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UNCLASSIFIED

Security Classification

- a

WHITE SANDS MISSILE RANGE

CLIMATE CALENDAR

By

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DA Task 1T665702D127-02

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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FOREWORD

This report is a revision of Data Report 421, published under the same title in March 1969. The revision updates the original data to cover the period through December 1971.

22 75-100

ABSTRACT

This is the fifth 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 (1950-1971) are tabulated in calendar form for "A" Station, the forecast 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.

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We are indebted to Paul H. Taft who prepared the first four editions of this work. The format and basic contents are largely his effort.

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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 22 years, 1950 through 1971, unless otherwise indicated. (Daily temperature means and extremes only have been computed through December 1971.) 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 4,252 feet.) However, since May 1955 wind measurements have been made by an Aerovane mounted on a 13-foot mast 0.5 miles 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.

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. 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, 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 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: 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 the coldest months, with nearly identical mean temperatures. (See Table I.) February averages nearly 4° 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.

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 V), 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. Average date of the first fall freeze is 20 November.

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 43 days. The three coldest months receive 77% of the annual snowfall total of 6.0 inches.

April, the windiest month of the year, has an average hourly wind speed of 8.7 knots. Visibility is reduced to 6 miles or less (by fog, snow, blowing dust, etc.) on an average of 21 days during this season. Five of these days occur in March and four in April, while the total for the year is 36 days. (See Table IV).

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.

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 temperature of 90° or more is 84, sixty-seven of which occur during the three warmest months. The earliest date of 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 one degree of the annual mean.

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 10.30", and for 66% of the thunderstorms. Seventy percent of the annual rainfall occurs during the warm season and all but three of the 43 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", (see Table III.).

August, with an average hourly wind speed of 4.7 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 15 days during the warm season.

COLDEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MFAN MIN	MEAN	HIGH- EST	LOW- EST
MONTH OF DECEMBER	56.0	34.7	45.4	77	8
MONTH OF JANUARY	56.3	34.6	45.5	73	-6
MONTH OF FEBRUARY	60.0	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

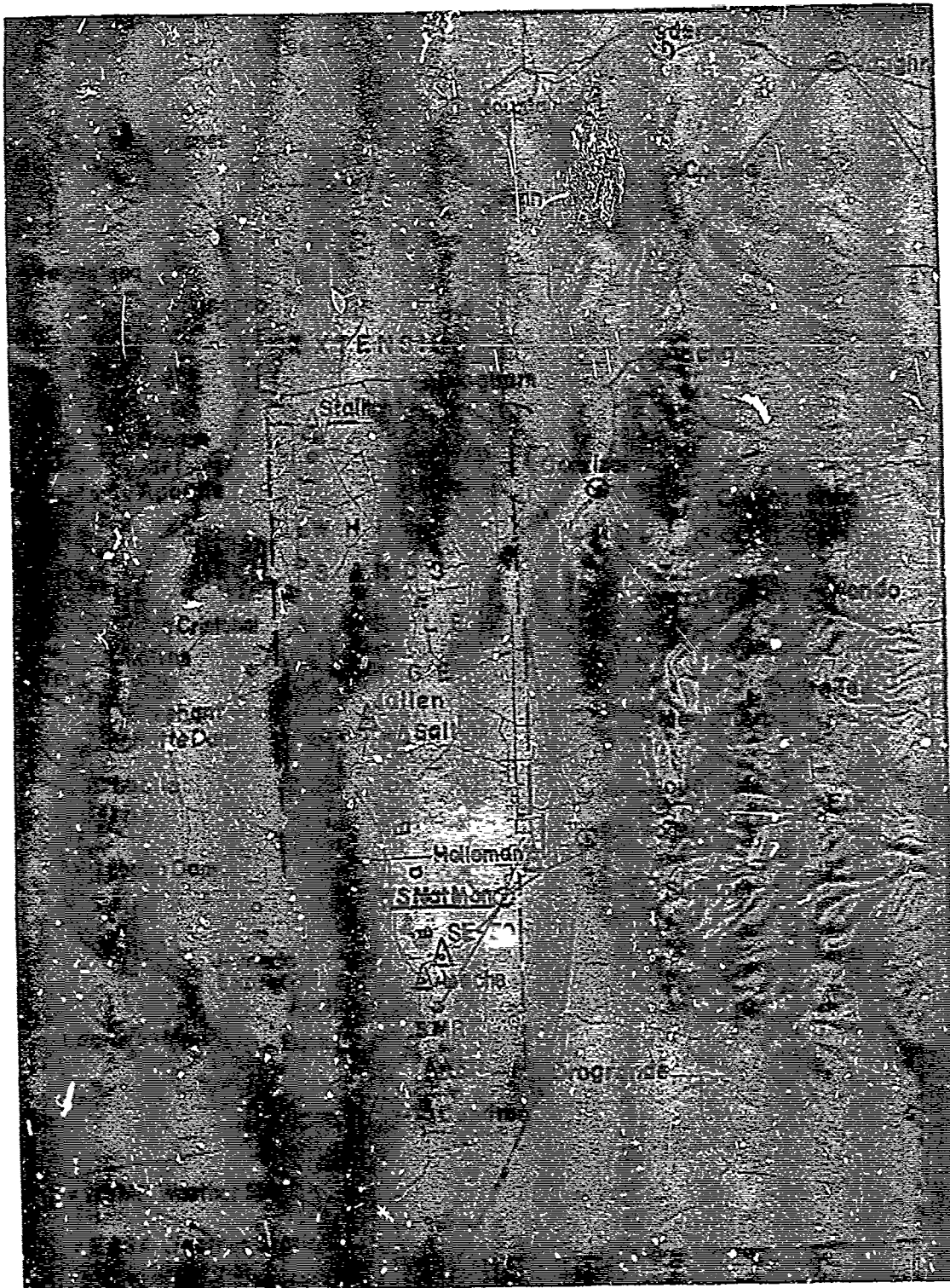
WARMEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH- EST	LOW- EST
MONTH OF JUNE	92.8	69.0	80.9	106	50
MONTH OF JULY	93.3	70.5	81.9	106	59
MONTH OF AUGUST	91.1	68.8	80.0	103	35
WARMEST 30 DAYS, 6/18 to 7/17	94.4	71.0	82.7	106	59
WARMEST 15 DAYS, 6/19 to 7/3	95.2	71.5	83.4	106	59
WARMEST 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	3½ 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 measurable 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, measured 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	
3.45 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




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FIGURE 1. WEATHER STATIONS, WHITE SANDS MISSILE RANGE AND VICINITY

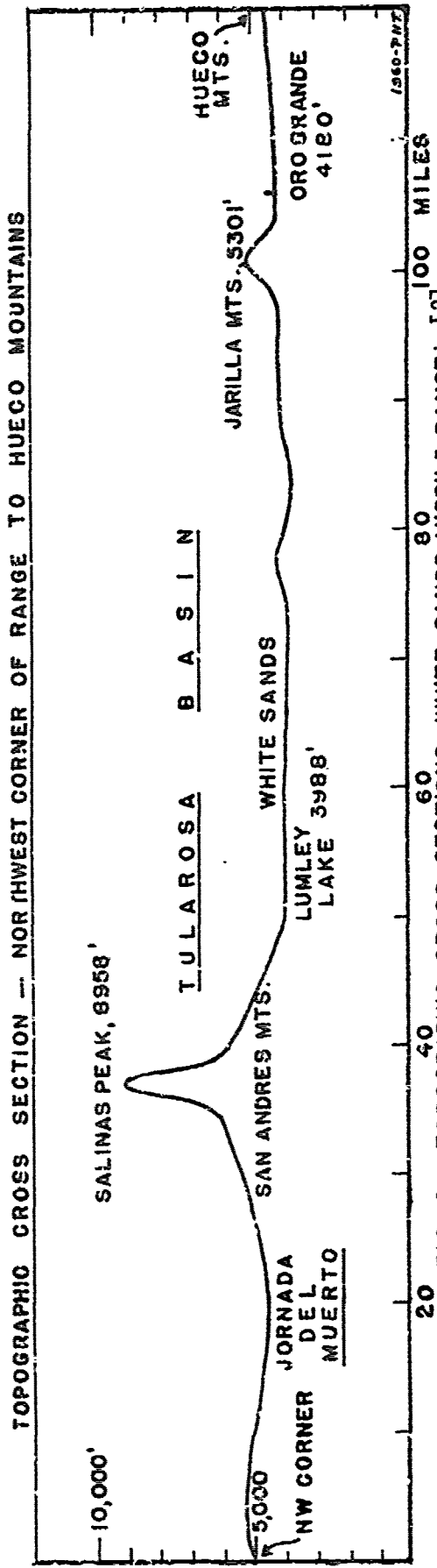
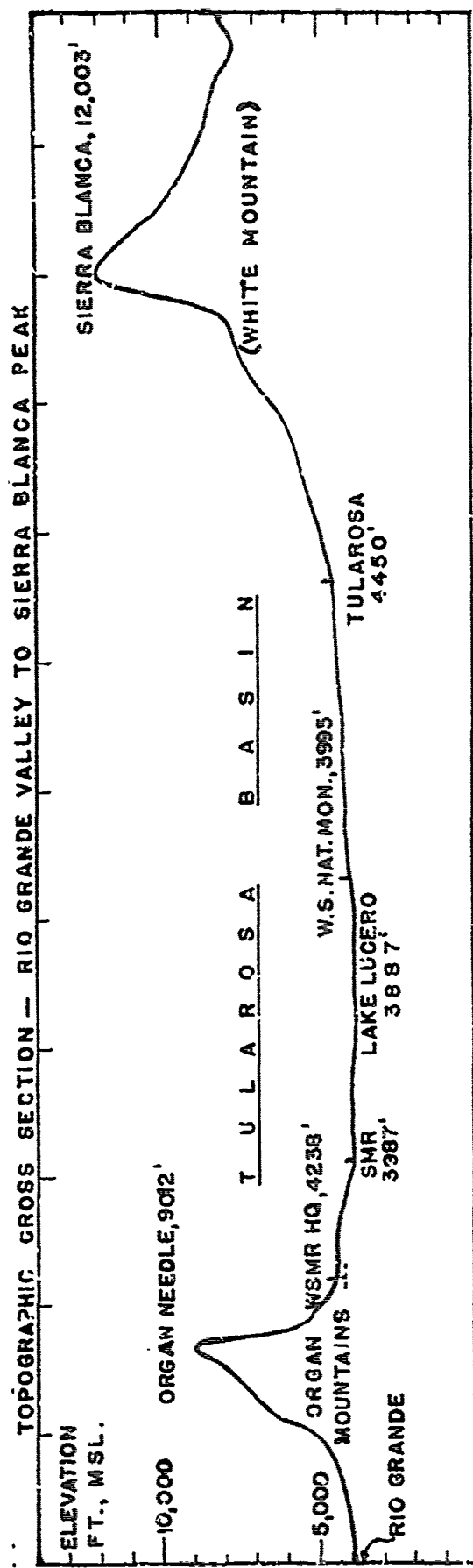


FIG. 2 TOPOGRAPHIC CROSS SECTIONS, WHITE SANDS MISSILE RANGE. [2]

"A" STATION, WHITE SANDS MISSILE RANGE.

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE
 MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES
 J A N U A R Y J A N U A R Y

AVG. HIGH HIGHEST YEAR	54 62 1956	AVG. HIGH HIGHEST YEAR	54 67 1971	AVG. HIGH HIGHEST YEAR	54 61 1965	AVG. HIGH HIGHEST YEAR	54 67 1965	AVG. HIGH HIGHEST YEAR	54 69 1965	AVG. HIGH HIGHEST YEAR	54 71 1969
AVG. LOW LOWEST YEAR	33 21 1970	AVG. LOW LOWEST YEAR	33 21 1970	AVG. LOW LOWEST YEAR	33 14 1971	AVG. LOW LOWEST YEAR	32 11 1971	AVG. LOW LOWEST YEAR	32 9 1971	AVG. LOW LOWEST YEAR	32 13 1971
AVG. HIGH HIGHEST YEAR	54 70 1969	AVG. HIGH HIGHEST YEAR	54 68 1953	AVG. HIGH HIGHEST YEAR	54 69 1953	AVG. HIGH HIGHEST YEAR	54 72 1953	AVG. HIGH HIGHEST YEAR	54 71 1953	AVG. HIGH HIGHEST YEAR	54 70 1969
AVG. LOW LOWEST YEAR	32 19 1967	AVG. LOW LOWEST YEAR	32 14 1967	AVG. LOW LOWEST YEAR	32 -2 1962	AVG. LOW LOWEST YEAR	32 4 1962	AVG. LOW LOWEST YEAR	32 8 1963	AVG. LOW LOWEST YEAR	33 13 1964
AVG. HIGH HIGHEST YEAR	55 67 1957	AVG. HIGH HIGHEST YEAR	55 69 1967	AVG. HIGH HIGHEST YEAR	56 71 1971	AVG. HIGH HIGHEST YEAR	56 74 1971	AVG. HIGH HIGHEST YEAR	57 73 1971	AVG. HIGH HIGHEST YEAR	57 72 1971
AVG. LOW LOWEST YEAR	33 19 1964	AVG. LOW LOWEST YEAR	34 21 1964	AVG. LOW LOWEST YEAR	34 22 1964	AVG. LOW LOWEST YEAR	35 23 1960	AVG. LOW LOWEST YEAR	36 16 1963	AVG. LOW LOWEST YEAR	36 23 1963
AVG. HIGH HIGHEST YEAR	57 73 1967	AVG. HIGH HIGHEST YEAR	58 73 1950	AVG. HIGH HIGHEST YEAR	58 76 1970	AVG. HIGH HIGHEST YEAR	59 72 1952	AVG. HIGH HIGHEST YEAR	59 71 1970	AVG. HIGH HIGHEST YEAR	60 69 1971
AVG. LOW LOWEST YEAR	37 13 1966	AVG. LOW LOWEST YEAR	37 16 1966	AVG. LOW LOWEST YEAR	37 18 1963	AVG. LOW LOWEST YEAR	38 22 1963	AVG. LOW LOWEST YEAR	38 21 1966	AVG. LOW LOWEST YEAR	38 24 1963
AVG. HIGH HIGHEST YEAR	60 73 1967	AVG. HIGH HIGHEST YEAR	60 73 1967	AVG. HIGH HIGHEST YEAR	60 73 1971	AVG. HIGH HIGHEST YEAR	60 73 1966	AVG. HIGH HIGHEST YEAR	60 71 1970	AVG. HIGH HIGHEST YEAR	60 69 1971
AVG. LOW LOWEST YEAR	38 28 1970	AVG. LOW LOWEST YEAR	38 20 1951	AVG. LOW LOWEST YEAR	38 16 1951	AVG. LOW LOWEST YEAR	45 16 1960	AVG. LOW LOWEST YEAR	45 21 1960	AVG. LOW LOWEST YEAR	41 11th

* ABSOLUTE RECORD LOW TEMPERATURE AT STATION. GREATEST JANUARY SNOWFALL: 5.5 in. 1968

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

A P R I L

A P R I L

AVG. HIGH 82 1969	AVG. HIGH 73 1966	AVG. HIGH 73 1954	AVG. HIGH 73 1967	AVG. HIGH 74 1959	AVG. HIGH 74 1954	AVG. HIGH 74 1963		
1	2	3	4	5	6	7		
HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR		
AVG. LOW 40 1955	AVG. LOW 35 1970	AVG. LOW 50 1960	AVG. LOW 37 1964	AVG. LOW 34 1970	AVG. LOW 36 1966	AVG. LOW 39 1971		
LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR		
AVG. HIGH 74 1963	AVG. HIGH 74 1954	AVG. HIGH 74 1960	AVG. HIGH 74 1971	AVG. HIGH 75 1971	AVG. HIGH 75 1962	AVG. HIGH 75 1963		
8	9	10	11	12	13	14**		
HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR		
AVG. LOW 40 1964	AVG. LOW 41 1964	AVG. LOW 50 1956	AVG. LOW 34 1951	AVG. LOW 37 1953	AVG. LOW 36 1959	AVG. LOW 52 1958		
LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR		
AVG. HIGH 76 1962	AVG. HIGH 76 1962	AVG. HIGH 76 1969	AVG. HIGH 77 1971	AVG. HIGH 77 1971	AVG. HIGH 77 1968	AVG. HIGH 77 1959		
15	16	17	18	19	20	21		
HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR		
AVG. LOW 42 1956	AVG. LOW 43 1961	AVG. LOW 54 1969	AVG. LOW 42 1971	AVG. LOW 39 1971	AVG. LOW 42 1968	AVG. LOW 45 1959		
LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR		
AVG. HIGH 77 1965	AVG. HIGH 77 1965	AVG. HIGH 78 1959	AVG. HIGH 78 1956	AVG. HIGH 78 1950	AVG. HIGH 78 1953	AVG. HIGH 78 1961		
22	23	24	25	26	27	28		
HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR	HIGHEST YEAR		
AVG. LOW 46 1952	AVG. LOW 41 1968	AVG. LOW 55 1968	AVG. LOW 36 1961	AVG. LOW 43 1964	AVG. LOW 43 1969	AVG. LOW 46 1969		
LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR	LOWEST YEAR		
AVG. HIGH 78 1961	AVG. HIGH 79 1961	AVG. HIGH 79 1961	AVG. HIGH 79 1961	AVG. HIGH 79 1961	AVG. HIGH 79 1961	AVG. HIGH 79 1961		
29	30					AVERAGE MONTHLY WIND SPEED	8.7 KNOTS	
HIGHEST YEAR	HIGHEST YEAR					PREVAILING WIND DIRECTION	WEST	
AVG. LOW 45 1951	AVG. LOW 40 1970					RECORD MAXIMUM TEMPERATURE	75.4°	
LOWEST YEAR	LOWEST YEAR					AVERAGE MINIMUM TEMPERATURE	52.4°	
							RECORD MINIMUM TEMPERATURE	94°
							AVERAGE RELATIVE HUMIDITY	26%
							GREATEST MONTHLY RAINFALL	1.37IN., YEAR 1952
							GREATEST 24-HOUR RAINFALL	0.95IN., YEAR 1952
							AVERAGE MONTHLY RAINFALL	0.24 INCH
							AVERAGE MONTHLY SNOWFALL	0 INCH
							AVERAGE MONTHLY CLOUDINESS	34%
							EARLIEST DATE TEMPERATURE REACHED 90°	YEAR 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**

M A Y

M A Y

79

87

30

80

81

81

81

81

82

1
AVG. HIGH
HIGHEST
YEAR
1961

2
AVG. LOW
LOWEST
YEAR
1951

3
AVG. HIGH
HIGHEST
YEAR
1956

4
AVG. HIGH
HIGHEST
YEAR
1962

5
AVG. LOW
LOWEST
YEAR
1950

6
AVG. HIGH
HIGHEST
YEAR
1962

7
AVG. LOW
LOWEST
YEAR
1969

8
AVG. HIGH
HIGHEST
YEAR
1956

9
AVG. LOW
LOWEST
YEAR
1969

10
AVG. HIGH
HIGHEST
YEAR
1962

11
AVG. LOW
LOWEST
YEAR
1969

12
AVG. HIGH
HIGHEST
YEAR
1962

13
AVG. HIGH
HIGHEST
YEAR
1962

14
AVG. LOW
LOWEST
YEAR
1953

15
AVG. HIGH
HIGHEST
YEAR
1964

16
AVG. LOW
LOWEST
YEAR
1967

17
AVG. HIGH
HIGHEST
YEAR
1970

18
AVG. LOW
LOWEST
YEAR
1965

19
AVG. HIGH
HIGHEST
YEAR
1968

20
AVG. LOW
LOWEST
YEAR
1952

21
AVG. HIGH
HIGHEST
YEAR
1964

22
AVG. LOW
LOWEST
YEAR
1965

23
AVG. HIGH
HIGHEST
YEAR
1953

24
AVG. LOW
LOWEST
YEAR
1964

25
AVG. HIGH
HIGHEST
YEAR
1964

26
AVG. LOW
LOWEST
YEAR
1951

27
AVG. HIGH
HIGHEST
YEAR
1951

28
AVG. LOW
LOWEST
YEAR
1952

29
AVG. HIGH
HIGHEST
YEAR
1951

30
AVG. LOW
LOWEST
YEAR
1962

31
AVG. HIGH
HIGHEST
YEAR
1963

32
AVG. LOW
LOWEST
YEAR
1962

33
AVG. HIGH
HIGHEST
YEAR
1963

34
AVG. LOW
LOWEST
YEAR
1971

35
AVG. HIGH
HIGHEST
YEAR
1965

36
AVG. LOW
LOWEST
YEAR
1968

37
AVG. HIGH
HIGHEST
YEAR
1968

38
AVG. LOW
LOWEST
YEAR
1952

39
AVG. HIGH
HIGHEST
YEAR
1960

40
AVG. LOW
LOWEST
YEAR
1960

41
AVG. HIGH
HIGHEST
YEAR
1962

42
AVG. LOW
LOWEST
YEAR
1962

43
AVG. HIGH
HIGHEST
YEAR
1963

44
AVG. LOW
LOWEST
YEAR
1971

45
AVG. HIGH
HIGHEST
YEAR
1965

46
AVG. LOW
LOWEST
YEAR
1968

47
AVG. HIGH
HIGHEST
YEAR
1968

48
AVG. LOW
LOWEST
YEAR
1952

49
AVG. HIGH
HIGHEST
YEAR
1960

50
AVG. LOW
LOWEST
YEAR
1960

51
AVG. HIGH
HIGHEST
YEAR
1962

52
AVG. LOW
LOWEST
YEAR
1962

53
AVG. HIGH
HIGHEST
YEAR
1963

54
AVG. LOW
LOWEST
YEAR
1971

55
AVG. HIGH
HIGHEST
YEAR
1965

56
AVG. LOW
LOWEST
YEAR
1968

57
AVG. HIGH
HIGHEST
YEAR
1968

58
AVG. LOW
LOWEST
YEAR
1952

59
AVG. HIGH
HIGHEST
YEAR
1960

60
AVG. LOW
LOWEST
YEAR
1960

61
AVG. HIGH
HIGHEST
YEAR
1962

62
AVG. LOW
LOWEST
YEAR
1962

63
AVG. HIGH
HIGHEST
YEAR
1963

64
AVG. LOW
LOWEST
YEAR
1971

65
AVG. HIGH
HIGHEST
YEAR
1965

66
AVG. LOW
LOWEST
YEAR
1968

67
AVG. HIGH
HIGHEST
YEAR
1968

68
AVG. LOW
LOWEST
YEAR
1952

69
AVG. HIGH
HIGHEST
YEAR
1960

70
AVG. LOW
LOWEST
YEAR
1960

71
AVG. HIGH
HIGHEST
YEAR
1962

72
AVG. LOW
LOWEST
YEAR
1962

73
AVG. HIGH
HIGHEST
YEAR
1963

74
AVG. LOW
LOWEST
YEAR
1971

75
AVG. HIGH
HIGHEST
YEAR
1965

76
AVG. LOW
LOWEST
YEAR
1968

77
AVG. HIGH
HIGHEST
YEAR
1968

78
AVG. LOW
LOWEST
YEAR
1952

79
AVG. HIGH
HIGHEST
YEAR
1960

80
AVG. LOW
LOWEST
YEAR
1960

81
AVG. HIGH
HIGHEST
YEAR
1962

82
AVG. LOW
LOWEST
YEAR
1962

83
AVG. HIGH
HIGHEST
YEAR
1963

84
AVG. LOW
LOWEST
YEAR
1971

85
AVG. HIGH
HIGHEST
YEAR
1965

86
AVG. LOW
LOWEST
YEAR
1968

87
AVG. HIGH
HIGHEST
YEAR
1968

88
AVG. LOW
LOWEST
YEAR
1952

89
AVG. HIGH
HIGHEST
YEAR
1960

90
AVG. LOW
LOWEST
YEAR
1960

91
AVG. HIGH
HIGHEST
YEAR
1962

92
AVG. LOW
LOWEST
YEAR
1962

93
AVG. HIGH
HIGHEST
YEAR
1963

94
AVG. LOW
LOWEST
YEAR
1971

95
AVG. HIGH
HIGHEST
YEAR
1965

96
AVG. LOW
LOWEST
YEAR
1968

97
AVG. HIGH
HIGHEST
YEAR
1968

98
AVG. LOW
LOWEST
YEAR
1952

99
AVG. HIGH
HIGHEST
YEAR
1960

100
AVG. LOW
LOWEST
YEAR
1960

101
AVG. HIGH
HIGHEST
YEAR
1962

102
AVG. LOW
LOWEST
YEAR
1962

103
AVG. HIGH
HIGHEST
YEAR
1963

104
AVG. LOW
LOWEST
YEAR
1971

105
AVG. HIGH
HIGHEST
YEAR
1965

106
AVG. LOW
LOWEST
YEAR
1968

107
AVG. HIGH
HIGHEST
YEAR
1968

108
AVG. LOW
LOWEST
YEAR
1952

109
AVG. HIGH
HIGHEST
YEAR
1960

110
AVG. LOW
LOWEST
YEAR
1960

111
AVG. HIGH
HIGHEST
YEAR
1962

112
AVG. LOW
LOWEST
YEAR
1962

113
AVG. HIGH
HIGHEST
YEAR
1963

114
AVG. LOW
LOWEST
YEAR
1971

115
AVG. HIGH
HIGHEST
YEAR
1965

116
AVG. LOW
LOWEST
YEAR
1968

117
AVG. HIGH
HIGHEST
YEAR
1968

118
AVG. LOW
LOWEST
YEAR
1952

119
AVG. HIGH
HIGHEST
YEAR
1960

120
AVG. LOW
LOWEST
YEAR
1960

121
AVG. HIGH
HIGHEST
YEAR
1962

122
AVG. LOW
LOWEST
YEAR
1962

123
AVG. HIGH
HIGHEST
YEAR
1963

124
AVG. LOW
LOWEST
YEAR
1971

125
AVG. HIGH
HIGHEST
YEAR
1965

126
AVG. LOW
LOWEST
YEAR
1968

127
AVG. HIGH
HIGHEST
YEAR
1968

128
AVG. LOW
LOWEST
YEAR
1952

129
AVG. HIGH
HIGHEST
YEAR
1960

130
AVG. LOW
LOWEST
YEAR
1960

AVG. WIND SPEED 7.9 KNOTS
PREVAILING WIND DIR. WEST
AVERAGE RAINFALL 0.23 IN.
AVERAGE SNOWFALL 0.0 IN.
AVERAGE CLOUDINESS 30 %

** EARLIEST DATE OF 100° 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

J U N E

J U N E

AVG. HIGH HIGHEST YEAR 1 1953 96 65 50 1964 1964	AVG. HIGH HIGHEST YEAR 2 1956 96 65 55 1969 1969	AVG. HIGH HIGHEST YEAR 3 1956 100 66 56 1962 1962	AVG. HIGH HIGHEST YEAR 4 1956 99 66 57 1957 1957	AVG. HIGH HIGHEST YEAR 5 1967 94 66 56 1970 1970	AVG. HIGH HIGHEST YEAR 6 1950 97 67 60 1959 1959	AVG. HIGH HIGHEST YEAR 7 1956 99 67 59 1960 1960	
AVG. HIGH HIGHEST YEAR 8 1955 101 67 56 1970 1970	AVG. HIGH HIGHEST YEAR 9 1953 98 68 59 1965 1965	AVG. HIGH HIGHEST YEAR 10 1965 98 68 53 1965 1965	AVG. HIGH HIGHEST YEAR 11 1965 98 68 50 1965 1965	AVG. HIGH HIGHEST YEAR 12 1968 98 68 56 1960 1960	AVG. HIGH HIGHEST YEAR 13 1956 101 68 62 1955 1955	AVG. HIGH HIGHEST YEAR 14 1951 99 69 57 1951 1951	
AVG. HIGH HIGHEST YEAR 15 1950 101 69 62 1969 1969	AVG. HIGH HIGHEST YEAR 16 1960 99 69 61 1969 1969	AVG. HIGH HIGHEST YEAR 17 1960 100 70 58 1968 1968	AVG. HIGH HIGHEST YEAR 18 1970 103 70 59 1955 1955	AVG. HIGH HIGHEST YEAR 19 1960 104 70 64 1965 1965	AVG. HIGH HIGHEST YEAR 20 1960 103 71 63 1953 1953	AVG. HIGH HIGHEST YEAR 21 1968 105 71 61 1966 1966	
AVG. HIGH HIGHEST YEAR 22 1960 104 71 62 1965 1965	AVG. HIGH HIGHEST YEAR 23 1968 102 72 65 1970 1970	AVG. HIGH HIGHEST YEAR 24 1965 102 72 63 1965 1965	AVG. HIGH HIGHEST YEAR 25 1964 102 72 63 1964 1964	AVG. HIGH HIGHEST YEAR 26 1970 103 72 62 1967 1967	AVG. HIGH HIGHEST YEAR 27 1957 103 72 62 1966 1966	AVG. HIGH HIGHEST YEAR 28 1951 106 72 64 1966 1966	
AVG. HIGH HIGHEST YEAR 29 1951 106 71 61 1967 1967	AVG. HIGH HIGHEST YEAR 30 1969 103 71 62 1966 1966	AVERAGE MAXIMUM TEMPERATURE 92.8° AVERAGE MINIMUM TEMPERATURE 69.0° RECORD MAXIMUM TEMPERATURE 106 0° RECORD MINIMUM TEMPERATURE 50° AVERAGE RELATIVE HUMIDITY 27% GREATEST MONTHLY RAINFALL 7.42 IN., YEAR 1966 GREATEST 24-HOUR RAINFALL 2.40 IN., YEAR 1966, DATE 29th					AVERAGE MONTHLY WIND SPEED 6.8 KNOTS PREVAILING WIND DIRECTION WEST AVERAGE MONTHLY RAINFALL 0.88 INCH AVERAGE MONTHLY SNOWFALL 0 INCH AVERAGE MONTHLY CLOUDINESS 30%
Ø ABSOLUTE 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

J U L Y

J U L Y

AVG. HIGH HIGHEST YEAR	94 106 1960	94 105 1960	94 103 1966	94 100 1971	93 102 1951	93 104 1951
	1	3	4	5	6	7
AVG. LOW LOWEST YEAR	71 62 1970	71 64 1971	71 62 1968	71 60 1968	71 62 1968	71 64 1960
AVG. HIGH HIGHEST YEAR	93 104 1951	93 105 1951	93 104 1958	93 102 1970	93 101 1963	93 104 1958
	8	10	11	12	13	14
AVG. LOW LOWEST YEAR	71 61 1952	71 63 1969	71 65 1962	71 62 1959	71 63 1964	71 64 1950
AVG. HIGH HIGHEST YEAR	94 104 1963	94 100 1963	94 99 1963	94 101 1951	94 101 1961	93 102 1952
	15	17	18	19	20	21
AVG. LOW LOWEST YEAR	71 67 1952	71 66 1969	70 65 1956	70 63 1962	70 63 1955	70 62 1955
AVG. HIGH HIGHEST YEAR	93 100 1966	93 105 1963	93 101 1963	92 99 1966	92 102 1954	92 102 1954
	22	24	25	26	27	28
AVG. LOW LOWEST YEAR	70 62 1950	70 61 1955	70 62 1970	70 62 1950	70 62 1962	70 65 1970
AVG. HIGH HIGHEST YEAR	92 100 1960	92 100 1969	92 100 1962	93.3 106.0 59	93 102 1962	92 102 1962
	29	30	31	AVG. MAXIMUM TEMPERATURE 93.3 ° AVG. MINIMUM TEMPERATURE 70.5 ° RECORD HIGH TEMPERATURE 106.0 ° RECORD LOW TEMPERATURE 59 ° AVG. RELATIVE HUMIDITY 43 % GREATEST MONTHLY RAINFALL 5.63 IN., YEAR 1962 GREATEST 24-HOUR RAINFALL 2.31 IN., YEAR 1961, DATE 4th		
AVG. WIND SPEED 4.9 KNOTS PREVAILING WIND DIR. SE AVERAGE RAINFALL 2.19 IN. AVERAGE SNOWFALL 0.0 IN. AVERAGE CLOUDINESS 47 %						
Ø ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION: 106 ° ON THREE DAYS IN 1951 AND ONE DAY IN 1960.						

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

AUGUST			AUGUST			AUGUST			AUGUST				
AVG. HIGH 102 1966	AVG. HIGH 92	HIGHEST 101 1969	AVG. HIGH 92	AVG. HIGH 93	HIGHEST 100 1969	AVG. HIGH 93	AVG. HIGH 93	HIGHEST 100 1969	AVG. HIGH 93	AVG. HIGH 93	HIGHEST 100 1969	AVG. HIGH 94	AVG. HIGH 101 1951
AVG. LOW 67 1965	AVG. LOW 70	LOWEST 63 1971	AVG. LOW 70	AVG. LOW 70	LOWEST 63 1971	AVG. LOW 70	AVG. LOW 70	LOWEST 65 1971	AVG. LOW 70	AVG. LOW 70	LOWEST 62 1971	AVG. LOW 70	LOWEST 63 1971
HIGHEST 101 1969	HIGHEST 100 1969	HIGHEST 100 1969	HIGHEST 100 1969	HIGHEST 101 1964	HIGHEST 100 1951	HIGHEST 101 1964	HIGHEST 101 1964	HIGHEST 101 1964	HIGHEST 98 1969	HIGHEST 98 1969	HIGHEST 99 1969	HIGHEST 100 1962	HIGHEST 100 1962
AVG. HIGH 92	AVG. HIGH 92	AVG. HIGH 92	AVG. HIGH 92	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	AVG. HIGH 90
AVG. LOW 67	AVG. LOW 70	AVG. LOW 63	AVG. LOW 70	AVG. LOW 63	AVG. LOW 63	AVG. LOW 61	AVG. LOW 61	AVG. LOW 61	AVG. LOW 69	AVG. LOW 69	AVG. LOW 64	AVG. LOW 65	AVG. LOW 65
LOWEST 63	LOWEST 63	LOWEST 63	LOWEST 63	LOWEST 63	LOWEST 63	LOWEST 61	LOWEST 61	LOWEST 61	LOWEST 59	LOWEST 59	LOWEST 64	LOWEST 65	LOWEST 65
YEAR 1966	YEAR 1965	YEAR 1969	YEAR 1969	YEAR 1951	YEAR 1967	YEAR 1964	YEAR 1964	YEAR 1960	YEAR 1969	YEAR 1966	YEAR 1960	YEAR 1967	YEAR 1967
1	2	3	4	5	6	7	8	9	10	11	12	13	14
AVG. HIGH 90 1965	AVG. HIGH 90	HIGHEST 97 1969	AVG. HIGH 90	AVG. HIGH 90	HIGHEST 96 1969	AVG. HIGH 90	AVG. HIGH 90	HIGHEST 98 1969	AVG. HIGH 90	AVG. HIGH 90	HIGHEST 98 1969	AVG. HIGH 90	AVG. HIGH 90
AVG. LOW 62	AVG. LOW 62	LOWEST 62	AVG. LOW 62	AVG. LOW 62	LOWEST 62	AVG. LOW 62	AVG. LOW 62	LOWEST 62	AVG. LOW 69	AVG. LOW 69	AVG. LOW 62	AVG. LOW 62	AVG. LOW 63
LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 64	LOWEST 64	LOWEST 62	LOWEST 62	LOWEST 63
YEAR 1965	YEAR 1967	YEAR 1967	YEAR 1967	YEAR 1968	YEAR 1967	YEAR 1967	YEAR 1967	YEAR 1967	YEAR 1969	YEAR 1971	YEAR 1967	YEAR 1967	YEAR 1968
15	16	17	18	19	20	21	22	23	24	25	26	27	28
AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 89
HIGHEST 97	HIGHEST 96	HIGHEST 97	HIGHEST 97	HIGHEST 97	HIGHEST 97	HIGHEST 97	HIGHEST 97	HIGHEST 96	HIGHEST 96	HIGHEST 96	HIGHEST 96	HIGHEST 98	HIGHEST 98
YEAR 1950	YEAR 1969	YEAR 1969	YEAR 1969	YEAR 1950	YEAR 1969	YEAR 1964	YEAR 1964	YEAR 1960	YEAR 1966	YEAR 1966	YEAR 1965	YEAR 1965	YEAR 1962
AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68
LOWEST 63	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 62	LOWEST 55	LOWEST 55	LOWEST 63	LOWEST 63	LOWEST 63
YEAR 1967	YEAR 1966	YEAR 1966	YEAR 1966	YEAR 1954	YEAR 1966	YEAR 1966	YEAR 1966	YEAR 1966	YEAR 1966	YEAR 1966	YEAR 1970	YEAR 1970	YEAR 1952
29	30	31	AVG. MAXIMUM TEMPERATURE 91.1 ° AVG. MINIMUM TEMPERATURE 68.8 ° RECORD HIGH TEMPERATURE 103 ° RECORD LOW TEMPERATURE 55 ° AVG. RELATIVE HUMIDITY 43 % GREATEST MONTHLY RAINFALL 6.32 IN. GREATEST 24-HOUR RAINFALL 4.25 IN.										
AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. WIND SPEED 4.7 KNOTS PREVAILING WIND DIR. WEST AVERAGE RAINFALL 1.77 IN. AVERAGE SNOWFALL 0.0 IN. AVERAGE CLOUDINESS 44 %										
HIGHEST 98	HIGHEST 98	HIGHEST 98	YEAR 1959, DATE 23-24										
YEAR 1962	YEAR 1962	YEAR 1962											
AVG. LOW 68	AVG. LOW 68	AVG. LOW 68											
LOWEST 63	LOWEST 63	LOWEST 63											
YEAR 1970	YEAR 1970	YEAR 1970											

90 LATEST DATE OF 100° TEMPERATURE AT STATION, 1952.

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

S E P T E M B E R		O C T O B E R		N O V E M B E R		D E C E M B E R		J A N U A R Y		F E B R U A R Y		M A R C H		A P R I L		M A Y		J U N E		J U L Y		A U G U S T		S E P T E M B E R			
AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951		
AVG. LOW LOWEST YEAR	67 57 1967	AVG. LOW LOWEST YEAR	66 61 1963	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961	AVG. LOW LOWEST YEAR	66 53 1961
AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971	AVG. HIGH HIGHEST YEAR	87 91 1971
AVG. LOW LOWEST YEAR	67 57 1967	AVG. LOW LOWEST YEAR	64 59 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966	AVG. LOW LOWEST YEAR	64 57 1966
AVG. HIGH HIGHEST YEAR	88 97 1951	AVG. HIGH HIGHEST YEAR	87 97 1970	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951	AVG. HIGH HIGHEST YEAR	87 95 1951
AVG. LOW LOWEST YEAR	67 57 1967	AVG. LOW LOWEST YEAR	64 59 1966	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956	AVG. LOW LOWEST YEAR	64 58 1956
AVG. HIGH HIGHEST YEAR	85 92 1956	AVG. HIGH HIGHEST YEAR	85 93 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951	AVG. HIGH HIGHEST YEAR	84 94 1951
AVG. LOW LOWEST YEAR	63 52 1965	AVG. LOW LOWEST YEAR	62 47 1970	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971	AVG. LOW LOWEST YEAR	62 50 1971
AVG. HIGH HIGHEST YEAR	84 93 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951	AVG. HIGH HIGHEST YEAR	83 89 1951
AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970	AVG. LOW LOWEST YEAR	60 48 1970
AVERAGE MONTHLY WIND SPEED		4.8		KNOTS		PREVAILING WIND DIRECTION		WEST		AVERAGE MONTHLY RAINFALL		1.30		INCH		AVERAGE MONTHLY SNOWFALL		0.0		INCH		AVERAGE MONTHLY CLOUDINESS		31		%	
GREATEST 24-HOUR RAINFALL		2.96 IN.		YEAR 1964		DATE		11-12																			

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

O C T O B E R

O C T O B E R

1		2		3		4		5		6		7	
AVG. HIGH	83	AVG. HIGH	82	AVG. HIGH	82	AVG. HIGH	82	AVG. HIGH	82	AVG. HIGH	82	AVG. HIGH	81
HIGHEST	91	HIGHEST	88	HIGHEST	88	HIGHEST	88	HIGHEST	90	HIGHEST	90	HIGHEST	87
YEAR	1951	YEAR	1967	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1965
AVG. LOW	59	AVG. LOW	58	AVG. LOW	58	AVG. LOW	58	AVG. LOW	57	AVG. LOW	57	AVG. LOW	57
LOWEST	48	LOWEST	48	LOWEST	46	LOWEST	46	LOWEST	49	LOWEST	49	LOWEST	45
YEAR	1965	YEAR	1961	YEAR	1961	YEAR	1961	YEAR	1953	YEAR	1968	YEAR	1952
AVG. HIGH	81	AVG. HIGH	80	AVG. HIGH	80	AVG. HIGH	80	AVG. HIGH	79	AVG. HIGH	79	AVG. HIGH	78
HIGHEST	90	HIGHEST	89	HIGHEST	89	HIGHEST	88	HIGHEST	88	HIGHEST	88	HIGHEST	90
YEAR	1965	YEAR	1965	YEAR	1965	YEAR	1951	YEAR	1951	YEAR	1968	YEAR	1968
AVG. LOW	57	AVG. LOW	57	AVG. LOW	56	AVG. LOW	56	AVG. LOW	56	AVG. LOW	55	AVG. LOW	55
LOWEST	44	LOWEST	48	LOWEST	48	LOWEST	48	LOWEST	45	LOWEST	45	LOWEST	42
YEAR	1970	YEAR	1951	YEAR	1961	YEAR	1961	YEAR	1970	YEAR	1969	YEAR	1969
AVG. HIGH	78	AVG. HIGH	77	AVG. HIGH	76	AVG. HIGH	76	AVG. HIGH	75	AVG. HIGH	75	AVG. HIGH	75
HIGHEST	86	HIGHEST	85	HIGHEST	82	HIGHEST	82	HIGHEST	82	HIGHEST	82	HIGHEST	85
YEAR	1951	YEAR	1950	YEAR	1969	YEAR	1950	YEAR	1950	YEAR	1954	YEAR	1961
AVG. LOW	54	AVG. LOW	54	AVG. LOW	53	AVG. LOW	53	AVG. LOW	52	AVG. LOW	52	AVG. LOW	51
LOWEST	45	LOWEST	53	LOWEST	41	LOWEST	38	LOWEST	40	LOWEST	38	LOWEST	43
YEAR	1966	YEAR	1970	YEAR	1967	YEAR	1968	YEAR	1970	YEAR	1971	YEAR	1964
AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	73	AVG. HIGH	72	AVG. HIGH	72	AVG. HIGH	72	AVG. HIGH	71
HIGHEST	84	HIGHEST	85	HIGHEST	83	HIGHEST	86	HIGHEST	82	HIGHEST	83	HIGHEST	85
YEAR	1950	YEAR	1959	YEAR	1950	YEAR	1968	YEAR	1968	YEAR	1950	YEAR	1950
AVG. LOW	51	AVG. LOW	50	AVG. LOW	50	AVG. LOW	50	AVG. LOW	50	AVG. LOW	49	AVG. LOW	49
LOWEST	46	LOWEST	44	LOWEST	43	LOWEST	44	LOWEST	42	LOWEST	38	LOWEST	35
YEAR	1965	YEAR	1968	YEAR	1970	YEAR	1968	YEAR	1964	YEAR	1970	YEAR	1970
AVG. HIGH	71	AVG. HIGH	70	AVG. HIGH	70	AVG. HIGH	70	AVG. HIGH	70	AVG. HIGH	70	AVG. HIGH	70
HIGHEST	83	HIGHEST	85	HIGHEST	85	HIGHEST	85	HIGHEST	85	HIGHEST	85	HIGHEST	85
YEAR	1950	YEAR	1950	YEAR	1950	YEAR	1950	YEAR	1950	YEAR	1950	YEAR	1950
AVG. LOW	48	AVG. LOW	48	AVG. LOW	47	AVG. LOW	47	AVG. LOW	47	AVG. LOW	47	AVG. LOW	47
LOWEST	35	LOWEST	36	LOWEST	34	LOWEST	34	LOWEST	34	LOWEST	34	LOWEST	34
YEAR	1970	YEAR	1967	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956
AVG. MAXIMUM TEMPERATURE 76.4 ° AVG. MINIMUM TEMPERATURE 53.2 ° PREVAILING WIND DIR. WEST RECORD HIGH TEMPERATURE 92 ° RECORD LOW TEMPERATURE 33 ° AVERAGE RAINFALL 0.99 IN. AVG. RELATIVE HUMIDITY 41 % AVG. RAINFALL 0.0 IN. AVERAGE SNOWFALL 0.0 IN. GREATEST MONTHLY RAINFALL 2.99 IN., YEAR 1955 GREATEST 24-HOUR RAINFALL 1.91 IN., YEAR 1955 DATE 3-4													

ØØ LATEST DATE OF 90° TEMPERATURE AT STATION, 1965.

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

N O V E M B E R

69 AVG. HIGH 84 HIGHEST YEAR 1950	69 AVG. HIGH 77 HIGHEST YEAR 1952	68 AVG. HIGH 74 HIGHEST YEAR 1960	68 AVG. HIGH 75 HIGHEST YEAR 1968	67 AVG. HIGH 76 HIGHEST YEAR 1971	67 AVG. HIGH 79 HIGHEST YEAR 1950	66 AVG. HIGH 83 HIGHEST YEAR 1950
1	2	3	4	5	6	7
46 AVG. LOW 39 LOWEST YEAR 1966	46 AVG. LOW 33 LOWEST YEAR 1966	45 AVG. LOW 33 LOWEST YEAR 1969	45 AVG. LOW 32 LOWEST YEAR 1967	44 AVG. LOW 34 LOWEST YEAR 1970	44 AVG. LOW 29 LOWEST YEAR 1959	43 AVG. LOW 29 LOWEST YEAR 1959
8	9	10	11	12	13	14
66 AVG. HIGH 80 HIGHEST YEAR 1950	66 AVG. HIGH 76 HIGHEST YEAR 1969	65 AVG. HIGH 76 HIGHEST YEAR 1969	65 AVG. HIGH 75 HIGHEST YEAR 1969	65 AVG. HIGH 77 HIGHEST YEAR 1971	65 AVG. HIGH 74 HIGHEST YEAR 1965	64 AVG. HIGH 77 HIGHEST YEAR 1962
43 AVG. LOW 33 LOWEST YEAR 1955	43 AVG. LOW 28 LOWEST YEAR 1955	42 AVG. LOW 25 LOWEST YEAR 1950	42 AVG. LOW 22 LOWEST YEAR 1950	42 AVG. LOW 28 LOWEST YEAR 1950	42 AVG. LOW 34 LOWEST YEAR 1961	42 AVG. LOW 28 LOWEST YEAR 1959
15	16	17	18	19	20	21
64 AVG. HIGH 77 HIGHEST YEAR 1966	64 AVG. HIGH 80 HIGHEST YEAR 1966	64 AVG. HIGH 81 HIGHEST YEAR 1966	64 AVG. HIGH 77 HIGHEST YEAR 1966	63 AVG. HIGH 74 HIGHEST YEAR 1965	63 AVG. HIGH 73 HIGHEST YEAR 1966	63 AVG. HIGH 73 HIGHEST YEAR 1955
42 AVG. LOW 30 LOWEST YEAR 1961	41 AVG. LOW 26 LOWEST YEAR 1956	41 AVG. LOW 28 LOWEST YEAR 1959	41 AVG. LOW 26 LOWEST YEAR 1958	40 AVG. LOW 25 LOWEST YEAR 1969	40 AVG. LOW 26 LOWEST YEAR 1969	40 AVG. LOW 25 LOWEST YEAR 1956
22	23	24	25	26	27	28
62 AVG. HIGH 74 HIGHEST YEAR 1950	62 AVG. HIGH 75 HIGHEST YEAR 1965	62 AVG. HIGH 73 HIGHEST YEAR 1965	61 AVG. HIGH 75 HIGHEST YEAR 1965	61 AVG. HIGH 75 HIGHEST YEAR 1960	61 AVG. HIGH 72 HIGHEST YEAR 1950	60 AVG. HIGH 73 HIGHEST YEAR 1970
40 AVG. LOW 25 LOWEST YEAR 1964	39 AVG. LOW 30 LOWEST YEAR 1964	39 AVG. LOW 28 LOWEST YEAR 1970	39 AVG. LOW 30 LOWEST YEAR 1956	39 AVG. LOW 25 LOWEST YEAR 1952	38 AVG. LOW 24 LOWEST YEAR 1952	38 AVG. LOW 25 LOWEST YEAR 1959
29	30	AVERAGE MAXIMUM TEMPERATURE 64.0° AVERAGE MINIMUM TEMPERATURE 41.3° RECORD MAXIMUM TEMPERATURE 84° RECORD MINIMUM TEMPERATURE 22° AVERAGE RELATIVE HUMIDITY 43% GREATEST MONTHLY RAINFALL 2.40IN., YEAR 1961 GREATEST 24-HOUR RAINFALL 0.80IN., YEAR 1961				
					AVERAGE MONTHLY WIND SPEED 5.3 KNOTS PREVAILING WIND DIRECTION WEST AVERAGE MONTHLY RAINFALL 0.42 INCH AVERAGE MONTHLY SNOWFALL 0.8 INCH AVERAGE MONTHLY CLOUDINESS 30%	DATE 8th

*** EARLIEST DATE OF FIRST FREEZING TEMPERATURE, 1967. ** AVERAGE DATE OF FIRST FREEZING TEMPERATURE.

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

D E C E M B E R		M O N T H L Y S U M M A R Y		D E C E M B E R		D E C E M B E R	
AVG. HIGH HIGHEST YEAR	59 73 1961	AVG. HIGH HIGHEST YEAR	71 77 1958	AVG. HIGH HIGHEST YEAR	58 73 1958	AVG. HIGH HIGHEST YEAR	57 70 1954
AVG. LOW LOWEST YEAR	38 31 1969	AVG. LOW LOWEST YEAR	37 28 1963	AVG. LOW LOWEST YEAR	36 24 1952	AVG. LOW LOWEST YEAR	36 24 1953
AVG. HIGH HIGHEST YEAR	57 70 1970	AVG. HIGH HIGHEST YEAR	56 72 1950	AVG. HIGH HIGHEST YEAR	56 70 1958	AVG. HIGH HIGHEST YEAR	55 70 1950
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	34 21 1964
AVG. HIGH HIGHEST YEAR	55 67 1950	AVG. HIGH HIGHEST YEAR	55 67 1970	AVG. HIGH HIGHEST YEAR	55 65 1969	AVG. HIGH HIGHEST YEAR	55 67 1969
AVG. LOW LOWEST YEAR	34 22 1957	AVG. LOW LOWEST YEAR	33 22 1971	AVG. LOW LOWEST YEAR	33 24 1964	AVG. LOW LOWEST YEAR	33 25 1967
AVG. HIGH HIGHEST YEAR	55 69 1969	AVG. HIGH HIGHEST YEAR	54 71 1955	AVG. HIGH HIGHEST YEAR	54 70 1971	AVG. HIGH HIGHEST YEAR	54 70 1955
AVG. LOW LOWEST YEAR	33 22 1967	AVG. LOW LOWEST YEAR	33 17 1953	AVG. LOW LOWEST YEAR	33 20 1953	AVG. LOW LOWEST YEAR	33 22 1966
AVG. HIGH HIGHEST YEAR	54 66 1955	AVG. HIGH HIGHEST YEAR	54 66 1964	AVG. HIGH HIGHEST YEAR	54 70 1971	AVG. HIGH HIGHEST YEAR	54 70 1955
AVG. LOW LOWEST YEAR	33 18 1966	AVG. LOW LOWEST YEAR	33 21 1958	AVG. LOW LOWEST YEAR	33 21 1953	AVG. LOW LOWEST YEAR	33 22 1966
AVG. WIND SPEED 5.4 KNOTS		AVG. WIND SPEED 5.4 KNOTS		AVG. WIND SPEED 5.4 KNOTS		AVG. WIND SPEED 5.4 KNOTS	
PREVAILING WIND DIR. WEST		PREVAILING WIND DIR. WEST		PREVAILING WIND DIR. WEST		PREVAILING WIND DIR. WEST	
AVERAGE RAINFALL 0.75 IN.		AVERAGE RAINFALL 0.75 IN.		AVERAGE RAINFALL 0.75 IN.		AVERAGE RAINFALL 0.75 IN.	
AVERAGE SNOWFALL 2.24 IN.		AVERAGE SNOWFALL 2.24 IN.		AVERAGE SNOWFALL 2.24 IN.		AVERAGE SNOWFALL 2.24 IN.	
AVERAGE CLOUDINESS 37 %		AVERAGE CLOUDINESS 47 %		AVERAGE CLOUDINESS 47 %		AVERAGE CLOUDINESS 37 %	
GREATEST MONTHLY RAINFALL 2.43 IN., YEAR 1965		GREATEST MONTHLY RAINFALL 2.43 IN., YEAR 1965		GREATEST MONTHLY RAINFALL 2.43 IN., YEAR 1965		GREATEST MONTHLY RAINFALL 2.43 IN., YEAR 1965	
GREATEST 24-HOUR RAINFALL 1.02 IN., YEAR 1967, DATE 14-15		GREATEST 24-HOUR RAINFALL 1.02 IN., YEAR 1967, DATE 14-15		GREATEST 24-HOUR RAINFALL 1.02 IN., YEAR 1967, DATE 14-15		GREATEST 24-HOUR RAINFALL 1.02 IN., YEAR 1967, DATE 14-15	

** LATEST DATE OF FIRST FALL FREEZING TEMPERATURE, 1954.

M O N T H	1948-1971 [6]										1950-71				1961-63	
	STATION PRESSURE (INCHES OF MERCURY)		SIX-HOURLY RELATIVE HUMIDITY						AVERAGE NUMBER OF DAYS WITH:				GREATEST SNOWFALL		AVG. DAILY SOLAR RADI- ATION ØØ	
	MEANS	HIGH- EST	LOWEST	5 AM	11 AM	5 PM	11 PM	M E A N	THUNDER STORMS	PRECIPITATION	VISI- BILITY	AVG. DE- GREE DAYS, BASE 65°F	SINGLE STORM	MONTHLY		
JAN	25.772	26.240	25.160	54	42	38	47	45	5	3	1	2	1	5.5	5.5	332
FEB	25.726	26.170	25.180	49	36	29	40	39	5	3	2	2	2	7-8	1968	410
MAR	25.676	26.180	25.180	41	28	22	33	31	6	4	2	1	4	8.6	8.6	410
APR	25.664	26.160	25.190	35	23	17	27	26	4	2	1	4	4	14-15	1952	508
MAY	25.672	26.080	25.290	34	21	16	25	24	5	2	1	4	4	3.5	3.5	624
JUN	25.676	25.970	25.310	38	23	18	28	27	7	3	2	3	3	11-12	1958	679
JUL	25.751	26.050	25.470	58	36	31	46	43	15	8	4	1	3	0	0	692
AUG	25.765	26.010	25.510	59	37	31	45	43	14	8	4	1	1	0	0	632
SEP	25.752	26.050	25.410	56	36	30	45	42	8	5	3	1	1	0	0	584
OCT	25.767	26.220	25.300	51	33	29	42	39	5	3	3	1	1	0	0	538
NOV	25.771	26.240	25.290	51	34	34	44	41	4	2	1	1	1	T	T	485
DEC	25.771	26.285	25.200	56	42	38	49	46	6	4	2	1	1	6.2	6.2	340
YEAR	25.730	26.285	25.160	49	33	28	39	37	84	47	26	14	23	14.0	14.9	513

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

TABLE IV. MONTHLY AND ANNUAL CLIMATOLOGICAL DATA, "A" STATION, WSMR HEADQUARTERS

ITEM	WINTER	SPRING	SUMMER	FALL	YEAR
TEMPERATURES (°F)					
Mean Maximum	57.4	75.2	92.4	75.5	75.1
Mean Minimum	35.6	52.1	69.4	52.6	52.4
Mean	46.4	63.7	80.9	64.1	63.8
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)					
	1655	431	0	442	2528
RELATIVE HUMIDITY (%)					
	43	27	38	401	37
SURFACE WINDS (Knots)					
Average Speed	W 5.9	W 8.2	W 5.5	W 5.0	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) Ø					
Percent of Annual	1.74	1.01	4.84	2.71	10.30
Greatest Monthly	17%	10%	47%	26%	100%
Month and Year	2.43	3.00	7.42	5.76	7.42
Greatest 24-Hour	12/65	3/58	6/66	9/58	6/66
Dates	1.02	1.46	4.25	2.96	4.25
	12/14-15/67	3/5-6/58	8/23-24/59	9/11-12/64	1959
SNOWFALL (Inches)					
Greatest Monthly	4.7	0.5	0.0	0.8	6.0
Month and Year	14.9	3.5	0.0	6.2	14.9
	12/67	3/58	- - -	11/61	1967
CLOUDINESS (%)					
	38	34	41	29	36
NUMBER OF DAYS WITH:					
Measurable Rainfall	10	9	19	10	48
Thunderstorms	1	5	30	8	44
Visibility \leq 6 Miles	10	11	9	6	36
Ø 0.01" or more					
STATION PRESSURE					
Average (Inches of Hg)	25.756	25.670	25.731	24.763	24.730

WINTER = 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.

Ø "Rainfall" includes water content of snowfall.

TABLE V. "A" STATION CLIMATOGRAPHY--SEASONAL VALUES, 1950-1971