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DR-421

MARCH 1969

AD

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WHITE SANDS MISSILE RANGE

CLIMATE CALENDAR

BY

PAUL H. TAFT

ATMOSPHERIC SCIENCES OFFICE
WHITE SANDS MISSILE RANGE, NEW MEXICO

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CLIMATE CALENDAR

BY

PAUL H. TAFT

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ATMOSPHERIC SCIENCES OFFICE
WHITE SANDS MISSILE RANGE, NEW MEXICO

ABSTRACT

This is the fourth edition of the White Sands Missile Range Climate Calendar, which was first published in May, 1963.

Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1968) are tabulated in calendar form for "A" Station, the weather center located at Headquarters, White Sands Missile Range, New Mexico. Averages of temperature, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall.

Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly temperatures and relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms and visibility restrictions, as well as a summary of weather extremes for the State of New Mexico. Presented in graph form are weekly means of maximum and minimum temperatures, weekly values of precipitation, mean hourly and monthly wind speeds with prevailing directions, and average hourly variations from the mean station pressure.

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INTRODUCTION

The weather site designated as "A" Station is in the Headquarters area of White Sands Missile Range (WSMR). Its geographic coordinates are 32° 22.7' North and 106° 28.8' West (Fig. 1). The elevation of the Station Barometer is 4,238.4 feet above sea level. The climatological data in this report are for a period of 19 years, 1950 through 1968, unless otherwise indicated. (Daily temperature means and extremes only have been computed through February, 1969.) The station was initially operated by the Air Force, but since April 1961 it has been manned by U. S. Army personnel.

Temperature, wind, precipitation and relative humidity are measured with instruments mounted on the roof of the weather station building, No. 1510. (The elevation of the floor of the instrument shelter is 4252 feet.) However, since May 1955 wind measurements have been made by an Aerovane mounted on a 13-foot mast 0.5 mile west—279°—from the station, (elevation of Aerovane, 4,304.05 feet) with indicators and recorders for wind speed and direction installed in the weather station building.

Temperature extremes are the highest (maximum) and the lowest (minimum) temperatures which have occurred for each day of the year for the period of record. Temperatures are given in degrees Fahrenheit, wind speeds are in knots, and rainfall and snowfall are reported in inches. Daily temperature means were smoothed after comparison with weekly and monthly averages. (Fig. 3 and 4.)

The data in this report are considered to be representative of the Headquarters area. However, due to the great extent and extreme variations in elevation and topography of WSMR (4,000 square miles, from dry lake beds—"playas"—at 3,900 feet to mountain peaks near 9,000 feet, Fig. 1 and 2) conditions in other parts of the range may vary widely. For example, the record low temperature for this station is 6° below zero, while at White Sands National Monument it is 25° below zero, and both of these records occurred on the same date—11 January 1962. (See Table IV.) Also, severe local thunderstorms may produce torrential rainfall in a comparatively small area with little or no rainfall a few miles distant. On 4 July 1961, 1.80" of rain fell in 48 minutes at "A" Station and the 24-hour total was 2.31", while at Orogrande [1], 24 miles east, the total rainfall for that day was only 0.02".

The greatest 24-hour rainfall of record on the Range occurred at White Sands National Monument [2] on 21-22 September 1941, with a fall of 5.30". Of this amount, 4.28" fell in five hours—1430-1930 MST, 21 September. This, however, was a general storm, with rainfall totals at a few other stations on or near WSMR as follows: [2 & 3] Alamogordo, 2.60"; El Paso Airport, 3.42"; Las Cruces, 4.61"; Orogrande, 3.27", Tularosa, 4.75". The greatest 24-hour rainfall of record at "A" Station is 4.25", which fell on 23-24 August 1959. (See Table III.)

DISCUSSION

COLD SEASON (NOVEMBER-APRIL) WEATHER

December and January are coldest months, with identical mean temperatures. (See Table I.) February averages nearly 3° warmer, but it has the same low temperature record as December. The record low temperature, (-6°) occurred on 11 January 1962, when absolute record minima were established at most stations in southern New Mexico, during an extremely severe cold spell. (See Table IV.)

The average number of days with minimum temperatures at or below freezing is 38, and with 20° or less is only three. The earliest date of the last freezing temperature in spring occurred on 14 February 1950 (see Table VIII), while the earliest date of a 90° temperature was 14 April 1963. The record high temperature for the cold season--94°--was recorded on 22 April 1965. The average date of the last freezing temperature in the Spring is 14 March, and of the first freeze in the Fall is 20 November.

Mean maximum and minimum temperatures for April are within 0.2° of the annual means. A comparison of "A" Station with 141 Weather Bureau Climatological stations in New Mexico [4], shows that the mean minimum temperature of "A" Station for the coldest month (34.3°) is 0.4° higher than that of Carlsbad Caverns, which has the highest winter month minimum temperatures of any of the New Mexico Weather Bureau stations.

Only 30% of the annual rainfall occurs during the cold season, and April (the second driest month) and November (the third driest) altogether account for only 7% of the annual total. This 6-month period averages only three days with the occurrence of thunderstorms out of the annual total of 44 days. The three coldest months receive 77% of the annual snowfall total of 5.9 inches.

April, the windiest month of the year, has an average hourly wind speed of 8.5 knots. Visibility is reduced to 6 miles or less (by fog, snow, blowing dust, etc.) on an average of 23 days during this season. Five of these days occur in March and four in April, while the total for the year is 39 days. (See Table VII.)

WARM SEASON (MAY-OCTOBER) WEATHER

Although June and July are the warmest months, August is only slightly cooler (see Table II). The average number of days with a temperature of 100° or more is only 7, three each in June and July, and one in August. Only in occasional years do such high temperatures occur in May, and none have been recorded in September at this station. The greatest number of successive days with 100° or more is 8, from 26 June to 3 July 1960. However, 18 successive days with 99° or more occurred from 24 June to 11 July 1951. It was during these two periods that the absolute record high temperature of 106° occurred four times.

Maximum temperatures at Desert Station (near Army Block House) average about 1.2° higher than at "A" Station during the summer months, so that 100° temperatures can be expected in that area on an average of about 12 days each summer. At Orogrande, about 24 miles east of WSMR Headquarters, summer temperatures average about four degrees higher than at this station, and the absolute record high temperature for Orogrande—116°—equals the record high temperature for the entire state of New Mexico. (See Table V).

The lowest maximum temperature of occurrence for any year was in 1959 when 99° was recorded only twice. The average number of days with maximum temperatures of 90° or more is 34, sixty-seven of which occur during the three warmest months. The earliest date of a 95° reading was 11 May 1962, and the average date is 2 June. The latest occurrence of 95° in late summer was on 27 September 1951, and the average date is 4 September, while there are thirty-six days per year when a maximum of 95° or more is recorded. October mean temperatures are within two degrees of the annual means.

May (the driest month) and June are, on the average, quite dry. Collectively, they contribute only 11% of the total annual rainfall. July, August and September, the wettest months of the year, account for 50% of the average annual rainfall of 10.32", and for 66% of the thunderstorms. Seventy percent of the annual rainfall occurs during the warm season and all but three of the 44 days with thunderstorms. The greatest monthly rainfall of record at this station--7.42"--occurred in June, 1966. The driest year of record was 1956, with a rainfall total of only 3.92", (Table III).

October, with an average hourly wind speed of 4.6 knots, is the least windy month of the year, while the annual average is 6.1 knots. The prevailing wind direction for 11 of the 12 months is west, but for July it is southeast. Visibility of 6 miles or less occurs on 16 days during the warm season.

COLDEST PERIODS	TEMPERATURES (° F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH- EST	LOW- EST
MONTH OF DECEMBER	55.7	34.4	45.1	77	8
MONTH OF JANUARY	55.9	34.3	45.1	73	-6
MONTH OF FEBRUARY	59.9	37.6	48.8	81	8
COLDEST 30 DAYS, 12/20 to 1/18	54.3	32.6	43.5	73	-6
COLDEST 15 DAYS, 1/3 to 1/17	54.1	32.2	43.2	73	-6
COLDEST 7 DAYS, 1/8 to 1/14	53.7	32.0	42.9	73	-6

TABLE I. TEMPERATURES DURING COLDEST MONTHS, "A" STATION

WARMEST PERIODS	TEMPERATURES (° F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH- EST	LOW- EST
MONTH OF JUNE	92.9	69.2	81.1	106	50
MONTH OF JULY	93.2	70.5	82.0	106	59
MONTH OF AUGUST	91.1	68.9	80.0	102	55
WARMEST 30 DAYS, 6/18 to 7/17	94.4	71.0	82.7	106	59
WARMEST 15 DAYS, 6/19 to 7/3	95.2	71.5	83.4	106	59
WARMEST 7 DAYS, 6/22 to 6/28	95.5	72.2	83.9	106	62

TABLE II. TEMPERATURES DURING WARMEST MONTHS, "A" STATION

The following tabulations show the precipitation extremes (greatest and least) of record for White Sands Missile Range and vicinity:

PRECIPITATION EXTREMES, "A" STATION, WHITE SANDS MISSILE RANGE		
0.38 inch	8 minutes	1412-1420MST, 27 July 1965
1.80 inch	48 minutes	1530-1618MST, 4 July 1961
2.92 inches	2 $\frac{1}{2}$ hours	0050-0320MST, 24 August, 1959
3.17 inches	6 hours	2245-0445MST, 23-24 August, 1959
3.72 inches	12 hours	1645-0445MST, 23-24 August, 1959
4.25 inches	24 hours	2210-1925MST, 23-24 August, 1959
Greatest annual rainfall:		20.02 inches in 1958.
Least annual rainfall:		3.92 inches in 1956.
Longest dry spell		
(no measureable rainfall):		123 days, 2/10-6/11, 1956.
Second longest dry spell:		80 days, 10/8-12/26, 1954.
Greatest seasonal snowfall:		24.5 inches, 1967-1968.
Greatest annual snowfall:		18.5 inches, 1960.
HEAVIEST RAINFALL OF RECORD, WHITE SANDS NATIONAL MONUMENT [3]		
0.95 inch	30 minutes	4.28 inches 5 hours
1.50 inch	1 hour	4.40 inches 6 hours
2.50 inches	2 hours	5.17 inches 12 hours
3.50 inches	3 hours	5.30 inches 24 hours, 9/21-22/41
PRECIPITATION EXTREMES, NEW MEXICO STATE UNIVERSITY, LAS CRUCES [8]		
Extremely heavy rainfall occurred at the University station from 11:05pm 29 Aug. to 7:00am 30 Aug., 1935, measure as follows:		
0.64 inch	5 minutes	2.77 inches 60 minutes
1.06 inch	10 minutes	4.15 inches 2 hours
1.50 inch	15 minutes	4.77 inches 3 hours
1.86 inch	20 minutes	5.91 inches 4 hours
2.48 inches	30 minutes	6.46 inches 7 hours 55 minutes
Greatest 24-hour rainfall:		6.49 inches, 29-30 August, 1935
Greatest monthly rainfall:		7.53 inches, September, 1941
WETTEST AND DRIEST YEARS, NEW MEXICO STATE UNIVERSITY		
15.05 inches in 1881, La Mesilla	13.26 inches in 1931, NMSU	
17.09 inches in 1905, NMSU	19.60 inches in 1941, NMSU	
14.35 inches in 1926, NMSU	14.01 inches in 1958, NMSU	
3.61 inches in 1860, Ft. Fillmore	4.02 inches in 1910, NMSU	
3.49 inches in 1873, Ft. Selden	3.81 inches in 1953, NMSU	
4.47 inches in 1892, NMSU	3.62 inches in 1964, NMSU	
HEAVIEST SNOWFALL OF RECORD, NEW MEXICO STATE UNIVERSITY		
Greatest Monthly		Greatest 24-hours
January	4.7 inches in 1947	4.7 inches in 1947
February	10.4 inches in 1956	9.0 inches in 1956
March	2.7 inches in 1944	2.7 inches in 1944
November	5.0 inches in 1957	5.0 inches in 1957
December	10.3 inches in 1931	9.0 inches in 1931

TABLE III. PRECIPITATION EXTREMES, WSMR AND VICINITY

WEATHER EXTREMES IN NEW MEXICO

On rare occasions an extremely cold arctic air mass invades southern New Mexico, bringing record-breaking low temperatures. Such an event occurred on the 10th and 11th of January, 1962. It was the most severe outbreak of polar continental air in many years and tumbled old low temperature records for most stations in south-central New Mexico, some of which had stood for more than a half-century. Table IV lists these new absolute minimum temperature records.

STATION	TEMPERATURE, °F
"A" STATION, WHITE SANDS MISSILE RANGE	-6
ALAMOGORDO	-14
BINGHAM	-12
BOQUE DEL APACHE	-16
CARRIZO	-12
CLOVERCROFT	-21
DESERT STATION (MSD), WSMR	-14
FLORIDA	-15
PORT STANTON	-28
RATER	-17
WILLIAMS AIR FORCE BASE	-11
LODSBURG	-2
MUSCALERO	-19
NEW MEXICO STATE UNIVERSITY, LAS CRUCES	-10
OROGRADE	-13
SUNSPOT (SACRAMENTO PEAK) [7]	-23
SILVER CITY	-13
WHITE SANDS NATIONAL MONUMENT	-25

TABLE IV. NEW MINIMUM TEMPERATURE RECORDS IN SOUTHERN NEW MEXICO DUE TO SEVERE COLD SPELL OF 10-11 JANUARY, 1962 [4]

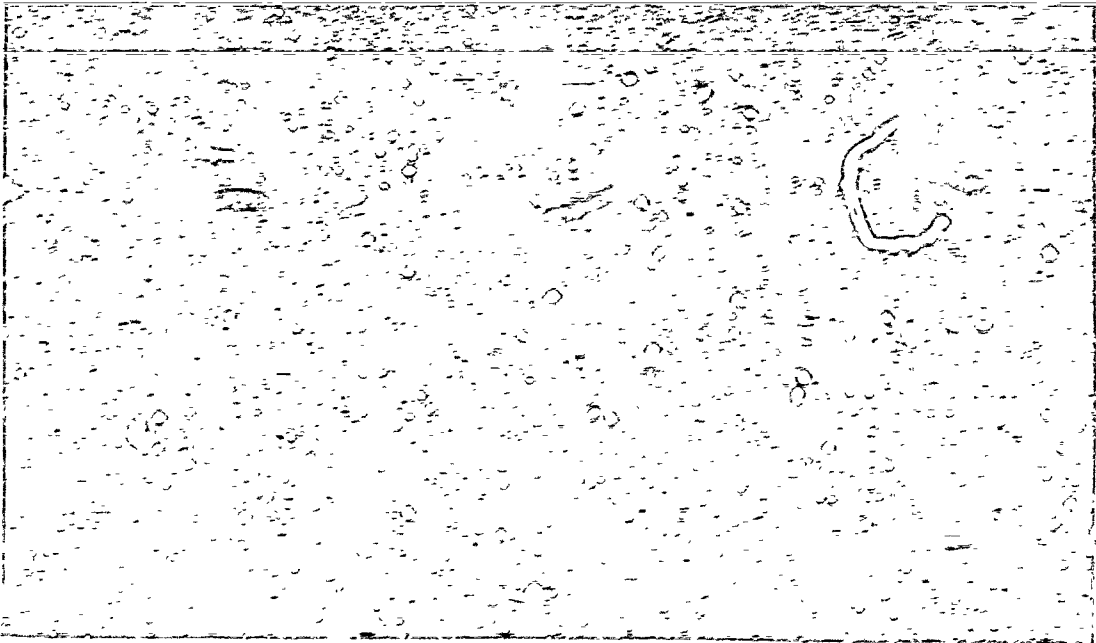
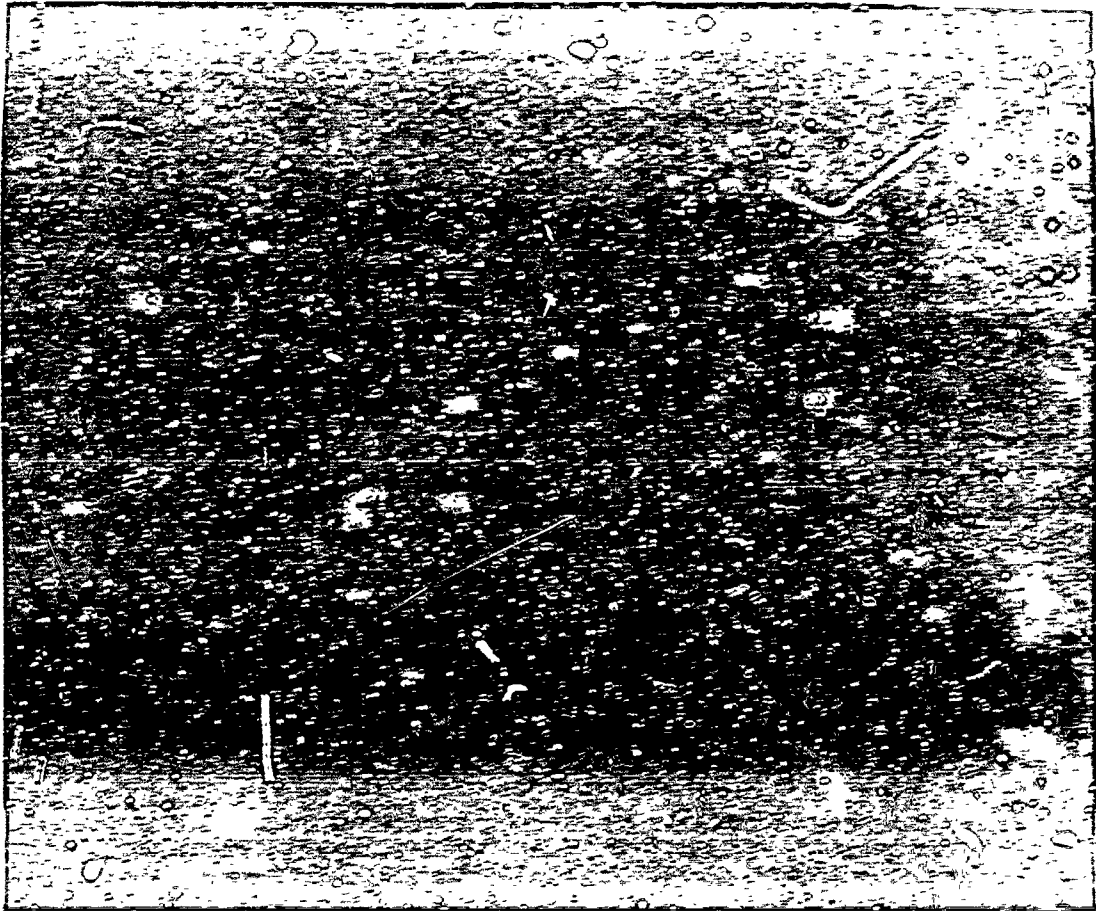
Tables V and VI are listings of weather extremes which give an indication of the great variations of climate which are encountered in New Mexico. Only twelve of the fifty states have recorded lower temperatures than New Mexico's -50°, while eighteen states have endured summer temperatures exceeding our record of 116°. With a seasonal snowfall record of 483 inches, New Mexico ranks seventh among the fifty states; Washington ranks first, with exactly one thousand inches. [9]

MONTH	HIGHEST TEMPERATURE				LOWEST TEMPERATURE			
	°F	DAY	YEAR	STATION	°F	DAY	YEAR	STATION
JAN	89	6	1938	Tularosa	-47	11	1962	Eagle Nest
FEB	100	24	1904	Carlsbad	-50	1	1951	Covilan
MAR	99	31	1946	Roswell #2	-34	12	1948	Eagle Nest
APR	104	10	1934	Artesia	-36	5	1945	Eagle Nest
MAY	110	28	1896	Rincon	-2	1	1967	Eagle Nest
JUN	116	29	1918	Artesia	12	1	1946	E'town *
JUL	116	14	1934	Orogrande	19	5	1935	Therma
AUG	111	7	1934	Kara Visa	23	30	1944	Seloor Ranch
	111	23	1932	Rodeo				
SEP	112	7	1948	Orogrande	8	23	1912	E'town *
OCT	101	5	1934	Carlsbad	-15	24	1945	Red River
NOV	97	7	1903	Carlsbad	-36	24	1931	Covilan
					-36	25	1931	Bulce
DEC	90	12	1933	Hagerman	-47	12	1961	Bulce

TABLE V. NEW MEXICO TEMPERATURE EXTREMES BY MONTHS, 1892-1968 [5]
 * E'town = Elizabethtown (near Eagle Nest)

EXTREMES		INCHES	LOCATION	DATE
ANNUAL RAINFALL	Greatest	62.45	White Tail	1941
	Least	1.00	Hermasas	1910
GREATEST RAINFALL	1-Month	16.21	Portales 7 WNW	May 1941
	24-Hour	11.28	Lake Maloya	19 May 1955
	Seasonal	483.0	Anchor Mine	1911-1912
GREATEST SNOWFALL	Annual	415.7	Anchor Mine	1915
	1-Month	144.0	Anchor Mine	March 1912
	Single-Storm	40.0	Corona	14-16 Dec. 1959
	24-Hour	30.0	Sandia Crest	29 Dec. 1958
	Greatest Depth	90.0	Anchor Mine	28 Mar. 1912

TABLE VI. NEW MEXICO RAINFALL AND SNOWFALL EXTREMES, 1892-1968 [5]



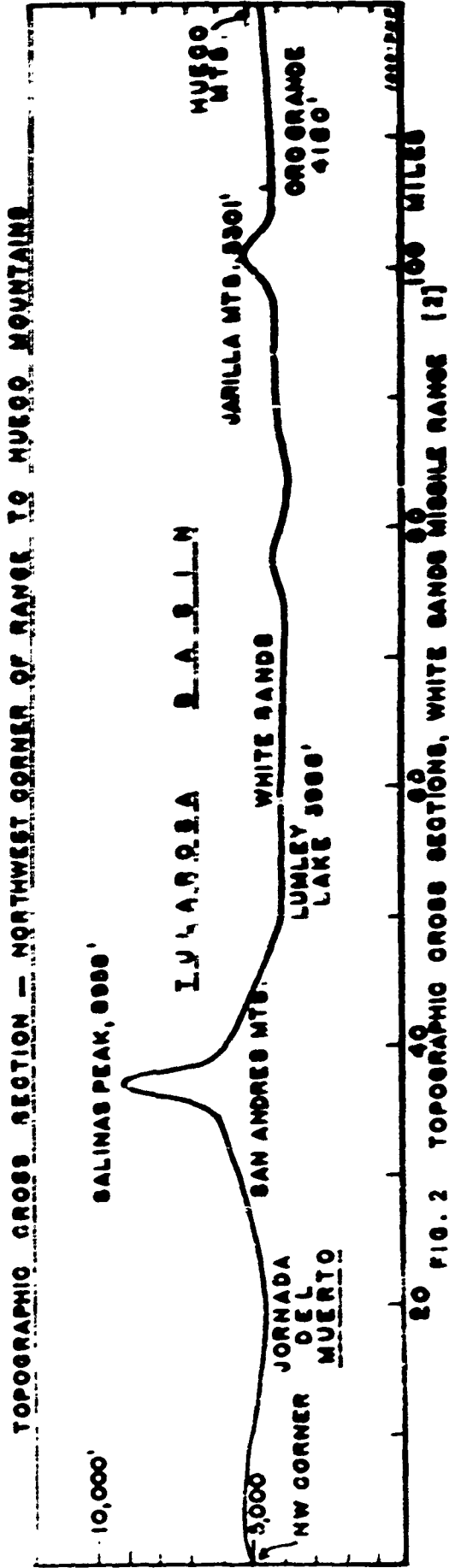
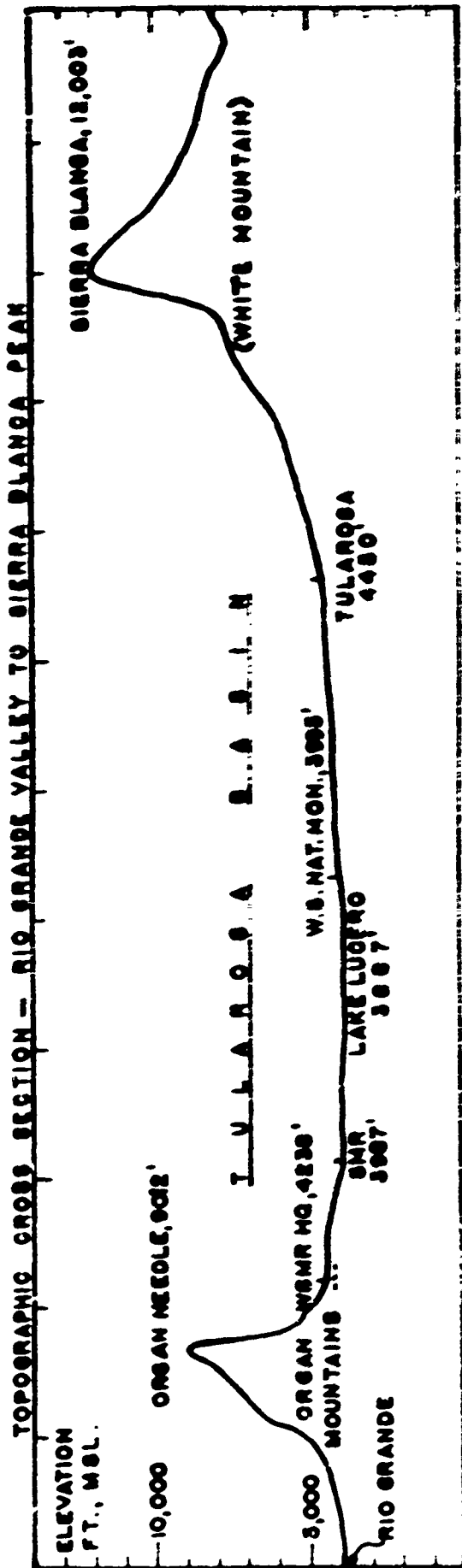


FIG. 2 TOPOGRAPHIC CROSS SECTIONS, WHITE SANDS MISSILE RANGE (2)

FEBRUARY

MOI

AVG. HIGH HIGHEST YEAR	60 79 1963	1	AVG. LOW LOWEST YEAR	37 +8 1951
AVG. HIGH HIGHEST YEAR	60 71 1963	2	AVG. LOW LOWEST YEAR	37 +9 1951
AVG. HIGH HIGHEST YEAR	60 75 1962	9	AVG. LOW LOWEST YEAR	37 18 1967
AVG. HIGH HIGHEST YEAR	59 72 1959	16	AVG. LOW LOWEST YEAR	37 25 1966
AVG. HIGH HIGHEST YEAR	60 73 1956	23	AVG. LOW LOWEST YEAR	38 24 1965
AVG. HIGH HIGHEST YEAR	60 79 1963	1	AVG. LOW LOWEST YEAR	37 +8 1951
AVG. HIGH HIGHEST YEAR	60 78 1957	8	AVG. LOW LOWEST YEAR	37 25 1967
AVG. HIGH HIGHEST YEAR	59 71 1961	15	AVG. LOW LOWEST YEAR	37 20 1951
AVG. HIGH HIGHEST YEAR	60 75 1954	22	AVG. LOW LOWEST YEAR	38 23 1955

FEBRUARY

11

[illegible]

AVG. HIGH	62	AVERAGE MAXIMUM TEMPERATURE	59.9	AVERAGE MONTHLY WIND SPEED	6.5	ANNUAL	6.1	K
HIGHEST	67	AVERAGE MINIMUM TEMPERATURE	37.6	PREVAILING WIND DIRECTION	West	ANNUAL	West	
YEAR	1956	RECORD MAXIMUM TEMPERATURE	61	AVERAGE MONTHLY RAINFALL	0.60	ANNUAL	10.32	IN.
	29	RECORD MINIMUM TEMPERATURE*	+8	AVERAGE MONTHLY SNOWFALL	1.5	ANNUAL	5.9	IN.
AVG. JAN	40	AVERAGE RELATIVE HUMIDITY	79	AVERAGE MONTHLY CLOUDLINESS	36	ANNUAL	36	%
LOWEST	29	GREATEST MONTHLY RAINFALL	1.45	IN., YEAR 1937				
YEAR	1956	GREATEST 24-HOUR RAINFALL	1.01	IN., YEAR 1931				
				DATE 28				

* 14th: EARLIEST DATE OF LAST FREEZING TEMPERATURE IN SPRING, 1950.

"A" STATION. WHITE SANDS MISSILE RANGE

MARCH

"A" STATION, WHITE SANDS MISSILE RANGE										APRIL									
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE										MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES									
APRIL										APRIL									
AVG. HIGH	72	AVG. HIGH	72	AVG. HIGH	72	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73
HIGHEST	80	HIGHEST	83	HIGHEST	86	HIGHEST	87	HIGHEST	86	HIGHEST	86	HIGHEST	85	HIGHEST	85	HIGHEST	86	HIGHEST	86
YEAR	1950	YEAR	1966	YEAR	1954	YEAR	1967	YEAR	1959	YEAR	1959	YEAR	1954	YEAR	1954	YEAR	1963	YEAR	1963
AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49	AVG. LOW	49
LOWEST	40	LOWEST	35	LOWEST	35	LOWEST	37	LOWEST	41	LOWEST	41	LOWEST	36	LOWEST	36	LOWEST	41	LOWEST	41
YEAR	1955	YEAR	1956	YEAR	1960	YEAR	1964	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1964	YEAR	1964
AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	75	AVG. HIGH	75	AVG. HIGH	75	AVG. HIGH	75	AVG. HIGH	75	AVG. HIGH	75
HIGHEST	86	HIGHEST	84	HIGHEST	86	HIGHEST	88	HIGHEST	82	HIGHEST	82	HIGHEST	85	HIGHEST	85	HIGHEST	90	HIGHEST	90
YEAR	1963	YEAR	1954	YEAR	1960	YEAR	1960	YEAR	1963	YEAR	1963	YEAR	1962	YEAR	1962	YEAR	1963	YEAR	1963
AVG. LOW	50	AVG. LOW	50	AVG. LOW	50	AVG. LOW	51	AVG. LOW	51	AVG. LOW	51	AVG. LOW	52	AVG. LOW	52	AVG. LOW	52	AVG. LOW	52
LOWEST	40	LOWEST	41	LOWEST	41	LOWEST	34	LOWEST	37	LOWEST	37	LOWEST	36	LOWEST	36	LOWEST	38	LOWEST	38
YEAR	1964	YEAR	1964	YEAR	1956	YEAR	1951	YEAR	1953	YEAR	1953	YEAR	1959	YEAR	1959	YEAR	1958	YEAR	1958
AVG. HIGH	76	AVG. HIGH	76	AVG. HIGH	76	AVG. HIGH	77	AVG. HIGH	77	AVG. HIGH	77	AVG. HIGH	77	AVG. HIGH	77	AVG. HIGH	77	AVG. HIGH	77
HIGHEST	89	HIGHEST	91	HIGHEST	89	HIGHEST	89	HIGHEST	88	HIGHEST	88	HIGHEST	88	HIGHEST	88	HIGHEST	92	HIGHEST	92
YEAR	1962	YEAR	1962	YEAR	1962	YEAR	1954	YEAR	1962	YEAR	1962	YEAR	1965	YEAR	1965	YEAR	1965	YEAR	1965
AVG. LOW	53	AVG. LOW	53	AVG. LOW	54	AVG. LOW	54	AVG. LOW	53	AVG. LOW	53	AVG. LOW	53	AVG. LOW	53	AVG. LOW	53	AVG. LOW	53
LOWEST	42	LOWEST	43	LOWEST	43	LOWEST	42	LOWEST	43	LOWEST	43	LOWEST	42	LOWEST	42	LOWEST	45	LOWEST	45
YEAR	1956	YEAR	1961	YEAR	1960	YEAR	1960	YEAR	1956	YEAR	1956	YEAR	1968	YEAR	1968	YEAR	1959	YEAR	1959
AVG. HIGH	77	AVG. HIGH	77	AVG. HIGH	78	AVG. HIGH	78	AVG. HIGH	78	AVG. HIGH	78	AVG. HIGH	78	AVG. HIGH	78	AVG. HIGH	78	AVG. HIGH	78
HIGHEST	94	HIGHEST	89	HIGHEST	88	HIGHEST	83	HIGHEST	89	HIGHEST	89	HIGHEST	85	HIGHEST	85	HIGHEST	84	HIGHEST	84
YEAR	1965	YEAR	1965	YEAR	1959	YEAR	1956	YEAR	1950	YEAR	1950	YEAR	1953	YEAR	1953	YEAR	1961	YEAR	1961
AVG. LOW	55	AVG. LOW	55	AVG. LOW	55	AVG. LOW	55	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56
LOWEST	46	LOWEST	41	LOWEST	36	LOWEST	45	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	49	LOWEST	49
YEAR	1952	YEAR	1968	YEAR	1968	YEAR	1961	YEAR	1964	YEAR	1964	YEAR	1963	YEAR	1963	YEAR	1961	YEAR	1961
AVG. HIGH	78	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	79
HIGHEST	87	HIGHEST	89	HIGHEST	89	HIGHEST	94	HIGHEST	94	HIGHEST	94	HIGHEST	94	HIGHEST	94	HIGHEST	94	HIGHEST	94
YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1961
AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56
LOWEST	45	LOWEST	42	LOWEST	42	LOWEST	42	LOWEST	42	LOWEST	42	LOWEST	42	LOWEST	42	LOWEST	42	LOWEST	42
YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951
**EARLIEST DATE OF ≥ 90° TEMPERATURE AT STATION.										AVERAGE MONTHLY WIND SPEED 8.6 KNOTS PREVAILING WIND DIRECTION WEST AVERAGE MONTHLY RAINFALL 0.27 INCH AVERAGE MONTHLY SNOWFALL Trace INCH AVERAGE MONTHLY CLOUDINESS 35 % YEAR 1952, DATE 11th									

"A" STATION, WHITE SANDS MISSILE RANGE									
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE									
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES									
MAY					MAY				
AVG. HIGH 79	AVG. HIGH 80	AVG. HIGH 81	AVG. HIGH 82	AVG. HIGH 82	AVG. HIGH 82	AVG. HIGH 82	AVG. HIGH 82	AVG. HIGH 82	AVG. HIGH 82
HIGHEST 90	HIGHEST 87	HIGHEST 91	HIGHEST 92	HIGHEST 92	HIGHEST 92	HIGHEST 92	HIGHEST 92	HIGHEST 92	HIGHEST 92
YEAR 1961	YEAR 1965	YEAR 1956	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1956
1	2	3	4	5	6	7	8	9	10
AVG. LOW 56	AVG. LOW 56	AVG. LOW 57	AVG. LOW 57	AVG. LOW 57	AVG. LOW 57	AVG. LOW 57	AVG. LOW 57	AVG. LOW 57	AVG. LOW 57
LOWEST 41	LOWEST 39	LOWEST 43	LOWEST 39	LOWEST 44	LOWEST 46	LOWEST 46	LOWEST 46	LOWEST 46	LOWEST 49
YEAR 1951	YEAR 1967	YEAR 1953	YEAR 1953	YEAR 1950	YEAR 1950	YEAR 1950	YEAR 1950	YEAR 1950	YEAR 1960
AVG. HIGH 82	AVG. HIGH 83	AVG. HIGH 83	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84
HIGHEST 93	HIGHEST 93	HIGHEST 94	HIGHEST 95	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 95
YEAR 1956	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1963
8	9	10	11	12	13	14	15	16	17
AVG. LOW 58	AVG. LOW 59	AVG. LOW 59	AVG. LOW 59	AVG. LOW 60	AVG. LOW 60	AVG. LOW 60	AVG. LOW 60	AVG. LOW 60	AVG. LOW 60
LOWEST 50	LOWEST 46	LOWEST 45	LOWEST 50	LOWEST 50	LOWEST 45	LOWEST 45	LOWEST 45	LOWEST 45	LOWEST 47
YEAR 1964	YEAR 1965	YEAR 1953	YEAR 1953	YEAR 1955	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953
AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84	AVG. HIGH 84
HIGHEST 94	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93	HIGHEST 93
YEAR 1964	YEAR 1964	YEAR 1964	YEAR 1965	YEAR 1961	YEAR 1961	YEAR 1961	YEAR 1961	YEAR 1961	YEAR 1965
15	16	17	18	19	20	21	22	23	24
AVG. LOW 60	AVG. LOW 61	AVG. LOW 61	AVG. LOW 61	AVG. LOW 62	AVG. LOW 62	AVG. LOW 62	AVG. LOW 62	AVG. LOW 62	AVG. LOW 62
LOWEST 47	LOWEST 49	LOWEST 52	LOWEST 48	LOWEST 47	LOWEST 50	LOWEST 50	LOWEST 50	LOWEST 50	LOWEST 50
YEAR 1957	YEAR 1967	YEAR 1965	YEAR 1968	YEAR 1952	YEAR 1960	YEAR 1960	YEAR 1960	YEAR 1960	YEAR 1967
AVG. HIGH 86	AVG. HIGH 86	AVG. HIGH 86	AVG. HIGH 87	AVG. HIGH 87	AVG. HIGH 88	AVG. HIGH 88	AVG. HIGH 88	AVG. HIGH 88	AVG. HIGH 88
HIGHEST 93	HIGHEST 94	HIGHEST 99	HIGHEST 95	HIGHEST 100	HIGHEST 102	HIGHEST 102	HIGHEST 102	HIGHEST 102	HIGHEST 101
YEAR 1965	YEAR 1953	YEAR 1964	YEAR 1951	YEAR 1951	YEAR 1951	YEAR 1951	YEAR 1951	YEAR 1951	YEAR 1951
22	23	24	25	26	27	28	29	30	31
AVG. LOW 62	AVG. LOW 63	AVG. LOW 63	AVG. LOW 63	AVG. LOW 64	AVG. LOW 64	AVG. LOW 64	AVG. LOW 64	AVG. LOW 64	AVG. LOW 64
LOWEST 55	LOWEST 57	LOWEST 56	LOWEST 54	LOWEST 53	LOWEST 50	LOWEST 50	LOWEST 50	LOWEST 50	LOWEST 50
YEAR 1962	YEAR 1963	YEAR 1959	YEAR 1954	YEAR 1967	YEAR 1950	YEAR 1950	YEAR 1950	YEAR 1950	YEAR 1952
AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89
HIGHEST 98	HIGHEST 99	HIGHEST 99	HIGHEST 99	HIGHEST 99	HIGHEST 99	HIGHEST 99	HIGHEST 99	HIGHEST 99	HIGHEST 99
YEAR 1951	YEAR 1951	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953	YEAR 1953
29	30	31	32	33	34	35	36	37	38
AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65	AVG. LOW 65
LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57	LOWEST 57
YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962	YEAR 1962
** EARLIEST DATE OF 100° TEMPERATURE AT STATION.									
AVG. WIND SPEED 7.9 KNOTS PREVAILING WIND DIR. West AVERAGE RAINFALL 0.24 IN. AVERAGE SNOWFALL 0.0 IN. AVERAGE CLOUDINESS 37 % IN. YEAR 1959 IN. YEAR 1959 DATE 21st									

"A" STATION, WHITE SANDS MISSILE RANGE.
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JUNE				JUNE				JUNE				JUNE			
AVG. HIGH	89	AVG. HIGH	89	AVG. HIGH	90	AVG. HIGH	90	AVG. HIGH	90	AVG. HIGH	90	AVG. HIGH	90	AVG. HIGH	90
HIGHEST	96	HIGHEST	96	HIGHEST	100	HIGHEST	99	HIGHEST	94	HIGHEST	97	HIGHEST	99	HIGHEST	99
YEAR	1953	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1967	YEAR	1950	YEAR	1956	YEAR	1956
AVG. LOW	66	AVG. LOW	66	AVG. LOW	66	AVG. LOW	67	AVG. LOW	67	AVG. LOW	67	AVG. LOW	67	AVG. LOW	67
LOWEST	50	LOWEST	50	LOWEST	56	LOWEST	57	LOWEST	56	LOWEST	60	LOWEST	59	LOWEST	59
YEAR	1964	YEAR	1964	YEAR	1962	YEAR	1957	YEAR	1963	YEAR	1959	YEAR	1960	YEAR	1960
AVG. HIGH	91	AVG. HIGH	91	AVG. HIGH	91	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93
HIGHEST	101	HIGHEST	98	HIGHEST	98	HIGHEST	98	HIGHEST	98	HIGHEST	101	HIGHEST	99	HIGHEST	99
YEAR	1955	YEAR	1953	YEAR	1962	YEAR	1959	YEAR	1968	YEAR	1956	YEAR	1956	YEAR	1956
AVG. LOW	67	AVG. LOW	67	AVG. LOW	67	AVG. LOW	68	AVG. LOW	68	AVG. LOW	69	AVG. LOW	69	AVG. LOW	69
LOWEST	63	LOWEST	59	LOWEST	53	LOWEST	50	LOWEST	56	LOWEST	62	LOWEST	57	LOWEST	57
YEAR	1968	YEAR	1965	YEAR	1963	YEAR	1963	YEAR	1960	YEAR	1953	YEAR	1953	YEAR	1953
AVG. HIGH	93	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	96	AVG. HIGH	96
HIGHEST	101	HIGHEST	99	HIGHEST	100	HIGHEST	103	HIGHEST	104	HIGHEST	103	HIGHEST	105	HIGHEST	105
YEAR	1950	YEAR	1960	YEAR	1960	YEAR	1960	YEAR	1960	YEAR	1960	YEAR	1968	YEAR	1968
AVG. LOW	69	AVG. LOW	69	AVG. LOW	70	AVG. LOW	70	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71
LOWEST	65	LOWEST	64	LOWEST	58	LOWEST	59	LOWEST	64	LOWEST	63	LOWEST	61	LOWEST	61
YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1953	YEAR	1963	YEAR	1953	YEAR	1966	YEAR	1966
AVG. HIGH	96	AVG. HIGH	96	AVG. HIGH	96	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94
HIGHEST	104	HIGHEST	102	HIGHEST	102	HIGHEST	102	HIGHEST	103	HIGHEST	101	HIGHEST	106	HIGHEST	106
YEAR	1960	YEAR	1968	YEAR	1961	YEAR	1951	YEAR	1957	YEAR	1957	YEAR	1951	YEAR	1951
AVG. LOW	72	AVG. LOW	72	AVG. LOW	72	AVG. LOW	72	AVG. LOW	72	AVG. LOW	72	AVG. LOW	71	AVG. LOW	71
LOWEST	62	LOWEST	68	LOWEST	63	LOWEST	63	LOWEST	62	LOWEST	62	LOWEST	64	LOWEST	64
YEAR	1965	YEAR	1966	YEAR	1965	YEAR	1964	YEAR	1967	YEAR	1966	YEAR	1966	YEAR	1966
AVG. HIGH	94	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	95
HIGHEST	106	HIGHEST	103	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106
YEAR	1951	YEAR	1960	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1951
AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71
LOWEST	61	LOWEST	62	LOWEST	61	LOWEST	61	LOWEST	61	LOWEST	61	LOWEST	61	LOWEST	61
YEAR	1967	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1966

0 ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION.

"A" STATION, WHITE SANDS MISSILE RANGE
DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES																									
JULY		JULY		JULY		JULY		JULY		JULY		JULY		JULY		JULY		JULY		JULY		JULY		JULY	
AVG. HIGH	95	AVG. HIGH	95	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93
HIGHEST	103	HIGHEST	106	HIGHEST	105	HIGHEST	103	HIGHEST	103	HIGHEST	99	HIGHEST	99	HIGHEST	102	HIGHEST	101	HIGHEST	101	HIGHEST	104	HIGHEST	102	HIGHEST	104
YEAR	1957	YEAR	1960	YEAR	1960	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1966	YEAR	1951	YEAR	1963	YEAR	1961	YEAR	1958	YEAR	1954	YEAR	1951
AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	70	AVG. LOW	70
LOWEST	65	LOWEST	65	LOWEST	64	LOWEST	62	LOWEST	62	LOWEST	60	LOWEST	60	LOWEST	62	LOWEST	63	LOWEST	63	LOWEST	64	LOWEST	62	LOWEST	64
YEAR	1959	YEAR	1956	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1964	YEAR	1961	YEAR	1950	YEAR	1955	YEAR	1960
AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	93	AVG. HIGH	92	AVG. HIGH	92
HIGHEST	106	HIGHEST	104	HIGHEST	105	HIGHEST	104	HIGHEST	104	HIGHEST	104	HIGHEST	104	HIGHEST	101	HIGHEST	101	HIGHEST	101	HIGHEST	104	HIGHEST	102	HIGHEST	104
YEAR	1951	YEAR	1951	YEAR	1951	YEAR	1958	YEAR	1958	YEAR	1965	YEAR	1965	YEAR	1963	YEAR	1961	YEAR	1961	YEAR	1958	YEAR	1954	YEAR	1958
AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	70	AVG. LOW	70
LOWEST	61	LOWEST	59	LOWEST	64	LOWEST	65	LOWEST	65	LOWEST	62	LOWEST	62	LOWEST	63	LOWEST	63	LOWEST	63	LOWEST	64	LOWEST	62	LOWEST	64
YEAR	1952	YEAR	1952	YEAR	1960	YEAR	1962	YEAR	1962	YEAR	1959	YEAR	1959	YEAR	1964	YEAR	1961	YEAR	1961	YEAR	1950	YEAR	1955	YEAR	1950
AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	94	AVG. HIGH	92	AVG. HIGH	92
HIGHEST	104	HIGHEST	101	HIGHEST	100	HIGHEST	99	HIGHEST	99	HIGHEST	101	HIGHEST	101	HIGHEST	101	HIGHEST	101	HIGHEST	101	HIGHEST	104	HIGHEST	102	HIGHEST	102
YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1951	YEAR	1951	YEAR	1963	YEAR	1961	YEAR	1961	YEAR	1952	YEAR	1954	YEAR	1954
AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	71	AVG. LOW	70	AVG. LOW	70
LOWEST	67	LOWEST	65	LOWEST	66	LOWEST	65	LOWEST	65	LOWEST	63	LOWEST	63	LOWEST	63	LOWEST	63	LOWEST	63	LOWEST	64	LOWEST	62	LOWEST	62
YEAR	1952	YEAR	1952	YEAR	1959	YEAR	1956	YEAR	1956	YEAR	1962	YEAR	1962	YEAR	1962	YEAR	1955	YEAR	1955	YEAR	1950	YEAR	1955	YEAR	1955
AVG. HIGH	93	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92
HIGHEST	100	HIGHEST	102	HIGHEST	105	HIGHEST	101	HIGHEST	101	HIGHEST	99	HIGHEST	99	HIGHEST	102	HIGHEST	102	HIGHEST	102	HIGHEST	104	HIGHEST	102	HIGHEST	102
YEAR	1966	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1966	YEAR	1966	YEAR	1954	YEAR	1954	YEAR	1954	YEAR	1958	YEAR	1954	YEAR	1954
AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70
LOWEST	62	LOWEST	61	LOWEST	66	LOWEST	63	LOWEST	63	LOWEST	62	LOWEST	62	LOWEST	62	LOWEST	62	LOWEST	62	LOWEST	64	LOWEST	62	LOWEST	65
YEAR	1950	YEAR	1955	YEAR	1957	YEAR	1956	YEAR	1956	YEAR	1950	YEAR	1950	YEAR	1962	YEAR	1962	YEAR	1962	YEAR	1960	YEAR	1962	YEAR	1968
AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92	AVG. HIGH	92
HIGHEST	100	HIGHEST	99	HIGHEST	97	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106	HIGHEST	106
YEAR	1960	YEAR	1957	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967
AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70	AVG. LOW	70
LOWEST	63	LOWEST	62	LOWEST	63	LOWEST	59	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	43	LOWEST	47
YEAR	1962	YEAR	1962	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968	YEAR	1968
0 ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION: 106° ON THREE DATES IN 1951 AND ONE IN 1960.																									

"A" STATION, WHITE SANDS MISILE RANGE
 DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
 MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

AUGUST

AUGUST

AVG. HIGH HIGHEST YEAR	92 102 1966	AVG. HIGH HIGHEST YEAR	92 100 1960	AVG. HIGH HIGHEST YEAR	92 98 1960	AVG. HIGH HIGHEST YEAR	92 98 1964	AVG. HIGH HIGHEST YEAR	93 97 1952	AVG. HIGH HIGHEST YEAR	93 100 1951	AVG. HIGH HIGHEST YEAR	93 101 1951
AVG. LOW LOWEST YEAR	70 62 1965	AVG. LOW LOWEST YEAR	70 65 1965	AVG. LOW LOWEST YEAR	70 63 1965	AVG. LOW LOWEST YEAR	70 65 1956	AVG. LOW LOWEST YEAR	70 66 1963	AVG. LOW LOWEST YEAR	70 63 1963	AVG. LOW LOWEST YEAR	70 64 1964
AVG. HIGH HIGHEST YEAR	93 101 1951	AVG. HIGH HIGHEST YEAR	93 100 1951	AVG. HIGH HIGHEST YEAR	93 100 1951	AVG. HIGH HIGHEST YEAR	92 101 1964	AVG. HIGH HIGHEST YEAR	92 98 1951	AVG. HIGH HIGHEST YEAR	92 97 1951	AVG. HIGH HIGHEST YEAR	91 100 1962
AVG. LOW LOWEST YEAR	70 65 1966	AVG. LOW LOWEST YEAR	70 65 1967	AVG. LOW LOWEST YEAR	70 63 1967	AVG. LOW LOWEST YEAR	70 61 1960	AVG. LOW LOWEST YEAR	70 59 1966	AVG. LOW LOWEST YEAR	69 64 1960	AVG. LOW LOWEST YEAR	69 65 1967
AVG. HIGH HIGHEST YEAR	91 100 1962	AVG. HIGH HIGHEST YEAR	91 97 1951	AVG. HIGH HIGHEST YEAR	90 101 1951	AVG. HIGH HIGHEST YEAR	90 99 1951	AVG. HIGH HIGHEST YEAR	90 98 1951	AVG. HIGH HIGHEST YEAR	90 98 1951	AVG. HIGH HIGHEST YEAR	90 100 1952
AVG. LOW LOWEST YEAR	69 62 1965	AVG. LOW LOWEST YEAR	69 60 1967	AVG. LOW LOWEST YEAR	69 62 1968	AVG. LOW LOWEST YEAR	68 63 1967	AVG. LOW LOWEST YEAR	68 64 1965	AVG. LOW LOWEST YEAR	68 62 1967	AVG. LOW LOWEST YEAR	68 63 1968
AVG. HIGH HIGHEST YEAR	90 97 1950	AVG. HIGH HIGHEST YEAR	90 96 1950	AVG. HIGH HIGHEST YEAR	90 97 1950	AVG. HIGH HIGHEST YEAR	90 97 1964	AVG. HIGH HIGHEST YEAR	90 96 1960	AVG. HIGH HIGHEST YEAR	90 98 1965	AVG. HIGH HIGHEST YEAR	90 98 1962
AVG. LOW LOWEST YEAR	68 63 1967	AVG. LOW LOWEST YEAR	68 62 1966	AVG. LOW LOWEST YEAR	68 62 1954	AVG. LOW LOWEST YEAR	68 59 1966	AVG. LOW LOWEST YEAR	68 55 1966	AVG. LOW LOWEST YEAR	68 63 1966	AVG. LOW LOWEST YEAR	68 63 1952
AVG. HIGH HIGHEST YEAR	90 98 1962	AVG. HIGH HIGHEST YEAR	90 98 1962	AVG. HIGH HIGHEST YEAR	90 98 1962	AVG. HIGH HIGHEST YEAR	90 98 1962	AVG. HIGH HIGHEST YEAR	91.1 98.9	AVG. HIGH HIGHEST YEAR	90 98 1966	AVG. HIGH HIGHEST YEAR	90 98 1962
AVG. LOW LOWEST YEAR	68 63 1967	AVG. LOW LOWEST YEAR	68 61 1967	AVG. LOW LOWEST YEAR	68 58 1967	AVG. LOW LOWEST YEAR	68 58 1967	AVG. LOW LOWEST YEAR	68 55 1966	AVG. LOW LOWEST YEAR	68 63 1966	AVG. LOW LOWEST YEAR	68 63 1952
AVG. MAXIMUM TEMPERATURE 91.1 ° AVG. WIND SPEED 4.6 KNOTS AVG. MINIMUM TEMPERATURE 68.9 ° PREVAILING WIND DIR. West RECORD HIGH TEMPERATURE 102 ° AVERAGE RAINFALL 1.75 IN. RECORD LOW TEMPERATURE * 55 ° AVERAGE SNOWFALL 0.0 IN. AVG. RELATIVE HUMIDITY 43 % AVERAGE CLOUDINESS 44 % GREATEST MONTHLY RAINFALL 6.32 IN., YEAR 1959 GREATEST 24-HOUR RAINFALL 4.25 IN., YEAR 1959, DATE 23-24													

00 LATEST DATE OF ≥ 100° TEMPERATURE AT STATION, 1952.

"A" STATION, WHITE SANDS MISSILE RANGE
 DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
 MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

OCTOBER

OCTOBER	1	2	3	4	5	6	7	OCTOBER
AVG. HIGH HIGHEST YEAR	83 91 1951	83 88 1951	82 88 1967	82 88 1956	82 90 1956	82 90 1956	82 90 1956	81 87 1965
AVG. LOW LOWEST YEAR	59 48 1965	59 48 1965	58 48 1961	58 46 1961	57 49 1953	57 49 1968	57 45 1952	57 45 1952
AVG. HIGH HIGHEST YEAR	81 90 1965	81 92 1965	80 89 1965	80 88 1951	79 88 1951	79 88 1968	79 88 1968	78 90 1968
AVG. LOW LOWEST YEAR	57 45 1952	57 50 1959	57 48 1951	56 48 1961	56 50 1965	53 50 1964	53 46 1966	53 46 1966
AVG. HIGH HIGHEST YEAR	78 86 1951	77 85 1950	77 86 1952	76 82 1955	76 85 1950	75 82 1954	75 82 1954	75 85 1961
AVG. LOW LOWEST YEAR	54 45 1966	54 44 1952	53 41 1967	53 38 1968	32 43 1968	52 40 1964	51 43 1964	51 43 1964
AVG. HIGH HIGHEST YEAR	74 84 1950	74 85 1959	73 83 1950	73 86 1950	72 82 1968	72 83 1950	71 85 1950	71 85 1950
AVG. LOW LOWEST YEAR	51 46 1965	50 44 1968	50 43 1966	50 44 1968	50 42 1964	49 41 1953	49 41 1952	49 41 1952
AVG. HIGH HIGHEST YEAR	71 83 1950	70 85 1950	70 85 1950	70 85 1950	70 85 1950	70 85 1950	70 85 1950	70 85 1950
AVG. LOW LOWEST YEAR	48 40 1967	48 36 1967	47 34 1956	47 34 1956	47 34 1956	47 34 1956	47 34 1956	47 34 1956
94 LATEST DATE OF TEMPERATURE $\geq 90^{\circ}$ AT STATION, 1965.								

"A" STATION. WHITE SANDS MISSILE RANGE

NOVEMBER

"A" STATION, WHITE SANDS MISSILE RANGE
 DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
 MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

DECEMBER				DECEMBER			
AVG. HIGH HIGHEST YEAR	59 73 1961	AVG. HIGH HIGHEST YEAR	59 71 1966	AVG. HIGH HIGHEST YEAR	58 77 1958	AVG. HIGH HIGHEST YEAR	58 73 1958
AVG. LOW LOWEST YEAR	38 32 1956	AVG. LOW LOWEST YEAR	38 25 1957	AVG. LOW LOWEST YEAR	37 27 1968	AVG. LOW LOWEST YEAR	36 24 1952
AVG. HIGH HIGHEST YEAR	57 69 1958	AVG. HIGH HIGHEST YEAR	57 73 1950	AVG. HIGH HIGHEST YEAR	56 72 1950	AVG. HIGH HIGHEST YEAR	56 70 1958
AVG. LOW LOWEST YEAR	36 25 1968	AVG. LOW LOWEST YEAR	36 21 1953	AVG. LOW LOWEST YEAR	35 20 1960	AVG. LOW LOWEST YEAR	35 22 1953
AVG. HIGH HIGHEST YEAR	55 67 1950	AVG. HIGH HIGHEST YEAR	55 65 1950	AVG. HIGH HIGHEST YEAR	55 65 1957	AVG. HIGH HIGHEST YEAR	55 63 1953
AVG. LOW LOWEST YEAR	34 22 1967	AVG. LOW LOWEST YEAR	33 26 1963	AVG. LOW LOWEST YEAR	33 27 1963	AVG. LOW LOWEST YEAR	33 26 1968
AVG. HIGH HIGHEST YEAR	55 65 1950	AVG. HIGH HIGHEST YEAR	54 71 1955	AVG. HIGH HIGHEST YEAR	54 71 1955	AVG. HIGH HIGHEST YEAR	54 67 1955
AVG. LOW LOWEST YEAR	33 22 1967	AVG. LOW LOWEST YEAR	33 17 1953	AVG. LOW LOWEST YEAR	33 48 1953	AVG. LOW LOWEST YEAR	33 21 1953
AVG. HIGH HIGHEST YEAR	54 69 1955	AVG. HIGH HIGHEST YEAR	54 73 1951	AVG. HIGH HIGHEST YEAR	54 66 1964	AVG. HIGH HIGHEST YEAR	54 67 1955
AVG. LOW LOWEST YEAR	33 18 1966	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 24 1953
** LATEST DATE OF FIRST FREEZING TEMPERATURE IN YEAR, 1934.				** LATEST DATE OF FIRST FREEZING TEMPERATURE IN YEAR, 1934.			
1				2			
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1948-1968 [6]										1950-1968										1961-63									
M O N T H	STATION PRESSURE (INCHES OF MERCURY)			SIX-HOURLY RELATIVE HUMIDITY						AVERAGE NUMBER OF DAYS WITH:						AVG. DE- GREE DAYS BASE 65°F	GREATEST SNOWFALL		AVG. DAILY SOLAR RADI- ATION										
	MEANS	HIGH- EST	LOWEST	5		11		5		11		PRECIPITATION		VISI- BILITY															
				AM	PM	AM	PM	AM	PM	T	+	++	T	+	++	SINGLE STORM	MONTHLY												
JAN	25.777	26.240	25.210	55	43	38	48	46	4	4	3	1	1	1	610	5.5	5.5	332											
FEB	25.727	26.170	25.180	49	36	29	40	39	-	4	3	1	2	2	436	7.8	8.6	410											
MAR	25.677	26.180	25.180	40	28	22	33	31	1	1	6	4	2	1	313	14-15	14-15	308											
APR	25.666	26.080	25.190	35	23	18	27	26	1	1	4	2	1	-	93	11-12	11-12	424											
MAY	25.671	26.080	25.290	34	21	16	25	24	3	2	5	2	1	-	15	0	0	679											
JUN	25.676	25.970	25.370	38	24	18	28	27	7	4	8	3	2	-	0	0	0	692											
JUL	25.750	26.050	25.470	58	36	31	46	43	13	8	15	7	4	1	0	0	0	632											
AUG	25.769	26.010	25.525	59	37	32	45	43	11	7	14	8	4	1	0	0	0	584											
SEP	25.754	26.040	25.410	55	35	30	44	41	5	7	8	5	3	1	1	0	0	538											
OCT	25.774	26.220	25.300	50	33	29	41	38	2	1	5	3	2	1	63	T	T	485											
NOV	25.770	26.240	25.290	51	34	34	44	41	-	1	4	2	1	2	362	6.2	6.2	340											
DEC	25.776	26.285	25.200	55	42	38	48	46	-	6	4	2	2	3	610	14.0	14.0	331											
YEAR	25.732	26.285	25.180	48	33	28	39	37	44	32	85	46	24	19	2525	14.0	14.9	513											

* LESS THAN $\frac{1}{2}$. - LESS THAN $\frac{1}{2}$, BUT MAKING A TOTAL OF 1.

+ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO PRECIPITATION AND FOG.

++ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO HAZE, DUST AND BLOWING DUST.

00 MEASUREMENTS IN LANGLEYS, MADE ON ROOF OF BUILDING 1744, WEHR HEADQUARTERS, BY CALIBRATION LABORATORY.

⚡ DISTANT LIGHTNING--NO THUNDER HEARD.

☉ HEATING DEGREE DAYS.

☾ TRACE OF PRECIPITATION.

* LESS THAN $\frac{1}{2}$. - LESS THAN $\frac{1}{2}$, BUT MAKING A TOTAL OF 1. L DISTANT LIGHTNING--NO THUNDER HEARD.
+ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO PRECIPITATION AND FOG. 0 HEATING DEGREE DAYS.
++ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO HAZE, DUST AND BLOWING DUST. T TRACE OF PRECIPITATION.
99 MEASUREMENTS IN LANGLEYS, MADE ON ROOF OF BUILDING 1744, WMMR HEADQUARTERS, BY CALIBRATION LABORATORY.

TABLE VII. MONTHLY AND ANNUAL CLIMATOLOGICAL DATA, "A" STATION, WMMR HEADQUARTERS

ITEM	WINTER	SPRING	SUMMER	FALL	YEAR
TEMPERATURES (°F)					
Mean Maximum	57.2	75.3	92.4	75.8	75.2
Mean Minimum	35.4	52.3	69.5	52.8	52.5
Mean	46.3	63.8	81.0	64.3	63.9
Extremes of Record					
Highest	81	103	106	98	106
Date	2/11/57	5/28/51	*	9/16/51	*
Lowest	-6	16	50	22	-6
Date	1/11/62	3/4/65	6/11/65	11/11/50	1/11/62
DEGREE DAYS (Base 65°F)	1676	421	0	428	2525
RELATIVE HUMIDITY (%)	44	27	38	40	37
SURFACE WINDS (Knots) **					
Average Speed	W 5.8	W 8.2	W 5.4	W 4.9	W 6.1
Strongest Gusts	SW 82	W, WSW 74	S 60	W 61	SW 82
Month and Year	12/51	3/51, 5/61	6/62	11/65	Dec. '51
RAINFALL (Inches) †					
Percent of Annual	182	102	452	272	1002
Greatest Monthly	2.43	3.00	7.42	5.76	7.42
Month and Year	12/65	3/58	6/66	9/58	6/66
Greatest 24-Hour	1.02	1.46	4.25	2.96	4.25
Dates	12/14-15/67	3/5-6/58	8/23-24/59	9/11-12/64	1959
SNOWFALL (Inches)					
Greatest Monthly	4.6	0.5	0.0	0.8	5.9
Month and Year	14.9	3.5	0.0	6.2	14.9
	12/67	3/58	- - -	11/61	1967
CLOUDINESS (%)	38	35	40	28	35
NUMBER OF DAYS WITH:					
Measureable Rainfall †	10	8	18	10	46
Thunderstorms	1	5	31	7	44
Visibility ≤ 6 Miles	10	13	9	7	39
† 0.01" or more					
STATION PRESSURE					
Average (Inches of Hg)	25.758	25.671	25.732	24.766	24.732
† WINTER = Calendar Months of December, January, February. SPRING = March, April, May. SUMMER = June, July, August. FALL = September, October, November. ** With Prevailing Wind Directions. To convert knots to miles per hour, multiply knots by 1.15155. * Four dates: June 28 & 29, 1951; July 8, 1951; July 2, 1960. † "Rainfall" includes water content of snowfall.					

TABLE VI-1. "A" STATION CLIMATOGRAPHY--SEASONAL VALUES, 1950-1968

MONTH	0500H	1100H	1700H	2300H	YEARS
JAN.	37.7°	47.1°	50.6°	42.2°	44.4°
FEB.	41.2	51.7	56.0	46.3	48.8
MAR.	47.0	58.4	63.2	53.3	55.5
APR.	55.5	68.6	73.5	63.2	65.2
MAY	62.8	77.5	81.7	70.7	73.2
JUNE	71.0	86.3	90.4	79.8	81.6
JULY	72.0	86.4	89.4	79.0	81.7
AUG.	70.4	84.8	87.6	77.5	80.1
SEP.	65.4	80.0	83.0	72.3	75.2
OCT.	56.1	70.4	73.1	62.3	65.5
NOV.	44.7	56.8	58.3	49.7	52.4
DEC.	38.4	48.3	50.2	42.9	45.0
YEAR	55.2	68.0	71.4	61.5	64.0 *

* The Mean annual temperature, as derived from the annual mean maximum and annual mean minimum temperatures, is 63.9° ($75.2 + 52.5 / 2 = 63.9^\circ$).
 Note also that the 6-hourly and mean temperatures for April and October are very near the annual values.

TABLE IX. "A" STATION MEAN 6-HOURLY TEMPERATURES, 1948-1968 [6]

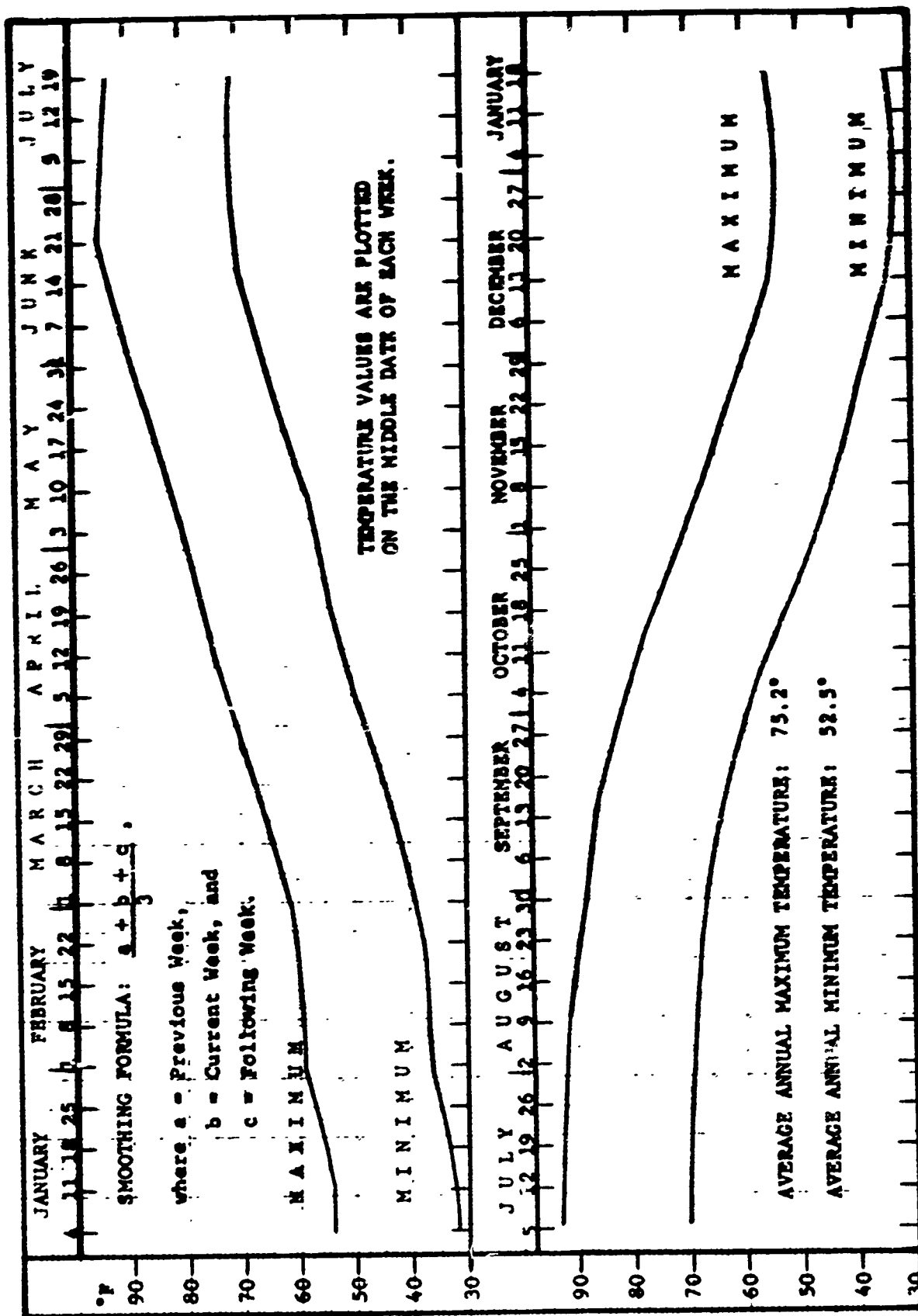


FIG. 3 SMOOTHED WEEKLY MEANS OF MAXIMUM AND MINIMUM TEMPERATURES, 1930-1968, "A" STATION, Wsna, N. H.

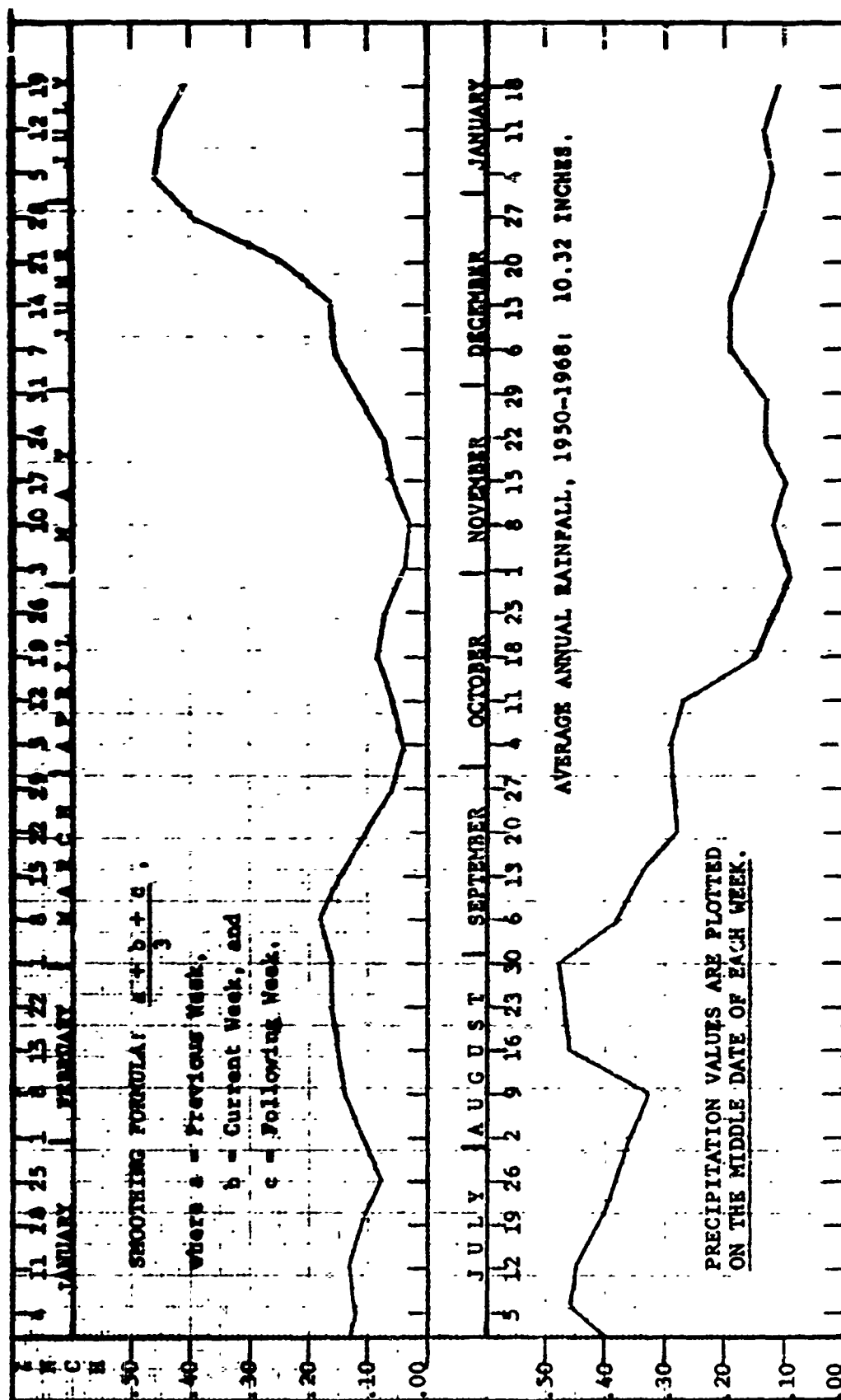
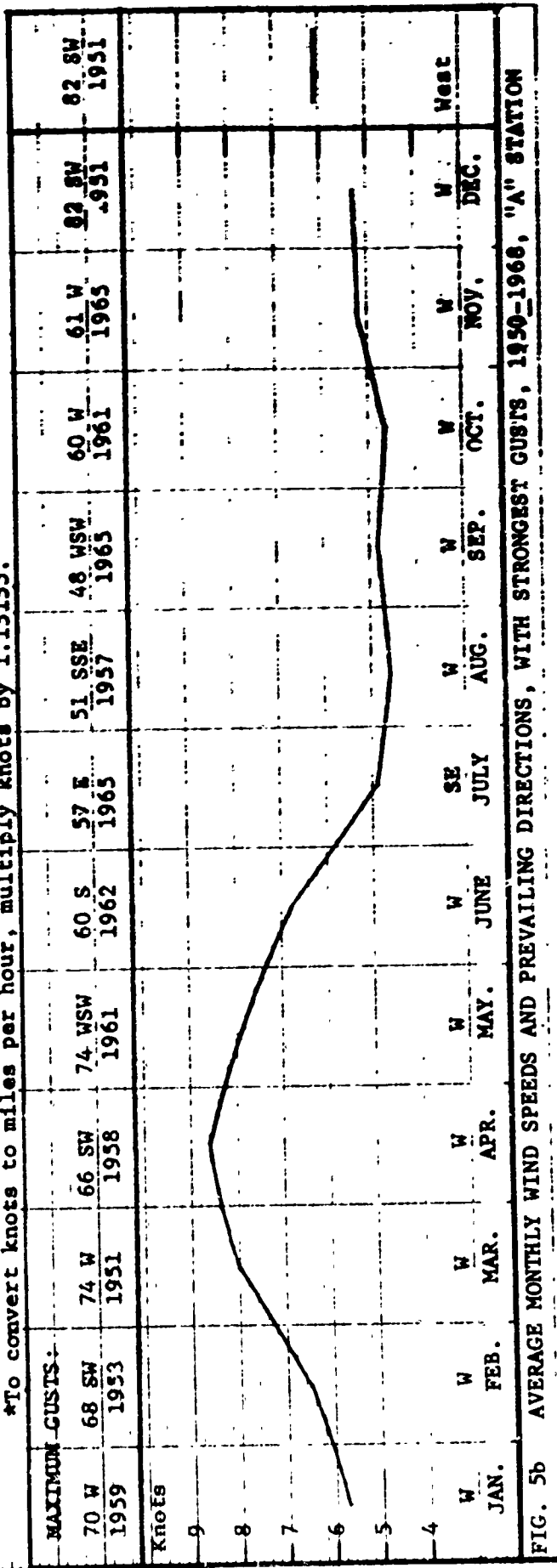
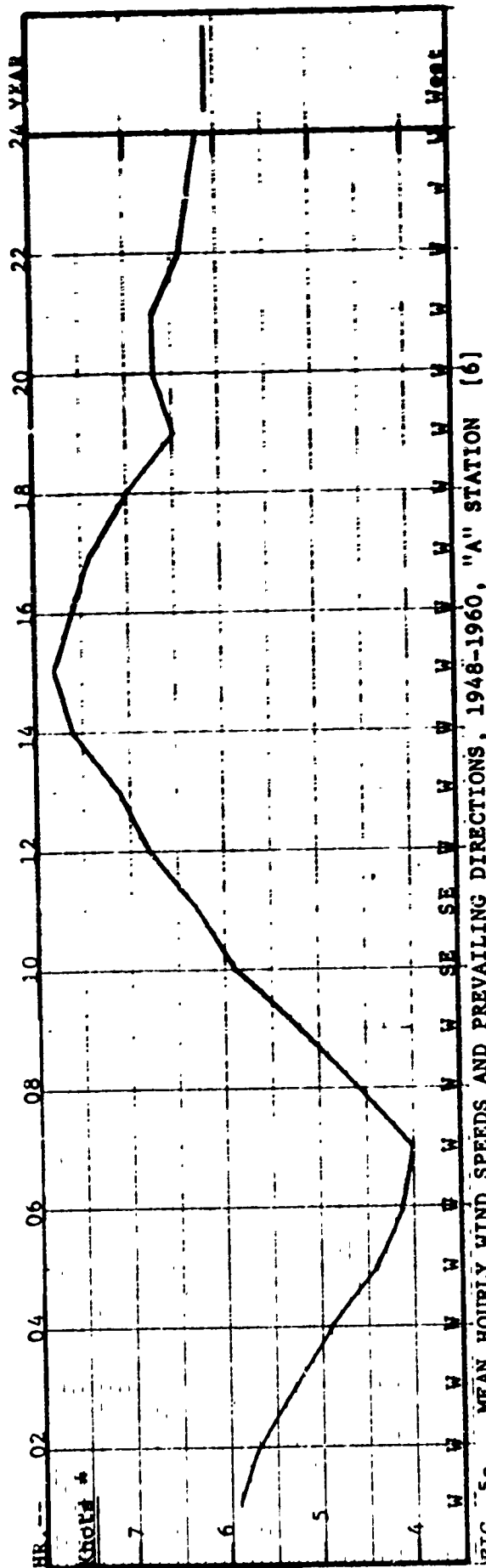


FIG. 4 SMOOTHED WEEKLY PRECIPITATION MEANS, 1950-1966, "A" STATION, WHITE SANDS MISSILE RANGE, N. M.



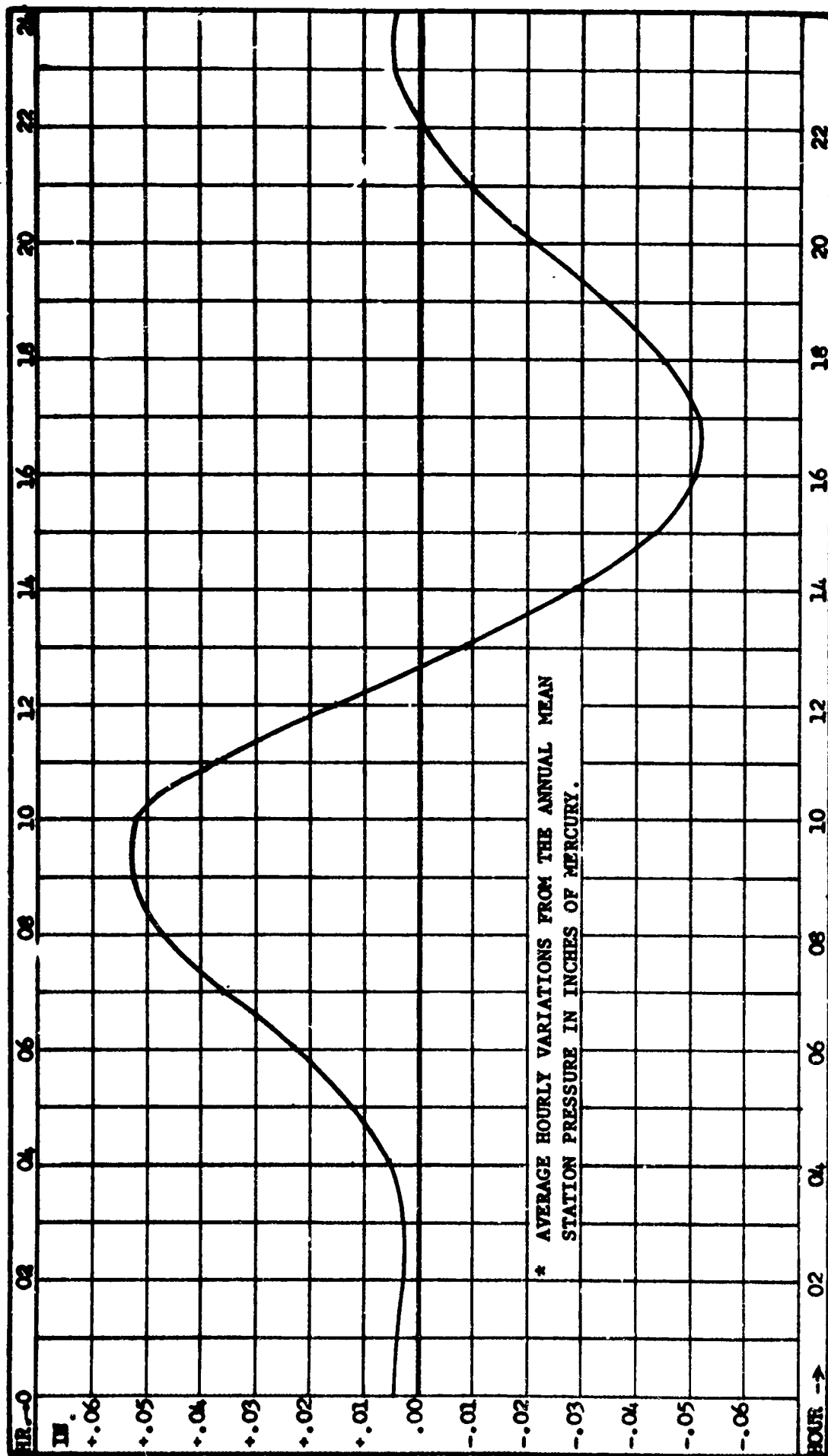


FIG. 6 DIURNAL PRESSURE VARIATIONS*, 1948-1960, "A" STATION, WHITE SANDS MISSILE RANGE, N. M. [6]

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13. ABSTRACT This is the fourth edition of the White Sands Missile Range Climate Calendar, which was first published in May, 1963. Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1968) are tabulated in calendar form for "A" Station, the weather center located at Headquarters, White Sands Missile Range, New Mexico. Averages of temperature, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall. Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly temperatures and relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms and visibility restrictions, as well as a summary of weather extremes for the State of New Mexico. Presented in graph form are weekly means of maximum and minimum temperatures, weekly values of precipitation, mean hourly and monthly wind speeds with prevailing directions, and average hourly variations from the mean station pressure. / 7			

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