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WHITE SANDS MISSILE RANGE CLIMATE CALENDAR, (U)  
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6 WHITE SANDS MISSILE RANGE  
CLIMATE CALENDAR

BY

10 DAVID J. NOVLAN

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ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This is the seventh 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 (1950-1976) are tabulated in calendar form for Station, the forecast center located at Headquarters, White Sands Missile		

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20. ABSTRACT (Cont.)

*cont.* →

Range, New Mexico. Averages of temperatures, 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 relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms, and visibility restrictions.



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FOREWORD

This report is a revision of Data Report 876, published under the same title in Jan 1975. The revision updates the original data to cover the period through September 1977.

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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 25 years, 1950 through 1974, unless otherwise indicated. (Daily temperature means and extremes only have been computed through December 1974.) 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 temperature of 106° occurred four times. The absolute high temperature was 107° on 31 July 1972.

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 10.68", and for 66% of the thunderstorms. Seventy per cent 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	MEAN MIN	MEAN	HIGHEST	LOWEST
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

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

WARMEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGHEST	LOWEST
MONTH OF JUNE	92.8	69.0	80.9	106	50
MONTH OF JULY	93.3	70.5	81.9	107	59
MONTH OF AUGUST	91.1	68.8	80.0	103	55

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 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, 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	
3.49 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

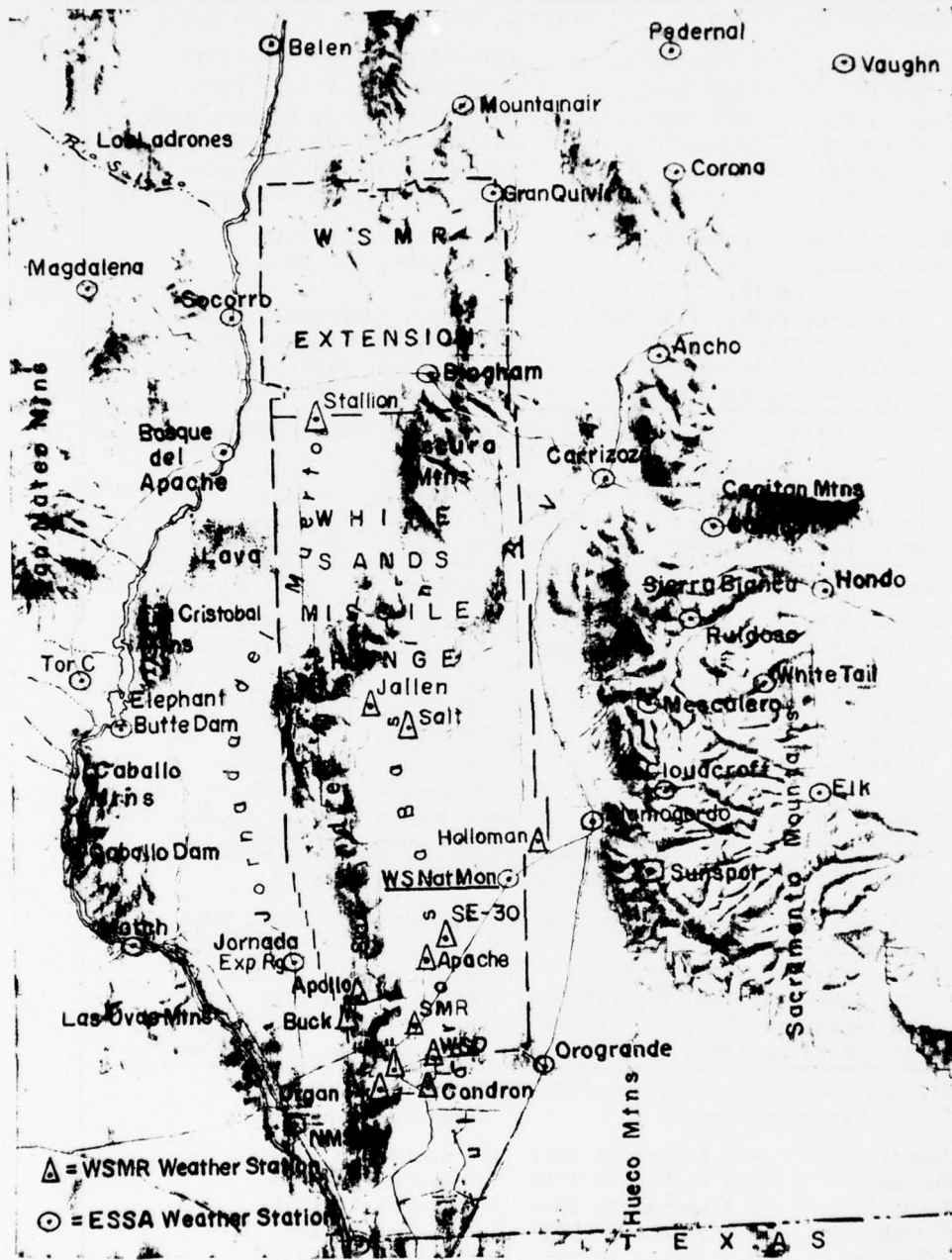
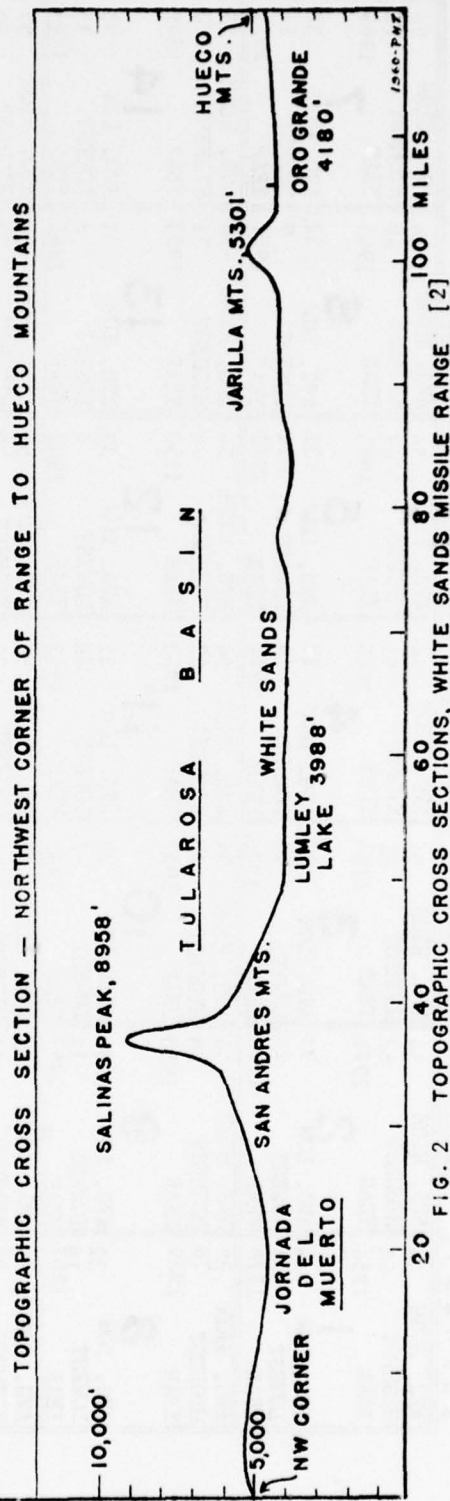
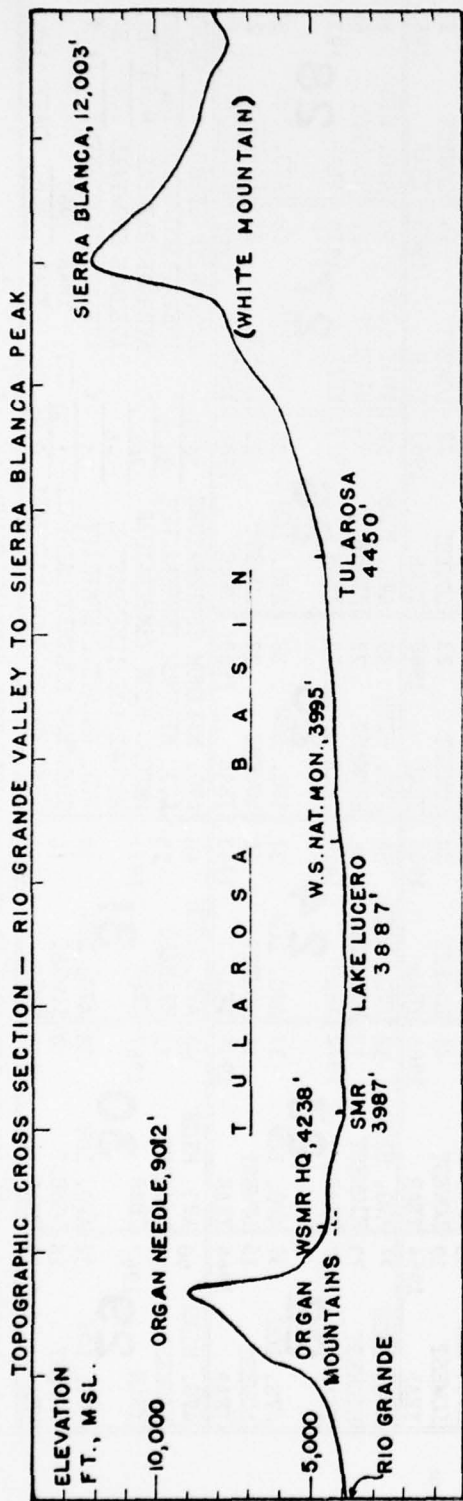


FIGURE 1. WEATHER STATIONS, WHITE SANDS MISSILE RANGE AND VICINITY



20 40 60 80 100 MILES

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 54 HIGHEST 62 YEAR 1956	AVG. HIGH 54 HIGHEST 61 YEAR 1954	AVG. HIGH 54 HIGHEST 61 YEAR 1965	AVG. HIGH 54 HIGHEST 67 YEAR 1965	AVG. HIGH 54 HIGHEST 69 YEAR 1965	AVG. HIGH 54 HIGHEST 71 YEAR 1969
AVG. LOW 33 LOWEST 21 YEAR 1970	AVG. LOW 33 LOWEST 19 YEAR 1976	AVG. LOW 33 LOWEST 14 YEAR 1971	AVG. LOW 32 LOWEST 11 YEAR 1971	AVG. LOW 32 LOWEST 9 YEAR 1971	AVG. LOW 32 LOWEST 13 YEAR 1971
AVG. HIGH 54 HIGHEST 70 YEAR 1969	AVG. HIGH 54 HIGHEST 73 YEAR 1953	AVG. HIGH 54 HIGHEST 69 YEAR 1953	AVG. HIGH 54 HIGHEST 72 YEAR 1953	AVG. HIGH 54 HIGHEST 71 YEAR 1953	AVG. HIGH 55 HIGHEST 70 YEAR 1969
AVG. LOW 32 LOWEST 18 YEAR 1967	AVG. LOW 32 LOWEST -2 YEAR 1962	AVG. LOW 32 LOWEST -6 YEAR 1962	AVG. LOW 32 LOWEST 4 YEAR 1962	AVG. LOW 32 LOWEST 8 YEAR 1963	AVG. LOW 33 LOWEST 13 YEAR 1964
AVG. HIGH 55 HIGHEST 67 YEAR 1957	AVG. HIGH 56 HIGHEST 74 YEAR 1974	AVG. HIGH 56 HIGHEST 74 YEAR 1971	AVG. HIGH 56 HIGHEST 70 YEAR 1959	AVG. HIGH 57 HIGHEST 73 YEAR 1971	AVG. HIGH 57 HIGHEST 72 YEAR 1973
AVG. LOW 33 LOWEST 19 YEAR 1964	AVG. LOW 34 LOWEST 21 YEAR 1964	AVG. LOW 35 LOWEST 23 YEAR 1960	AVG. LOW 35 LOWEST 22 YEAR 1963	AVG. LOW 36 LOWEST 16 YEAR 1963	AVG. LOW 36 LOWEST 23 YEAR 1963
AVG. HIGH 57 HIGHEST 73 YEAR 1967	AVG. HIGH 58 HIGHEST 76 YEAR 1970	AVG. HIGH 59 HIGHEST 72 YEAR 1972	AVG. HIGH 59 HIGHEST 74 YEAR 1975	AVG. HIGH 60 HIGHEST 71 YEAR 1970	AVG. HIGH 60 HIGHEST 69 YEAR 1971
AVG. LOW 37 LOWEST 13 YEAR 1966	AVG. LOW 37 LOWEST 16 YEAR 1966	AVG. LOW 38 LOWEST 22 YEAR 1963	AVG. LOW 38 LOWEST 22 YEAR 1966	AVG. LOW 38 LOWEST 21 YEAR 1966	AVG. LOW 38 LOWEST 24 YEAR 1963
AVG. HIGH 60 HIGHEST 73 YEAR 1967	AVG. HIGH 60 HIGHEST 73 YEAR 1967	AVG. HIGH 60 HIGHEST 73 YEAR 1971	AVG. HIGH 56.5 HIGHEST 34.6 YEAR 1975	AVG. HIGH 56.5 HIGHEST 34.6 YEAR 1975	AVG. HIGH 56.5 HIGHEST 34.6 YEAR 1975
AVG. LOW 38 LOWEST 28 YEAR 1970	AVG. LOW 38 LOWEST 20 YEAR 1951	AVG. LOW 38 LOWEST 16 YEAR 1951	AVG. LOW 38 LOWEST 16 YEAR 1960	AVG. LOW 38 LOWEST 16 YEAR 1960	AVG. LOW 38 LOWEST 16 YEAR 1960
* ABSOLUTE RECORD LOW TEMPERATURE AT STATION. GREATEST JANUARY SNOWFALL: 5.5 in. 1968 PREVAILING WIND DIR. WEST AVERAGE RAINFALL 0.53 IN. AVERAGE SNOWFALL 1.4 IN. AVERAGE CLOUDINESS 41 % GREATEST 24-HOUR RAINFALL 1.50 IN., YEAR 1960 GREATEST 24-HOUR RAINFALL 0.96 IN., YEAR 1960					

F E B R U A R Y

DAILY TEMPERATURE RECORDS AND RECORDS AND RECORDS OF AVERAGE CLIMATOLOGICAL DATA, WITH ANNUAL SUMMARY

F E B R U A R Y

F E B R U A R Y

AVG. HIGH HIGHEST YEAR	59 79 1963	AVG. HIGH HIGHEST YEAR	59 71 1963	AVG. HIGH HIGHEST YEAR	59 72 1953	AVG. HIGH HIGHEST YEAR	59 76 1963	AVG. HIGH HIGHEST YEAR	59 77 1963	AVG. HIGH HIGHEST YEAR	60 76 1963	AVG. HIGH HIGHEST YEAR	60 74 1963
AVG. LOW LOWEST YEAR	37 8 1951	AVG. LOW LOWEST YEAR	37 9 1951	AVG. LOW LOWEST YEAR	37 13 1956	AVG. LOW LOWEST YEAR	37 14 1956	AVG. LOW LOWEST YEAR	37 24 1955	AVG. LOW LOWEST YEAR	37 22 1955	AVG. LOW LOWEST YEAR	37 22 1964
AVG. HIGH HIGHEST YEAR	60 78 1957	AVG. HIGH HIGHEST YEAR	60 75 1962	AVG. HIGH HIGHEST YEAR	60 76 1962	AVG. HIGH HIGHEST YEAR	60 81 1957	AVG. HIGH HIGHEST YEAR	60 78 1962	AVG. HIGH HIGHEST YEAR	60 77 1957	AVG. HIGH HIGHEST YEAR	60 80 1957
AVG. LOW LOWEST YEAR	37 24 1974	AVG. LOW LOWEST YEAR	37 18 1967	AVG. LOW LOWEST YEAR	37 22 1956	AVG. LOW LOWEST YEAR	37 17 1963	AVG. LOW LOWEST YEAR	37 16 1963	AVG. LOW LOWEST YEAR	38 18 1963	AVG. LOW LOWEST YEAR	38 21 1965
AVG. HIGH HIGHEST YEAR	60 72 1971	AVG. HIGH HIGHEST YEAR	59 72 1971	AVG. HIGH HIGHEST YEAR	59 75 1970	AVG. HIGH HIGHEST YEAR	59 74 1977	AVG. HIGH HIGHEST YEAR	59 77 1972	AVG. HIGH HIGHEST YEAR	59 78 1972	AVG. HIGH HIGHEST YEAR	59 77 1972
AVG. LOW LOWEST YEAR	38 20 1951	AVG. LOW LOWEST YEAR	38 25 1966	AVG. LOW LOWEST YEAR	37 24 1966	AVG. LOW LOWEST YEAR	37 26 1960	AVG. LOW LOWEST YEAR	37 22 1955	AVG. LOW LOWEST YEAR	37 21 1955	AVG. LOW LOWEST YEAR	38 20 1964
AVG. HIGH HIGHEST YEAR	60 75 1954	AVG. HIGH HIGHEST YEAR	60 75 1972	AVG. HIGH HIGHEST YEAR	61 74 1972	AVG. HIGH HIGHEST YEAR	61 75 1954	AVG. HIGH HIGHEST YEAR	62 72 1961	AVG. HIGH HIGHEST YEAR	62 76 1976	AVG. HIGH HIGHEST YEAR	62 77 1974
AVG. LOW LOWEST YEAR	38 23 1955	AVG. LOW LOWEST YEAR	38 21 1975	AVG. LOW LOWEST YEAR	38 16 1960	AVG. LOW LOWEST YEAR	39 14 1960	AVG. LOW LOWEST YEAR	39 29 1952	AVG. LOW LOWEST YEAR	39 29 1977	AVG. LOW LOWEST YEAR	40 25 1977
AVG. HIGH HIGHEST YEAR	62 76 1972	AVG. MAXIMUM TEMPERATURE	60.0°	AVG. MINIMUM TEMPERATURE	37.6°	AVG. MONTHLY WIND SPEED	6.5 K	PREVAILING WIND DIRECTION	WEST	AVERAGE MONTHLY RAINFALL	0.53 IN.	AVERAGE MONTHLY SNOWFALL	1.4 IN.
AVG. LOW LOWEST YEAR	29 40 1956	RECORD MAXIMUM TEMPERATURE	81°	RECORD MINIMUM TEMPERATURE	8°	AVERAGE RELATIVE HUMIDITY	39%	AVERAGE MONTHLY CLOUDLINESS	37%	GREATEST MONTHLY RAINFALL	1.74 IN., YEAR 1973	GREATEST 24-HOUR RAINFALL	1.01 IN., YEAR 1953, DATE 28th

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

HIGHEST WIND 102 KNOTS 22 FEB 1977

CUMULATIVE PRECIP. END OF FEB 1.06 IN





"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

<b>1</b>	AVG. HIGH 82 HIGHEST 1969	AVG. LOW 49 LOWEST 40 1976	<b>2</b>	AVG. HIGH 83 HIGHEST 1966	AVG. LOW 50 LOWEST 35 1970	<b>3</b>	AVG. HIGH 86 HIGHEST 1954	AVG. LOW 50 LOWEST 31 1973	<b>4</b>	AVG. HIGH 87 HIGHEST 1967	AVG. LOW 50 LOWEST 37 1964	<b>5</b>	AVG. HIGH 86 HIGHEST 1959	AVG. LOW 50 LOWEST 34 1970	<b>6</b>	AVG. HIGH 85 HIGHEST 1954	AVG. LOW 50 LOWEST 36 1973	<b>7</b>	AVG. HIGH 86 HIGHEST 1963	AVG. LOW 50 LOWEST 36 1975
<b>8</b>	AVG. HIGH 86 HIGHEST 1963	AVG. LOW 29 LOWEST 1973	<b>9</b>	AVG. HIGH 86 HIGHEST 1977	AVG. LOW 50 LOWEST 30 1973	<b>10</b>	AVG. HIGH 86 HIGHEST 1960	AVG. LOW 50 LOWEST 38 1973	<b>11</b>	AVG. HIGH 89 HIGHEST 1971	AVG. LOW 51 LOWEST 34 1951	<b>12</b>	AVG. HIGH 85 HIGHEST 1971	AVG. LOW 51 LOWEST 37 1953	<b>13</b>	AVG. HIGH 85 HIGHEST 1962	AVG. LOW 52 LOWEST 36 1959	<b>14**</b>	AVG. HIGH 90 HIGHEST 1963	AVG. LOW 52 LOWEST 38 1958
<b>15</b>	AVG. HIGH 89 HIGHEST 1962	AVG. LOW 42 LOWEST 1976	<b>16</b>	AVG. HIGH 91 HIGHEST 1962	AVG. LOW 35 LOWEST 1976	<b>17</b>	AVG. HIGH 89 HIGHEST 1962	AVG. LOW 36 LOWEST 1976	<b>18</b>	AVG. HIGH 90 HIGHEST 1954	AVG. LOW 54 LOWEST 37 1976	<b>19</b>	AVG. HIGH 88 HIGHEST 1962	AVG. LOW 54 LOWEST 39 1971	<b>20</b>	AVG. HIGH 88 HIGHEST 1965	AVG. LOW 55 LOWEST 42 1975	<b>21</b>	AVG. HIGH 92 HIGHEST 1965	AVG. LOW 55 LOWEST 42 1973
<b>22</b>	AVG. HIGH 94 HIGHEST 1965	AVG. LOW 46 LOWEST 1952	<b>23</b>	AVG. HIGH 89 HIGHEST 1965	AVG. LOW 41 LOWEST 1968	<b>24</b>	AVG. HIGH 91 HIGHEST 1974	AVG. LOW 36 LOWEST 1968	<b>25</b>	AVG. HIGH 90 HIGHEST 1974	AVG. LOW 55 LOWEST 45 1961	<b>26</b>	AVG. HIGH 89 HIGHEST 1950	AVG. LOW 55 LOWEST 43 1964	<b>27</b>	AVG. HIGH 85 HIGHEST 1953	AVG. LOW 55 LOWEST 42 1973	<b>28</b>	AVG. HIGH 84 HIGHEST 1973	AVG. LOW 55 LOWEST 46 1969
<b>29</b>	AVG. HIGH 87 HIGHEST 1961	AVG. LOW 45 LOWEST 1951	<b>30</b>	AVG. HIGH 89 HIGHEST 1961	AVG. LOW 40 LOWEST 1970	AVERAGE MAXIMUM TEMPERATURE 75.4° AVERAGE MINIMUM TEMPERATURE 52.4° RECORD MAXIMUM TEMPERATURE 94° RECORD MINIMUM TEMPERATURE 34° AVERAGE RELATIVE HUMIDITY 26% GREATEST MONTHLY RAINFALL 1.37IN., GREATEST 24-HOUR RAINFALL 0.95IN.,		AVERAGE MONTHLY WIND SPEED 8.7 KNOTS PREVAILING WIND DIRECTION WEST AVERAGE MONTHLY RAINFALL 0.25 INCH AVERAGE MONTHLY SNOWFALL .04 INCH AVERAGE MONTHLY CLOUDINESS 34%		YEAR 1952, YEAR 1952, DATE 11th										

\*\* EARLIEST DATE TEMPERATURE REACHED 90°. \*\*\* LATEST DATE FREEZING TEMPERATURE IN SPRING  
 CUMULATIVE PRECIP THROUGH APRIL 1.80 IN

"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

AVG. HIGH HIGHEST YEAR	79 90 1961	AVG. HIGH HIGHEST YEAR	80 89 1956	AVG. HIGH HIGHEST YEAR	81 92 1962	AVG. HIGH HIGHEST YEAR	82 93 1956
	<b>1</b>		<b>3</b>		<b>5</b>		<b>7</b>
AVG. LOW LOWEST YEAR	56 41 1951	AVG. LOW LOWEST YEAR	56 41 1970	AVG. LOW LOWEST YEAR	57 39 1953	AVG. LOW LOWEST YEAR	58 43 1969
	<b>2</b>		<b>4</b>		<b>6</b>		<b>8</b>
AVG. HIGH HIGHEST YEAR	82 93 1956	AVG. HIGH HIGHEST YEAR	83 94 1962	AVG. HIGH HIGHEST YEAR	83 95 1962	AVG. HIGH HIGHEST YEAR	84 96 1963
	<b>8</b>		<b>10</b>		<b>12</b>		<b>14</b>
AVG. LOW LOWEST YEAR	58 47 1969	AVG. LOW LOWEST YEAR	59 45 1953	AVG. LOW LOWEST YEAR	60 49 1971	AVG. LOW LOWEST YEAR	60 47 1953
	<b>9</b>		<b>11</b>		<b>13</b>		<b>15</b>
AVG. HIGH HIGHEST YEAR	84 94 1976	AVG. HIGH HIGHEST YEAR	85 93 1970	AVG. HIGH HIGHEST YEAR	85 96 1970	AVG. HIGH HIGHEST YEAR	86 98 1969
	<b>15</b>		<b>17</b>		<b>19</b>		<b>21</b>
AVG. LOW LOWEST YEAR	60 47 1967	AVG. LOW LOWEST YEAR	61 52 1965	AVG. LOW LOWEST YEAR	62 47 1952	AVG. LOW LOWEST YEAR	62 50 1967
	<b>16</b>		<b>18</b>		<b>20</b>		<b>22</b>
AVG. HIGH HIGHEST YEAR	86 93 1965	AVG. HIGH HIGHEST YEAR	87 99 1964	AVG. HIGH HIGHEST YEAR	88 100 1951	AVG. HIGH HIGHEST YEAR	88 103 1951
	<b>22</b>		<b>24</b>		<b>26</b>		<b>28</b>
AVG. LOW LOWEST YEAR	62 55 1962	AVG. LOW LOWEST YEAR	63 55 1971	AVG. LOW LOWEST YEAR	64 53 1967	AVG. LOW LOWEST YEAR	65 54 1973
	<b>23</b>		<b>25</b>		<b>27</b>		<b>29</b>
AVG. HIGH HIGHEST YEAR	89 98 1951	AVG. HIGH HIGHEST YEAR	89 97 1953	AVG. HIGH HIGHEST YEAR	84.3 60.5 103	AVG. WIND SPEED PREVAILING WIND DIR. WEST	7.9 WEST
	<b>30</b>		<b>31</b>		<b>33</b>		<b>35</b>
AVG. LOW LOWEST YEAR	65 53 1973	AVG. LOW LOWEST YEAR	66 50 1975	RECORD HIGH TEMPERATURE RECORD LOW TEMPERATURE AVG. RELATIVE HUMIDITY GREATEST MONTHLY RAINFALL GREATEST 24-HOUR RAINFALL	103 38 24 1.01 IN. 0.82 IN.	AVERAGE RAINFALL AVERAGE SNOWFALL AVERAGE CLOUDINESS YEAR DATE	0.25 IN. 0.0 IN. 30 % 1976 1959 23rd

\*\* EARLIEST DATE OF 100° TEMPERATURE AT STATION

CUMULATIVE PRECIP THROUGH MAY 2.05 IN

"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 96 HIGHEST YEAR	96 1953	AVG. HIGH 91 HIGHEST YEAR	91 1955	AVG. HIGH 89 HIGHEST YEAR	89 1956	AVG. HIGH 90 HIGHEST YEAR	90 1956	AVG. HIGH 90 HIGHEST YEAR	90 1950	AVG. HIGH 90 HIGHEST YEAR	90 1956
AVG. LOW 50 LOWEST YEAR	50 1964	AVG. LOW 55 LOWEST YEAR	55 1969	AVG. LOW 65 LOWEST YEAR	65 1969	AVG. LOW 66 LOWEST YEAR	66 1970	AVG. LOW 66 LOWEST YEAR	67 1959	AVG. LOW 67 LOWEST YEAR	67 1960
AVG. HIGH 91 HIGHEST YEAR	91 1955	AVG. HIGH 91 HIGHEST YEAR	91 1962	AVG. HIGH 89 HIGHEST YEAR	100 1956	AVG. HIGH 92 HIGHEST YEAR	92 1974	AVG. HIGH 92 HIGHEST YEAR	92 1956	AVG. HIGH 92 HIGHEST YEAR	92 1956
AVG. LOW 56 LOWEST YEAR	56 1970	AVG. LOW 59 LOWEST YEAR	59 1965	AVG. LOW 66 LOWEST YEAR	66 1962	AVG. LOW 57 LOWEST YEAR	57 1957	AVG. LOW 56 LOWEST YEAR	60 1959	AVG. LOW 60 LOWEST YEAR	60 1960
AVG. HIGH 93 HIGHEST YEAR	93 1955	AVG. HIGH 98 HIGHEST YEAR	98 1953	AVG. HIGH 91 HIGHEST YEAR	98 1962	AVG. HIGH 100 HIGHEST YEAR	100 1974	AVG. HIGH 92 HIGHEST YEAR	101 1956	AVG. HIGH 92 HIGHEST YEAR	102 1977
AVG. LOW 67 LOWEST YEAR	67 1970	AVG. LOW 59 LOWEST YEAR	59 1965	AVG. LOW 68 LOWEST YEAR	68 1965	AVG. LOW 50 LOWEST YEAR	50 1965	AVG. LOW 68 LOWEST YEAR	68 1973	AVG. LOW 68 LOWEST YEAR	69 1973
AVG. HIGH 93 HIGHEST YEAR	93 1950	AVG. HIGH 104 HIGHEST YEAR	104 1977	AVG. HIGH 94 HIGHEST YEAR	103 1977	AVG. HIGH 94 HIGHEST YEAR	94 1977	AVG. HIGH 95 HIGHEST YEAR	95 1960	AVG. HIGH 95 HIGHEST YEAR	95 1968
AVG. LOW 62 LOWEST YEAR	62 1969	AVG. LOW 61 LOWEST YEAR	61 1969	AVG. LOW 70 LOWEST YEAR	70 1968	AVG. LOW 59 LOWEST YEAR	59 1955	AVG. LOW 70 LOWEST YEAR	71 1953	AVG. LOW 71 LOWEST YEAR	71 1973
AVG. HIGH 95 HIGHEST YEAR	95 1960	AVG. HIGH 102 HIGHEST YEAR	102 1968	AVG. HIGH 96 HIGHEST YEAR	102 1961	AVG. HIGH 102 HIGHEST YEAR	102 1951	AVG. HIGH 96 HIGHEST YEAR	103 1957	AVG. HIGH 96 HIGHEST YEAR	106 1951
AVG. LOW 60 LOWEST YEAR	60 1973	AVG. LOW 59 LOWEST YEAR	59 1973	AVG. LOW 72 LOWEST YEAR	72 1973	AVG. LOW 60 LOWEST YEAR	60 1964	AVG. LOW 72 LOWEST YEAR	72 1966	AVG. LOW 72 LOWEST YEAR	72 1966
AVG. HIGH 95 HIGHEST YEAR	95 1973	AVG. HIGH 106 HIGHEST YEAR	106 1973	AVG. HIGH 95 HIGHEST YEAR	92.8° 1973	AVG. HIGH 96 HIGHEST YEAR	96 1976	AVG. HIGH 96 HIGHEST YEAR	96 1966	AVG. HIGH 96 HIGHEST YEAR	96 1966
AVG. LOW 61 LOWEST YEAR	61 1967	AVG. LOW 62 LOWEST YEAR	62 1966	AVG. LOW 71 LOWEST YEAR	71 1966	AVG. LOW 63 LOWEST YEAR	63 1964	AVG. LOW 72 LOWEST YEAR	72 1966	AVG. LOW 72 LOWEST YEAR	72 1966
AVERAGE MONTHLY TEMPERATURE 92.8°      AVERAGE MONTHLY WIND SPEED 6.8 KNOTS AVERAGE MINIMUM TEMPERATURE 69.0°      PREVAILING WIND DIRECTION WEST RECORD MAXIMUM TEMPERATURE 106°      AVERAGE MONTHLY RAINFALL 0.84 INCH RECORD MINIMUM TEMPERATURE 50°      AVERAGE MONTHLY SNOWFALL 0 INCH AVERAGE RELATIVE HUMIDITY 27%      AVERAGE MONTHLY CLOUDINESS 30% GREATEST MONTHLY RAINFALL 7.42 IN., YEAR 1966 GREATEST 24-HOUR RAINFALL 2.40 IN., YEAR 1966, DATE 29th											

"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	94 103 1973	AVG. HIGH HIGHEST YEAR	94 106 1960	AVG. HIGH HIGHEST YEAR	94 105 1960	AVG. HIGH HIGHEST YEAR	94 103 1966	AVG. HIGH HIGHEST YEAR	94 101 1973	AVG. HIGH HIGHEST YEAR	93 105 1973	AVG. HIGH HIGHEST YEAR	93 104 1951
AVG. LOW LOWEST YEAR	71 62 1970	AVG. LOW LOWEST YEAR	71 63 1971	AVG. LOW LOWEST YEAR	71 64 1971	AVG. LOW LOWEST YEAR	71 62 1968	AVG. LOW LOWEST YEAR	71 60 1968	AVG. LOW LOWEST YEAR	71 62 1968	AVG. LOW LOWEST YEAR	71 64 1960
AVG. HIGH HIGHEST YEAR	93 106 1951	AVG. HIGH HIGHEST YEAR	93 104 1951	AVG. HIGH HIGHEST YEAR	93 105 1951	AVG. HIGH HIGHEST YEAR	93 104 1958	AVG. HIGH HIGHEST YEAR	93 102 1970	AVG. HIGH HIGHEST YEAR	93 101 1963	AVG. HIGH HIGHEST YEAR	93 104 1958
AVG. LOW LOWEST YEAR	71 61 1952	AVG. LOW LOWEST YEAR	71 59 1952	AVG. LOW LOWEST YEAR	71 63 1969	AVG. LOW LOWEST YEAR	71 65 1962	AVG. LOW LOWEST YEAR	71 62 1959	AVG. LOW LOWEST YEAR	71 60 1974	AVG. LOW LOWEST YEAR	71 61 1974
AVG. HIGH HIGHEST YEAR	94 104 1963	AVG. HIGH HIGHEST YEAR	94 101 1963	AVG. HIGH HIGHEST YEAR	94 100 1963	AVG. HIGH HIGHEST YEAR	94 99 1963	AVG. HIGH HIGHEST YEAR	94 101 1951	AVG. HIGH HIGHEST YEAR	94 101 1961	AVG. HIGH HIGHEST YEAR	93 99 1952
AVG. LOW LOWEST YEAR	71 62 1973	AVG. LOW LOWEST YEAR	71 63 1975	AVG. LOW LOWEST YEAR	71 62 1973	AVG. LOW LOWEST YEAR	70 65 1973	AVG. LOW LOWEST YEAR	70 63 1973	AVG. LOW LOWEST YEAR	70 63 1955	AVG. LOW LOWEST YEAR	70 62 1955
AVG. HIGH HIGHEST YEAR	93 100 1966	AVG. HIGH HIGHEST YEAR	93 102 1963	AVG. HIGH HIGHEST YEAR	93 105 1963	AVG. HIGH HIGHEST YEAR	93 101 1963	AVG. HIGH HIGHEST YEAR	92 101 1974	AVG. HIGH HIGHEST YEAR	92 102 1954	AVG. HIGH HIGHEST YEAR	92 102 1954
AVG. LOW LOWEST YEAR	70 62 1950	AVG. LOW LOWEST YEAR	70 61 1955	AVG. LOW LOWEST YEAR	70 64 1976	AVG. LOW LOWEST YEAR	70 62 1973	AVG. LOW LOWEST YEAR	70 62 1950	AVG. LOW LOWEST YEAR	70 62 1962	AVG. LOW LOWEST YEAR	70 63 1973
AVG. HIGH HIGHEST YEAR	92 100 1960	AVG. HIGH HIGHEST YEAR	92 100 1969	AVG. HIGH HIGHEST YEAR	92 107 1972	AVG. HIGH HIGHEST YEAR	92 107 1972	AVG. HIGH HIGHEST YEAR	92 101 1974	AVG. HIGH HIGHEST YEAR	92 102 1954	AVG. HIGH HIGHEST YEAR	92 102 1954
AVG. LOW LOWEST YEAR	70 63 1974	AVG. LOW LOWEST YEAR	70 62 1974	AVG. LOW LOWEST YEAR	70 63 1968	AVG. LOW LOWEST YEAR	70 63 1968	AVG. LOW LOWEST YEAR	70 62 1962	AVG. LOW LOWEST YEAR	70 62 1962	AVG. LOW LOWEST YEAR	70 63 1973
AVG. WIND SPEED 4.9 KNOTS PREVAILING WIND DIR. SE AVERAGE RAINFALL 2.22 IN. AVERAGE SNOWFALL 0.0 IN. AVERAGE CLOUDINESS 47 %													
ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION: _____ IN., YEAR 1962 GREATEST 24-HOUR RAINFALL 2.50 IN., YEAR 1973, DATE 14-15													

CUMULATIVE PRECIP THROUGH JULY 5.11 IN











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

D E C E M B E R

1		2		3		4		5		6		7	
AVG. HIGH	59	AVG. HIGH	59	AVG. HIGH	59	AVG. HIGH	58	AVG. HIGH	58	AVG. HIGH	58	AVG. HIGH	57
HIGHEST	73	HIGHEST	71	HIGHEST	71	HIGHEST	77	HIGHEST	73	HIGHEST	68	HIGHEST	70
YEAR	1961	YEAR	1970	YEAR	1954	YEAR	1958	YEAR	1958	YEAR	1966	YEAR	1954
AVG. LOW	38	AVG. LOW	38	AVG. LOW	37	AVG. LOW	37	AVG. LOW	36	AVG. LOW	36	AVG. LOW	36
LOWEST	17	LOWEST	24	LOWEST	24	LOWEST	28	LOWEST	24	LOWEST	19	LOWEST	24
YEAR	1976	YEAR	1976	YEAR	1976	YEAR	1976	YEAR	1952	YEAR	1950	YEAR	1953
AVG. HIGH	57	AVG. HIGH	57	AVG. HIGH	56	AVG. HIGH	56	AVG. HIGH	56	AVG. HIGH	55	AVG. HIGH	55
HIGHEST	70	HIGHEST	73	HIGHEST	65	HIGHEST	72	HIGHEST	70	HIGHEST	71	HIGHEST	70
YEAR	1970	YEAR	1950	YEAR	1958	YEAR	1950	YEAR	1973	YEAR	1973	YEAR	1950
AVG. LOW	36	AVG. LOW	36	AVG. LOW	35	AVG. LOW	35	AVG. LOW	35	AVG. LOW	34	AVG. LOW	34
LOWEST	25	LOWEST	21	LOWEST	20	LOWEST	20	LOWEST	22	LOWEST	24	LOWEST	21
YEAR	1968	YEAR	1953	YEAR	1951	YEAR	1960	YEAR	1953	YEAR	1966	YEAR	1964
AVG. HIGH	55	AVG. HIGH	55	AVG. HIGH	55	AVG. HIGH	55	AVG. HIGH	55	AVG. HIGH	55	AVG. HIGH	55
HIGHEST	67	HIGHEST	66	HIGHEST	67	HIGHEST	65	HIGHEST	64	HIGHEST	69	HIGHEST	67
YEAR	1950	YEAR	1969	YEAR	1970	YEAR	1969	YEAR	1969	YEAR	1969	YEAR	1969
AVG. LOW	34	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33
LOWEST	22	LOWEST	26	LOWEST	22	LOWEST	24	LOWEST	26	LOWEST	17	LOWEST	21
YEAR	1967	YEAR	1963	YEAR	1971	YEAR	1964	YEAR	1968	YEAR	1973	YEAR	1973
AVG. HIGH	55	AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	54
HIGHEST	69	HIGHEST	71	HIGHEST	71	HIGHEST	70	HIGHEST	70	HIGHEST	69	HIGHEST	70
YEAR	1969	YEAR	1955	YEAR	1955	YEAR	1971	YEAR	1971	YEAR	1955	YEAR	1955
AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33
LOWEST	22	LOWEST	17	LOWEST	8	LOWEST	20	LOWEST	21	LOWEST	24	LOWEST	22
YEAR	1967	YEAR	1953	YEAR	1953	YEAR	1953	YEAR	1953	YEAR	1953	YEAR	1966
AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	54	AVG. HIGH	56.5	AVG. HIGH	56.5	AVG. HIGH	56.5
HIGHEST	69	HIGHEST	73	HIGHEST	66	HIGHEST	66	HIGHEST	34.6	HIGHEST	34.6	HIGHEST	34.6
YEAR	1955	YEAR	1951	YEAR	1964	YEAR	1964	YEAR	77	YEAR	77	YEAR	77
AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	33	AVG. LOW	8	AVG. LOW	8	AVG. LOW	8
LOWEST	18	LOWEST	18	LOWEST	31	LOWEST	31	LOWEST	47	LOWEST	47	LOWEST	47
YEAR	1966	YEAR	1966	YEAR	1958	YEAR	1958	YEAR	47	YEAR	47	YEAR	47
AVG. WIND SPEED 5.4 KNOTS PREVAILING WIND DIR. WEST AVERAGE RAINFALL 0.74 IN. AVERAGE SNOWFALL 2.4 IN. AVERAGE CLOUDINESS 37 %													
GREATEST MONTHLY RAINFALL 2.43 IN., YEAR 1965 GREATEST 24-HOUR RAINFALL 1.02 IN., YEAR 1967, DATE 14-15													

CUMULATIVE PRECIP THROUGH DECEMBER 10.77 IN (YEARLY AMOUNT)  
 ANNUAL AVERAGE SNOWFALL 6.8 IN

M O N T H	1948-1976										1950-1976										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	THUNDER- STORMS	PRECIPITATION	VISI- BILITY	WINDY DAYS	WINDY BASE 65°F	SINGLE STORM	MONTHLY								
JAN	25.770	26.240	25.160	54	42	38	47	45	4	5	3	1	1	2	1	600	5.5	5.5	332			
FEB	25.733	26.185	25.180	49	36	29	40	39	*	5	3	2	2	2	2	454	8.6	8.6	410			
MAR	25.671	26.180	25.180	41	28	22	33	31	1	6	4	2	1	4	4	321	3.5	3.5	508			
APR	25.666	26.160	25.190	35	23	17	27	26	1	4	2	1	1	4	4	94	T	T	624			
MAY	25.674	26.120	25.290	34	21	16	25	24	4	2	2	1	1	2	2	16	0	0	679			
JUN	25.670	26.070	25.310	38	23	18	28	27	6	4	7	3	2	3	3	0	0	0	692			
JUL	25.755	26.050	25.470	58	36	31	46	43	13	8	15	8	4	1	3	0	0	0	632			
AUG	25.793	26.010	25.510	59	37	31	45	43	11	7	14	8	4	1	1	0	0	0	584			
SEP	25.785	26.050	25.410	56	36	30	45	42	5	6	8	5	3	1	1	4	0	0	538			
OCT	25.799	26.220	25.300	51	33	29	42	39	2	2	5	3	3	1	1	75	.6	.6	485			
NOV	25.800	26.240	25.290	51	34	34	44	41	=	1	4	2	1	1	1	363	10.6	10.6	340			
DEC	25.799	26.285	25.200	56	42	38	49	46	=	*	6	4	2	3	*	601	14.0	14.9	331			
YEAR	25.743	26.285	25.160	49	33	28	39	37	43	32	84	47	26	14	23	2528	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.      L 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

BEST AVAILABLE COPY

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	107	98	107
Date	2/11/57	5/28/51	7/31/72	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 102	W, WSW 74	S 60	W 61	SW 82
Month and Year	2/77	3/51, 5/61	6/62	11/65	12/51
RAINFALL (Inches) Ø	1.82	.96	5.01	3.00	10.79
Percent of Annual	19%	9%	46%	26%	100%
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)	5.3	.4	0.0	0.8	6.5
Greatest Monthly	14.9	3.5	0.0	10.6	14.9
Month and Year	12/67	3/58	- - -	11/76	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 ≤ 6 Miles	10	11	9	6	36
Ø 0.01" or more					
STATION PRESSURE					
Average (Inches of Hg)	25.756	25.670	25.731	25.763	25.730
<p>WINTER = Months of December, January, February.          SPRING = March, April, May. SUMMER = June, July, August.          FALL = September, October, November.</p> <p>** With Prevailing Wind Directions. To convert knots to miles per hour, multiply knots by 1.15155.</p> <p>Ø "Rainfall" includes water content of snowfall.</p>					

TABLE V. "A" STATION CLIMATOGRAPHY--SEASONAL VALUES, 1950-1977

TABLE VI.  
MONTHLY AND ANNUAL TEMPERATURE MEANS AND EXTREMES (°FAHRENHEIT) AT SEVEN WSMR SITES

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>STALLION SITE</b> Elevation 4,940 FT MSL                      Period of Record 1962-1973													
Mean Max	51	56	63	72	82	90	92	89	82	74	61	51	72
Mean Min	21	26	31	39	48	57	64	61	50	43	32	23	41
Abs Max	72	77	85	93	97	101	104	101	95	90	79	71	104
Abs Min	-12	2	6	17	30	40	54	47	35	20	14	2	-12
<b>WSD* SITE</b> Elevation 3,989 FT MSL                      Period of Record 1960-1973													
Mean Max	57	61	69	78	87	94	95	92	87	78	66	57	77
Mean Min	25	29	36	46	53	62	67	64	58	45	33	27	45
Abs Max	78	81	89	97	100	108	108	104	99	94	83	75	108
Abs Min	-14	5	6	19	26	41	57	51	37	22	12	5	-14
<b>JALLEN SITE</b> Elevation 4,051 FT MSL                      Period of Record 1963-1973													
Mean Max	55	59	67	76	86	92	95	91	85	77	64	56	75
Mean Min	25	29	35	44	52	61	67	65	57	46	34	27	45
Abs Max	76	81	89	98	98	108	106	106	98	92	84	76	108
Abs Min	-2	5	7	22	30	43	58	50	37	28	16	7	-2
<b>APACHE SITE</b> Elevation 3,956 FT MSL                      Period of Record 1963-1973													
Mean Max	51	60	68	77	86	92	95	92	86	79	65	56	76
Mean Min	24	27	35	44	52	61	66	63	57	44	33	26	44
Abs Max	78	80	89	97	100	108	107	103	99	93	82	75	108
Abs Min	-2	7	7	20	28	42	59	53	37	21	13	2	-2
<b>"A" SITE</b> Elevation 4,238 FT MSL                      Period of Record 1950-1973													
Mean Max	56	60	66	75	84	93	93	91	86	76	64	56	75
Mean Min	34	38	43	52	60	69	70	69	63	53	41	35	52
Abs Max	76	81	86	94	103	106	107	103	98	92	84	77	107
Abs Min	-6	8	16	29	38	50	59	55	46	33	22	8	-6
<b>HMN* SITE [14]</b> Elevation 4,090 FT MSL                      Period of Record 1942-1973													
Mean Max	55	60	66	76	85	94	94	93	87	77	64	56	75
Mean Min	27	31	37	45	54	63	68	66	59	48	34	28	47
Abs Max	79	80	87	96	103	107	107	106	103	93	81	75	107
Abs Min	-11	0	9	22	27	42	54	53	38	24	12	2	-11
<b>SMR* SITE</b> Elevation 3,999 FT MSL                      Period of Record 1963-1973													
Mean Max	56	60	68	77	86	93	95	91	86	77	65	56	76
Mean Min	27	31	39	48	56	64	68	65	60	47	37	29	48
Abs Max	78	83	87	96	100	106	108	103	98	93	82	74	108
Abs Min	4	7	9	22	32	42	59	57	42	23	16	6	4

\*White Sands Desert  
\*Holloman

\*Small Missile Range

TABLE VII.

## MONTHLY AND ANNUAL MEAN PRECIPITATION (INCHES) AT SEVEN WSMR SITES

Site	Stallion	White Sands Desert	Jallen	"A"	Holloman* [14]	Small Missile Range	Apache
Elevation	4,940	3,989	4,051	4,238	4,070	3,999	3,956
Period of Record	1963-73	1963-73	1966-73	1950-73	1942-73	1964-73	1964-73
Jan	0.12	0.29	0.26	0.48	0.41	0.29	0.29
Feb	0.19	0.40	0.34	0.57	0.40	0.39	0.18
Mar	0.29	0.25	0.14	0.52	0.53	0.26	0.17
Apr	0.10	0.14	0.07	0.22	0.12	0.13	0.12
May	0.30	0.15	0.37	0.23	0.30	0.16	0.15
Jun	0.97	1.39	0.77	0.89	0.98	1.04	0.96
Jul	1.71	1.94	1.82	2.29	1.86	1.89	1.35
Aug	2.13	2.06	1.50	1.86	1.95	2.48	2.13
Sep	1.27	1.39	1.07	1.29	1.32	1.15	1.21
Oct	0.96	0.75	0.98	1.06	1.04	0.77	0.63
Nov	0.25	0.37	0.44	0.42	0.34	0.35	0.35
Dec	0.52	0.47	0.55	0.76	0.62	0.64	0.58
Annual	8.80	10.20	8.27	10.59	8.76	9.55	7.87

\*Precipitation records from Holloman Air Force Base were used for the period 1942-64; records from Holloman Rawinsonde Site were used for the years 1965-73.

YEAR	ANNUAL MEAN TEMP F°	MEAN MAX TEMP F°	HIGHEST MAX TEMP F°	MEAN MIN TEMP F°	LOWEST MIN TEMP F°	GROWING SEASON IN DAYS	AVERAGE STATION PRESSURE IN INCHES	HIGHEST PRESSURE IN INCHES	LOWEST PRESSURE IN INCHES
1950	65.8	78.0	103	53.6	19	268			
1951	64.8	76.5	106	53.0	8	234			
1952	63.7	74.6	100	52.7	23	241			
1953	64.3	75.4	102	53.2	8	260			
1954	65.5	76.5	102	54.4	19	273			
1955	63.1	73.9	101	52.3	21	226			
1956	64.4	75.8	101	53.0	13	248			
1957	64.5	74.4	104	54.5	25	241			
1958	63.4	73.8	104	53.0	21	250			
1959	63.9	75.0	99	52.8	25	239			
1960	63.3	74.2	106	52.3	14	247			
1961	63.6	74.9	102	52.3	26	240	25.708	26.160	25.290
1962	64.0	75.5	100	52.2	-6	270	25.738	26.240	25.285
1963	64.2	76.1	105	52.3	8	266	25.739	26.225	25.330
1964	62.6	74.2	103	50.9	13	256	25.711	26.165	25.190
1965	63.7	75.4	100	51.9	16	254	25.724	26.130	25.210
1966	62.7	74.6	102	50.8	13	267	25.736	26.090	25.290
1967	63.3	75.1	100	51.6	14	241	25.746	26.285	25.240
1968	62.4	74.0	105	50.8	18	249	25.743	26.220	25.250
1969	64.1	75.8	103	52.4	22	241	25.704	26.280	25.235
1970	63.2	74.9	103	51.3	16	232	25.736	26.190	25.315
1971	65.5	74.9	100	52.1	9	259	25.707	26.190	25.160
1972	64.4	75.5	107	52.0	15	236	25.7194	26.240	25.295
1973	62.3	74.5	100	49.8	17	232	25.7322	26.190	25.305
1974	63.4	75.2	103	51.8	15	272	25.7597	26.185	25.330
1975	61.9	74.6	100	50.0	20	228	25.7568	26.240	25.021
1976	61.6	74.0	101	50.0	5	252	25.7618	26.155	25.420

TABLE VIII. YEARLY VALUES "A" STATION

NUMBER OF DEGREE DAYS BASE 65°F	NUMBER OF PRECIP DAYS TRACE OR MORE	ANNUAL RAINFALL INCHES	ANNUAL SNOWFALL INCHES	MAXIMUM WIND GUSTS IN KNOTS	AVERAGE YEARLY WIND SPEED KNOTS	AVERAGE 24-HOUR CLOUD COVER TENTHS	NUMBER OF DAYS WITH THUNDERSTORMS	NUMBER OF DAYS VISBY LESS THAN 6 MILES
1861	80	6.41	+	35	6.4		25	40
2584	88	7.08	8.8	82	7.6		31	44
2643	100	9.32	9.3	56	6.5		49	45
2457	63	5.30	1.8	68	5.8		15	27
2182	79	5.91	0.5	65	6.0		43	69
2561	71	9.27	0.9	66	5.9		31	62
2619	36	3.92	1.2	64	6.4		19	30
2320	70	10.37	1.8	66	5.9		24	30
2785	101	20.02	9.3	66	5.2		37	45
2492	68	11.45	3.7	70	5.2		38	29
2784	67	11.25	18.5	68	6.2	4	31	33
2573	91	12.62	6.2	74	6.4	4	37	46
2440	103	14.07	4.9	62	5.4	4	44	27
2489	99	7.65	6.0	61	5.5	4	49	29
2972	70	9.22	5.2	67	6.4	3	38	30
2375	103	12.40	0.5	63	6.0	4	52	25
2704	102	16.63	2.9	61	5.4	4	59	30
2429	106	10.12	15.4	73	7.2	4	57	37
2718	105	12.99	16.4	67	6.3	4	41	45
2522	90	13.53	6.3	63	6.2	4	46	23
2613	58	8.41	2.4	61	6.5	4	37	16
2503	85	8.75	7.6	71	6.7	4	39	27
2369	108	16.19	11.6	79	6.1	4	65	30
2812	88	11.38	11.6	78	6.4	3	38	20
2499	106	15.76	9.0	71	6.2	4	57	12
2785	90	9.12	5.9	50	6.6	3	38	11
2858	102	11.44	15.9	65	6.0	4	48	27

TABLE VIII. YEARLY VALUES "A" STATION (CONT)