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CLIMATE CALENDAR
WHITE SANDS MISSILE RANGE
1950-1993

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WHITE SANDS NATIONAL MONUMENT	
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compiled and edited
by
Dennis A. Eschrich
May 1994

FOREWORD

This report is a revision of Data Report 948, originally published in 1977. It updates the original data to cover the period through December 31, 1993.

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ABSTRACT

This is the 12th 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 (1950-1993) are tabulated for the Forecast Section at White Sands Missile Range, New Mexico. Averages of temperatures, precipitation, thunderstorm days, winds, clouds and other meteorological data are included.

Supplementary tables give monthly and annual values of maximum winds, means of station pressure, snowfall, and visibility restrictions.

STATION HISTORY

1. January 1, 1950 to May 3, 1978
"A-Station" at Post Headquarters, Building 1510
Latitude: 32d 23' N Longitude: 106d 29' W
Elevation: 4251 feet
2. May 4, 1978 to December 20, 1979
"Golfball Site", Building 21610
Latitude: 32d 22' N Longitude: 106d 24' W
Elevation: 3925 feet
3. December 21, 1979 to Present
"C-Station", Building 21925
Latitude: 32d 21' N Longitude: 106d 22' W
Elevation: 4016 feet

Data presented here most assuredly represents the climatology of White Sands Missile Range and in particular the southern part. However, elevation changes, proximity to the mountains, local effects and the uniqueness of each station do cause differences in many of the observed weather parameters. This must be considered when comparing the two major databases (A-Station and C-Station) used in this publication. Assumptions concerning long-term climate change cannot be made without giving consideration to the changes in site location.

From March 23, 1956 to April 16, 1961 "A-Station" was closed during the weekends. In addition, for some of that time span the station was operational from 0000-1700 local time. Temperatures were recorded on a thermograph, however precipitation records may not be as accurate during those years. In some cases it has been noted that rainfall amounts were averaged using several local stations. It should also be noted that data for thunderstorms, precipitation days, and probability of precipitation may be biased toward lower values due to weather events that occurred while the station was closed. From April 17, 1961 to March 27 1993, observation coverage was continuous, 24 hours a day for all days with the exception of Christmas Day, when the station was closed a few times.

Starting on March 28, 1993, the main weather facility at "C-Station" began an 0400-2000 local time schedule, seven days a week. Frequency of some weather events may be biased toward lower values because of this.

EDITOR'S NOTE

Many of the databases in this publication cite 14 year averages from 1980-1993, and list 44 year extreme values recorded since 1950. Exceptions to this format, when they occur, are noted at the top of each page.

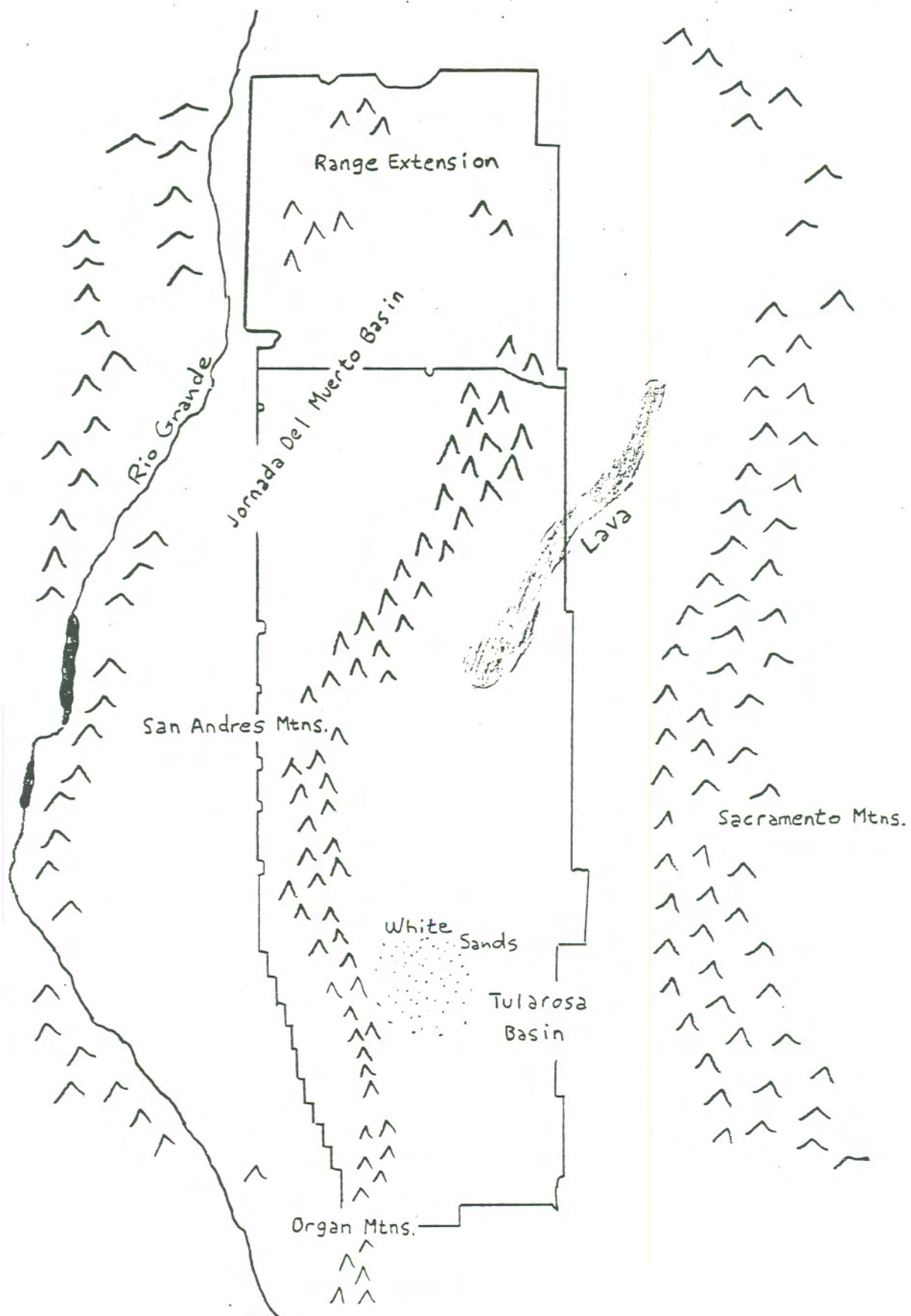
TOPOGRAPHY.

The weather conditions encountered on the Missile Range can significantly affect the operation and success of many projects.

The Tularosa Basin lies in southcentral New Mexico and extends southward a short distance into Texas, with a major north-south axis. The basin is approximately 140 miles long and 40 miles wide with a slight upslope from south to north. The floor of the basin is relatively flat. Mountains surrounding the area are principally tilted sedimentary ranges, but granitic upthrusts form the Organ Mountains to the west of the Missile Range. In addition to the Organs, the San Andres and Franklin Mountains lie to the west of the basin. The eastern limits of the basin are outlined by the Sacramento, Sierra Blanca, and Hueco Mountains. The basin is bounded on the north by the Oscura Mountains. The average elevations of the mountains bordering the range vary from approximately 5,500 to 9,000 feet MSL, with Sierra Blanca Peak north of Ruidoso reaching a height of 12,003 feet above sea level. There is one small range in the basin, the Jarilla Mountains, near Orogrande, which is about 10 miles long with a maximum elevation of 5,301 feet MSL. The elevation of the basin floor is 3,900 feet in the vicinity of El Paso, and is generally about 4,000 feet MSL from the southern border of the range northward to the foothills of the Sierra Oscura Mountains. About 75% of the Missile Range lies in the Tularosa Basin, but the northwest corner is in the Jornada Del Muerto Basin. Its topography is very similar to the Tularosa Basin. The lowest elevation on the Missile Range is 3,886 feet MSL at Lake Lucero, which is located near the White Sands National Monument.

The most unique feature of the Tularosa Basin is the presence, in its central portion, of extensive deposits of gypsum, derived from the wind erosion of selenite crystals which formed in a lake bed as that body of water evaporated over a period of perhaps several millenia. The predominant character of the soil in the remainder of the basin is sandy, but in the northern part of the basin there is an extensive lava flow. At lower elevations vegetation consists mainly of mesquite, greasewood, scrub oak, yucca, cactus, many sparse grasses and small desert herbs; above 7,000 feet MSL, rainfall is sufficient to support considerable growth of juniper, pines and fir.

The basin has an arid climate with annual rainfall averaging near 12.9 inches (32.8 cm) and a mean annual temperature of about 62 degrees F (17 C). Considerable runoff occurs from the nearby mountains during infrequent but prolonged wet spells, occasionally producing intermittent ponds and lakes which may persist for several months.



CLIMATOLOGICAL SUMMARY FOR WHITE SANDS MISSILE RANGE

Climate of the region is characterized by the abundance of sunshine throughout the year, relatively low humidity, modest rainfall, and a relatively mild winter season typical of arid areas at low latitudes.

Rainfall through the year is light, insufficient for any growth except desert vegetation. The average rainfall at WSMR is around 12 inches, however it varies across the range with highest amounts on or near the mountains. Dry periods of several months duration without appreciable rainfall are not unusual. Almost half of the precipitation occurs in the three month period July to September, from brief, but at times heavy thunderstorms. Small amounts of snow fall each winter, but snow cover rarely amounts to more than a few inches and seldom remains on the ground for more than a few days. Average snowfall at WSMR is about twelve inches with much higher amounts in the nearby mountains. Temperatures have reached extreme highs of over 110 degrees on a few occasions. The highest temperature in the area was 116 degrees recorded at Orogrande, New Mexico, just to the south of the range. The coldest temperature ever at WSMR was -25 degrees Fahrenheit at the White Sands National Monument on January 11, 1962. Severe weather is rare on the Missile Range, although there have been reports of tornadoes on a few occasions. One tornado, in September, 1966, caused minor damage in the central areas of WSMR. Hail is more frequent at WSMR, with an average of about one hail event each year on the range. The largest hail stones at WSMR have been about 1 3/4", however most hail that does fall tends to be less than 1/2" in diameter. The average hail storm lasts about eight minutes and about 66% of hail storms at WSMR fall during the months of June, July, and August in which thunderstorms are most common.

Winter daytime temperatures are mild, rising to 55-60 degrees on the average. At night they often drop below freezing, especially on the desert floor during times of clear skies and light winds. Records indicate that temperatures at Post Headquarters, all year round, are several degrees warmer at night than the lower elevations of the basin. The mean annual minimum at Post during the winter months is 36 degrees Fahrenheit, while the mean maximum temperature is about 57 degrees. During the winter months the two dominant type of air masses are modified Maritime Polar and modified Continental Arctic. The modified Maritime Polar systems occasionally bring precipitation to the region and usually bring pleasant temperatures to WSMR. The modified Continental Arctic systems bring WSMR its coldest temperatures as they spread down the Great Plains and then enter the Tularosa Basin from the northeast-southeast in a "backdoor" fashion. If this type of airmass is overridden with a moist southwesterly flow, heavy snowfall may occur. However on most occasions only cold temperatures and haze are observed.

The period from March through early May is characterized by a strong westerly wind flow and periods of blowing dust and sand. Since the soil surface is dry and loose and vegetation is sparse, the winds tend to raise considerable dust and sand. Duststorms are most frequent during the spring months of March and April and are

relatively rare in other seasons. With the typically strong westerly winds during this time frame, little moisture is available from the Gulf of Mexico or Pacific, thus spring is often the driest time of the year at WSMR.

The period from late May until September is the warmest time of the year with the major portion of the region's precipitation occurring during the summer "monsoon" season during July-September. The hottest temperatures of the year often occur during the later part of June, while relatively dry with strong surface heating. Temperatures often exceed 100 degrees in the final two weeks of June. However, around the 4th of July (usually during the local fireworks display) the summer "monsoon" begins. During the summer months, the principle air masses affecting the Missile Range are Mild Continental and Maritime Tropical. It is the Maritime Tropical airmass that is responsible for advecting moisture from the Gulf of Mexico northwestward up the Rio Grande Valley into the Tularosa Basin. The "monsoon" season is characterized by cooler temperatures than in June due to the influx of moisture and local heavy rainfall from mainly afternoon and evening thunderstorms.

In most years the "monsoon" season is over by October and this often ushers in the most pleasant weather of the year to the region. October and November represent the most favorable weather for operational purposes at WSMR. Temperatures are moderate and the air often dry due to the lack of gulf moisture. Overall, precipitation is infrequent and winds light. On rare occasions, however, tropical storms or hurricanes in the eastern pacific will move across northern Mexico and bring one or two days of heavy rainfall to the area.

It should be noted that the mountains that surround WSMR often influence the local weather. The San Andres Mountains to the west of the Missile Range rise to 9,000 feet above sea level. They add noticeably to the gustiness of the winds during periods of high velocities, and cause changes in direction during periods of light winds. In addition, snowfall and rainfall amounts tend to be much higher in the mountains near the Missile Range.

CLIMATE AT A GLANCE FOR RECENT YEARS, 1980-1993
 "C" STATION, WHITE SANDS MISSILE RANGE, NM
 ELEVATION 4016 FEET, 32.35 N LATITUDE, 106.37 W LONGITUDE

TEMPERATURES (F)	JAN	FEB	MAR	APR	MAY	JUN
AVERAGE MINIMUM	27	32	38	45	54	61
AVERAGE MAXIMUM	57	63	70	79	86	96
MEAN MONTHLY	42	47	54	62	70	79
EXTREME MAXIMUM	75	84	89	96	102	110
YEAR	1980	1986	1989	1989	1984	1981
EXTREME MINIMUM	7	8	17	23	35	41
YEAR	1985	1985	1988	1980	1982	1988
AVG. DEGREE DAYS	709	489	342	127	18	0
AVG. DAY SKY COVER PERCENT	51	51	44	43	40	37
AVG 24 HR. SKY CVR PERCENT	45	45	39	37	35	37
AVG. NO. OF PRECIP. DAYS (TRACE OR MORE)	8	7	6	5	7	8
DAILY PROBABILITY OF PRECIP. (TRACE OR MORE), PERCENT**	21	19	18	14	17	26
44 YEAR AVERAGES '50-'93						
THUNDERSTORM DAYS	1	1	1	2	5	7
DAYS WITH VISIBILITY 6 MILES OR LESS	4	2	2	2	1	1
DAYS WITH CEILING 3000 FT. AGL OR LESS (**THREE YEAR VALUES, 1991-1993**)	9	2	0	0	1	0
AVG. PRESSURE INCHES FOR 4016 FEET MSL	26.007	25.966	25.894	25.888	25.870	25.885
RELATIVE HUMIDITY %						
0500 MTN STD. TIME	71	62	51	45	48	51
1100 MTN STD. TIME	46	38	30	24	24	26
1700 MTN STD. TIME	41	30	23	19	18	20
2300 MTN STD. TIME	62	50	38	33	34	35
AVG. ALL HOURS	55	45	35	30	31	33
PRECIPITATION, INCHES						
AVERAGE (WATER EQUIVALENT)	.75	.62	.31	.46	.64	.85
PERCENT OF ANNUAL	6	5	2	4	5	7
MAX MONTHLY	1.75	2.07	.78	1.27	2.83	3.36
YEAR	1993	1988	1989	1981	1992	1986
MIN MONTHLY	.08	.00	TRACE	TRACE	.04	TRACE
YEAR	1986	1984	1982	1991	1988	1980
SNOWFALL, INCHES						
AVERAGE	2.8	2.4	0.5	1.2	0	0
MAX MONTHLY	15.6	15.7	3.1	10.9	-	-
YEAR	1985	1988	1987	1983	-	-
AVG. WIND SPEEDS IN KNOTS	3.5	4.5	6.1	6.0	5.6	4.6
PREVAILING DIRECTION	S	S	W	W	W	S
PEAK GUST/DIRECTION	46/SW	52/SW	60/SW	60/W	49/SW	45/W
YEAR OF PEAK	1982	1987	1991	1984	1988	1988

CLIMATE AT A GLANCE FOR RECENT YEARS, 1980-1993
 "C" STATION, WHITE SANDS MISSILE RANGE, NM
 ELEVATION 4016 FEET, 32.35 N LATITUDE, 106.37 W LONGITUDE

TEMPERATURES (F)	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
AVERAGE MINIMUM	66	64	57	45	33	27	46
AVERAGE MAXIMUM	96	92	87	78	66	57	77
MEAN MONTHLY	81	78	72	62	50	42	62
EXTREME MAXIMUM	108	106	102	92	87	77	110
YEAR	1989	1980	1983	1993	1988	1987	1981
EXTREME MINIMUM	56	52	40	22	12	-10	-10
YEAR	1991	1990	1989	1989	1992	1987	1987
AVG. DEGREE DAYS	0	0	8	135	459	706	2993
AVG. DAY SKY COVER PERCENT	52	55	42	43	40	48	45
AVG 24 HR. SKY CVR PERCENT	51	55	41	33	34	43	41
AVG. NO. OF PRECIP. DAYS (TRACE OR MORE)	15	17	11	6	5	7	100
DAILY PROBABILITY OF PRECIP. (TRACE OR MORE), PERCENT**	48	47	31	19	16	21	25
44 YEAR AVERAGES '50-'93							
THUNDERSTORM DAYS	13	15	7	2	1	1	54
DAYS WITH VISIBILITY 6 MILES OR LESS	1	3	2	2	2	5	27
DAYS WITH CEILING 3000 FT. AGL OR LESS (**THREE YEAR VALUES, 1991-1993**)	1	1	3	1	2	7	28
AVG. PRESSURE INCHES FOR 4016 FEET MSL	25.964	25.982	25.985	25.996	25.983	26.088	25.952
RELATIVE HUMIDITY %							
0500 MTN STD. TIME	67	75	71	68	64	71	
1100 MTN STD. TIME	36	43	42	39	36	47	
1700 MTN STD. TIME	32	37	35	33	35	44	
2300 MTN STD. TIME	51	61	57	55	53	63	
AVG. ALL HOURS	47	54	51	49	47	56	44
PRECIPITATION, INCHES							
AVERAGE (WATER EQUIVALENT)	1.50	2.92	1.80	1.02	.58	1.46	12.91
PERCENT OF ANNUAL	12	23	14	8	4	11	
MAX MONTHLY	3.73	6.59	4.46	3.96	2.74	4.68	
YEAR	1988	1988	1980	1984	1986	1991	
MIN MONTHLY	.19	.89	.04	.12	.03	TRACE	
YEAR	1981	1982	1993	1982	1989	1981	
SNOWFALL, INCHES							
AVERAGE	0	0	0	0.2	0.5	4.9	12.5
MAX MONTHLY/ANNUAL	-	-	-	2.5	3.0	27.7	40.3
YEAR	-	-	-	1993	1990	1987	1987
WIND, SPEEDS IN KNOTS	4.2	3.5	3.2	3.2	3.9	3.2	4.3
PREVAILING DIRECTION	S	S	S	S	S	N	S
PEAK GUST/DIRECTION	42/N	45/S	56/SW	41/W	60/W	55/W	60/SW
YEAR OF PEAK	1980	1982	1985	1980	1988	1993	1991

WEATHER EXTREMES AT WSMR WEATHER STATION

TEMPERATURE EXTREMES

Highest Temperature	112	July 12, 1979
Lowest Temperature	-10	December 15, 1987

PRECIPITATION EXTREMES

Most Precipitation 24 Hours	4.25"	August 23-24, 1959
Most Precipitation 1 Month	7.42"	June 1966
Most Precipitation 1 Year	20.02"	1958
Least Precipitation 1 Year	3.92"	1956
Greatest Number of Consecutive Dry Days (trace or less)	123 days	Feb 10-June 11, 1956
Greatest Number of Consecutive Wet Days (trace or more)	15 days	August 1-15, 1984
Greatest Snowfall 1 Storm	24.5"	December 13-14, 1987
Greatest Snowfall 1 Month	27.7"	December 1987
Greatest Snowfall 1 Season	43.4"	1987-1988
Greatest Snowfall 1 Year	40.3"	1987

WIND EXTREMES

Strongest Wind ever recorded at main weather observatory:

102 Knots, from the West, 22 Feb 1977 at "A" Station, Bldg. 1510

Recent Years "C" Station (Bldg. 21925) records (1980-1993):

60 Knots, Three occurrences: 26 March 1991, from the Southwest

15 November 1988, from the West

26 April 1984, from the West

Latitude 32 23 N
Longitude 106 29 W

White Sands Missile Range, New Mexico
Sunrise and Sunset

Mountain Standard Time

Nautical Almanac Office
U.S. Naval Observatory
Washington, D.C. 20392-5100

	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
1	708	1712	700	1739	634	1803	554	1826	520	1847	500	1908	502	1917	520	1904	541	1830	600	1751	623	1716	649	1700
2	708	1713	700	1740	632	1804	553	1827	519	1848	459	1909	503	1917	521	1903	541	1829	601	1750	624	1715	650	1700
3	708	1713	659	1741	631	1805	552	1827	518	1848	459	1909	503	1917	522	1902	542	1828	601	1748	625	1714	651	1700
4	708	1714	658	1742	630	1806	550	1828	517	1849	459	1910	504	1917	522	1901	543	1827	602	1747	626	1713	652	1700
5	708	1715	657	1743	629	1807	549	1829	516	1850	459	1910	504	1917	523	1900	543	1825	603	1746	626	1712	653	1700
6	708	1716	657	1744	628	1807	548	1829	515	1851	459	1911	505	1916	524	1859	544	1824	603	1744	627	1711	653	1700
7	708	1717	656	1745	626	1808	547	1830	514	1851	459	1911	505	1916	524	1858	545	1823	604	1743	628	1711	654	1701
8	708	1717	655	1746	625	1809	545	1831	513	1852	458	1912	506	1916	525	1858	545	1821	605	1742	629	1710	655	1701
9	708	1718	654	1747	624	1810	544	1831	512	1853	458	1912	506	1916	526	1857	546	1820	605	1741	630	1709	656	1701
10	708	1719	653	1747	623	1810	543	1832	512	1853	458	1913	507	1916	526	1856	546	1819	606	1739	631	1709	656	1701
11	708	1720	652	1748	621	1811	542	1833	511	1854	458	1913	507	1915	527	1855	547	1817	607	1738	632	1708	657	1701
12	708	1721	652	1749	620	1812	540	1833	510	1855	458	1913	508	1915	528	1854	548	1816	607	1737	633	1707	658	1701
13	708	1722	651	1750	619	1812	539	1834	509	1856	458	1914	508	1915	528	1853	548	1815	608	1736	634	1707	659	1702
14	708	1723	650	1751	618	1813	538	1835	509	1856	458	1914	509	1914	529	1852	549	1813	609	1735	634	1706	659	1702
15	708	1723	649	1752	616	1814	537	1836	508	1857	458	1914	510	1914	530	1850	550	1812	610	1733	635	1706	700	1702
16	707	1724	648	1753	615	1815	536	1836	507	1858	458	1915	510	1914	530	1849	550	1811	610	1732	636	1705	701	1703
17	707	1725	647	1754	614	1815	535	1837	507	1858	459	1915	511	1913	531	1848	551	1809	611	1731	637	1704	701	1703
18	707	1726	646	1754	612	1816	533	1838	506	1859	459	1915	511	1913	532	1847	551	1808	612	1730	638	1704	702	1703
19	707	1727	645	1755	611	1817	532	1838	505	1900	459	1916	512	1912	532	1846	552	1807	613	1729	639	1704	702	1704
20	706	1728	644	1756	610	1817	531	1839	505	1900	459	1916	513	1912	533	1845	553	1805	613	1728	640	1703	703	1704
21	706	1729	643	1757	609	1818	530	1840	504	1901	459	1916	513	1911	534	1844	553	1804	614	1727	641	1703	703	1705
22	706	1730	642	1758	607	1819	529	1841	504	1902	500	1916	514	1911	534	1843	554	1803	615	1725	642	1702	704	1705
23	705	1731	640	1759	606	1820	528	1841	503	1902	500	1916	514	1910	535	1841	555	1801	616	1724	642	1702	704	1706
24	705	1732	639	1759	605	1820	527	1842	503	1903	500	1917	515	1909	536	1840	555	1800	617	1723	643	1702	705	1706
25	704	1733	638	1800	603	1821	526	1843	502	1904	500	1917	516	1909	536	1839	556	1759	617	1722	644	1701	705	1707
26	704	1734	637	1801	602	1822	525	1843	502	1904	501	1917	516	1908	537	1838	557	1757	618	1721	645	1701	706	1708
27	703	1735	636	1802	601	1822	524	1844	501	1905	501	1917	517	1907	538	1837	557	1756	619	1720	646	1701	706	1708
28	703	1736	635	1803	559	1823	522	1845	501	1906	501	1917	518	1907	538	1835	558	1755	620	1719	647	1701	706	1709
29	702	1736			558	1824	521	1846	501	1906	502	1917	518	1906	539	1834	559	1753	621	1718	648	1701	707	1710
30	702	1737			557	1824	520	1846	500	1907	502	1917	519	1905	540	1833	559	1752	621	1717	649	1701	707	1710
31	701	1738			556	1825			500	1907			520	1904	540	1832			622	1717			707	1711

This table may be used in the vicinity of the stated location with less than a 2 minute error. Add one hour for daylight time if and when in use. (**** = NO PHENOMENON)

Latitude 32 23 N
Longitude 106 29 W

White Sands Missile Range, New Mexico
Beginning and End of CIVIL Twilight

Nautical Almanac Office
U.S. Naval Observatory
Washington, D.C. 20392-5100

Mountain Standard Time

	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End	Begin	End
	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
1	640	1739	635	1805	609	1828	530	1851	453	1913	432	1936	434	1945	454	1930	516	1855	535	1815	558	1741	623	1727
2	641	1740	634	1806	608	1829	528	1851	452	1914	431	1937	435	1945	454	1929	516	1854	536	1814	559	1740	623	1727
3	641	1740	633	1807	607	1830	527	1852	451	1915	431	1937	435	1945	455	1929	517	1853	537	1813	559	1739	624	1727
4	641	1741	633	1808	606	1830	526	1853	450	1915	431	1938	435	1945	456	1928	518	1851	537	1811	600	1739	625	1727
5	641	1742	632	1808	604	1831	524	1853	449	1916	431	1938	436	1945	457	1927	518	1850	538	1810	601	1738	626	1727
6	641	1743	631	1809	603	1832	523	1854	449	1917	431	1939	436	1945	457	1926	519	1849	539	1809	602	1737	627	1727
7	641	1743	630	1810	602	1833	522	1855	448	1918	430	1939	437	1944	458	1925	520	1847	539	1808	603	1736	627	1728
8	641	1744	630	1811	601	1833	521	1856	447	1919	430	1940	438	1944	459	1924	520	1846	540	1806	603	1736	628	1728
9	642	1745	629	1812	559	1834	519	1856	446	1919	430	1940	438	1944	500	1923	521	1845	541	1805	604	1735	629	1728
10	642	1746	628	1813	558	1835	518	1857	445	1920	430	1941	439	1944	500	1922	522	1843	541	1804	605	1734	629	1728
11	641	1747	627	1814	557	1835	517	1858	444	1921	430	1941	439	1943	501	1921	522	1842	542	1803	606	1734	630	1728
12	641	1747	626	1814	556	1836	515	1859	443	1922	430	1942	440	1943	502	1920	523	1841	543	1802	607	1733	631	1729
13	641	1748	625	1815	554	1837	514	1859	442	1923	430	1942	440	1943	502	1919	524	1839	543	1800	608	1733	631	1729
14	641	1749	625	1816	553	1838	513	1900	442	1923	430	1943	441	1942	503	1917	524	1838	544	1759	608	1732	632	1729
15	641	1750	624	1817	552	1838	512	1901	441	1924	430	1943	442	1942	504	1916	525	1837	545	1758	609	1732	633	1729
16	641	1751	623	1818	551	1839	510	1902	440	1925	430	1943	442	1941	505	1915	526	1835	546	1757	610	1731	633	1730
17	641	1752	622	1819	549	1840	509	1902	439	1926	430	1944	443	1941	505	1914	526	1834	546	1756	611	1731	634	1730
18	641	1753	621	1819	548	1841	508	1903	439	1926	430	1944	444	1940	506	1913	527	1833	547	1755	612	1730	635	1731
19	640	1753	620	1820	547	1841	507	1904	438	1927	430	1944	444	1940	507	1912	528	1831	548	1754	613	1730	635	1731
20	640	1754	619	1821	545	1842	506	1905	437	1928	431	1944	445	1939	507	1911	528	1830	549	1753	614	1729	636	1732
21	640	1755	618	1822	544	1843	504	1905	437	1929	431	1945	446	1939	508	1909	529	1829	549	1751	614	1729	636	1732
22	639	1756	617	1823	543	1843	503	1906	436	1929	431	1945	446	1938	509	1908	530	1827	550	1750	615	1729	637	1733
23	639	1757	616	1823	541	1844	502	1907	436	1930	431	1945	447	1937	510	1907	530	1826	551	1749	616	1728	637	1733
24	639	1758	615	1824	540	1845	501	1908	435	1931	432	1945	448	1937	510	1906	531	1825	551	1748	617	1728	638	1734
25	638	1759	614	1825	539	1846	500	1908	435	1931	432	1945	449	1936	511	1904	531	1823	552	1747	618	1728	638	1734
26	638	1800	612	1826	538	1846	459	1909	434	1932	432	1945	449	1935	512	1903	532	1822	553	1746	619	1728	638	1735
27	637	1801	611	1827	536	1847	458	1910	434	1933	433	1945	450	1934	512	1902	533	1821	554	1745	619	1728	639	1735
28	637	1801	610	1827	535	1848	457	1911	433	1933	433	1945	451	1934	513	1901	533	1819	555	1745	620	1727	639	1736
29	636	1802			534	1848	456	1912	433	1934	433	1945	451	1933	514	1859	534	1818	555	1744	621	1727	640	1737
30	636	1803			532	1849	454	1912	432	1935	434	1945	452	1932	514	1858	535	1817	556	1743	622	1727	640	1737
31	635	1804			531	1850			432	1935			453	1931	515	1857			557	1742			640	1738

This table may be used in the vicinity of the stated location with less than a 2 minute error. Add one hour for daylight time if and when in use. (**** = NO PHENOMENON)

JANUARY

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	56	68	1982	25	15	1989
2	54	67	1971	26	11	1979
3	53	67	1981	24	7	1985
4	56	62	1987	24	9	1982
5	57	69	1981	27	11	1971
6	59	69	1965	32	9	1971
7	57	71	1969	31	13	1971
8	57	70	1969	28	15	1982
9	57	69	1990	25	12	1986
10	56	73	1985	26	-2	1962
11	56	70	1990	26	-6	1962
12	55	72	1953	28	4	1962
13	54	71	1953	25	8	1963
14	57	75	1980	23	10	1989
15	57	67	1990	25	14	1989
16	56	73	1974	26	11	1992
17	54	74	1974	27	14	1992
18	56	74	1971	30	7	1987
19	55	70	1982	27	8	1987
20	50	74	1986	26	16	1964
21	52	72	1986	25	12	1987
22	55	73	1967	25	10	1987
23	58	73	1972	25	14	1988
24	60	76	1970	27	18	1992
25	60	72	1972	26	12	1988
26	62	74	1975	27	15	1990
27	63	72	1982	31	20	1988
28	62	71	1986	29	21	1986
29	62	73	1987	29	13	1990
30	61	73	1987	30	17	1990
31	59	73	1971	31	13	1979

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

FEBRUARY

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	52	79	1963	29	8	1951
2	59	71	1988	29	8	1985
3	62	73	1988	28	13	1956
4	60	76	1963	31	14	1990
5	58	77	1963	31	20	1981
6	59	76	1963	24	15	1989
7	59	74	1963	27	15	1989
8	59	78	1957	29	17	1989
9	58	75	1962	32	16	1980
10	62	76	1962	31	16	1980
11	63	81	1957	29	15	1981
12	65	78	1962	29	16	1963
13	67	77	1957	34	18	1963
14	65	80	1957	36	21	1965
15	63	74	1986	34	19	1988
16	65	75	1982	32	9	1990
17	65	78	1985	33	12	1990
18	65	79	1986	32	17	1990
19	65	82	1986	36	22	1992
20	64	78	1981	34	21	1955
21	64	77	1972	31	15	1990
22	65	75	1982	30	18	1984
23	68	81	1982	30	20	1990
24	68	78	1989	34	16	1960
25	68	83	1986	33	14	1960
26	67	84	1986	37	28	1993
27	67	78	1989	35	21	1984
28	65	77	1974	36	20	1984
29	72	77	1988	34	28	1992

Averages: 14 years, 1980-1993

Extremes: 44 years, 1950-1993

MARCH

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
---	-----	-----	---	-----	-----	---
1	67	78	1974	35	23	1987
2	68	78	1974	36	20	1980
3	66	78	1974	39	22	1971
4	64	79	1972	37	16	1965
5	66	78	1991	34	21	1985
6	68	81	1972	32	20	1989
7	70	81	1972	35	19	1982
8	72	81	1989	34	22	1990
9	73	85	1989	38	21	1988
10	71	86	1989	39	26	1992
11	70	89	1989	43	21	1979
12	70	89	1989	40	25	1992
13	68	87	1989	37	22	1993
14	68	82	1972	39	22	1988
15	69	81	1992	37	21	1962
16	69	81	1984	39	27	1990
17	68	83	1989	35	20	1991
18	70	82	1989	38	24	1988
19	68	83	1989	38	18	1988
20	71	79	1966	36	17	1988
21	72	84	1990	34	23	1988
22	72	84	1990	39	25	1989
23	72	85	1990	36	28	1991
24	75	85	1988	37	23	1984
25	75	82	1986	40	24	1979
26	74	85	1971	41	23	1955
27	71	87	1988	43	23	1955
28	70	86	1967	40	28	1955
29	67	81	1989	39	23	1987
30	71	82	1986	39	18	1987
31	73	84	1969	37	21	1991

Averages: 14 years, 1980-1993

Extremes: 44 years, 1950-1993

APRIL

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
---	-----	-----	----	-----	-----	----
1	75	84	1989	39	23	1980
2	72	83	1966	42	24	1979
3	75	86	1954	41	26	1987
4	75	87	1967	38	20	1979
5	75	86	1959	41	25	1979
6	75	87	1989	44	26	1983
7	76	92	1989	45	27	1983
8	77	93	1989	46	28	1983
9	79	91	1989	43	26	1993
10	79	86	1960	43	36	1989
11	83	89	1971	46	27	1988
12	80	89	1992	47	31	1988
13	78	89	1990	46	27	1979
14	77	90	1963	43	27	1983
15	81	92	1990	43	31	1987
16	81	91	1962	46	34	1983
17	80	91	1987	47	35	1983
18	83	94	1989	47	37	1986
19	79	92	1989	49	39	1971
20	80	95	1989	44	32	1986
21	78	96	1989	47	38	1984
22	77	94	1965	48	38	1982
23	79	89	1965	48	35	1987
24	80	91	1974	45	32	1982
25	79	90	1974	50	39	1988
26	82	90	1993	49	37	1980
27	83	91	1953	49	32	1984
28	83	93	1992	47	32	1989
29	82	92	1992	50	40	1989
30	84	94	1992	50	38	1984

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

MAY

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	81	92	1992	50	41	1951
2	79	91	1989	50	39	1967
3	80	91	1989	48	35	1988
4	84	95	1989	51	39	1979
5	84	92	1962	54	36	1979
6	83	94	1989	52	40	1982
7	84	98	1959	51	38	1969
8	85	100	1989	52	45	1987
9	85	93	1985	50	37	1988
10	85	96	1984	54	43	1988
11	86	95	1984	53	39	1986
12	85	98	1984	53	34	1979
13	87	97	1984	52	35	1979
14	86	96	1988	52	39	1979
15	86	98	1978	53	44	1986
16	86	95	1988	54	41	1980
17	84	95	1988	52	44	1989
18	86	97	1970	53	39	1986
19	86	96	1970	55	47	1986
20	87	98	1969	54	46	1989
21	90	100	1989	53	41	1983
22	89	100	1989	57	46	1979
23	89	102	1989	55	49	1982
24	90	100	1984	56	47	1981
25	91	100	1984	57	48	1980
26	91	100	1984	57	49	1979
27	90	102	1984	56	47	1978
28	89	103	1984	57	46	1979
29	89	98	1951	56	45	1987
30	89	99	1951	56	43	1987
31	88	100	1978	55	47	1992

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

JUNE

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	92	98	1982	56	41	1988
2	91	96	1993	56	48	1992
3	92	101	1990	58	50	1992
4	92	103	1990	57	47	1989
5	91	103	1990	57	50	1983
6	93	102	1980	58	46	1985
7	94	103	1980	61	47	1983
8	95	105	1984	61	52	1992
9	94	105	1981	59	45	1988
10	95	104	1981	60	49	1979
11	95	106	1981	60	45	1979
12	97	105	1981	62	42	1979
13	97	103	1993	62	42	1979
14	96	106	1980	62	45	1979
15	96	106	1980	61	49	1991
16	97	107	1980	62	53	1983
17	98	107	1980	59	49	1992
18	99	106	1989	61	49	1981
19	98	106	1990	64	58	1979
20	98	107	1981	63	45	1979
21	99	109	1981	62	52	1991
22	98	110	1981	63	58	1991
23	97	109	1978	62	51	1991
24	96	109	1978	63	56	1982
25	98	109	1990	63	53	1983
26	96	108	1990	64	52	1983
27	96	107	1980	65	56	1979
28	99	108	1980	63	54	1979
29	98	106	1973	65	53	1983
30	97	103	1973	65	59	1979

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

JULY

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
---	-----	-----	----	-----	-----	----
1	97	107	1989	66	60	1978
2	96	108	1989	66	58	1987
3	98	106	1989	65	56	1991
4	99	105	1980	67	57	1979
5	97	104	1992	68	53	1979
6	98	106	1992	65	58	1987
7	98	106	1978	67	60	1989
8	98	106	1951	66	60	1979
9	96	106	1979	66	59	1952
10	96	109	1979	66	61	1985
11	95	109	1979	67	56	1979
12	95	112	1979	65	49	1979
13	95	106	1979	65	55	1979
14	95	107	1979	65	60	1992
15	95	104	1963	65	60	1987
16	95	105	1978	67	61	1991
17	96	107	1978	67	61	1991
18	96	106	1989	65	58	1992
19	97	104	1980	66	61	1986
20	95	102	1981	65	58	1986
21	93	104	1981	66	61	1988
22	94	104	1981	64	57	1988
23	95	105	1981	64	57	1988
24	95	105	1979	65	61	1984
25	93	103	1980	65	59	1986
26	95	105	1980	65	61	1979
27	94	104	1980	65	61	1989
28	94	102	1986	65	61	1984
29	94	102	1979	65	58	1990
30	94	102	1986	64	58	1990
31	95	107	1972	65	60	1991

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

AUGUST

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	95	102	1966	66	57	1979
2	95	106	1980	65	60	1992
3	95	105	1980	66	58	1979
4	93	99	1977	67	60	1979
5	94	100	1969	65	58	1975
6	94	101	1976	66	57	1990
7	91	101	1951	65	55	1990
8	92	101	1951	65	55	1990
9	91	100	1951	64	56	1989
10	91	105	1992	64	57	1989
11	91	102	1993	64	57	1989
12	89	100	1978	64	55	1979
13	91	100	1978	64	60	1990
14	91	100	1962	63	56	1985
15	93	100	1969	65	61	1990
16	93	101	1978	64	59	1978
17	94	103	1969	63	56	1990
18	92	100	1987	64	57	1979
19	92	98	1969	65	58	1979
20	93	100	1986	64	56	1979
21	93	100	1952	64	58	1980
22	93	98	1985	64	57	1979
23	92	98	1985	63	51	1979
24	90	98	1977	64	59	1993
25	92	98	1988	63	56	1979
26	92	97	1990	63	55	1966
27	90	98	1990	63	58	1987
28	90	98	1962	64	57	1980
29	90	98	1984	62	53	1979
30	91	98	1962	62	56	1987
31	91	99	1983	62	56	1987

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

SEPTEMBER

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
---	-----	-----	----	-----	-----	----
1	92	100	1982	61	56	1987
2	92	99	1983	61	53	1987
3	91	99	1983	61	51	1992
4	89	102	1983	62	53	1961
5	87	99	1979	61	50	1988
6	89	99	1983	58	49	1988
7	89	97	1992	58	46	1988
8	90	98	1992	59	48	1988
9	89	97	1992	58	53	1988
10	89	97	1983	59	50	1992
11	89	97	1974	60	48	1979
12	89	95	1984	59	48	1979
13	88	95	1992	60	50	1975
14	85	94	1984	59	52	1979
15	86	95	1956	56	47	1988
16	88	98	1956	56	47	1988
17	88	96	1956	58	50	1987
18	86	95	1983	56	48	1990
19	87	96	1983	54	44	1987
20	86	95	1954	56	44	1993
21	86	95	1993	56	48	1991
22	84	94	1993	57	46	1975
23	83	93	1993	56	46	1975
24	84	94	1951	53	43	1988
25	86	94	1982	54	46	1986
26	84	96	1951	52	44	1979
27	86	95	1951	52	44	1989
28	84	92	1977	53	40	1989
29	82	93	1979	51	43	1993
30	81	93	1979	50	42	1986

Averages: 14 years, 1980-1993

Extremes: 44 years, 1950-1993

OCTOBER

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	82	91	1993	49	41	1992
2	82	92	1993	52	44	1992
3	83	91	1991	51	41	1992
4	83	91	1993	49	38	1992
5	83	91	1993	51	39	1979
6	82	92	1979	51	39	1979
7	83	94	1979	51	38	1979
8	82	92	1979	50	42	1992
9	79	92	1965	48	35	1992
10	80	90	1987	47	34	1990
11	80	91	1979	47	33	1990
12	78	91	1979	45	39	1986
13	80	91	1989	46	35	1982
14	81	90	1989	45	36	1986
15	79	86	1951	47	33	1979
16	76	89	1991	45	26	1979
17	78	91	1991	46	33	1979
18	77	91	1991	45	32	1979
19	75	86	1988	44	32	1989
20	73	85	1988	45	30	1989
21	73	85	1961	44	31	1979
22	74	84	1950	44	27	1990
23	74	85	1973	42	30	1990
24	75	85	1989	41	30	1981
25	76	86	1979	42	30	1979
26	76	90	1979	42	29	1979
27	75	85	1988	41	32	1981
28	73	85	1987	42	27	1993
29	73	83	1981	39	25	1980
30	72	85	1950	38	27	1980
31	72	85	1950	39	22	1989

Averages: 14 years, 1980-1993
Extremes: 44 years, 1950-1993

NOVEMBER

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
1	71	84	1950	40	20	1979
2	70	79	1988	37	20	1979
3	68	84	1988	35	22	1991
4	70	87	1988	35	20	1991
5	71	79	1981	37	23	1990
6	72	84	1988	38	25	1982
7	72	83	1950	37	20	1992
8	72	82	1988	38	24	1992
9	70	81	1973	38	26	1989
10	70	78	1980	36	24	1979
11	70	79	1989	35	17	1979
12	69	84	1973	35	20	1979
13	68	79	1981	35	13	1979
14	68	79	1988	37	12	1976
15	63	81	1981	35	25	1976
16	62	81	1981	32	22	1989
17	66	83	1981	32	20	1987
18	66	78	1981	37	17	1980
19	62	79	1990	32	16	1987
20	63	74	1989	30	16	1987
21	64	73	1955	30	20	1988
22	65	77	1981	32	11	1979
23	63	78	1981	32	8	1979
24	63	80	1981	30	15	1991
25	61	78	1981	31	15	1992
26	56	75	1960	31	13	1980
27	55	72	1991	27	12	1992
28	58	73	1970	26	10	1976
29	60	74	1970	27	5	1976
30	60	72	1950	28	11	1979

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

DECEMBER

DAY	AVERAGE HIGH	HIGHEST	YEAR	AVERAGE LOW	LOWEST	YEAR
---	-----	-----	----	-----	-----	----
1	59	73	1961	27	2	1979
2	60	71	1970	26	4	1979
3	61	73	1987	28	7	1979
4	60	77	1958	26	13	1990
5	59	73	1958	28	13	1990
6	60	70	1980	28	17	1983
7	60	73	1981	28	15	1990
8	59	73	1981	28	16	1990
9	60	73	1950	28	13	1978
10	61	72	1979	30	10	1978
11	57	77	1987	27	13	1980
12	58	70	1990	30	3	1989
13	55	71	1973	29	6	1989
14	53	70	1950	25	4	1987
15	54	67	1950	23	-10	1987
16	53	71	1980	24	-4	1987
17	56	72	1980	24	8	1987
18	57	71	1980	28	16	1983
19	57	64	1969	28	15	1983
20	58	75	1981	30	17	1973
21	56	74	1981	30	14	1989
22	55	69	1969	29	12	1989
23	57	71	1955	27	6	1989
24	55	71	1955	23	8	1953
25	51	70	1971	22	10	1983
26	55	73	1980	26	5	1987
27	57	74	1980	27	1	1987
28	57	72	1980	27	5	1987
29	54	71	1992	27	7	1983
30	57	73	1951	27	12	1983
31	56	66	1964	28	13	1988

Averages: 14 years, 1980-1993
 Extremes: 44 years, 1950-1993

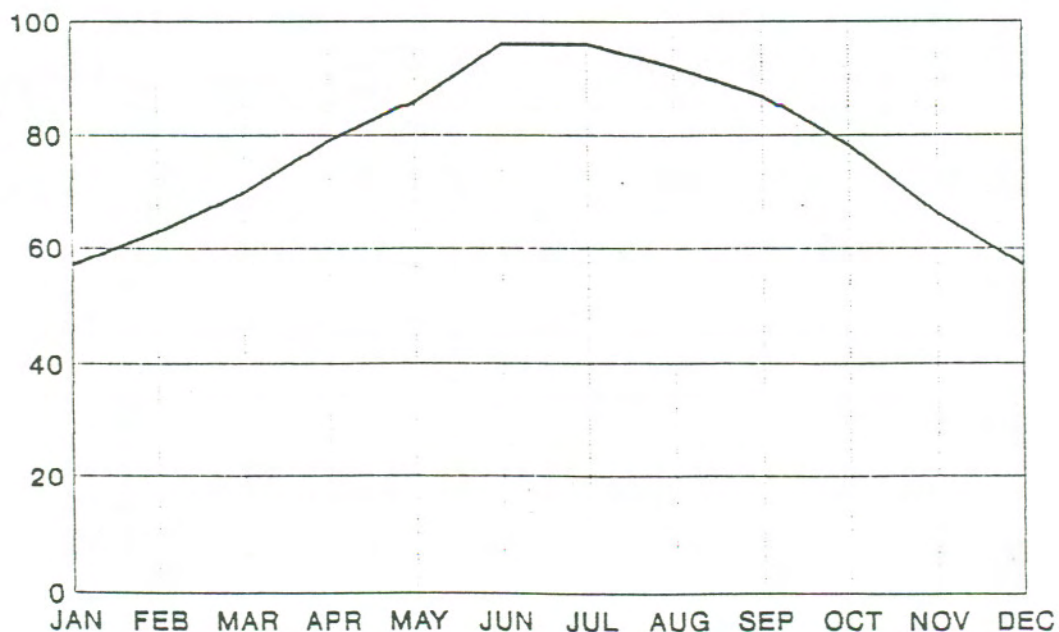
AVERAGE MAXIMUM TEMPERATURE, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	60.5	64.3	67.7	76.2	84.5	102.0	100.7	93.1	85.2	73.2	64.3	62.8	77.8
81	56.2	65.6	66.9	80.4	85.6	97.7	97.7	91.5	86.9	76.8	71.4	63.7	78.4
82	58.8	62.6	72.1	77.8	84.7	96.2	97.5	95.1	87.6	77.3	62.9	52.4	77.1
83	54.4	62.9	68.6	70.5	85.1	94.5	97.4	95.3	91.0	77.0	65.6	58.2	76.7
84	56.4	62.9	71.4	77.4	90.8	91.9	94.6	89.0	86.4	70.8	64.5	56.4	76.0
85	51.7	60.9	69.3	79.9	87.6	94.5	95.9	94.2	85.1	74.6	67.3	60.9	76.8
86	63.5	65.6	72.3	81.7	86.0	91.0	92.8	92.3	86.6	75.1	60.4	52.9	76.7
87	56.7	61.3	66.3	75.3	82.8	93.3	96.0	91.8	85.1	81.8	65.9	53.9	75.9
88	56.5	63.6	70.0	77.4	86.6	94.5	93.2	88.9	87.3	81.4	69.2	55.1	77.0
89	58.2	64.1	74.7	84.6	90.2	97.6	95.9	90.8	87.8	79.4	68.9	56.9	79.1
90	58.6	62.3	70.1	79.7	85.8	100.9	92.5	89.4	85.0	79.0	66.8	57.5	77.3
91	55.4	63.9	67.8	79.4	88.5	94.9	91.0	90.7	83.1	80.9	62.6	55.0	76.1
92	51.5	61.8	69.6	81.2	82.6	94.9	96.5	93.5	90.5	82.1	62.6	54.1	76.7
93	57.4	62.8	71.5	80.4	88.1	97.2	96.7	92.6	89.1	77.0	64.5	57.6	77.9
AVE	56.8	63.2	69.9	78.7	86.4	95.8	95.6	92.0	86.9	77.6	65.5	57.0	77.1
MIN	51.0	54.3	57.5	69.8	79.3	89.8	88.2	87.3	80.9	68.5	57.2	47.7	73.8
YR	1955	1966	1958	1973	1953	1967	1955	1972	1974	1958	1976	1960	1958
MAX	63.5	67.9	75.3	84.6	90.8	102.0	100.7	95.3	91.8	83.9	71.4	63.7	79.1
YR	1986	1957	1972	1989	1984	1980	1980	1983	1951	1979	1981	1981	1989

LEGEND:

ANL: ANNUAL, AVE: AVERAGE OR MEAN VALUE, MIN: MINIMUM, MAX: MAXIMUM
YR: YEAR OF MOST RECENT OCCURRENCE

Average High, Degrees F



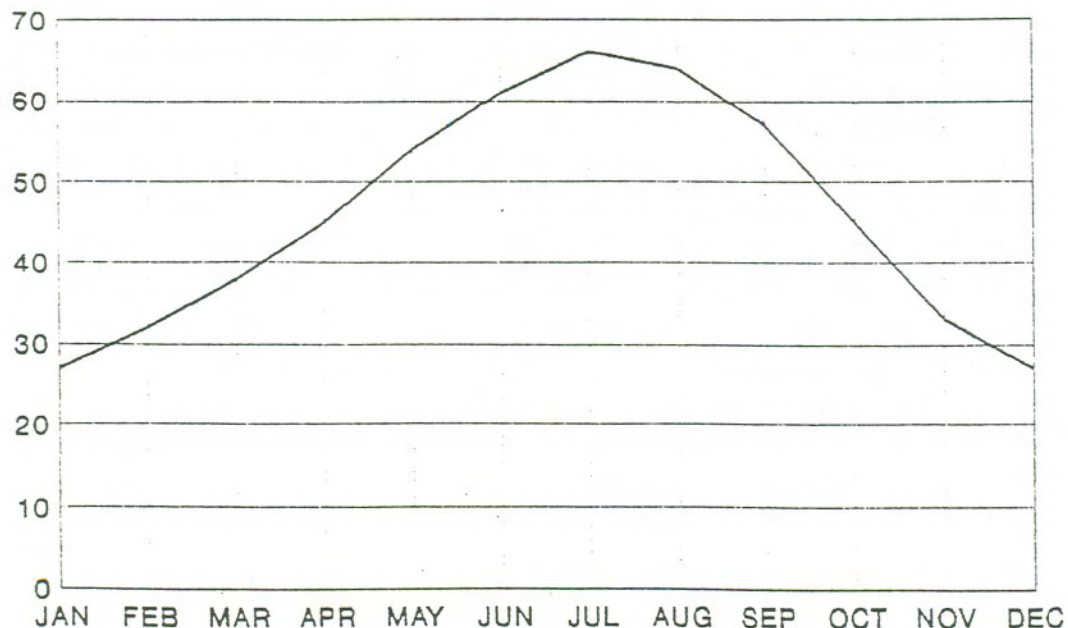
AVERAGE MINIMUM TEMPERATURE, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	32.4	34.0	36.0	41.3	52.1	61.9	68.3	63.9	58.1	42.0	29.1	24.9	45.3
81	28.8	29.6	38.0	47.0	54.0	62.5	67.2	63.3	58.3	47.8	34.3	29.7	46.7
82	28.6	32.9	40.4	48.4	51.7	60.7	67.1	67.4	60.0	43.5	36.3	28.5	47.1
83	26.3	32.6	40.4	40.2	50.7	57.4	66.1	65.7	61.6	51.3	38.1	29.0	46.6
84	27.0	26.6	38.0	44.6	59.3	64.5	65.3	64.4	56.3	45.2	35.0	31.6	46.5
85	25.8	27.9	39.1	46.0	54.9	60.2	63.5	64.3	56.9	46.6	36.1	22.6	45.3
86	24.8	36.0	39.1	49.3	52.5	62.4	64.3	65.0	57.0	45.2	34.7	28.8	46.6
87	22.5	29.5	33.4	41.1	50.4	58.5	65.0	63.4	54.4	48.1	32.0	21.0	43.3
88	24.6	30.5	33.5	42.5	52.0	59.4	63.5	62.9	52.6	46.1	34.8	25.5	44.0
89	24.8	33.8	39.0	47.9	55.1	59.9	65.4	63.0	55.3	42.5	32.1	22.1	45.1
90	23.1	27.2	37.3	48.2	54.1	67.8	63.2	59.8	56.8	42.1	34.2	27.8	45.1
91	27.8	33.8	36.6	47.2	54.3	58.4	64.1	64.1	55.5	45.1	31.4	29.2	45.6
92	25.2	31.2	36.5	44.1	52.8	58.0	64.8	62.9	57.5	45.3	27.6	30.3	44.7
93	35.3	34.9	38.1	47.2	54.5	63.2	69.7	65.6	56.5	44.8	32.5	26.6	47.4
AVE	26.9	31.5	37.5	45.3	53.5	61.1	65.5	64.0	56.9	45.4	33.4	27.0	45.7
MIN	22.5	26.6	32.9	40.2	50.0	55.8	63.1	59.3	52.6	38.0	25.5	21.0	41.6
YR	1987	1984	1979	1983	1979	1979	1979	1979	1988	1979	1979	1987	1979
MAX	42.1	46.8	49.1	57.8	64.4	73.0	74.5	71.5	67.1	56.6	46.4	38.6	54.5
YR	1957	1957	1974	1954	1956	1956	1951	1952	1954	1950	1965	1970	1957

LEGEND:

ANL: ANNUAL, AVE: AVERAGE OR MEAN VALUE, MIN: MINIMUM, MAX: MAXIMUM
YR: YEAR OF MOST RECENT OCCURRENCE

Average Low, Degrees F



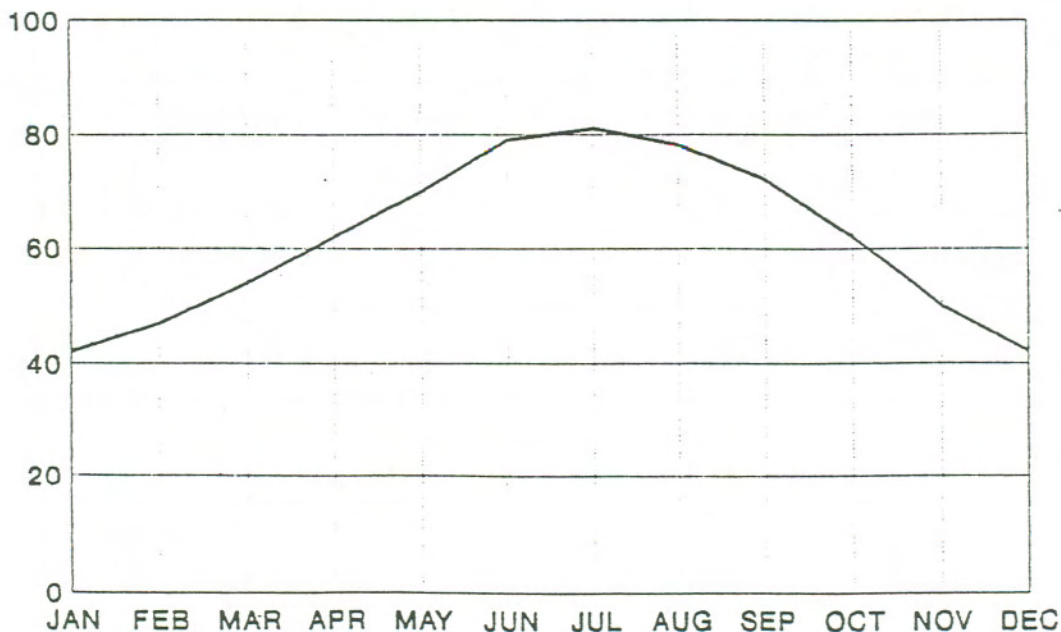
MEAN TEMPERATURE, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	46.7	49.2	51.9	58.8	68.3	82.0	84.5	78.8	71.7	57.6	46.7	43.9	61.7
81	42.5	47.6	52.5	63.7	69.8	80.1	82.5	77.4	72.6	62.3	52.9	46.7	62.6
82	43.7	47.8	54.5	63.1	68.2	78.5	82.3	81.3	73.8	60.4	49.6	40.5	62.0
83	40.4	47.8	54.5	55.4	67.9	76.0	81.8	80.0	76.3	64.2	51.9	43.6	61.7
84	41.7	44.8	54.7	61.0	75.1	78.2	80.0	76.7	71.4	58.0	49.8	44.0	61.3
85	38.8	44.4	54.2	63.0	71.3	77.4	79.7	79.3	71.0	60.6	51.7	41.8	61.1
86	44.2	50.8	55.7	65.5	69.3	76.7	78.6	78.7	71.8	60.2	47.6	40.9	61.7
87	39.6	45.4	49.9	58.2	66.6	75.9	80.5	77.6	69.8	65.0	49.0	37.5	59.6
88	40.5	47.1	51.8	59.9	69.5	77.2	78.6	76.2	70.1	63.9	52.3	40.5	60.6
89	41.8	49.3	57.1	66.4	72.9	79.0	80.9	77.2	71.9	61.2	50.7	39.7	62.3
90	41.1	45.0	53.9	64.2	70.2	84.6	78.0	74.9	71.2	60.9	50.8	42.9	61.5
91	41.8	49.1	52.5	63.5	71.7	76.9	77.8	77.7	69.5	63.2	47.3	42.5	61.1
92	38.6	46.7	53.3	62.9	68.0	76.7	80.8	78.5	74.3	64.0	45.4	42.5	61.0
93	46.6	49.1	55.0	64.0	71.5	80.5	83.5	79.3	73.0	61.1	48.8	42.4	62.9
AVE	42.0	47.4	53.7	62.1	70.0	78.6	80.7	78.1	72.0	61.6	49.6	42.1	61.5
MIN	38.6	42.5	49.1	55.4	66.6	74.0	77.8	74.9	69.5	57.6	44.4	37.5	59.1
YR	1992	1964	1958	1983	1987	1979	1991	1991	1991	1980	1979	1987	1979
MAX	51.9	57.4	61.7	69.3	76.6	84.6	86.4	83.1	78.4	69.9	58.0	49.9	65.8
YR	1953	1957	1972	1954	1956	1990	1951	1969	1977	1950	1965	1970	1950

LEGEND:

ANL: ANNUAL, AVE: AVERAGE OR MEAN VALUE, MIN: MINIMUM, MAX: MAXIMUM
YR: YEAR OF MOST RECENT OCCURRENCE

Mean Temperature, Degrees F



HIGHEST MAXIMUM TEMPERATURES, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
50	73	74	82	90	94	103	98	97	95	88	84	73	103
51	70	76	78	84	103	106	106	101	98	91	74	73	106
52	72	67	72	83	92	100	99	100	96	88	80	64	100
53	73	73	82	85	97	102	102	98	95	85	71	68	102
54	69	75	78	89	91	99	102	98	95	87	73	71	102
55	62	72	77	87	91	101	99	95	95	85	75	71	101
56	68	73	80	84	96	101	100	99	98	90	74	66	101
57	67	81	79	82	91	104	104	95	94	85	66	65	104
58	67	74	73	87	97	100	104	97	97	83	76	77	104
59	70	72	77	88	92	99	99	97	96	85	74	63	99
60	64	70	81	89	93	104	106	100	93	87	75	63	106
61	62	75	77	89	96	102	101	99	90	86	73	73	102
62	67	80	80	91	95	99	100	100	93	85	77	64	100
63	72	79	85	90	95	100	105	94	92	87	76	65	105
64	64	67	75	84	99	98	103	101	95	85	75	70	103
65	71	71	75	94	93	99	99	100	92	92	76	68	100
66	66	68	81	83	96	99	103	102	90	85	81	71	103
67	73	74	86	87	92	98	98	100	92	88	76	65	100
68	66	73	79	81	95	105	99	96	94	90	77	68	105
69	71	71	84	87	98	103	101	103	94	89	76	70	103
70	76	75	75	80	97	103	102	98	97	82	75	72	103
71	74	74	86	89	90	100	100	96	97	83	77	70	100
72	73	78	84	89	91	102	107	99	89	91	72	67	107
73	68	72	73	84	93	106	105	98	96	90	84	72	106
74	74	77	85	91	98	103	101	99	98	84	74	66	103
75	74	71	78	85	90	99	97	100	94	88	80	71	100
76	67	76	79	85	94	101	98	101	93	83	76	64	101
77	61	74	73	85	96	105	100	102	97	88	77	74	105
78	70	72	85	87	100	109	107	101	94	88	75	68	109
79	70	76	79	88	94	104	112	101	99	94	78	72	112
80	75	80	76	89	93	108	105	106	96	90	81	74	108
81	69	78	81	92	94	110	105	100	96	85	83	75	110
82	72	81	83	89	95	103	103	99	100	90	76	68	103
83	65	73	82	86	96	103	104	99	102	89	79	68	104
84	66	73	82	89	102	98	101	98	97	83	79	67	102
85	69	78	85	89	97	103	103	99	98	89	77	69	103
86	74	84	83	89	97	103	102	100	93	86	77	66	103
87	73	75	77	91	89	105	103	101	93	91	78	77	105
88	68	77	87	87	97	100	100	98	95	88	87	67	100
89	70	82	89	96	102	106	108	99	95	91	79	71	108
90	71	76	85	92	98	109	97	98	96	86	79	70	109
91	64	72	80	86	95	105	102	97	97	91	76	69	105
92	62	73	81	94	92	104	106	105	98	90	76	71	106
93	67	75	81	91	99	104	104	102	95	92	76	71	104
MAX	76	84	89	96	103	110	112	106	102	94	87	77	112
YR	1970	1986	1989	1989	1951	1981	1979	1980	1983	1979	1988	1987	1979

LEGEND:

ANL: ANNUAL, MAX: MAXIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE

LOWEST MAXIMUM TEMPERATURE, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
50	44	47	50	62	71	83	79	87	74	76	40	42	40
51	27	21	46	53	61	80	83	74	80	66	38	36	21
52	42	45	43	59	65	79	72	86	72	67	41	41	41
53	45	41	49	59	58	85	82	87	81	60	47	30	30
54	44	53	45	65	64	86	85	70	71	60	60	38	38
55	39	40	37	63	67	77	71	82	81	65	45	48	37
56	49	23	47	58	78	90	79	81	78	61	48	38	23
57	44	54	55	52	65	80	84	81	69	58	35	46	35
58	39	52	38	56	67	89	74	82	71	45	43	37	37
59	45	34	47	59	71	83	85	80	79	64	39	40	34
60	36	26	50	58	66	82	73	84	80	61	54	35	26
61	37	45	43	62	71	82	87	83	76	69	35	44	35
62	16	50	37	64	71	84	81	85	68	65	51	40	16
63	29	28	54	62	78	83	83	73	80	69	53	43	28
64	36	41	47	51	70	81	79	84	72	62	49	32	32
65	49	40	34	63	72	71	84	84	70	60	54	45	34
66	35	40	43	61	72	72	91	77	70	65	55	40	35
67	37	47	55	56	65	79	87	70	63	53	47	29	29
68	31	39	44	56	76	82	68	80	78	67	44	42	31
69	48	53	40	68	60	82	80	77	77	58	40	35	35
70	36	38	41	59	62	81	82	84	53	48	51	53	36
71	23	48	43	53	69	86	77	83	60	55	47	37	23
72	27	48	60	64	71	70	85	73	75	57	38	40	27
73	32	39	53	52	54	81	77	85	74	66	49	45	32
74	30	46	59	63	74	85	81	76	57	59	47	33	30
75	34	37	38	52	70	85	81	84	63	66	45	46	34
76	37	50	48	53	63	85	84	86	73	43	23	42	23
77	41	41	45	54	71	84	83	85	84	67	52	44	41
78	35	43	58	62	73	84	87	84	62	57	47	30	30
79	37	41	54	60	70	73	81	68	56	60	46	43	37
80	46	38	48	52	61	91	95	74	63	54	37	41	37
81	35	53	51	65	74	86	82	80	66	58	49	49	35
82	37	48	56	51	71	84	89	90	72	65	38	34	34
83	34	50	57	34	71	80	90	90	78	57	49	28	28
84	46	49	43	65	77	79	79	75	60	47	48	39	39
85	31	26	49	66	79	74	83	88	63	55	51	43	26
86	44	38	53	68	66	70	85	82	73	50	35	39	35
87	34	36	38	59	74	78	86	73	71	70	51	15	15
88	42	43	52	56	73	88	81	65	79	63	51	34	34
89	41	34	47	56	71	89	80	74	73	61	47	34	34
90	43	40	55	61	60	92	84	70	64	64	46	37	37
91	35	50	54	66	78	77	82	79	61	49	50	37	35
92	40	53	58	61	67	86	90	80	83	66	47	32	32
93	46	52	55	66	79	85	84	74	80	48	49	40	40
MIN	16	21	34	34	54	70	68	65	53	43	23	15	15
YR	1962	1951	1965	1983	1973	1986	1968	1988	1970	1976	1976	1987	1987

LEGEND:

ANL: ANNUAL, MIN: MINIMUM VALUE, YR: YEAR OF MOST RECENT OCCURENCE

LOWEST MINIMUM TEMPERATURES, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
50	20	30	37	42	44	56	62	64	51	49	22	19	19
51	16	8	27	34	41	57	69	65	55	44	28	20	8
52	23	27	26	41	47	56	59	63	55	44	24	24	23
53	25	22	30	37	39	60	66	65	60	41	31	8	8
54	23	30	29	47	46	62	66	62	61	41	36	19	19
55	21	21	23	40	48	56	61	64	60	44	28	29	21
56	27	13	28	35	52	66	63	64	58	34	25	23	13
57	25	34	32	39	50	57	64	63	51	41	25	25	25
58	23	28	27	38	50	64	64	63	52	39	26	21	21
59	25	25	29	36	48	59	62	63	54	48	25	26	25
60	21	14	27	35	45	56	62	61	54	40	31	20	14
61	26	27	32	41	51	58	60	64	53	43	30	31	26
62	-6	26	21	40	48	56	62	60	55	45	34	26	-6
63	8	16	31	42	56	62	65	63	54	49	29	20	8
64	13	20	30	37	49	50	63	63	49	40	25	21	13
65	26	20	16	43	46	50	64	62	51	44	28	26	16
66	13	24	22	36	47	56	66	55	53	41	32	18	13
67	14	18	29	36	39	61	60	58	52	36	32	22	14
68	18	27	28	36	48	58	60	61	51	38	27	20	18
69	27	27	27	43	38	55	63	62	54	37	25	22	22
70	16	31	29	34	41	56	62	63	46	33	28	26	16
71	9	25	22	39	49	60	63	59	47	38	33	22	9
72	15	21	31	40	48	54	60	59	48	37	28	24	15
73	22	22	31	29	48	56	62	61	48	40	28	17	17
74	19	23	36	38	48	58	60	60	49	42	24	15	15
75	20	21	29	34	44	55	62	58	46	42	26	26	20
76	19	25	28	35	46	57	61	63	50	33	5	17	5
77	20	23	29	36	53	61	64	65	58	42	28	20	20
78	25	23	30	36	38	50	53	56	52	37	24	10	10
79	11	18	20	20	34	42	49	51	43	26	8	2	2
80	17	16	20	23	41	48	62	57	52	25	13	13	13
81	20	15	26	35	43	49	62	59	49	30	22	15	15
82	9	17	19	32	35	50	62	62	53	27	25	20	9
83	10	24	29	26	38	47	58	62	50	43	22	7	7
84	13	16	22	30	42	54	60	59	49	38	21	20	13
85	7	8	21	32	40	46	58	56	46	39	23	11	7
86	12	22	27	32	38	47	58	57	42	33	22	18	12
87	7	19	18	25	43	51	58	56	44	42	15	-10	-10
88	12	19	17	27	35	41	57	56	43	41	19	8	8
89	10	15	20	29	44	47	60	56	40	22	22	3	3
90	13	9	22	39	40	50	58	52	48	27	21	13	9
91	19	20	20	32	42	48	56	60	47	25	15	18	15
92	11	21	25	32	47	48	57	57	44	35	12	15	11
93	22	20	22	26	42	52	64	61	43	24	14	16	14
MIN	-6	8	16	20	34	41	49	51	40	22	5	-10	-10
YR	1962	1985	1965	1979	1979	1988	1979	1979	1989	1989	1976	1987	1987

LEGEND:

ANL: ANNUAL, MIN: MINIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE

HIGHEST MINIMUM TEMPERATURE, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
50	57	55	65	69	75	75	78	72	71	67	60	54	78
51	60	53	59	67	80	84	84	80	74	70	55	58	84
52	54	54	59	60	74	82	75	78	79	67	60	53	82
53	58	53	63	66	76	80	79	79	71	70	53	43	80
54	49	60	65	70	75	80	78	75	73	69	50	53	80
55	43	49	61	67	71	82	76	74	71	65	63	52	82
56	55	53	63	67	72	81	78	75	71	70	53	53	81
57	60	55	56	65	69	86	82	75	69	70	58	48	86
58	45	47	52	72	76	86	86	75	74	66	52	63	86
59	58	58	57	65	72	80	76	80	79	61	53	48	80
60	47	47	66	69	76	84	80	76	75	64	56	43	84
61	42	51	58	70	73	77	75	74	75	70	46	52	77
62	55	56	59	72	74	75	75	77	71	67	52	45	77
63	57	60	62	67	70	77	79	71	68	60	58	43	79
64	49	46	56	64	70	77	76	76	71	62	57	56	77
65	52	54	59	68	70	78	78	75	71	70	62	49	78
66	38	51	60	65	73	76	76	78	69	66	54	60	78
67	52	55	60	66	71	74	75	72	70	67	55	43	75
68	49	52	65	62	75	83	73	71	70	64	53	47	83
69	57	49	55	68	79	79	76	80	69	70	54	52	80
70	50	50	57	65	71	76	77	76	72	61	58	49	77
71	58	55	71	71	72	82	79	73	73	67	63	50	82
72	50	61	52	70	67	78	78	76	68	64	47	52	78
73	49	46	51	62	70	82	76	72	70	66	65	56	82
74	49	47	59	75	77	76	78	70	71	64	50	45	78
75	53	53	63	70	67	79	69	71	65	63	57	41	79
76	41	57	62	65	71	79	71	77	68	64	53	43	79
77	44	53	58	62	72	78	73	76	78	63	57	50	78
78	47	47	58	65	70	79	74	75	69	55	58	48	79
79	40	48	58	63	67	72	72	67	61	57	50	42	72
80	51	55	47	54	63	74	76	75	63	53	43	40	76
81	42	47	49	63	63	74	72	72	68	61	47	50	74
82	45	47	53	66	65	69	75	75	68	58	53	42	75
83	43	48	50	61	62	70	71	72	73	60	53	49	73
84	39	41	56	67	70	70	71	68	68	58	50	46	71
85	42	47	58	58	66	68	69	69	73	63	55	42	73
86	42	53	55	64	67	70	70	71	67	63	50	45	71
87	43	48	55	56	64	65	74	69	66	57	52	42	74
88	43	49	49	55	63	67	70	66	62	54	55	45	70
89	40	53	57	65	72	72	74	69	64	55	49	41	74
90	42	56	52	67	67	78	68	65	63	59	55	47	78
91	43	51	53	60	63	69	69	67	65	56	48	46	69
92	39	45	47	53	58	70	78	68	67	56	46	51	78
93	47	50	51	64	65	75	79	70	65	62	51	42	79
MAX	60	61	71	75	80	86	86	80	79	70	65	63	86
YR	1957	1972	1971	1974	1951	1958	1958	1969	1959	1969	1972	1958	1958

LEGEND:

ANL: ANNUAL, MAX: MAXIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE

LAST FREEZE IN SPRING, FIRST FREEZE IN FALL,
AND LENGTH OF GROWING SEASON

WHITE SANDS MISSILE RANGE, NM

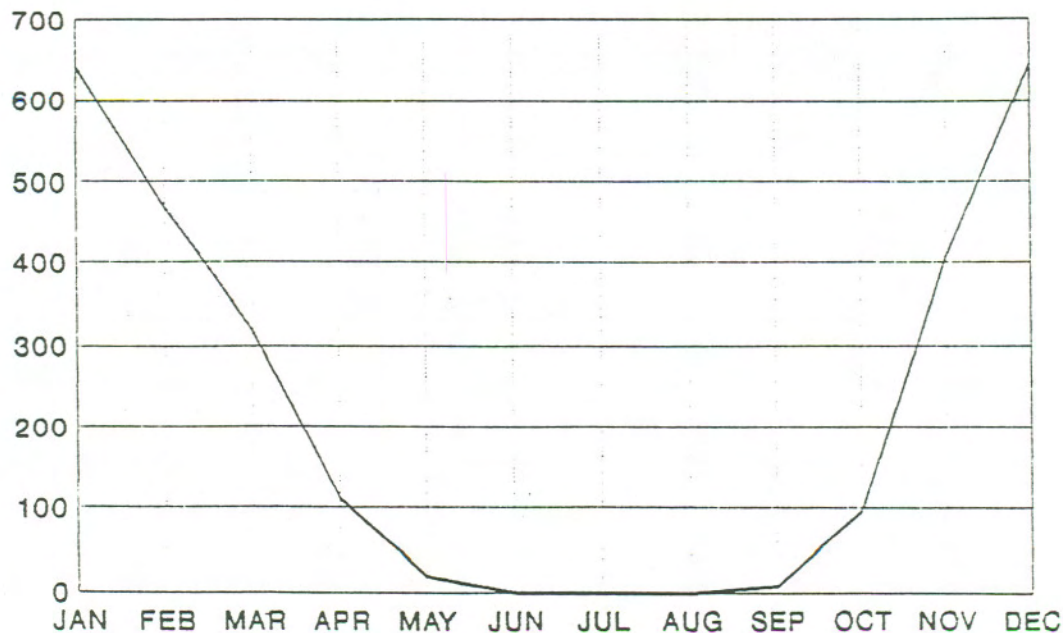
YEAR	JULIAN DAY NO. OF YEAR (LAST FREEZE SPRING)	JULIAN DAY NO. OF YEAR (FIRST FREEZE FALL)	LENGTH OF GROWING SEASON
1980	104	295	191
1981	82	297	215
1982	114	302	182
1983	105	314	209
1984	118	316	198
1985	92	306	214
1986	110	309	199
1987	105	313	208
1988	103	321	218
1989	118	292	174
1990	77	295	218
1991	103	305	202
1992	94	309	215
1993	99	301	202
MEAN	102 (APR 12)	305 (NOV 1)	203
EARLIEST DATE/YR	45 FEB 14, 1950	289 OCT 16, 1979	
LATEST DATE/YR	118 APRIL 28, 1989	346 DEC 12, 1954	
LONGEST GROWING SEASON YEAR	273 DAYS 1954		
SHORTEST GROWING SEASON YEAR	174 DAYS 1989		

HEATING DEGREE DAYS, BASE 65F
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	568	451	400	189	34	0	0	0	0	246	541	646	3075
81	681	465	378	99	6	0	0	0	4	123	370	560	2686
82	644	439	231	100	23	0	0	0	0	161	461	751	2810
83	756	460	306	291	31	0	0	0	0	80	366	633	2923
84	721	580	306	148	5	0	0	0	23	226	454	654	3117
85	813	577	351	87	4	5	0	0	15	153	399	720	3124
86	647	398	291	72	33	0	0	0	9	165	524	749	2888
87	788	549	471	207	19	0	0	0	3	39	467	842	3385
88	742	505	404	149	23	0	0	4	3	56	387	760	3033
89	720	441	253	64	9	0	0	0	4	146	429	783	2849
90	740	561	344	88	44	0	0	2	16	148	426	684	3053
91	718	446	387	75	3	0	0	0	28	104	532	699	2992
92	819	530	362	112	11	0	0	0	1	59	589	697	3180
93	571	444	310	97	4	0	0	0	0	184	487	700	2797
AVE	641	468	318	111	19	0	0	0	8	96	408	643	2709
MIN	400	213	149	15	0	0	0	0	0	0	207	460	1861
YR	1953	1957	1967	1954	1977	1993	1993	1993	1993	1950	1965	1970	1950
MAX	819	651	471	291	92	5	0	4	39	246	612	842	3537
YR	1992	1964	1987	1983	1953	1985	1993	1988	1970	1980	1976	1987	1979

LEGEND: ANL: ANNUAL, AVE: AVERAGE, MIN: MINIMUM VALUE, MAX: MAXIMUM VALUE
YR: YEAR OF MOST RECENT OCCURRENCE

Heating Degree Days

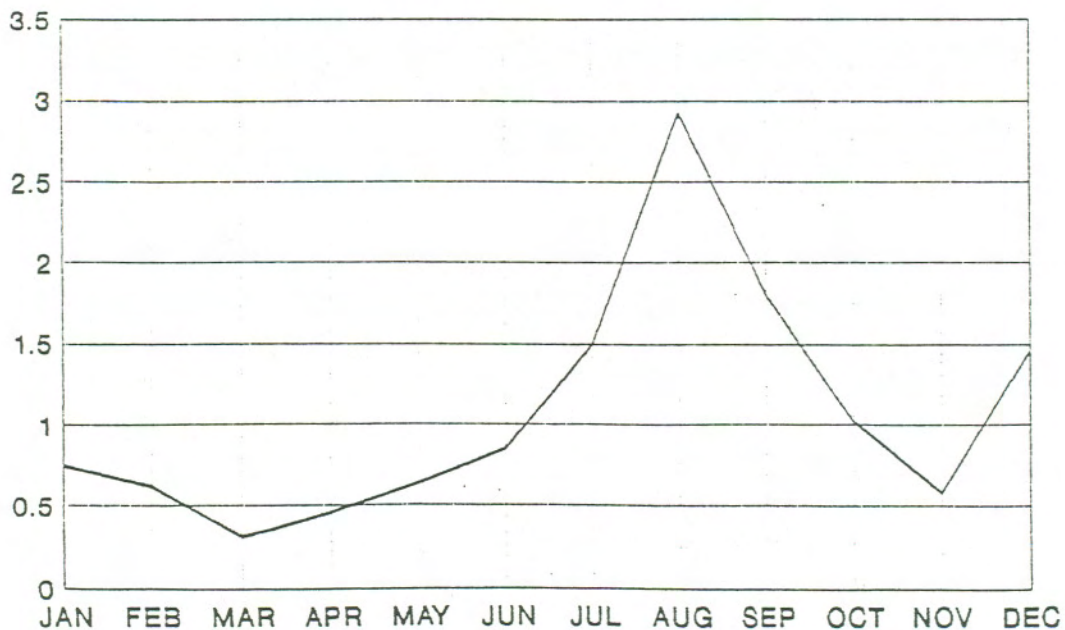


MONTHLY AND ANNUAL PRECIPITATION IN INCHES
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	.70	.80	.11	.31	1.35	T	.67	2.23	4.46	1.00	.27	.01	11.91
81	1.13	.11	.50	1.27	.62	.58	.19	2.16	.75	.51	.47	T	8.29
82	.67	.41	T	.03	.25	.15	1.25	.89	4.34	.12	.53	3.24	11.88
83	.17	.74	.19	1.09	.07	.09	.42	.99	.42	2.22	.56	.28	7.24
84	.41	.00	.06	.02	.71	2.51	.66	5.86	.30	3.96	.44	2.03	16.96
85	1.68	.53	.70	1.17	.34	.74	1.72	1.52	2.93	3.44	.19	.05	15.01
86	.08	.41	.52	T	.53	3.36	1.58	3.02	1.26	1.30	2.74	2.10	16.90
87	.49	.77	.54	.63	.72	1.39	.40	4.82	.75	.13	.58	3.17	14.39
88	.23	2.07	.02	.39	.04	1.39	3.73	6.59	.67	.45	.87	1.60	18.05
89	.29	1.02	.78	T	.60	.04	1.75	3.03	1.45	.29	.03	.49	9.77
90	.48	.12	.46	.76	.28	.15	1.71	1.72	4.30	.20	.55	.38	11.11
91	.95	.93	.12	T	.38	.36	3.12	4.26	2.77	.29	.40	4.68	18.26
92	1.52	.35	.28	.59	2.83	.85	.84	1.33	.69	.15	.09	1.60	11.12
93	1.75	.24	.02	.18	.26	.32	2.95	2.50	.04	.61	.43	.75	10.05
AVE	.75	.62	.31	.46	.64	.85	1.50	2.92	1.80	1.02	.58	1.46	12.91
MIN	.00	.00	.00	.00	.00	T	.04	.01	.00	.00	.00	.00	3.92
YR	1967	1984	1971	1972	1961	1980	1951	1950	1956	1979	1970	1973	1956
MAX	1.75	2.07	3.00	1.37	2.83	7.42	5.67	6.59	5.76	3.96	2.74	4.68	20.02
YR	1993	1988	1958	1952	1992	1966	1973	1988	1958	1984	1986	1991	1958

LEGEND: ANL: ANNUAL, MIN: MINIMUM VALUE, MAX: MAXIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE, T: TRACE (LESS THAN .01"), AVE: AVERAGE VALUE

Precipitation in Inches

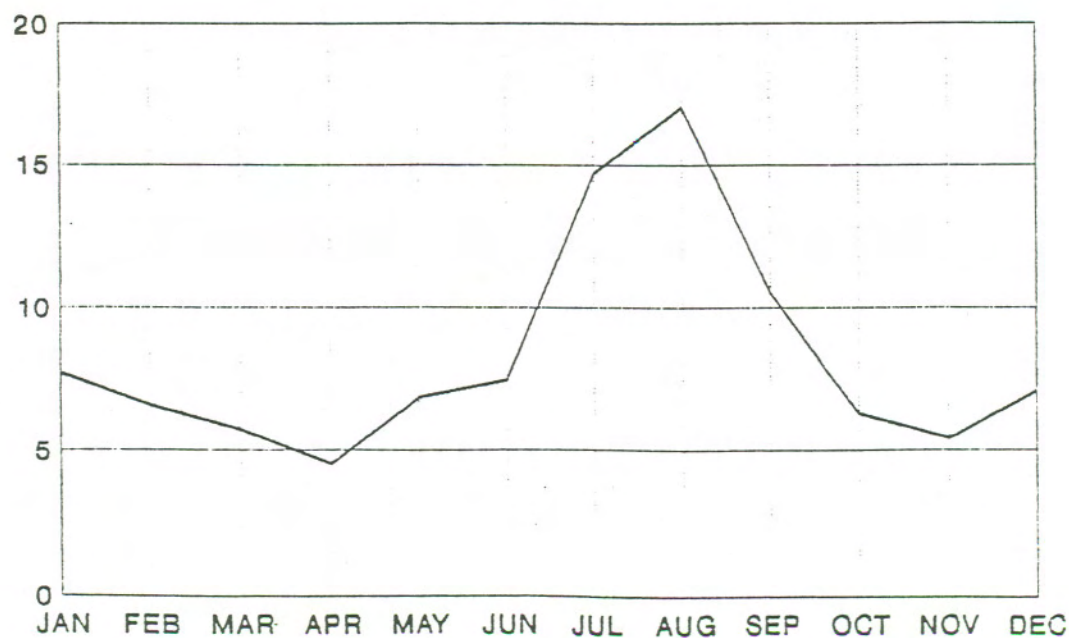


NUMBER OF PRECIPITATION DAYS (A TRACE OR MORE OF PRECIP.) PER MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	6	8	5	4	6	2	14	15	18	3	6	3	90
81	10	3	6	5	5	9	8	14	10	4	2	2	78
82	7	7	1	2	7	3	17	16	12	1	11	9	93
83	11	9	7	7	5	5	14	12	14	8	7	6	105
84	5	0	3	4	4	14	15	21	5	13	7	12	103
85	12	7	6	7	4	14	17	13	13	11	4	1	109
86	2	8	9	6	8	14	14	15	11	10	11	12	120
87	5	8	7	7	12	11	9	19	8	6	5	8	105
88	7	6	3	4	8	10	14	23	9	7	5	7	103
89	2	7	5	2	5	3	18	20	9	4	1	6	82
90	6	7	6	6	1	5	21	12	16	2	7	6	95
91	13	7	8	1	3	6	20	20	12	4	8	10	112
92	9	8	10	6	23	6	14	18	5	7	3	15	124
93	13	8	4	3	5	3	13	20	6	10	3	5	93
AVE	7.7	6.6	5.7	4.5	6.9	7.5	14.7	17.0	10.5	6.3	5.4	7.1	100
MIN	0	0	0	0	0	2	6	4	0	0	0	0	42
YR	1967	1984	1971	1972	1961	1980	1978	1960	1956	1979	1970	1973	1956
MAX	13	14	15	11	23	17	23	25	19	15	12	15	124
YR	1993	1973	1968	1952	1992	1972	1974	1963	1958	1957	1978	1992	1992

LEGEND: ANL: ANNUAL, MIN: MINIMUM VALUE, MAX: MAXIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE, AVE: AVERAGE VALUE

Days with Precipitation



CLIMATOLOGICAL PROBABILITY OF PRECIPITATION, BY DAY AND MONTH
44 YEAR AVERAGES, 1950-1993, VALUES IN PERCENT
WHITE SANDS MISSILE RANGE, NM

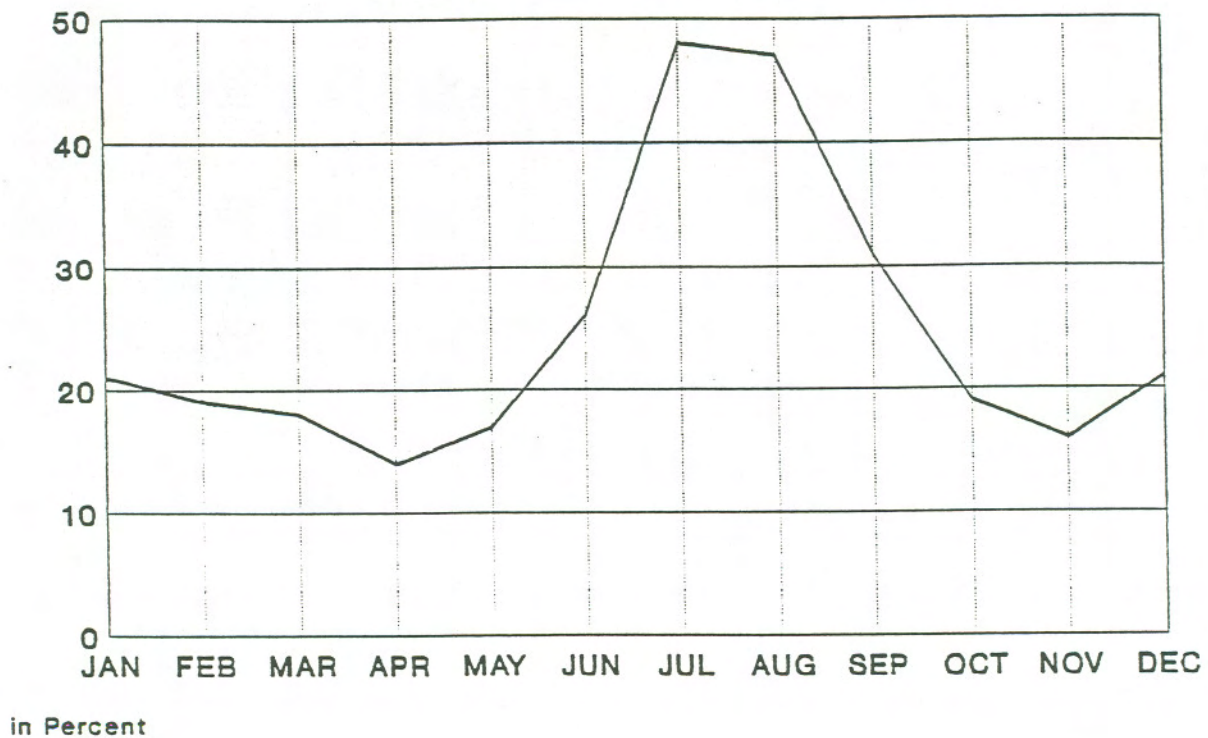
PLEASE NOTE THAT FROM MARCH 1956-APRIL 1961 "A" STATION WAS CLOSED DURING WEEKENDS. SOME RAINFALL DAYS MAY HAVE BEEN MISSED AND THIS MAY CAUSE THE ACTUAL PROBABILITIES OF PRECIPITATION TO BE SOMEWHAT HIGHER THAN THE VALUES LISTED. ALSO NOTE THAT THESE PROBABILITIES DO INCLUDE THE PROBABILITY OF TRACE (LESS THAN .01) AMOUNTS. THE PROBABILITY OF MEASURABLE RAINFALL OCCURRING WILL BE LOWER THAN THOSE LISTED IN THE CHART BELOW.

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YR
1	32	23	23	7	11	27	30	64	39	23	11	14	
2	32	25	32	16	25	30	27	59	34	25	16	14	
3	25	14	30	14	18	27	39	57	30	20	16	16	
4	20	14	16	16	11	23	50	50	41	20	7	20	
5	18	25	18	11	23	16	41	41	52	16	5	27	
6	30	11	9	11	18	16	43	41	39	18	14	14	
7	16	18	16	14	11	20	36	52	39	11	20	23	
8	23	25	16	9	9	20	57	45	34	20	20	27	
9	27	30	14	5	5	20	43	36	48	16	14	23	
10	30	25	27	9	9	20	45	43	36	18	11	18	
11	30	18	36	14	14	18	48	52	32	16	9	23	
12	20	20	14	18	11	32	59	50	34	11	11	25	
13	20	25	7	11	11	30	41	61	36	16	20	27	
14	11	34	14	11	14	18	43	48	39	18	14	23	
15	14	20	11	9	23	23	45	45	34	16	30	18	
16	20	14	18	16	25	18	45	50	20	20	20	18	
17	39	18	20	16	23	23	50	52	32	18	25	18	
18	23	20	14	16	16	27	50	50	36	23	23	34	
19	20	25	23	11	27	27	52	59	36	25	14	20	
20	34	25	18	11	25	32	70	59	23	27	5	16	
21	23	14	16	23	20	16	57	50	20	27	18	16	
22	20	7	7	16	16	27	45	48	32	25	11	20	
23	18	16	16	11	16	20	55	34	32	14	16	11	
24	11	18	11	14	18	36	64	36	34	14	18	14	
25	11	18	18	16	20	41	57	39	20	14	20	16	
26	11	16	23	18	25	23	52	48	18	23	18	25	
27	14	14	32	9	25	27	48	43	14	16	16	32	
28	11	20	23	18	16	36	52	39	11	11	16	25	
29	14	0	27	16	11	41	48	45	9	27	14	27	
30	20		14	18	18	39	43	39	23	16	20	20	
31	23		9		18		50	36		23		25	
AVE	21	19	18	14	17	26	48	47	31	19	16	21	24.8

LEGEND: DAY: DAY OF MONTH, AVE: AVERAGE FOR EACH MONTH, YR: AVERAGE PROBABILITY OF RAINFALL ON ANY GIVEN DAY OF THE YEAR (24.8%)

Probability of Precipitation

Average Daily Probability



GREATEST ONE-DAY (MIDNIGHT TO MIDNIGHT) RAINFALL IN INCHES, BY MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
50	.06	.28	T	T	.25	.11	1.00	.01	.95	.58	.00	T	1.00
51	.07	.36	.19	.42	.10	T	.04	1.15	.04	.37	.19	.75	1.15
52	.40	.80	.60	.95	.37	.44	.60	1.01	.20	.00	.16	.38	1.01
53	.00	1.01	.05	.30	.17	.30	.92	.10	.14	.60	.02	.10	1.01
54	.06	T	.23	T	.17	.14	.57	.29	.73	.96	.00	.04	.96
55	.36	.03	.25	T	.04	.13	1.27	.45	.09	1.73	.05	T	1.73
56	.06	.09	.00	T	.00	.63	.15	.44	.00	.20	T	.61	.63
57	.25	1.40	.52	.01	.50	T	.41	.75	.32	1.73	.13	T	1.73
58	.77	.38	.93	.23	.40	1.00	1.31	1.32	1.00	1.10	.22	T	1.32
59	.14	.65	.12	T	.82	.35	.80	4.25	T	.49	.03	.21	4.25
60	.96	.36	.15	T	.13	.36	1.95	.74	.03	1.45	.01	.55	1.95
61	.56	T	.33	T	.00	1.26	2.31	.41	.41	.04	.89	.39	2.31
62	.44	.37	.26	.35	T	.07	1.59	.09	1.24	.59	.26	.75	1.59
63	.06	.42	T	.17	T	.04	.50	.76	.86	.34	.36	T	.86
64	.21	.20	1.26	.06	.23	T	.46	.66	2.96	.02	.03	.63	2.96
65	.67	.99	.15	.16	.29	.50	.48	.57	.81	.37	.26	.63	.99
66	.18	.46	.08	.90	.05	2.40	.79	.81	2.09	.21	.48	.16	2.40
67	.00	.45	.28	.01	.09	.31	.46	.37	.97	.01	.74	1.02	1.02
68	.55	.39	.31	.05	.01	.35	1.34	.40	.25	.23	.73	.73	1.34
69	.10	.06	.05	.01	.51	1.02	1.93	2.91	.39	.70	.19	.60	2.91
70	.02	.16	.39	T	.10	.62	1.44	1.51	.09	.26	.00	.36	1.51
71	.13	.17	.00	.20	.05	.32	2.06	.18	.22	1.30	.67	.46	2.06
72	.41	T	T	.00	.03	1.01	.59	2.58	.80	1.51	.36	.82	2.58
73	.47	.85	.18	T	.17	.05	2.50	.59	.11	T	.13	.00	2.50
74	.73	.02	.34	.16	T	.22	.75	.37	1.66	1.56	.08	.45	1.66
75	.23	.35	1.13	.08	.19	T	.32	.81	1.50	.19	.53	.23	1.50
76	.22	.36	.09	.47	.59	.46	1.16	.37	.46	.65	.71	.01	1.16
77	.33	T	.20	.60	.07	.66	1.45	1.09	.36	.27	.04	.23	1.45
78	.31	.30	.30	.03	.41	.80	.30	.54	1.31	1.46	.78	.54	1.46
79	.51	.24	.01	.09	.21	.05	2.62	.92	.61	.00	.01	.51	2.62
80	.42	.80	.09	.31	.67	T	.19	.98	.81	.51	.15	.01	.98
81	.39	.10	.32	.99	.48	.50	.18	1.10	.37	.35	.44	T	1.10
82	.35	.36	T	.03	.15	.15	.65	.32	1.42	.12	.35	1.58	1.58
83	.09	.46	.09	.50	.06	.09	.25	.49	.22	.44	.19	.13	.49
84	.20	.00	.04	.02	.71	1.58	.25	2.01	.26	1.23	.41	.83	2.01
85	.38	.40	.63	.90	.34	.32	1.18	.60	.75	2.11	.15	.05	2.11
86	.08	.32	.23	T	.53	.91	.59	1.97	.45	.48	1.83	.71	1.97
87	.48	.57	.31	.50	.29	1.03	.27	2.54	.35	.07	.33	2.18	2.54
88	.16	1.62	.02	.26	.04	.77	1.25	2.32	.27	.26	.82	1.02	2.32
89	.28	.81	.40	T	.50	.03	.36	.59	1.00	.16	.03	.29	1.00
90	.45	.06	.42	.30	.28	.14	.45	.51	1.61	.14	.59	.28	1.61
91	.20	.37	.07	T	.26	.29	1.45	1.24	.90	.15	.19	1.22	1.45
92	.50	.24	.11	.26	.79	.64	.55	.42	.22	.09	.07	.71	.79
93	.40	.11	.02	.16	.25	.25	1.11	.83	.02	.19	.20	.35	1.11
MAX	.96	1.62	1.26	.99	.82	2.40	2.62	4.25	2.96	2.11	1.83	2.18	4.25
YR	1960	1988	1964	1981	1959	1966	1979	1959	1964	1985	1986	1987	1959

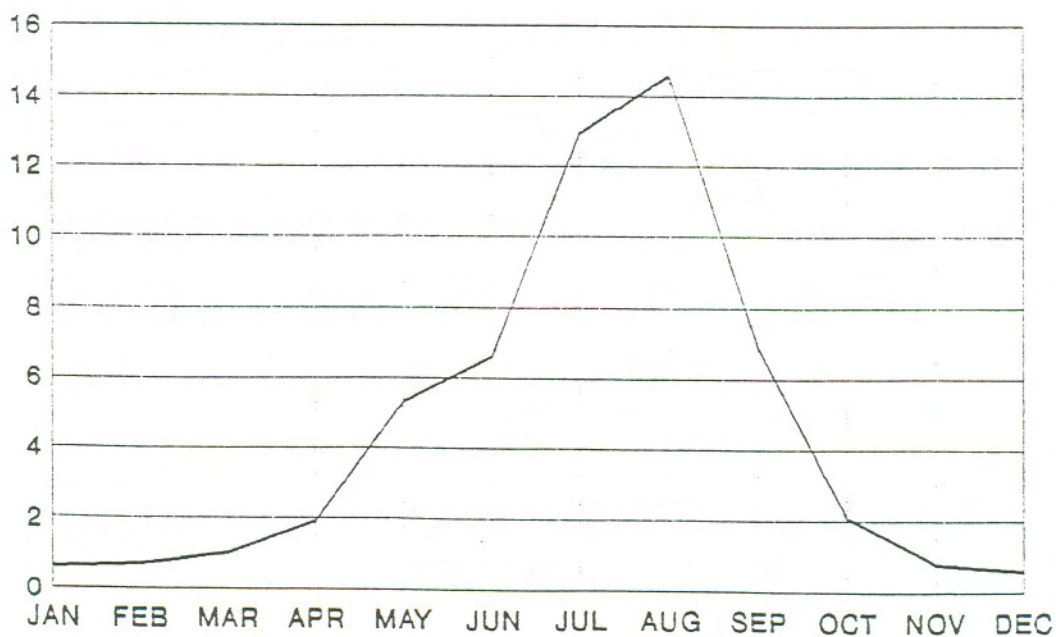
LEGEND: ANL: ANNUAL, MAX: MAXIMUM VALUE, T: TRACE (LESS THAN .01")

NUMBER OF THUNDERSTORM DAYS PER MONTH
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	1	0	0	0	5	1	12	4	9	2	0	0	34
81	0	0	3	6	3	8	10	20	5	2	0	0	57
82	1	1	1	1	4	3	14	10	10	0	0	1	46
83	1	1	1	0	5	3	11	7	7	4	2	1	43
84	0	0	0	0	3	11	10	15	6	5	2	1	53
85	0	1	2	5	3	13	13	15	9	4	0	0	65
86	0	1	2	1	5	16	14	15	10	4	4	1	73
87	0	2	0	3	8	10	8	15	4	2	1	1	54
88	0	0	0	2	6	7	16	19	5	2	1	0	58
89	1	0	1	0	4	2	12	18	5	1	0	0	44
90	2	1	2	4	1	3	19	13	10	0	0	0	55
91	1	1	0	1	3	4	18	20	9	2	0	3	62
92	1	1	2	3	19	8	12	13	5	0	0	0	64
93	1	1	0	1	5	4	12	20	3	1	1	1	50
AVE	0.6	0.7	1.0	1.9	5.3	6.6	12.9	14.6	6.9	2.1	0.8	0.6	54.1
MIN	0	0	0	0	0	0	5	4	0	0	0	0	19
YR	1988	1989	1993	1989	1962	1951	1957	1980	1959	1992	1992	1992	1956
MAX	3	2	3	6	19	16	21	20	10	8	4	3	73
YR	1973	1987	1981	1981	1992	1986	1976	1991	1990	1972	1986	1991	1986

LEGEND: ANL: ANNUAL, MAX: MAX VALUE, MIN: MINIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE.

Thunderstorm Days

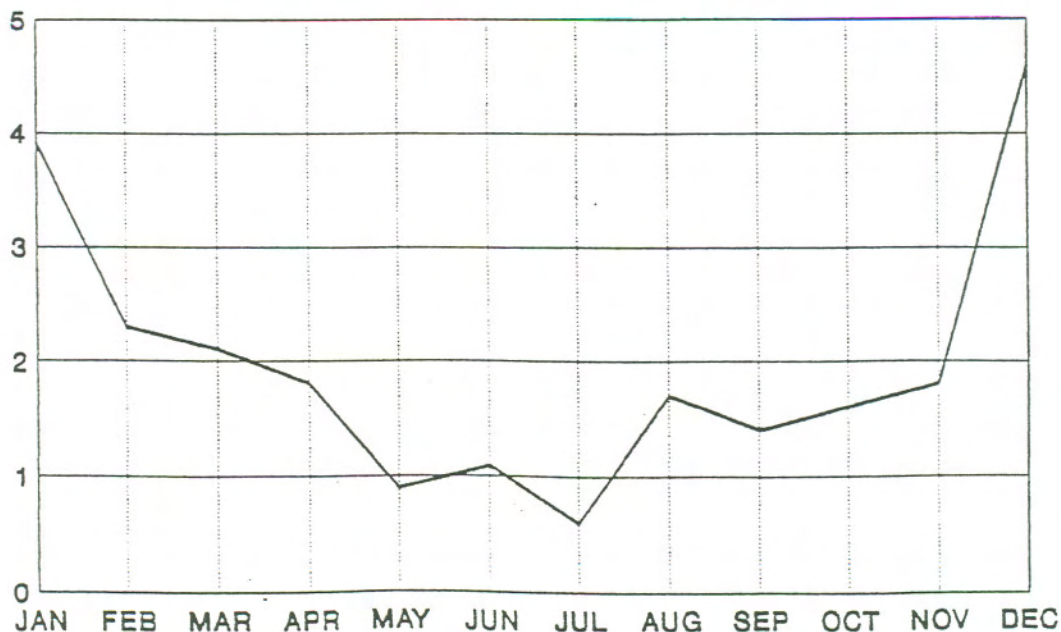


NUMBER OF DAYS WITH VISIBILITY 6 MILES OR LESS
14 YEARS, 1980-1993
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	4	4	2	2	2	1	0	0	5	2	2	0	24
81	5	1	5	2	1	1	1	2	3	0	2	0	23
82	1	1	2	2	0	0	0	1	3	1	3	7	21
83	8	0	0	6	0	0	0	0	0	2	3	1	20
84	1	1	2	2	2	2	0	4	0	4	0	8	26
85	7	2	3	0	0	2	1	0	1	4	2	2	24
86	3	4	1	2	2	2	0	2	0	2	3	9	30
87	1	3	4	2	0	2	0	3	1	1	0	11	28
88	4	4	2	2	0	1	0	6	1	0	2	4	26
89	1	6	3	0	2	0	2	3	0	2	1	2	22
90	3	0	0	2	1	3	1	0	3	0	2	2	17
91	6	4	4	1	0	0	2	2	2	2	2	9	34
92	5	1	0	1	1	1	1	1	0	0	1	7	19
93	5	1	1	1	1	0	1	0	0	2	2	2	16
AVE	3.9	2.3	2.1	1.8	0.9	1.1	0.6	1.7	1.4	1.6	1.8	4.6	23.6
MIN	1	0	0	0	0	0	0	0	0	0	0	0	16
YR	1989	1990	1992	1989	1991	1993	1988	1993	1993	1992	1987	1981	1993
MAX	8	6	5	6	2	3	2	6	5	4	3	11	34
YR	1983	1989	1981	1983	1989	1990	1991	1988	1980	1985	1986	1987	1991

SPRINGTIME REDUCTIONS ARE USUALLY DUE TO BLOWING DUST
SUMMERTIME REDUCTIONS ARE USUALLY DUE TO RAIN AND FOG
FALL REDUCTIONS ARE USUALLY DUE TO RAIN, DUST AND FOG
WINTERTIME REDUCTIONS ARE USUALLY DUE TO FOG, RAIN, SNOW
AND OCCASIONAL DUST

Days with VSBY 6 Miles or Less



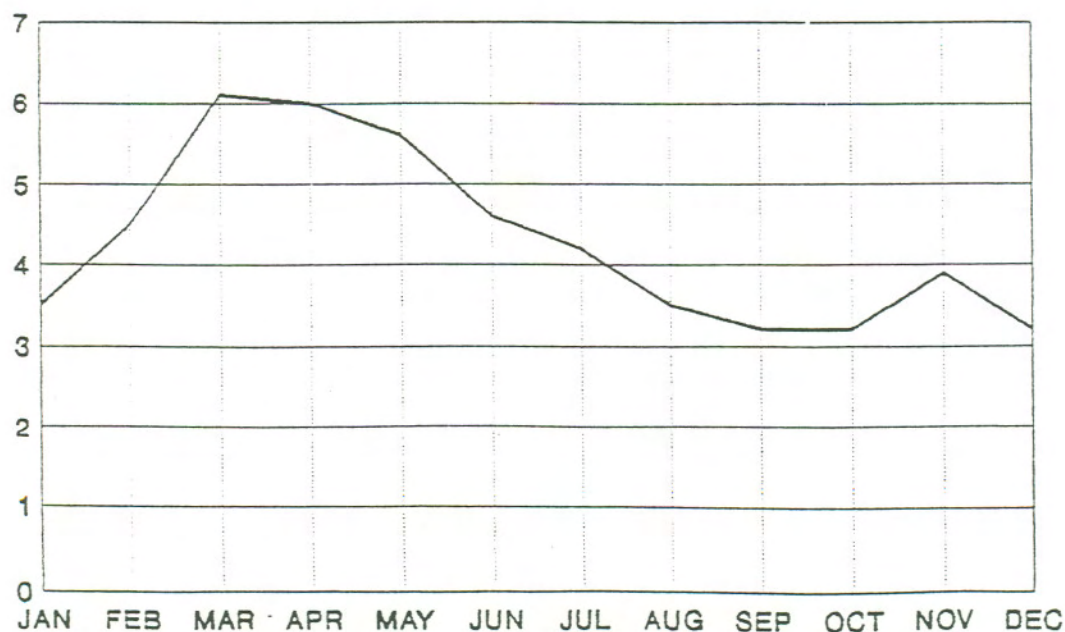
AVERAGE MONTHLY AND ANNUAL WIND SPEED IN KNOTS
WHITE SANDS MISSILE RANGE, NM

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	6.1	6.5	8.6	7.0	6.3	5.7	6.3	5.0	4.4	6.5	4.7	3.5	5.8
81	3.3	5.6	7.9	7.6	8.4	6.5	5.3	5.3	4.2	4.0	6.0	5.0	5.7
82	6.0	5.4	8.0	8.0	6.3	6.0	6.0	5.0	3.2	2.7	3.6	3.2	5.3
83	2.7	4.0	7.2	6.2	4.8	4.2	2.9	2.4	2.5	2.1	4.1	4.7	4.0
84	2.0	4.3	4.8	6.6	5.1	3.5	2.5	2.0	2.2	2.5	2.6	2.1	3.4
85	3.6	4.5	6.5	6.3	5.4	5.1	3.7	3.7	3.9	3.7	5.7	3.1	4.6
86	3.2	5.0	5.2	5.2	4.7	3.1	3.2	2.9	3.0	2.5	2.7	1.8	3.5
87	2.7	4.1	5.3	4.9	5.0	2.9	4.7	2.9	2.4	2.5	2.9	2.7	3.6
88	3.2	3.0	5.9	5.7	6.2	4.8	4.4	3.5	3.8	2.9	5.2	3.8	4.4
89	3.8	4.9	5.8	6.2	6.0	4.2	3.6	3.3	2.8	3.1	2.9	2.4	4.1
90	3.2	4.6	4.7	5.5	5.6	5.0	4.5	4.0	3.0	3.5	3.6	4.4	4.3
91	2.6	3.4	6.7	6.1	5.8	4.6	3.5	2.7	3.0	3.4	3.3	2.1	3.9
92	2.5	3.1	4.4	3.7	4.4	4.0	3.9	3.1	3.3	3.0	3.1	3.2	3.5
93	3.7	4.3	4.5	5.6	4.7	4.8	4.6	3.3	3.2	3.0	2.9	2.5	3.9
AVE	3.5	4.5	6.1	6.0	5.6	4.6	4.2	3.5	3.2	3.2	3.9	3.2	4.3
MIN	2.0	3.0	4.7	4.9	4.7	2.9	2.5	2.0	2.2	2.1	2.6	1.8	3.4
YR	1984	1988	1990	1987	1986	1987	1984	1984	1984	1983	1984	1986	1984
MAX	8.3	8.7	10.5	11.4	10.6	8.6	6.9	6.4	6.4	6.9	7.9	8.9	7.6
YR	1957	1975	1973	1967	1971	1951	1967	1978	1960	1971	1973	1951	1951

NOTE: MARCH-MAY IS THE WINDY SEASON

LEGEND: ANL: ANNUAL, AVE: AVERAGE, MIN: MINIMUM VALUE, MAX: MAXIMUM VALUE, YR: YEAR OF MOST RECENT OCCURRENCE

Average Wind Speed in Knots



AVERAGE MONTHLY AND ANNUAL 24 HOUR CLOUD COVER IN TENTHS
WHITE SANDS MISSILE RANGE, NM
AVERAGES: 13 YEARS, 1980-1992 EXTREMES: 32 YEARS 1961-1992

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANL
80	5.7	4.2	3.5	3.1	3.3	3.0	4.3	5.3	5.3	2.1	3.2	3.1	3.8
81	5.9	4.1	4.2	4.5	3.5	3.1	4.8	4.8	4.8	4.3	2.8	3.2	4.1
82	4.0	5.0	5.0	5.9	2.5	3.5	5.4	5.2	4.8	2.8	6.1	5.6	4.8
83	4.7	4.7	4.7	3.4	1.7	1.9	4.6	4.6	4.5	4.1	3.4	4.6	3.9
84	3.4	2.3	3.5	2.5	3.0	5.3	4.8	6.2	3.1	4.9	3.6	6.1	4.1
85	5.1	4.0	5.6	3.5	4.6	4.1	4.7	5.2	4.8	4.0	4.0	2.5	4.3
86	3.0	4.4	3.8	5.5	4.3	5.6	5.5	6.4	3.7	4.4	4.2	5.3	4.7
87	3.4	4.9	3.6	4.3	5.0	4.3	4.1	5.1	3.9	4.5	2.8	4.1	4.2
88	4.9	4.4	2.0	3.2	2.6	4.2	5.4	6.5	2.6	2.7	2.0	3.5	3.7
89	3.5	5.1	3.4	3.0	2.9	2.9	5.8	6.1	2.8	2.6	3.1	3.0	3.7
90	2.9	3.3	4.9	4.3	3.8	3.6	6.2	5.4	5.4	1.6	3.8	3.5	4.1
91	5.3	5.4	3.9	2.4	2.1	3.2	6.5	5.9	5.5	2.4	2.9	4.9	4.2
92	4.9	5.3	3.5	3.1	6.3	2.8	3.9	4.5	2.5	3.1	2.9	6.8	4.1
AVE	4.4	4.4	4.0	3.7	3.5	3.7	5.1	5.5	4.1	3.3	3.4	4.3	4.1
MIN	2.0	2.3	2.0	1.8	1.7	1.2	3.5	2.4	1.3	1.0	1.4	2.1	2.7
YR	1975	1984	1988	1964	1983	1975	1961	1962	1968	1975	1964	1963	1964
MAX	5.9	5.7	6.2	5.9	6.3	5.6	6.5	6.5	5.5	4.9	6.1	6.8	4.8
YR	1981	1973	1968	1982	1992	1986	1991	1988	1991	1984	1982	1992	1982

LEGEND: ANL: ANNUAL, MIN: MINIMUM VALUE, MAX: MAXIMUM VALUE
AVE: AVERAGE VALUE, YR: YEAR OF MOST RECENT OCCURRENCE

24 Hour Cloud Cover

