.6	.9	.2	.2	.1								83	83		
[illegible] / 71				.2	.7	2.9	.7	.2	.0									107	107	3	1
[illegible] / 69			.0	.7	2.3	2.8	.8	.2										157	157	16	
[illegible] / 67			.3	1.0	2.9	2.7	.5	.2										161	161	25	1
[illegible] / 65		.2	1.6	2.8	3.0	1.7	.8	.2										243	243	77	3
[illegible] / 63		.7	3.8	5.0	2.1	.8	.1	.0										306	306	132	16
[illegible] / 61		1.7	6.7	4.5	.7	.2	.1											345	345	263	62
[illegible] / 59	.1	3.1	6.6	3.0	.9	.1												349	349	409	142
[illegible] / 57	.1	4.2	3.7	1.4	.4													249	249	565	285
57 / 55	.1	3.3	2.0	.8	.1													137	137	439	525
[illegible] / 53	.2	1.7	1.3	.6	.1													102	102	248	485
[illegible] / 51		1.2	.3	.1														45	45	144	354
[illegible] / 49		.8	.5	.1														24	24	98	241
[illegible] / 47		.2	.2	.0														11	11	33	145
[illegible] / 45		.1																2	2	20	89
[illegible] / 43	.1		.0															3	3	6	50
[illegible] / 41																					33
[illegible] / 39																				1	25
[illegible] / 37																					9
[illegible] / 35																					4

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

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PSYCHROMETRIC SUMMARY

[illegible] STATION | SANTA ANA, CALIFORNIA STATION NAME | 73-82 YEARS | MAY MONTH

PAGE 2 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible]	•5	15•8	27•8	20•2	13•8	12•5	4•7	1•7	•9	•5	•3	•3	•1	•2	•0	•0	•3	2479	2479	2479	2479

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	13157108	177088	71.4	14.341	2479							
Dry Bulb	10027417	156729	63.2	6.917	2479			199.0	65.4	17.4	2.7	744.0
Wet Bulb	8202022	142196	57.4	4.291	2479			13.8	.6			744.0
Dew Point	7037187	131587	53.1	4.601	2479			.6				744.0

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PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
7114	SANTA ANA, CALIFORNIA	73-82	JUN

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
105/105																	.0	1	1		
104/103																	.0	1	1		
102/101															.1		.1	5	5		
100/ 99																.1	.0	3	3		
98/ 97												.0		.0	.0	.0	.0	5	5		
96/ 95												.0	.0	.0	.1			5	5		
94/ 93										.0	.0	.1	.1				.0	7	7		
92/ 91									.0		.0	.1	.1				.0	9	9		
90/ 89									.1	.2	.3	.1		.0		.0		17	17		
88/ 87								.2	.2	.1	.3			.0		.1		22	22		
86/ 85							.1	.2	.4	.5	.1					.0		31	31		
84/ 83					.0	.0	.5	.3	.3	.1	.1	.0				.0		36	36		
82/ 81					.1	.7	.8	.5	.2	.0	.0							55	55		
80/ 79				.0	.1	1.0	.7	.6	.4	.0								67	67		
78/ 77					.3	.9	1.2	.2	.3									65	65		
76/ 75				.1	.8	2.5	1.1	.5	.1									122	122	4	
74/ 73			.1	.5	1.9	2.1	1.0	.1	.1									139	139	20	
72/ 71			.5	1.0	2.7	2.4	.5	.0	.0									166	166	48	2
70/ 69		.2	.7	1.9	2.9	1.4	.1	.0										171	171	91	5
68/ 67		.5	2.6	2.7	1.9	.5		.0										199	199	156	18
66/ 65	.0	1.3	3.7	4.2	.7		.0											240	240	247	74
64/ 63	.2	3.1	6.8	3.6	.5													327	327	316	131
62/ 61	.1	5.5	6.1	2.0	.2													332	332	431	291
60/ 59	.4	4.0	3.0	.5	.1													192	192	502	801
58/ 57	.3	2.2	1.8	.0														103	103	323	589
56/ 55	.1	1.0	.6	.1														43	43	151	810
54/ 53	.0	.5	.5															24	24	71	242
52/ 51	.0		.2															5	5	21	137
50/ 49																				7	43
48/ 47																				2	19
46/ 45																					10
44/ 43																					7
42/ 41																					4
40/ 39																					2

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

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PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]114	SANTA ANA, CALIFORNIA	73-82	JUN

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 35																					1
34 / 33																					1
[illegible] 31																					1
30 / 29																					1
[illegible] 27																					2
24 / 23																					1
TOTAL	1.0	1[illegible].4	26.0	16.5	12.0	10.9	6.0	2.9	2.4	1.1	.7	.5	.3	.2	.2	.3	.4	2392	2392	2392	2392

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	15[illegible]1166[illegible]	172274	72.0	15.896	239[illegible]							
Dry Bulb	11162225	162217	67.8	8.211	2392			338.9	177.6	69.2	8.1	720.0
Wet Bulb	9086402	147058	61.5	4.357	2392			96.0	7.2			720.0
Dew Point	7986895	137500	57.5	4.238	2392		1.5	7.5	.6			720.0

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	JUL

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible]													.0		.0		.0	1	1		
[illegible]																		2	2		
[illegible]											.2			.0				3	3		
[illegible]												.0						1	1		
[illegible]									.1	.1	.2	.1						13	13		
[illegible]								.0	.0	.2		.1	.0					12	12		
[illegible]						.0	.1	.2	.5	.4	.3	.0	.0					41	41		
[illegible]							.1	.6	.5	.3	.2							42	42		
[illegible]						.2	1.0	1.2	.5	.1		.0						78	78		
[illegible]					.1	.7	2.1	1.1	.1									102	102		
[illegible]					.2	3.1	2.3	.3	.1	.1								155	155		
7[illegible]				.0	1.1	2.4	1.3	.3		.0								150	150	1	
[illegible]		.		.4	2.4	3.2	1.2	.0	.0									179	179	8	
[illegible]		.0	.0	1.5	3.3	1.6	.2											176	176	39	2
[illegible]		.1	1.3	3.1	2.2	.4	.0											182	182	118	
[illegible]		.4	3.2	4.6	1.1	.2												248	248	257	19
[illegible] 67		1.3	6.9	2.4	.5													272	272	370	61
6[illegible] 65		4.2	7.3	1.5	.0													321	321	487	239
[illegible] 61	.2	5.1	4.8	.8	.0													272	272	474	511
[illegible] 61	.2	7.5	1.9	.2														116	116	324	660
[illegible] 59	.2	2.1	.8															77	77	205	500
[illegible] 57	.1	.5	.0															25	25	96	284
5[illegible] 55	.1	.3	.0															11	11	27	139
[illegible] 53			.0															1	1	15	95
[illegible] 51																				1	17
[illegible] 49																					4
[illegible] 47																					1
[illegible] 45																					2
[illegible]	.3	10.7	27.9	14.4	10.9	11.3	8.9	3.7	1.9	1.4	.8	.4	.1	.0	.0		.0	2480	2480		2480
																				2480	

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	13[illegible]22 [illegible]0	18[illegible]210	72.7	14.56[illegible]	248[illegible]							
Dry Bulb	1253[illegible]69[illegible]	176[illegible]68	71.0	7.403	248[illegible]			447.1	285.5	107.4	2.1	746.0
Wet Bulb	10-02367	160331	64.6	3.065	248[illegible]			237.3	14.4			746.0
Dew Point	9[illegible]60493	151347	61.0	3.246	2480			24.5	.6			746.0

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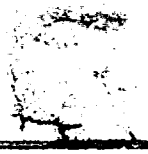

PSYCHROMETRIC SUMMARY

23114	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	YEARS	MONTH

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
100 / 99															.0			1	1		
98 / 97															.0	.0		2	2		
96 / 95												.1	.0		.0			4	4		
94 / 93										.1	.0	.1	.1					7	7		
92 / 91									.0	.0	.2	.1						9	9		
90 / 89						.0		.0		.3	.1	.0						12	12		
88 / 87							.0	.1	.2	.2	.2							21	21		
86 / 85						.0	.1	.4	.6	.3								38	38		
84 / 83					.0	.5	1.0	1.1	.4		.0							76	76		
82 / 81				.0	.0	.8	2.1	1.2	.1									104	104		
80 / 79			.0		.4	2.7	2.3	.6	.0									151	151	1	
78 / 77			.1	.1	1.6	3.6	1.9	.2										185	185		1
76 / 75		.1	.1	.8	2.5	2.9	.5											173	173	13	
74 / 73		.0	.4	1.6	2.7	1.3	.2											158	158	40	4
72 / 71	.0	.2	2.5	4.6	1.9	.4												236	236	114	8
70 / 69		.8	5.6	5.0	1.0	.0												311	311	287	25
68 / 67	.1	1.6	7.9	2.9	.2	.0												306	306	421	95
66 / 65		3.6	5.8	.9														257	257	507	255
64 / 63		3.8	3.5	.1														164	164	497	513
62 / 61		3.2	1.6	.1														121	121	289	721
60 / 59	.2	2.1	.9	.0														79	79	176	611
58 / 57	.1	.9	.4															33	33	86	302
56 / 55	.1	.1																5	5	34	94
54 / 53		.2																5	5	13	32
52 / 51	.0																	1	1	1	15
TOTAL	.7	16.6	28.5	16.4	13.2	12.3	8.2	3.8	1.3	.9	.6	.3	.1		.1	.0			2479		2479
																		2479		2479	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	13794037	181559	73.2	14.160	2479							
Dry Bulb	12690763	176467	71.2	7.215	2479			535.4	282.4	102.9	9.2	744.0
Wet Bulb	10508943	161121	65.0	3.963	2479			262.9	16.2	.3		744.0
Dew Point	2401869	152455	61.5	3.245	2479			40.8	3.3			744.0

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PSYCHROMETRIC SUMMARY

[illegible] STATION | SANTA ANA, CALIFORNIA STATION NAME | 73-82 YEARS | SEP MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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			Dry Bulb	Wet Bulb	Dew Point
[illegible]																.0	.0		2	2		
[illegible]																.0			1	1		
[illegible]															.0	.2	.0		6	6		
[illegible]														.0	.1	.1	.0		7	7		
[illegible]												.0	.1	.1		.0	.1		9	9		
[illegible]											.0	.0	.0	.0	.1	.1	.0		20	20		
[illegible]									.0	.0	.2	.0	.0	.0	.0	.0			22	22		
[illegible]						.0		.1	.3	.1	.1	.0	.1	.0		.0			22	22		
[illegible]							.1	.2	.5	.3	.2	.1	.0	.0	.1				36	39		
[illegible]				.2			.2	.4	.4	.3	.2	.1	.0	.0					35	35		
[illegible]				.2			.3	.8	.4	.3	.0		.0						67	67		
[illegible]					.1	.2	.6	.9	.1		.0								58	58		
[illegible]					.2	1.0	1.2	.6	.1	.0	.0		.0						90	90	2	1
7[illegible]				.2	1.1	1.5	1.2	.8	.2	.0		.0							110	110	1	
[illegible]		.1	.1	.5	1.5	2.7	.8	.3	.1	.0		.0							147	147	12	1
[illegible]		.1	.4	1.5	3.2	1.9	.8	.2	.1										181	181	52	1
[illegible]		.5	1.5	2.2	3.[illegible]	.5	.2		.1	.0	.2								194	198	109	5
7[illegible]		1.3	4.1	8.7	1.9	.2	.0	.0		.0									298	298	184	33
[illegible]	.0	2.5	4.2	3.8	.8	.2		.1											326	326	307	107
[illegible]	.1	2.[illegible]	6.5	2.3	.2	.1	.1	.2											283	283	416	228
[illegible]	.1	4.0	3.1	.9		.1													192	192	514	320
[illegible]	.2	3.0	1.3	.2	.2		.0												122	122	389	534
[illegible]	.1	2.5	1.3	.1	.1			.0											99	99	193	500
[illegible]	.2	1.0	.5	.0															37	37	121	307
5[illegible]	.1	.2	.2	.1	.0														21	21	65	152
[illegible]	.0	.1	.2	.0	.0														7	7	26	89
[illegible]	.0	.0		.0															2	2	13	36
[illegible]																			1	1	3	23
[illegible]																					2	20
[illegible]																					2	14
[illegible]																						4
[illegible]																						3
[illegible]																						7
[illegible]																						2

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

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PSYCHROMETRIC SUMMARY

[illegible] SANTA ANA, CALIFORNIA 73-82 SEP

STATION STATION NAME YEARS MONTH

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 35																					1
[illegible] 33																					2
[illegible] 31																					5
[illegible] 27																					1
TAL	.9	18.4	25.3	16.4	12.2	9.6	5.6	4.2	2.2	1.5	1.1	.7	.5	.3	.4	.6	.3	2397	2397	2397	2397

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	1[illegible]122120	172672	72.0	16.888	2397							
Dry Bulb	12152714	169562	70.7	8.121	2397			490.5	244.8	100.6	13.5	720.0
Wet Bulb	9900796	153704	64.1	4.322	2397			200.6	20.1	.6		720.0
Dew Point	8739036	144254	60.2	4.906	2397		2.1	43.6	2.1	.3		720.0

PSYCHROMETRIC SUMMARY

93114	SANTA ANA, CALIFORNIA	73-92	OCT
STATION	STATION NAME	YEARS	MONTH

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] / 97															.0	.0			2	2		
[illegible] / 95																		.1	3	3		
[illegible] / 93																.0			1	1		
[illegible] / 91														.1	.2	.0	.1		9	9		
[illegible] / 89								.1				.1	.0	.1	.1	.3			16	16		
88 / 87									.2		.1		.2	.0	.0	.2			19	19		
[illegible] / 85							.0	.1	.2	.1	.1	.1	.1	.1	.1	.0			26	26		
[illegible] / 83							.1	.2	.2	.2	.2	.2	.1	.1	.1				34	34		
[illegible] / 81						.0	.4	.2	.2	.1	.2	.0	.2	.2	.2				45	45		
[illegible] / 79			.1		.0	.0	.4	.2	.3	.0	.2	.1	.0	.2					56	56		
[illegible] / 77					.4	.9	.8	.4	.1	.0	.2	.2	.2	.2					85	85		
[illegible] / 75				.1	1.2	1.7	.5	.4	.2		.1	.1	.1	.0					111	111	3	1
[illegible] / 73				.5	1.2	1.5	.7	.1	.1	.1	.1	.1	.2						112	112	2	
[illegible] / 71			.3	.9	2.0	1.9	.8	.2	.2		.2	.2							154	154	14	
[illegible] / 69		.1	1.1	1.5	1.7	.7	.5	.5	.2	.0	.1	.2							164	164	56	4
[illegible] / 67		.1	2.3	2.7	1.5	.8	.3	.3	.1	.1	.1								239	239	130	8
[illegible] / 65	.1	2.1	4.1	2.8	.6	.5	.0	.2	.0		.1								261	261	216	44
[illegible] / 63	.0	2.8	3.7	2.1	.7	.1	.0	.2											240	240	361	184
[illegible] / 61	.1	3.9	3.3	.8	.3	.2	.1	.0	.0										218	218	339	286
[illegible] / 59	.5	3.7	2.7	.4	.4	.2	.1	.0		.0									201	201	346	314
[illegible] / 57	.1	2.6	2.0	.5	.2	.2	.0	.1											136	136	305	333
56 / 55	.4	1.6	1.3	.6	.4	.1													118	118	209	327
[illegible] / 53	.2	.8	1.0	.4	.2	.1	.0												65	65	134	201
52 / 51	.1	1.6	.8	.5	.2	.1	.0												84	84	105	159
[illegible] / 49	.1	.8	.6	.3	.1	.1													49	49	108	122
[illegible] / 47		.1	.3	.2	.2														20	20	69	92
[illegible] / 45				.0	.0														2	2	38	81
[illegible] / 43			.1																3	3	27	57
[illegible] / 41			.1																1	1	7	42
[illegible] / 39		.1	.1																3	3	9	36
[illegible] / 37		.0																	1	1	3	35
[illegible] / 35																					2	23
[illegible] / 33																						26
32 / 31																						17

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

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PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	OCT

PAGE 2
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 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	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
[illegible] / 2[illegible]																					22
[illegible] / 27																					20
[illegible] / 25																					13
24 / 23																					6
[illegible]2 / 21																					4
[illegible] / 19																					9
[illegible] / 17																					4
TOTAL	1.[illegible]	21.0	24.9	14.[illegible]	11.6	9.4	4.7	3.2	1.8	.5	1.6	1.2	1.2	1.1	.8	.7	.2		2480		2480
																		2480		2480	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	13[illegible]95001	173119	69.6	20.187	2480							
Dry Bulb	10948494	163294	65.8	8.903	2480			323.4	156.3	54.6	1.8	744.0
Wet Bulb	8746100	146520	59.1	6.012	2480			61.5	1.5			744.0
Dew Point	7402484	133732	53.9	8.779	2480		28.5	3.9	.3			744.0

PSYCHROMETRIC SUMMARY

93114	SANTA ANA, CALIFORNIA	73-82	NOV
STATION	STATION NAME	YEARS	MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] / 95																.0		1	1		
[illegible] / 93																	.0	1	1		
[illegible] / 91																.0	.0	2	2		
[illegible] / 89											.0			.0		.1		4	4		
[illegible] / 87											.1	.0		.1	.1			8	8		
[illegible] / 85							.0	.0	.0	.0	.0	.0			.1	.0		10	10		
[illegible] / 83									.1	.1	.2	.0	.1	.1	.1			19	19		
[illegible] / 81									.3	.2	.1	.2	.2	.2	.1			30	30		
[illegible] / 79						.0	.1		.2	.1	.1	.2	.3	.3				33	33		
78 / 77						.0	.2	.3	.2	.2	.4	.4	.1	.1				48	48		
[illegible] / 75					.0	.2	.2	.2	.2	.6	.2	.1	.0	.2				49	49		
[illegible] / 73			.0		.0	.2	.6	.2	.4	.3	.2	.3	.1					62	62	2	
[illegible] / 71				.1	.3	.9	.6	.6	.3	.4	.7	.1	.1					84	84	1	
[illegible] / 69				.2	.9	.9	.5	.1	.2	.2	.2	.2	.1					85	85	3	
[illegible] / 67		.2		.5	2.0	1.2	.5	.4	.2	.2	.2	.1						129	129	19	3
[illegible] / 65		.1	.3	1.4	1.3	1.0	.3	.4	.3		.2	.1						134	134	28	1
[illegible] / 63		.4	.7	1.7	1.1	.6	.4	.3	.1	.2	.1							135	135	59	3
[illegible] / 61	.1	.8	1.7	2.0	1.2	.7	.2	.1		.2	.0							166	166	128	19
[illegible] / 59	.1	2.0	3.0	1.7	.7	.5	.2	.0	.1	.1								202	202	229	41
[illegible] / 57	.2	2.9	2.5	.9	.9	.4	.0	.0		.0								165	165	285	115
[illegible] / 55	.3	2.1	2.2	1.0	.5	.2	.1	.0	.0									159	159	285	222
[illegible] / 53	.2	2.7	2.6	1.0	.5	.3	.1		.1	.0								181	181	225	268
[illegible] / 51	.1	3.1	2.7	.9	.3	.2		.1										177	177	225	223
[illegible] / 49	.2	2.4	2.3	.7	.5	.1	.1											150	150	228	211
[illegible] / 47	.2	2.4	1.6	.7	.2													123	123	188	221
[illegible] / 45	.1	2.2	1.1	.5	.2	.0												101	101	161	192
[illegible] / 43	.1	1.5	1.[illegible]	.7	.2													84	84	131	175
[illegible] / 41	.1	.2	.3	.2	.0													22	22	89	169
[illegible] / 39	.0	.2	.3	.1	.1													19	19	53	115
38 / 37		.0	.2	.1														9	9	30	80
[illegible] / 35		.2	.2	.2														6	6	16	84
34 / 33			.1															2	2	10	56
[illegible] / 31																				6	41
[illegible] / 29																				2	31

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

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PSYCHROMETRIC SUMMARY

7114	SANTA ANA, CALIFORNIA	73-82	NOV
STATION	STATION NAME	YEARS	MONTH

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 27																					25
[illegible] 25																					18
[illegible] 23																					22
22 21																					14
[illegible] 19																					7
[illegible] 17																					15
[illegible] 15																					9
[illegible] 13																					10
1 / 11																					7
[illegible] 9																					1
[illegible] 7																					2
[illegible] 5																					1
[illegible]	1.7	22.9	22.7	14.5	10.8	7.7	4.0	2.9	3.0	2.8	2.3	1.8	1.0	1.0	.4	.2	.1	2400	2400	2400	2400

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	11480004	160694	67.0	21.612	2400			169.5	80.1	27.0	.6	720.0
Dry Bulb	3658089	142023	59.2	10.283	2400							720.0
Wet Bulb	6693752	125676	52.4	6.854	2400		2.4	7.5	.6			720.0
Dew Point	5301003	110565	46.1	9.256	2400		59.4	.9				720.0

PSYCHROMETRIC SUMMARY

93114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — YEARS
DEC — MONTH
PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
92/ 91																.1		2	2			
90/ 89														.0		.0		2	2			
88/ 87													.0					1	1			
86/ 85												.0			.0			2	2			
84/ 83													.0	.2	.1			7	7			
82/ 81											.1	.1		.1	.1			9	9			
80/ 79								.0	.1	.0	.2	.2	.2	.1	.0			21	21			
78/ 77								.0	.2	.1	.1	.2	.2	.0				20	20			
76/ 75							.2		.3	.1	.2	.3	.0					25	25			
74/ 73					.0		.2	.3	.2	.3	.1	.3	.1					38	38			
72/ 71					.1	.3	.2	.3	.4	.3	.2	.1	.0					44	48			
70/ 69				.0	.2	.4	.5	.4	.2	.4	.4	.1						67	67			
68/ 67			.1	.1	.3	1.0	.6	.5	.5	.2	.2	.0						90	90			
66/ 65			.3	.0	.9	.8	.5	.6	.3	.3	.2							118	118	4		
64/ 63	.0	.3	.3	.2	1.3	1.0	.7	.4	.3	.1	.1							134	134	17	1	
62/ 61	.3	.5	.7	1.3	1.3	.8	.4	.6	.2	.0	.0							155	155	62	16	
60/ 59	.1	1.2	1.7	1.5	.6	.7	.4	.2	.1	.0	.1							161	161	114	22	
58/ 57	.1	1.6	1.9	1.1	.5	.4	.3	.4	.4	.2								173	173	174	54	
56/ 55	.1	2.1	2.1	.8	.4	.6	.2	.1	.4	.0								167	167	261	91	
54/ 53	.4	3.2	2.6	.7	.3	.3	.4	.2	.0									201	201	250	159	
52/ 51	.4	3.4	1.4	.8	.6	.2	.5	.1	.1									185	185	270	186	
50/ 49	.2	2.9	1.9	.9	.6	.3	.2											174	174	231	262	
48/ 47	.3	3.4	1.7	1.0	.5	.2	.1											186	186	203	225	
46/ 45	.3	2.4	1.6	.4	.2		.2	.0										129	129	199	184	
44/ 43	.2	2.7	1.5	.7	.1		.1											130	130	178	173	
42/ 41	.3	1.7	1.1	.4	.1	.1	.0											90	90	167	176	
40/ 39	.2	1.6	1.5	.3	.0	.0												91	91	142	154	
38/ 37		.2	.4	.1	.1													34	34	101	140	
36/ 35		.1	.1	.1	.0													11	11	57	124	
34/ 33		.0	.1	.1														5	5	24	105	
32/ 31																				10	91	
30/ 29			.0															1	1	10	60	
28/ 27																				2	25	
26/ 25																				1	31	

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

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	DEC

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] 23																					36
21 / 21																					15
[illegible] / 19																					17
19 / 17																					14
17 / 15																					21
15 / 13																					11
13 / 11																					5
[illegible] / 9																					5
[illegible] / 7																					6
[illegible] / 5																					6
[illegible] / [illegible]																					1
TOTAL	[illegible]	27.9	21.[illegible]	12.3	9.6	7.0	5.8	4.1	3.7	2.1	1.7	1.4	.6	.4	.2	.1			2477		2477
																		2477		2477	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	12515603	166653	67.3	22.783	2477							
Dry Bulb	7815584	136954	55.3	9.914	2477		.3	99.7	38.1	9.3		744.0
Wet Bulb	6040085	121453	49.0	7.134	2477		6.9					744.0
Dew Point	4720711	105301	42.5	9.931	2477		111.1					744.0

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

93114	SANTA ANA, CALIFORNIA	73-82	ALL
STATION	STATION NAME	YEARS	MONTH

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible]/105																	.0	1	1		
[illegible]/103																.0	.0	3	3		
[illegible]/101															.0	.0	.0	7	7		
[illegible]/ 99													.0		.0	.0	.0	13	13		
[illegible]/ 97												.0		.0	.0	.0	.0	19	19		
[illegible]/ 95											.0	.0	.0	.0	.0	.0	.0	27	27		
[illegible]/ 93										.0	.0	.0	.0	.0	.0	.0	.0	41	41		
[illegible]/ 91									.0	.0	.1	.1	.0	.0	.0	.0	.0	70	70		
[illegible]/ 89						.0		.0	.0	.1	.0	.0	.0	.0	.0	.0		94	94		
[illegible]/ 87						.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0		158	158		
[illegible]/ 85				.0		.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0		200	200		
[illegible]/ 83				.0	.0	.1	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0		340	340		
[illegible]/ 81				.0	.0	.2	.3	.4	.1	.1	.1	.1	.1	.1	.0			454	454		
[illegible]/ 79			.1	.2	.1	.4	.6	.2	.2	.1	.1	.1	.1	.1	.0			651	651	3	1
[illegible]/ 77			.1	.3	.4	.4	.6	.2	.1	.1	.1	.1	.1	.0				763	763	2	1
[illegible]/ 75		.2	.0	.2	.2	1.2	.5	.2	.1	.1	.1	.1	.1	.2				947	947	2	3
[illegible]/ 73		.0	.1	.5	1.1	.9	.4	.2	.2	.1	.1	.1	.1					1093	1093	155	7
[illegible]/ 71	.1	.1	.5	1.0	1.1	.9	.3	.2	.2	.1	.1	.1	.0					1355	1355	406	17
[illegible]/ 69	.0	.2	1.1	1.6	1.2	.9	.4	.2	.2	.1	.1	.1	.0					1793	1793	901	87
[illegible]/ 67	.0	.5	2.3	1.4	1.1	.9	.4	.2	.1	.1	.1	.0						2091	2091	1444	293
[illegible]/ 65	.0	1.2	2.6	1.6	1.2	.7	.3	.2	.1	.1	.1	.0						2332	2332	2016	847
[illegible]/ 63	.0	1.8	2.4	1.7	1.0	.6	.2	.1	.1	.1	.0							2365	2365	2503	1686
[illegible]/ 61	.1	2.0	2.4	1.6	.7	.4	.2	.1	.1	.0	.0							2302	2302	2536	2627
[illegible]/ 59	.1	2.2	2.4	1.3	.7	.4	.1	.1	.0	.0	.0							2221	2221	2679	2438
[illegible]/ 57	.1	2.1	2.2	.9	.5	.2	.1	.1	.1	.0								1831	1831	2912	2562
56/ 55	.2	2.1	1.8	.8	.4	.2	.1	.1	.1	.0								1659	1659	2672	2536
[illegible]/ 53	.1	1.9	1.7	.6	.2	.1	.1	.0	.0	.0								1409	1409	2256	2440
[illegible]/ 51	.2	2.0	1.5	.5	.2	.1	.1	.3	.0									1312	1312	1988	2278
[illegible]/ 49	.1	1.7	1.1	.4	.2	.1	.0	.0										1045	1045	1824	2077
[illegible]/ 47	.1	1.5	.8	.3	.1	.0	.0	.0										837	837	1369	1841
[illegible]/ 45	.1	1.1	.6	.2	.1	.0	.0	.0										610	610	1062	1554
[illegible]/ 43	.1	.8	.5	.2	.0	.0	.0											476	476	802	1290
[illegible]/ 41	.1	.5	.3	.1	.0	.0	.0											293	293	565	1001
[illegible]/ 39	.0	.3	.2	.1	.0	.0												219	219	444	838

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

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	SANTA ANA, CALIFORNIA	73-82	ALL

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
[illegible] / 37	.0	.2	.1	.0	.0													100	100	296	579
[illegible] / 35	.0	.1	.1	.0	.0													44	44	148	532
34 / 33	.0	.0	.0	.0														16	16	70	379
32 / 31		.0	.0															7	7	31	307
[illegible] / 29			.0															1	1	10	224
[illegible] / 27																				3	185
[illegible] / 25																				1	124
[illegible] / 23																					106
[illegible] / 21																					56
[illegible] / 19																					62
[illegible] / 17																					[illegible]
[illegible] / 15																					51
[illegible] / 13																					34
12 / 11																					14
[illegible] / 9																					10
[illegible] / 7																					8
[illegible] / 5																					12
[illegible] / 3																					5
[illegible]	1.0	22.5	25.1	15.0	11.1	9.4	5.4	3.1	2.2	1.5	1.1	.6	.5	.4	.2	.2	.1	29199	29199	29199	29199

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	156167032	2066986	70.8	18.361	29199							
Dry Bulb	116012722	1831074	62.7	10.445	29199		2.4	3037.5	1465.1	515.1	33.5	8760.0
Wet Bulb	95373412	1652184	56.6	8.038	29199		15.9	886.6	60.6	.9		8760.0
Dew Point	80987004	1511548	51.8	9.584	29199		375.7	122.8	6.9	.3		8760.0

NAVWEASERVCOM

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	49.4	50.8	51.6	53.2	58.0	61.2	64.6	65.0	65.1	59.5	52.9	48.7	56.7
	S. D.	6.341	5.235	4.625	4.435	4.032	3.659	3.371	3.999	4.301	5.417	5.868	6.023	7.775
	TOTAL OBS	309	282	310	300	310	298	310	310	299	310	300	310	3640
04	MEAN	47.7	49.0	49.9	52.0	57.0	60.3	63.6	64.6	63.9	58.3	50.4	47.1	55.3
	S. D.	6.467	5.946	5.111	4.860	4.373	3.604	3.517	3.892	4.178	5.974	6.302	6.151	8.225
	TOTAL OBS	310	282	310	300	310	298	310	310	299	310	300	310	3649
07	MEAN	47.3	48.6	50.6	54.9	60.3	64.2	67.0	66.9	65.8	59.5	50.1	46.2	56.8
	S. D.	7.307	5.910	4.982	4.327	3.662	4.204	3.543	3.776	3.901	5.720	6.313	6.378	9.295
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	310	3651
10	MEAN	58.3	60.8	61.8	65.4	67.6	73.1	76.8	76.5	75.7	71.7	65.7	60.3	67.8
	S. D.	5.288	5.694	5.580	5.956	5.765	7.253	5.234	5.234	6.883	5.791	6.516	5.944	8.795
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	65.0	66.9	65.3	68.9	70.8	76.7	80.0	80.3	80.2	77.1	72.2	68.0	72.6
	S. D.	7.326	6.811	6.575	6.543	6.350	7.572	5.109	4.753	7.394	6.798	7.773	6.988	8.820
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
16	MEAN	63.3	65.0	63.9	67.2	69.2	75.2	78.4	78.3	77.8	73.5	68.5	65.3	70.5
	S. D.	6.673	6.230	5.845	6.081	5.804	7.055	4.949	4.484	6.914	6.081	6.865	6.254	8.319
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
19	MEAN	55.8	57.9	58.1	60.3	63.1	68.1	70.9	70.6	70.4	65.9	59.8	55.5	63.0
	S. D.	5.285	4.090	4.199	4.439	4.189	5.460	3.815	3.382	5.203	4.007	5.126	4.696	7.272
	TOTAL OBS	310	282	310	300	310	298	310	310	300	310	300	309	3649
22	MEAN	51.6	53.2	53.7	56.1	59.8	63.7	66.7	67.2	66.9	61.1	54.7	51.2	58.8
	S. D.	5.662	4.632	4.060	4.062	3.405	3.773	3.052	3.278	4.265	4.796	5.480	5.463	7.391
	TOTAL OBS	310	282	310	300	309	298	310	310	299	310	300	309	3647
ALL HOURS	MEAN	54.8	56.5	56.9	59.7	63.2	67.8	71.0	71.2	70.7	65.8	59.2	55.3	62.7
	S. D.	9.064	8.772	7.803	8.097	6.918	8.212	7.404	7.215	8.121	8.903	10.284	9.914	10.446
	TOTAL OBS	2479	2256	2480	2400	2479	2392	2480	2479	2397	2480	2400	2477	29199

NAVWEASERVCOM

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	46.1	47.8	48.7	50.0	54.8	58.3	61.7	61.9	61.6	55.8	48.6	45.0	53.0
	S. D.	6.168	5.113	4.703	4.202	3.845	3.264	2.968	3.339	3.784	5.745	5.639	5.728	7.712
	TOTAL OBS	309	292	310	300	310	298	310	310	299	310	300	310	3648
04	MEAN	44.9	46.3	47.3	49.2	54.1	57.6	61.0	61.7	60.8	54.9	47.0	43.8	52.4
	S. D.	6.535	5.774	5.143	4.634	4.219	3.406	3.181	3.259	4.046	6.371	6.136	6.170	8.198
	TOTAL OBS	310	282	310	300	310	298	310	310	299	310	300	310	3649
07	MEAN	44.3	45.9	48.0	51.5	56.3	60.2	63.3	63.5	62.1	55.9	46.8	42.9	53.4
	S. D.	7.095	5.748	5.137	4.039	3.223	3.001	2.896	3.000	3.466	5.792	6.205	6.380	8.892
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	310	3651
10	MEAN	51.8	53.9	54.3	56.5	59.4	64.1	67.5	67.5	66.5	62.2	56.4	52.5	59.4
	S. D.	4.960	4.039	4.056	3.847	3.509	3.983	2.868	2.827	3.354	5.769	4.170	4.574	6.896
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	54.8	56.6	55.8	58.0	60.9	65.3	68.6	69.0	68.0	64.2	58.6	55.8	61.3
	S. D.	4.894	4.241	4.369	4.150	3.881	3.649	2.702	2.730	3.269	4.225	4.610	4.492	6.570
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
16	MEAN	54.3	55.9	55.0	57.0	60.0	64.7	67.6	67.9	66.9	62.7	57.6	55.0	60.4
	S. D.	4.920	3.931	4.12[illegible]	[illegible]882	3.497	3.513	2.578	2.334	3.357	4.011	4.560	4.338	6.561
	TOTAL OBS	310	282	310	[illegible]00	310	300	310	310	300	310	300	309	3651
19	MEAN	51.0	53.0	52.8	54.3	57.5	61.7	64.6	65.0	64.3	60.0	53.7	50.2	57.3
	S. D.	5.023	3.654	3.690	3.308	3.103	3.117	2.286	2.347	3.095	4.206	4.749	4.870	6.494
	TOTAL OBS	310	282	310	300	310	298	310	310	300	310	300	309	3649
22	MEAN	48.0	49.8	50.2	52.1	55.9	59.9	63.0	63.5	62.7	56.9	50.2	47.0	55.0
	S. D.	5.518	4.484	4.198	3.681	3.261	2.900	2.475	2.585	3.432	5.039	4.977	5.316	7.222
	TOTAL OBS	310	282	310	300	309	298	310	310	299	310	300	309	3647
ALL HOURS	MEAN	49.4	51.1	51.5	53.6	57.4	61.5	64.6	65.0	64.1	59.1	52.4	49.0	56.6
	S. D.	6.876	6.151	5.460	5.065	4.291	4.358	3.865	3.864	4.322	6.012	6.855	7.104	8.039
	TOTAL OBS	2479	2256	2480	2400	2479	2392	2480	2479	2397	2480	2400	2477	29199

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MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	42.2	44.5	45.8	47.0	52.3	56.2	59.9	60.0	59.3	52.5	44.6	40.4	50.4
	S. D.	9.127	7.661	6.285	5.847	4.574	4.168	3.161	3.318	4.763	8.727	8.399	9.204	9.586
	TOTAL OBS	309	282	310	300	310	298	310	310	299	310	300	310	3648
04	MEAN	41.5	43.2	44.6	46.6	51.3	55.7	59.3	59.9	58.7	51.9	43.3	39.4	49.7
	S. D.	8.999	8.044	6.653	5.995	4.827	4.386	3.343	3.311	4.877	8.909	8.601	9.556	9.889
	TOTAL OBS	310	282	310	300	310	298	310	310	299	310	300	310	3649
07	MEAN	40.7	42.9	45.3	48.4	53.2	57.5	61.2	61.4	59.7	52.9	43.1	38.7	50.4
	S. D.	9.508	7.813	7.091	5.895	4.228	3.920	3.146	3.140	4.604	8.379	8.566	9.503	10.437
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	310	3651
10	MEAN	45.3	47.6	47.7	49.3	53.7	58.7	62.3	62.5	61.2	55.2	48.3	44.9	53.1
	S. D.	9.211	7.911	7.136	6.165	4.577	4.335	3.003	2.972	4.789	8.631	9.049	9.468	9.419
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	45.5	47.9	47.7	49.4	54.1	58.5	62.4	62.9	61.2	55.2	47.2	44.6	53.1
	S. D.	9.677	8.573	7.600	6.908	4.912	4.167	3.216	3.368	4.959	9.515	10.263	10.209	9.916
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
16	MEAN	46.0	48.1	47.2	48.8	53.4	58.3	61.6	62.1	60.6	54.9	48.2	45.5	52.9
	S. D.	9.218	7.996	7.513	6.964	4.784	4.103	3.272	3.177	5.302	8.998	9.690	9.844	9.417
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
19	MEAN	46.3	48.5	48.0	49.1	53.3	57.6	60.9	61.7	60.6	55.4	48.3	44.6	52.9
	S. D.	8.360	6.705	6.032	5.975	4.246	3.986	2.792	2.623	4.731	8.313	8.941	9.555	8.744
	TOTAL OBS	310	282	310	300	310	298	310	310	300	310	300	309	3649
22	MEAN	44.0	46.4	46.8	48.6	52.9	57.4	60.8	61.3	60.1	53.4	45.6	42.0	51.6
	S. D.	8.504	6.979	6.379	5.814	4.206	3.901	2.731	2.714	4.665	7.997	8.589	9.518	9.265
	TOTAL OBS	310	282	310	300	309	298	310	310	299	310	300	309	3647
ALL HOURS	MEAN	43.9	46.1	46.7	48.4	53.1	57.5	61.0	61.5	60.2	53.9	46.1	42.5	51.8
	S. D.	9.300	8.011	6.949	6.279	4.601	4.238	3.247	3.246	4.906	8.780	9.257	9.932	9.685
	TOTAL OBS	2479	2256	2480	2400	2479	2392	2480	2479	2397	2480	2400	2477	29199

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114	SANTA ANA, CALIFORNIA	73-82	JAN
STATION	STATION NAME	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%		
JAN	01	100.0	98.4	96.1	94.8	91.9	86.7	80.6	58.9	23.9	78.8	309
	04	100.0	99.7	98.1	95.5	94.8	90.3	83.9	63.9	26.5	80.9	310
	07	100.0	98.7	96.8	95.5	92.6	89.4	81.9	65.8	23.5	80.2	310
	10	99.7	98.1	93.2	85.8	77.1	62.6	42.9	26.1	8.4	65.3	310
	13	100.0	92.6	84.5	70.3	57.4	39.4	20.3	12.9	2.6	53.7	310
	16	99.7	96.5	89.0	77.7	64.5	44.2	22.9	15.2	3.9	57.1	310
	19	100.0	98.1	96.8	93.9	89.7	80.0	65.5	37.4	9.7	73.0	310
	22	100.0	98.7	96.1	94.2	91.9	86.5	78.4	55.8	20.0	78.0	310
TOTALS		99.9	97.6	93.8	88.5	82.5	72.4	59.6	42.0	14.8	70.9	2479

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114	SANTA ANA, CALIFORNIA	73-82	FEB
STATION	STATION NAME	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%		
FEB	01	100.0	98.9	97.9	96.1	95.0	90.1	82.3	63.5	28.4	81.2	282
	04	100.0	98.9	97.9	96.5	95.0	92.9	86.2	69.1	30.5	82.4	282
	07	100.0	99.3	98.2	96.8	95.0	90.8	86.9	69.5	32.6	82.6	282
	10	100.0	97.2	93.3	87.2	78.7	64.5	44.7	24.8	8.5	65.5	282
	13	100.0	95.0	84.0	74.8	60.6	40.8	22.3	11.0	1.4	54.6	282
	16	100.0	97.5	89.0	79.4	67.0	48.2	24.5	14.9	4.3	58.2	282
	19	100.0	98.9	96.8	95.4	91.5	81.9	68.8	37.6	8.5	73.4	282
	22	100.0	98.9	98.2	96.5	93.6	91.1	82.3	57.4	19.1	79.6	282
TOTALS		100.0	98.1	94.4	90.3	84.6	75.0	62.3	43.5	16.7	72.2	2256

OCEANAV—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-92 (PERIOD) MAR (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%		
MAR	01	100.0	99.4	99.4	99.0	97.4	94.8	87.7	59.4	17.1	81.6	310
	04	100.0	100.0	99.4	98.4	97.4	95.2	90.3	68.4	22.9	83.1	310
	07	100.0	99.7	98.7	98.1	98.1	94.8	90.6	69.0	25.2	83.3	310
	10	99.7	99.0	95.5	90.6	79.7	56.5	31.6	14.5	2.6	62.7	310
	13	100.0	97.4	89.7	82.6	67.7	40.6	14.5	6.5	2.3	55.8	310
	16	100.0	97.1	92.3	84.8	71.9	48.1	17.7	6.1	.6	57.5	310
	19	100.0	99.7	98.1	97.1	91.6	80.0	59.0	21.3	3.2	70.7	310
	22	99.7	99.4	99.4	98.4	97.1	94.2	81.6	47.4	8.4	78.7	310
TOTALS		99.9	99.0	96.6	93.7	87.6	75.5	59.1	36.6	10.3	71.7	2480

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114	SANTA ANA, CALIFORNIA	73-82	APR
STATION	STATION NAME	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%		
APR	01	100.0	99.3	98.7	98.7	98.0	96.0	90.3	55.3	14.3	80.7	300
	04	100.0	99.7	99.0	98.7	98.3	97.3	94.3	64.7	19.0	82.9	300
	07	100.0	99.0	98.7	98.0	97.0	95.3	88.0	50.0	13.3	79.9	300
	10	100.0	98.3	95.3	89.3	77.0	49.3	13.3	5.7	.7	58.2	300
	13	100.0	96.7	91.3	82.3	64.7	26.3	5.0	.7		52.2	300
	16	100.0	96.7	92.0	84.3	68.0	36.0	7.3	3.7	.3	54.2	300
	19	100.0	98.3	97.7	95.3	90.7	79.3	52.0	15.7	2.7	68.6	300
	22	100.0	98.7	98.7	98.0	97.3	95.0	84.3	42.3	5.3	77.5	300
TOTALS		100.0	98.3	96.4	93.1	86.4	71.8	54.3	29.8	7.0	69.3	2400

OCEANAV—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (PERIOD) MAY (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%		
MAY	01	100.0	100.0	100.0	99.7	99.4	98.1	91.0	60.3	11.3	81.7	310
	04	100.0	100.0	100.0	100.0	100.0	98.7	92.3	65.8	15.5	83.1	310
	07	100.0	100.0	99.7	99.4	98.7	96.5	81.9	41.0	9.7	78.3	310
	10	100.0	99.0	98.1	96.1	88.1	59.7	21.3	8.4	.6	62.7	310
	13	100.0	98.7	97.4	93.9	81.6	35.5	8.1	2.9		57.1	310
	16	100.0	98.7	97.1	93.5	84.8	47.1	11.6	1.9		58.7	310
	19	100.0	99.7	99.0	98.7	95.8	85.5	57.1	14.5	1.6	71.3	310
	22	100.0	100.0	100.0	99.4	99.4	96.8	85.1	43.4	5.5	78.5	309
TOTALS		100.0	99.5	98.9	97.6	93.5	77.2	56.1	29.8	5.5	71.4	2479

OCEANAV–SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (PERIOD) JUN (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%		
JUN	01	100.0	99.7	99.7	99.3	99.0	98.7	94.0	76.2	17.1	84.2	298
	04	100.0	99.7	99.7	99.7	99.7	98.7	96.6	79.5	20.5	85.6	298
	07	100.0	99.7	99.3	98.3	98.0	96.0	86.3	54.3	11.0	80.0	300
	10	100.0	99.0	98.3	95.3	87.0	56.3	24.7	7.0	.3	62.4	300
	13	100.0	98.7	96.7	88.0	72.0	34.3	5.3	1.3		55.3	300
	16	100.0	99.3	96.7	90.0	77.3	45.7	8.7	1.3		57.4	300
	19	100.0	99.0	99.0	97.7	94.0	85.2	55.7	19.1	1.0	70.5	298
	22	100.0	99.7	99.7	99.0	98.3	97.0	92.3	59.7	6.7	80.9	298
TOTALS		100.0	99.4	98.6	95.9	90.7	76.5	58.0	37.3	7.1	72.0	2392

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-92 (PERIOD) JUL (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%		
JUL	01	100.0	100.0	100.0	100.0	100.0	99.7	97.7	83.9	8.4	85.0	310
	04	100.0	100.0	100.0	100.0	100.0	100.0	98.7	86.5	15.2	86.1	310
	07	100.0	100.0	100.0	100.0	100.0	98.7	94.2	63.2	10.0	82.0	310
	10	100.0	100.0	99.7	97.7	89.4	51.9	20.0	4.8	1.0	61.8	310
	13	100.0	100.0	98.7	93.9	77.4	25.8	4.2	.6		55.8	310
	16	100.0	99.7	99.0	92.6	80.3	37.7	6.8	.3		57.3	310
	19	100.0	100.0	100.0	98.7	96.8	88.4	59.4	17.7	1.6	71.4	310
	22	100.0	100.0	100.0	100.0	99.7	99.0	93.9	70.0	6.8	81.9	310
TOTALS		100.0	100.0	99.7	97.9	93.0	75.2	59.4	40.9	5.4	72.7	2480

OCEANAV–SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114	SANTA ANA, CALIFORNIA	73-82	AUG
STATION	STATION NAME	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%		
AUG	01	100.0	100.0	100.0	100.0	100.0	99.7	96.5	78.4	11.9	84.4	310
	04	100.0	100.0	100.0	100.0	100.0	99.7	98.1	81.0	13.9	85.1	310
	07	100.0	100.0	100.0	100.0	99.7	99.7	93.2	70.2	13.6	83.2	309
	10	100.0	100.0	99.7	98.1	87.7	60.3	23.2	4.8	1.0	63.1	310
	13	100.0	100.0	99.4	94.8	78.1	28.1	4.2	1.0	.3	56.2	310
	16	100.0	100.0	99.4	94.5	83.5	39.0	9.4	2.3	.3	58.5	310
	19	100.0	100.0	100.0	100.0	98.4	94.2	73.9	22.3	.6	73.8	310
	22	100.0	100.0	100.0	100.0	100.0	98.7	94.2	66.8	8.1	81.7	310
TOTALS		100.0	100.0	99.8	98.4	93.4	77.4	61.6	40.9	6.2	73.3	2479

OCEANAV—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (PERIOD) SEP (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%		
SEP	01	100.0	100.0	99.3	99.0	98.7	97.0	90.3	69.9	15.7	82.3	299
	04	100.0	100.0	100.0	99.7	99.0	97.0	91.0	74.9	18.7	83.8	299
	07	100.0	100.0	100.0	99.0	97.3	95.0	85.7	66.0	16.0	81.7	300
	10	100.0	98.7	96.3	91.3	81.7	63.3	33.0	12.3	2.7	63.2	300
	13	100.0	97.3	93.7	85.3	67.7	33.7	9.0	3.7	1.0	54.7	300
	16	99.7	98.0	93.7	89.3	75.3	46.7	14.7	4.3	.7	57.9	300
	19	100.0	99.0	98.3	95.3	92.7	56.3	70.3	33.7	3.7	73.0	300
	22	100.0	100.0	99.3	98.3	97.0	94.3	83.9	61.2	11.0	79.7	299
TOTALS		100.0	99.1	97.6	94.7	88.7	76.7	59.7	40.8	8.7	72.0	2397

OCEANAV—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114	SANTA ANA, CALIFORNIA		73-82	OCT
STATION	STATION NAME		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%		
OCT	01	100.0	98.1	97.4	97.1	92.9	89.7	83.2	64.8	17.7	79.8	310
	04	100.0	98.7	98.1	97.1	94.5	91.9	85.2	65.5	21.3	81.2	310
	07	100.0	98.1	97.4	96.5	95.5	92.6	83.9	64.2	21.6	80.9	310
	10	100.0	94.2	88.7	83.9	78.4	58.4	29.7	11.6	1.9	60.0	310
	13	99.7	89.7	83.5	78.1	61.9	31.6	8.1	1.6		50.8	310
	16	100.0	92.6	86.8	81.6	74.2	51.3	17.1	2.3	.3	56.0	310
	19	100.0	97.7	96.8	92.3	86.5	82.3	65.5	41.9	4.2	71.7	310
	22	100.0	98.4	98.4	97.1	93.5	87.7	78.4	55.8	12.9	78.0	310
TOTALS		100.0	95.9	93.4	90.5	84.7	73.2	56.4	38.5	10.0	69.8	2480

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114	SANTA ANA, CALIFORNIA	73-82	NOV
STATION	STATION NAME	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%		
NOV	01	100.0	99.0	97.7	95.3	92.3	85.3	77.0	52.0	14.3	77.1	300
	04	100.0	98.3	98.3	97.0	94.3	89.3	77.3	56.3	18.7	78.8	300
	07	100.0	98.7	98.3	97.3	95.0	88.3	77.0	57.7	19.3	79.0	300
	10	99.7	95.7	86.3	76.0	66.0	51.0	28.7	14.7	4.3	57.8	300
	13	100.0	85.7	75.0	63.3	49.7	21.7	5.7	1.7	.3	45.6	300
	16	100.0	93.0	82.0	71.3	62.0	43.0	18.0	3.7	1.3	52.7	300
	19	100.0	96.3	95.0	92.7	87.0	76.7	59.3	32.3	5.7	70.0	300
	22	100.0	97.7	96.7	94.3	88.3	82.0	71.7	44.3	13.7	74.6	300
TOTALS		100.0	95.6	91.2	85.9	79.3	67.2	51.5	32.8	9.7	67.0	2400

OCEANAV—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) 73-82 (PERIOD) DEC (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%		
DEC	01	100.0	98.4	95.2	92.9	89.0	81.0	71.9	51.3	24.5	76.4	310
	04	100.0	98.4	95.8	93.9	91.3	84.5	76.5	56.5	25.5	77.6	310
	07	100.0	99.0	96.5	94.2	91.0	84.8	75.8	55.2	24.1	77.8	310
	10	100.0	97.1	90.0	78.4	65.5	52.9	39.7	20.6	11.0	61.3	310
	13	100.0	88.4	75.2	61.0	48.4	29.4	12.9	6.1	1.9	47.7	310
	16	100.0	91.9	82.8	72.2	58.3	41.7	20.4	6.8	1.0	53.2	309
	19	100.0	98.4	92.9	89.0	82.8	74.8	62.1	35.6	9.1	70.2	309
	22	100.0	98.1	94.8	90.3	85.1	79.6	71.2	50.2	17.2	74.5	309
TOTALS		100.0	96.2	90.4	84.0	76.4	66.1	53.8	35.3	14.5	67.4	2477

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93114 — STATION
SANTA ANA, CALIFORNIA — STATION NAME
73-82 — PERIOD
ALL — 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%		
JAN	ALL	99.9	97.6	93.8	88.5	82.5	72.4	59.6	42.0	14.8	70.9	2479
FEB		100.0	98.1	94.4	90.3	84.6	75.0	62.3	43.5	16.7	72.2	2256
MAR		99.9	99.0	96.6	93.7	87.6	75.5	59.1	36.6	10.3	71.7	2480
APR		100.0	98.3	96.4	93.1	86.4	71.8	54.3	29.8	7.0	69.3	2400
MAY		100.0	99.5	98.9	97.6	93.5	77.2	56.1	29.8	5.5	71.4	2479
JUN		100.0	99.4	98.6	95.9	90.7	76.5	58.0	37.3	7.1	72.0	2392
JUL		100.0	100.0	99.7	97.9	93.0	75.2	59.4	40.9	5.4	72.7	2480
AUG		100.0	100.0	99.8	98.4	93.4	77.4	61.6	40.9	6.2	73.3	2479
SEP		100.0	99.1	97.6	94.7	88.7	76.7	59.7	40.8	8.7	72.0	2397
OCT		100.0	95.9	93.4	90.5	84.7	73.2	56.4	38.5	10.0	69.8	2480
NOV		100.0	95.6	91.2	85.9	79.3	67.2	51.5	32.8	9.7	67.0	2400
DEC		100.0	96.2	90.4	84.0	76.4	66.1	53.8	35.3	14.5	67.4	2477
TOTALS		100.0	98.2	95.9	92.5	86.7	73.7	57.7	37.4	9.7	70.8	29199

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	JANUARY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		100.0								2	.1
82 TO 86	12.5	25.0	12.5		12.5	12.5	25.0			8	.3
77 TO 81	3.4	6.9	13.8			17.2	41.4	13.8	3.4	29	1.2
72 TO 76	1.6	11.3	6.5		6.5	11.3	43.5	9.7	9.7	62	2.5
67 TO 71	2.2	6.7	6.0		3.7	20.1	42.5	6.0	12.7	134	5.4
62 TO 66	1.0	5.5	3.9	7.5	10.8	15.4	31.4	4.9	19.3	306	12.3
57 TO 61	3.0	4.1	6.5	9.9	15.8	12.0	15.8	2.8	28.0	493	19.9
52 TO 56	3.0	9.8	11.1	13.1	8.5	4.2	8.5	3.1	38.7	574	23.2
47 TO 51	2.5	8.9	14.4	11.4	4.0	.7	3.0	1.5	53.6	403	16.3
42 TO 46	2.4	12.7	11.0	5.2	1.4		.7	.3	66.3	291	11.7
37 TO 41	2.8	18.2	18.9	2.1	1.4				56.6	143	5.8
32 TO 36	6.3	31.3	15.6	3.1					43.8	32	1.3
27 TO 31		100.0								2	.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.6	9.2	10.4	8.6	7.7	7.8	13.5	2.9	36.2	2479	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	FEBRUARY	ALL
STATION	NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	& N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF OBS.
122 & ABV											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	12.5	12.5					50.0		25.0	8	.4
77 TO 81	4.8	11.9	9.5	2.4	7.1	19.0	35.7		9.5	42	1.9
72 TO 76		12.5	4.2	1.4	11.1	15.3	45.8	2.8	6.9	72	3.2
67 TO 71	3.7	7.4	1.9	1.2	10.5	17.9	46.3	1.2	9.9	162	7.2
62 TO 66	1.8	3.3	5.2	5.5	14.2	21.5	31.2	1.2	16.1	330	14.6
57 TO 61	1.5	2.3	8.0	10.4	17.5	14.0	23.5	2.6	19.7	463	20.5
52 TO 56	1.0	4.6	14.3	11.3	13.5	5.8	7.1	1.2	41.3	508	22.3
47 TO 51	2.0	10.0	17.1	9.5	3.1	1.0	1.8	.8	54.7	391	17.3
42 TO 46	2.3	11.9	15.5	2.7	1.8	.5	.5	.5	64.8	219	9.7
37 TO 41	5.3	8.8	21.1	3.5					61.4	57	2.5
32 TO 36	12.5	25.0	12.5						50.0	8	.4
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.0	6.5	11.1	7.6	10.6	9.7	17.0	1.3	34.3	2256	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1982 (YEARS) MARCH (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96							100.0			1	.0
87 TO 91	50.0					50.0				2	.1
82 TO 86	11.1	11.1	22.2			11.1	22.2	11.1	11.1	9	.4
77 TO 81			9.1	4.5	4.5	13.6	50.0	13.6	4.5	22	.9
72 TO 76		4.9	1.6	3.3	8.2	18.0	47.5	6.6	9.8	61	2.5
67 TO 71	.6	2.2	1.1	1.7	12.2	27.1	39.8	5.5	9.9	181	7.3
62 TO 66	1.1	3.4	4.3	4.0	13.5	30.4	29.2	2.3	11.7	349	14.1
57 TO 61	2.0	2.6	4.9	9.9	17.1	18.9	25.5	1.8	17.4	609	24.6
52 TO 56	1.8	4.1	11.7	14.5	11.0	6.3	14.5	2.0	34.2	608	24.5
47 TO 51	2.6	8.8	11.6	13.0	3.2	.7	3.0	1.2	55.9	431	17.4
42 TO 46	1.1	9.6	16.3	2.2	1.1			.6	69.1	178	7.2
37 TO 41	3.6	3.6	28.6	7.1					57.1	28	1.1
32 TO 36		100.0								1	.0
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.8	4.8	8.5	9.3	10.6	13.2	19.1	2.2	30.7	2480	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1982 (YEARS) APRIL (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96							100.0			1	.0
87 TO 91			33.3						66.7	3	.1
82 TO 86		13.3				33.3	40.0	6.7	6.7	15	.6
77 TO 81		8.1	3.2		4.8	32.3	41.9	1.6	8.1	62	2.6
72 TO 76	3.8	6.1	1.5		2.3	28.2	45.0	4.6	8.4	131	5.5
67 TO 71	.8	2.3	.4	2.3	9.4	30.2	48.7	1.9	4.2	265	11.0
62 TO 66	.9	.5	3.1	5.4	19.8	23.3	32.2	2.8	12.0	425	17.7
57 TO 61	.5	1.0	6.5	11.5	18.8	15.7	19.2	1.9	24.8	573	23.9
52 TO 56	.5	3.4	12.1	14.1	9.5	5.0	8.4	2.0	45.0	560	23.3
47 TO 51	.7	5.2	14.0	9.1	3.6	.7	1.0	1.6	64.2	307	12.8
42 TO 46		9.6	9.6	3.8					76.9	52	2.2
37 TO 41									100.0	6	.3
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
−3 TO 1											
−8 TO −4											
−13 TO −9											
−18 TO −14											
−23 TO −19											
−28 TO −24											
−33 TO −29											
−38 TO −34											
−43 TO −39											
−48 TO −44											
−53 TO −49											
−58 TO −54											
−59 & LWR											
TOTALS	.8	2.9	7.2	8.5	12.0	15.0	21.6	2.2	29.9	2400	100.0

NAVWEASERVCOM

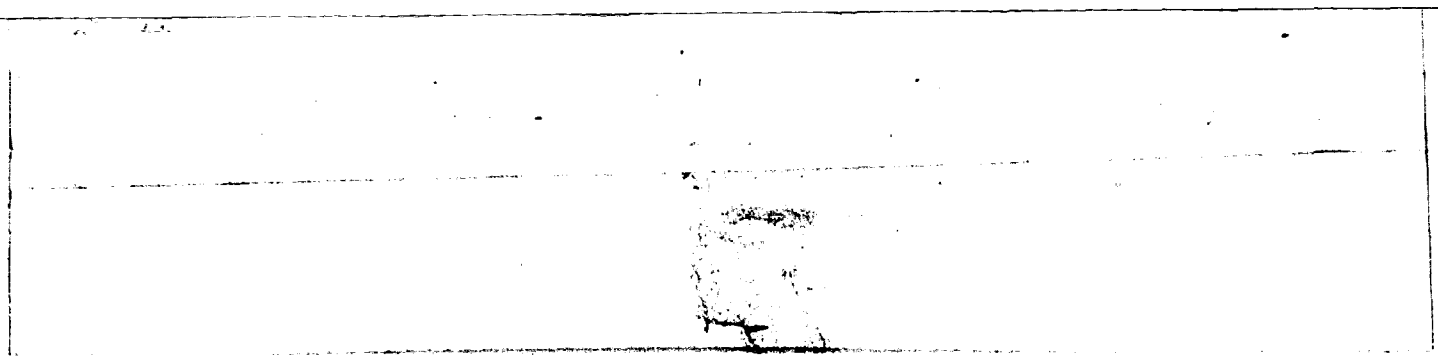
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	MAY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101		25.0				25.0	50.0			4	.2
92 TO 96			20.0			20.0	60.0			5	.2
87 TO 91						9.1	90.9			11	.4
82 TO 86	4.5		4.5			22.7	54.5	13.6		22	.9
77 TO 81	2.0		2.0		2.0	15.7	64.7	11.8	2.0	51	2.1
72 TO 76			.6	.6	6.1	23.5	59.2	4.5	5.6	179	7.2
67 TO 71	.5	.3	.8	1.5	10.0	35.0	39.9	3.8	8.2	391	15.8
62 TO 66	1.0	.3	1.1	5.9	17.7	27.1	28.0	1.4	17.4	706	28.5
57 TO 61	1.4	.9	4.8	11.5	20.0	12.6	12.1	1.7	35.1	786	31.7
52 TO 56		1.9	8.8	14.5	6.9	5.3	5.3		57.3	262	10.6
47 TO 51		3.5	7.0	5.3	1.8				82.5	57	2.3
42 TO 46				20.0					80.0	5	.2
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	.9	.7	3.2	7.3	14.2	20.1	25.4	2.2	25.9	2479	100.0

NAVWEASERVCOM



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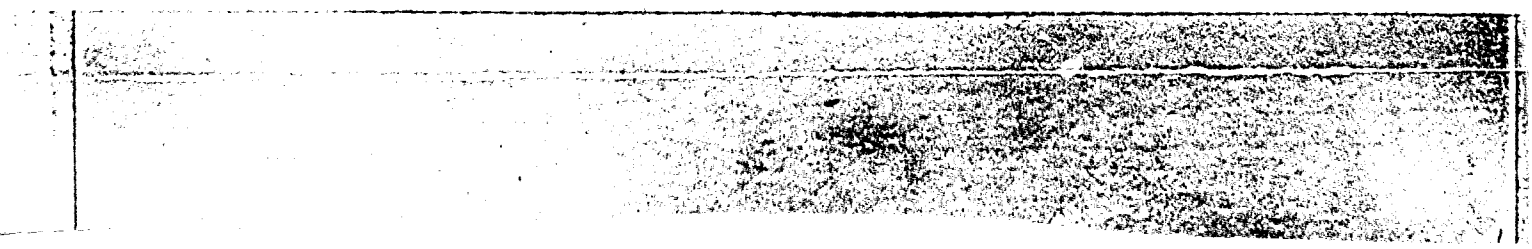
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

03114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	JUNE	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106	25.0					25.0	50.0			4	.2
97 TO 101	9.1	9.1	18.2		9.1	18.2	36.4			11	.5
92 TO 96		6.7				6.7	73.3	13.3		15	.6
87 TO 91	6.7	2.2	2.2		2.2	13.3	66.7	6.7		45	1.9
82 TO 86		3.1			5.2	24.7	62.9	2.1	2.1	97	4.1
77 TO 81	.6			.6	2.5	22.3	63.1	6.4	4.5	157	6.6
72 TO 76	.3	.6	.3	.9	6.9	23.6	57.3	2.9	7.2	347	14.5
67 TO 71	.9		.7	4.0	16.0	21.6	36.4	2.0	18.4	450	18.8
62 TO 66	1.5	.5	3.1	7.9	22.1	18.2	16.7	1.8	28.2	737	30.8
57 TO 61	.4	2.6	5.3	9.6	15.5	5.3	5.0	1.3	54.9	457	19.1
52 TO 56		5.7	10.0	5.7	2.9				75.7	70	2.9
47 TO 51									100.0	2	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
−3 TO 1											
−8 TO −4											
−13 TO −9											
−18 TO −14											
−23 TO −19											
−28 TO −24											
−33 TO −29											
−38 TO −34											
−43 TO −39											
−48 TO −44											
−53 TO −49											
−58 TO −54											
−59 & LWR											
TOTALS	1.0	1.2	2.6	5.4	14.3	17.0	29.9	2.3	26.4	2392	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1982 (YEARS) JULY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101							66.7	33.3		3	.1
92 TO 96						30.0	70.0			10	.4
87 TO 91		3.3			1.7	33.3	51.7	3.3	6.7	60	2.4
82 TO 86			.6		2.4	32.5	59.0	4.2	1.2	166	6.7
77 TO 81	.6		.3		5.0	27.1	59.6	3.3	4.2	361	14.6
72 TO 76	.9		1.1	1.8	8.0	23.1	48.3	4.4	12.4	451	18.2
67 TO 71	1.2	.5	1.5	5.4	13.4	18.2	24.1	2.0	33.8	606	24.4
62 TO 66	.8	1.5	5.8	7.7	21.0	11.5	9.2	1.5	41.3	663	26.7
57 TO 61	.7	2.7	6.8	7.4	6.8	.7	1.4		73.6	148	6.0
52 TO 56			8.3						91.7	12	.5
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	.8	.8	2.6	4.2	11.7	18.8	31.5	2.6	27.3	2480	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1982 (YEARS) AUGUST (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101						100.0				3	.1
92 TO 96						43.8	50.0	6.3		16	.6
87 TO 91					5.4	32.4	59.5	2.7		37	1.5
82 TO 86	.6				4.7	20.7	67.5	2.4	4.1	169	6.8
77 TO 81		.5		.5	4.9	21.3	63.1	3.4	6.2	385	15.5
72 TO 76	1.4	.2	.5	3.7	11.0	21.7	44.6	3.9	13.0	437	17.6
67 TO 71	.9	1.2	2.8	4.4	17.5	14.6	21.4	1.9	35.2	747	30.1
62 TO 66	1.0	2.4	7.7	8.3	12.6	4.7	8.9	.8	53.6	506	20.4
57 TO 61		3.8	9.5	7.1	2.4	2.4	.6		74.4	168	6.8
52 TO 56		10.0							90.0	10	.4
47 TO 51									100.0	1	.0
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	.8	1.3	3.1	4.2	11.1	15.0	31.8	2.2	30.5	2479	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

23114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	SEPTEMBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106						50.0	50.0			2	.1
97 TO 101			7.1			14.3	78.6			14	.6
92 TO 96			2.4			16.7	76.2	2.4	2.4	42	1.8
87 TO 91	4.3	4.3			1.4	26.1	58.0	2.9	2.9	69	2.9
82 TO 86	.8		1.6		1.6	25.6	60.8	4.8	4.8	125	5.2
77 TO 81	.9	1.3	2.1	.4	4.7	21.7	56.6	4.3	8.1	235	9.8
72 TO 76	1.7	1.7	1.7	2.8	11.1	21.0	40.9	5.4	13.7	423	17.6
67 TO 71	2.2	1.7	2.2	7.1	15.5	14.7	16.0	2.6	38.0	723	30.2
62 TO 66	2.2	.6	4.8	7.8	9.6	5.2	10.5	3.1	56.2	541	22.6
57 TO 61	1.0	1.0	7.8	5.7	3.6	1.6	2.1	.5	76.6	192	8.0
52 TO 56		3.4	6.9						89.7	29	1.2
47 TO 51									100.0	2	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.6	1.3	3.1	4.9	9.7	14.1	26.8	3.3	35.0	2397	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	OCTOBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101							100.0			2	.1
92 TO 96		16.7					66.7	16.7		6	.2
87 TO 91		18.2	11.4		4.5	11.4	43.2	11.4		44	1.8
82 TO 86	1.2	4.9	4.9		2.5	21.0	49.4	11.1	4.9	81	3.3
77 TO 81	3.6	5.5	3.6		4.2	17.0	53.9	5.5	6.7	165	6.7
72 TO 76	2.7	2.0	2.7	2.4	5.7	23.2	46.1	5.4	9.8	297	12.0
67 TO 71	1.7	3.3	4.3	4.3	11.6	19.0	31.7	3.9	20.1	483	19.5
62 TO 66	2.4	3.4	8.6	10.6	10.1	7.4	12.4	2.3	42.6	615	24.8
57 TO 61	1.6	3.9	11.6	8.6	8.4	2.5	3.2	1.4	59.0	441	17.8
52 TO 56	.9	9.2	4.4	1.7	1.3	.4	.9	1.3	79.9	229	9.2
47 TO 51	.9	2.8	9.3	4.7	.9		.9		80.4	107	4.3
42 TO 46				33.3					66.7	6	.2
37 TO 41		50.0	50.0							4	.2
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.9	4.4	6.9	5.7	7.5	10.9	21.7	3.3	37.7	2990	100.0

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

93114	SANTA ANA, CALIFORNIA	JANUARY 1973-DECEMBER 1982	NOVEMBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96							100.0			2	.1
87 TO 91	7.1		7.1			14.3	57.1	7.1	7.1	14	.6
82 TO 86	2.1	4.2	12.5			10.4	60.4	10.4		48	2.0
77 TO 81	4.3	10.9	3.3		4.3	13.0	57.6	4.3	2.2	92	3.8
72 TO 76	2.0	3.4	4.7	1.3	6.0	17.4	42.3	4.7	18.1	149	6.2
67 TO 71	1.9	5.8	2.7	1.2	4.2	18.8	38.1	7.3	20.0	260	10.8
62 TO 66	2.0	3.7	6.6	7.8	9.5	10.7	30.3	4.9	24.5	347	14.5
57 TO 61	2.6	4.8	9.7	13.0	9.0	5.9	11.0	2.0	42.0	455	19.0
52 TO 56	1.4	6.2	11.8	7.6	5.3	.2	2.8	1.6	63.1	434	18.1
47 TO 51	.6	7.9	12.4	3.7	2.5	.6	1.7	.6	70.2	356	14.8
42 TO 46	3.5	9.0	12.0	2.5	3.5		1.0	.5	68.0	200	8.3
37 TO 41		8.6	20.0	2.9	2.9				65.7	35	1.5
32 TO 36		12.5	25.0						62.5	8	.3
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.0	6.0	9.1	6.0	5.8	6.7	17.9	3.0	43.6	2400	100.0

NAVWEASERVCOM

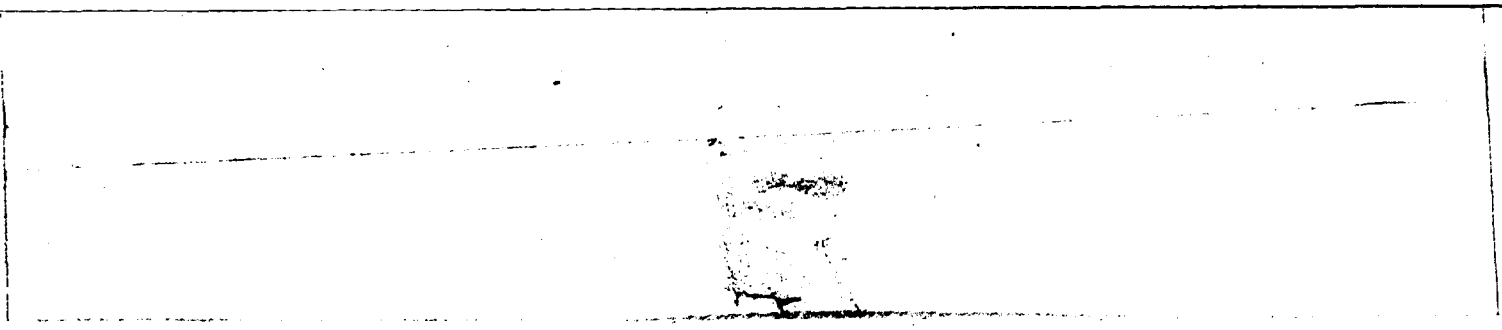
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114 (STATION) SANTA ANA, CALIFORNIA (STATION NAME) JANUARY 1973-DECEMBER 1982 (YEARS) DECEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		40.0			20.0		20.0		20.0	5	.2
82 TO 86		16.7	8.3				50.0	16.7	8.3	12	.5
77 TO 81	2.1	8.5	14.9		2.1	4.3	46.8	6.4	14.9	47	1.9
72 TO 76		3.6	4.8			19.0	46.4	4.8	21.4	84	3.4
67 TO 71	1.6	3.8	8.7	.5	5.4	18.5	40.2	4.3	16.8	184	7.4
62 TO 66	1.8	4.6	5.5	5.2	8.9	13.3	33.2	6.8	20.9	325	13.1
57 TO 61	3.1	6.3	9.9	9.1	8.4	11.1	13.7	3.8	34.6	416	16.8
52 TO 56	3.0	7.3	13.0	10.4	8.4	1.7	3.9	2.2	50.1	463	18.7
47 TO 51	2.0	8.4	14.4	5.6	2.2	.7	.9	.9	65.3	450	18.2
42 TO 46	1.3	12.6	16.3	1.7	2.7	.3		.3	64.8	301	12.2
37 TO 41	1.7	12.7	13.9	4.0				1.2	66.5	173	7.0
32 TO 36			12.5						87.5	16	.6
27 TO 31									100.0	1	.0
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.1	7.7	11.6	5.7	5.4	6.2	13.3	2.8	45.3	2877	100.0

NAVWEASERVCOM



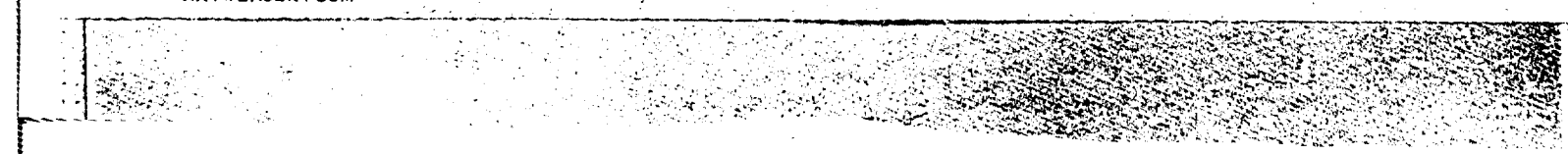
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93114 (STATION) | SANTA ANA, CALIFORNIA (STATION NAME) | JANUARY 1973-DECEMBER 1982 (YEARS) | ALL (MONTH) | ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106	16.7					33.3	50.0			6	.0
97 TO 101	2.7	5.4	8.1		2.7	21.6	56.8	2.7		37	.1
92 TO 96		2.0	2.0			19.4	70.4	5.1	1.0	98	.3
87 TO 91	2.7	6.2	2.7		2.7	22.3	55.1	4.8	3.4	294	1.0
82 TO 86	1.1	2.2	2.4		2.9	23.6	59.2	5.3	3.4	760	2.6
77 TO 81	1.2	2.4	2.1	.4	4.4	21.4	57.7	4.6	5.9	1648	5.6
72 TO 76	1.3	1.9	1.7	1.9	7.9	21.9	47.5	4.6	11.4	2693	9.2
67 TO 71	1.4	2.0	2.4	3.9	12.7	20.0	30.5	3.1	24.0	4586	15.7
62 TO 66	1.5	2.1	4.9	7.2	15.0	15.5	20.7	2.4	30.8	5850	20.0
57 TO 61	1.6	2.9	7.4	10.1	14.1	10.5	13.4	1.9	38.1	5201	17.8
52 TO 56	1.5	5.8	11.4	11.3	8.6	3.8	7.1	1.8	48.7	3755	12.9
47 TO 51	1.7	8.0	13.6	8.5	3.0	.6	1.8	1.0	61.8	2507	8.6
42 TO 46	2.0	11.3	13.8	3.2	2.0	.2	.4	.4	66.8	1252	4.3
37 TO 41	2.5	13.2	17.9	3.4	.7			.4	61.9	446	1.5
32 TO 36	4.6	21.5	15.4	1.5					56.9	65	.2
27 TO 31		66.7							33.3	3	.0
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.5	3.9	6.6	6.4	10.0	12.8	22.5	2.5	33.7	29199	100.0

NAVWEASERVCOM



NOCD, Federal Building
Asheville, N. C.

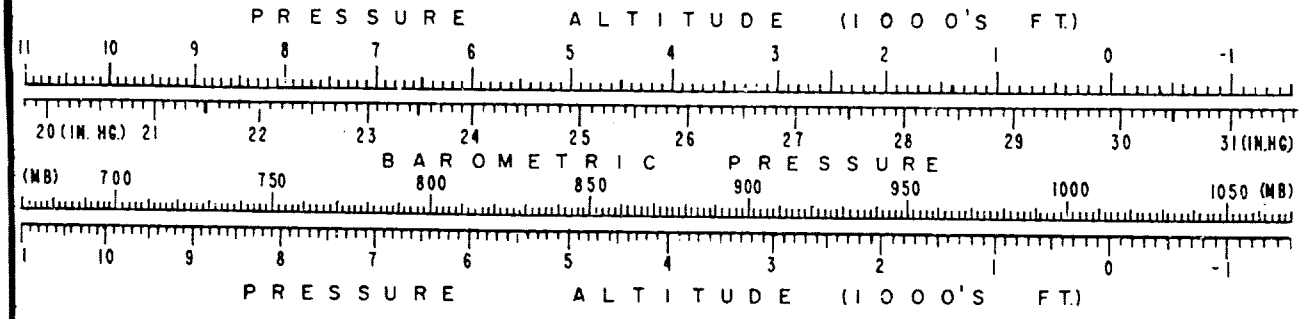
PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.

2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



F

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

93114	SANTA ANA, CALIFORNIA	73-82
STATION	STATION NAME	YEARS

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	30.002	30.007	29.950	29.942	29.882	29.856	29.861	29.856	29.840	29.915	29.966	30.005	29.923
	S. D.	.116	.115	.116	.082	.070	.068	.060	.067	.069	.072	.104	.109	.108
	TOTAL OBS	309	282	310	300	310	298	310	310	300	310	300	310	3649
04	MEAN	29.989	29.990	29.929	29.927	29.870	29.847	29.855	29.849	29.830	29.903	29.956	29.997	29.917
	S. D.	.126	.118	.117	.082	.072	.069	.060	.067	.069	.072	.105	.109	.109
	TOTAL OBS	310	282	310	300	310	298	310	310	300	310	300	310	3650
07	MEAN	30.006	30.012	29.954	29.957	29.897	29.875	29.884	29.879	29.861	29.930	29.981	30.016	29.937
	S. D.	.126	.117	.121	.083	.073	.069	.060	.069	.070	.074	.107	.109	.108
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	310	3651
10	MEAN	30.046	30.040	29.975	29.968	29.913	29.879	29.882	29.884	29.871	29.945	30.002	30.048	29.953
	S. D.	.115	.114	.119	.082	.071	.069	.083	.069	.073	.074	.109	.109	.114
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	29.978	29.988	29.938	29.936	29.881	29.857	29.861	29.852	29.829	29.888	29.937	29.979	29.910
	S. D.	.112	.110	.114	.080	.070	.069	.059	.068	.074	.071	.106	.109	.103
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
16	MEAN	29.965	29.964	29.909	29.906	29.855	29.832	29.830	29.820	29.799	29.869	29.924	29.966	29.886
	S. D.	.112	.110	.112	.079	.068	.067	.059	.067	.073	.072	.105	.106	.105
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
19	MEAN	29.991	29.988	29.927	29.918	29.865	29.838	29.835	29.828	29.817	29.897	29.952	29.991	29.904
	S. D.	.115	.115	.113	.079	.068	.067	.059	.067	.072	.073	.107	.108	.110
	TOTAL OBS	310	282	310	300	310	298	310	310	300	310	300	309	3649
22	MEAN	30.013	30.008	29.955	29.948	29.893	29.867	29.870	29.859	29.846	29.920	29.973	30.012	29.930
	S. D.	.116	.117	.113	.081	.069	.068	.059	.067	.070	.072	.106	.107	.108
	TOTAL OBS	310	282	310	300	309	298	310	310	306	310	300	309	3646
ALL HOURS	MEAN	29.999	30.000	29.942	29.938	29.881	29.856	29.860	29.853	29.837	29.908	29.961	30.002	29.919
	S. D.	.119	.116	.117	.083	.072	.070	.066	.071	.074	.076	.109	.110	.110
	TOTAL OBS	2479	2256	2480	2400	2479	2392	2480	2479	2400	2480	2400	2477	29202