

Climate Guide

Las Cruces, 1892-2000



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This report updates and expands several earlier NMSU Agricultural Experiment Station publications that address the Las Cruces area climate. Houghton (1972) first provided a concise and useful summary of the climate of Las Cruces. Malm and Houghton (1977) updated the earlier work, as did Kunkel, Malm and Earl (1988) and Malm (1994). These publications, now out of print, were valuable for research and educational applications. This report updates and expands those earlier works.

AREA AND STATION DESCRIPTION

Las Cruces, the seat of Doña Ana County, is in the Rio Grande Valley in south-central New Mexico, about 25 mi. north of the Texas border. The wide, level, river valley runs northwest to southeast, with rolling desert land bordering the valley to the southwest and west. Twelve mi. to the east, the Organ Mountains form a rugged background with peaks more than 8,500 ft above mean sea level. The valley narrows to the northwest and is bordered by low hills and buttes. Las Cruces is the center of a verdant agricultural area where cotton, truck and feed crops are grown under irrigation from large upstream reservoirs or by water pumped from wells.

This area of New Mexico has an arid, continental climate, characterized by light and variable total precipitation, large diurnal and moderate annual temperature ranges, low relative humidity and abundant sunshine. The average annual precipitation of 8-9 in. is too little to produce dryland crops but enough to produce considerable forage on nearby grazing lands. Temperature and precipitation averages and extremes are shown (table 1).

The Las Cruces area has one of the longest weather records in New Mexico. Intermittent precipitation records compiled from measurements taken at various

military installations began in 1851. From September 1851 through May 1861, measurements were made at Fort Fillmore, 7 mi. southeast of Las Cruces; from November 1865 through February 1877 and January 1886 through September 1890 at Fort Seldon, 14 mi. northwest of Las Cruces; and from August 1878 through July 1882, at La Mesilla, 2 mi. southwest of Las Cruces.

Temperature and precipitation measurements began at Las Cruces, when a climatological cooperative observer station was established by the Weather Bureau on Jan. 1, 1892, at the New Mexico College of Agriculture and Mechanic Arts, now NMSU. This station has operated since that time, and data have been published under the station names of Las Cruces until 1898, Mesilla Park until 1908, Agricultural College until April 1959, and State University to date. Evaporation measurements were added in 1918. Various university personnel have supervised the weather records. Professor J.C. Overpeck provided the longest service from 1923 to 1967.

Instruments have been located approximately 2 mi. southeast of the main post office in Las Cruces and within 50 ft of the present elevation (3,881 ft).

The mean annual temperature of Las Cruces is 60.5°F. Monthly temperatures vary from 41.9°F in January to 79.8°F in July, a moderate but not extreme range. The average diurnal range is 32.5°F, which is quite large, but typical of high elevation deserts.

Temperatures of 100°F or greater are not unusual, but occur less frequently than commonly thought. An average of nine days per year will hit the century mark, mostly in June and July. There have been four years when the temperature did not reach 100°F (1927, 1938, 1941 and 1988). At the other extreme, three years have experienced more than 30 days with 100°F temperatures (1951, 32 days; 1978, 33 days; and 1980, 32 days). The highest temperature of record is 110°F on June 28, 1994. During a prolonged spell of extremely

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hot weather lasting from June 18 to July 12, 1951, the daily high temperatures ranged from 96°F to 109°F, with only four of the 25 days failing to reach 100°F.

The coldest temperature of record is -10°F on January 11, 1962. However, temperatures of zero degrees or lower are rare, with only eight occurrences since 1892.

Table 2 lists monthly averages of heating, cooling and growing degree days. Growing degree bases of 50, 55 and 60°F are shown. Growing degree days (GDD) for a single day are defined by the formula, $T(\text{mean}) - T(\text{base})$, where $T(\text{mean})$ is the average of the daily maximum and daily minimum temperatures, and $T(\text{base})$ is the base temperature (50, 55, or 60°F). Cooling degree days are defined by the same formula with $T(\text{base}) = 65^\circ\text{F}$. Heating degree days (HDD) for a single day are defined by $T(\text{base}) - T(\text{mean})$, where $T(\text{base}) = 65^\circ\text{F}$. Degree days for a month are the sum of degree days for each day in the month.

Table 3 shows monthly mean temperatures for 1892-2000.

Precipitation varies according to season. Summer is the rainy season with more than half of the annual precipitation falling during July through September. Nearly three-fourths of the annual precipitation falls in the warmest six months, May through October.

Most summer rainfall occurs from brief, sometimes heavy, thundershowers. The average annual number of thundershowers (showers that occur close enough for thunder to be heard) is about 42 (based on El Paso, Texas, data; Changeny, 1981).

The primary source of summer moisture is the Gulf of Mexico. During late spring and early summer, a semipermanent, high-pressure center in the Atlantic Ocean (the so-called Bermuda High) strengthens and extends its influence westward over New Mexico. At this point, prevailing winds shift from the west to the south and southeast, allowing the advection of moisture from the Gulf of Mexico (Bryson and Lowry, 1955). The development of the Yuma thermal low-pressure center enhances the southerly flow of moist tropical air into the region (Hales, 1972).

The end of the rainy season occurs when this high pressure center weakens in early fall, and winds shift back to the west. Occasionally, remnants of tropical storms or hurricanes can reach New Mexico and cause significant rainfall. During July and August, these hurricanes originate in the Gulf of Mexico; in September and October, as the prevailing winds begin to shift, hurricanes forming in the eastern subtropical Pacific, locally known as Chubascos, may track north and northeastward across New Mexico (Court, 1980). The second-largest, 24-hour rainfall of 4.11 in. on Sept. 21, 1941, was probably caused by one of these eastern Pacific hurricanes.

November through May is the dry season, with precipitation for each month averaging 0.5 in. or less. April

is the driest month, averaging only 0.21 in. The midlatitude storm track is generally to the north of Las Cruces during the winter, resulting in sunny and dry conditions. Precipitation that occurs in the winter results from Pacific storm systems that track farther south than the average.

Snowfall averages only 3.2 in. per year. About one year in three receives no measurable snowfall. The greatest seasonable snowfall was 16.4 in. in 1931-1932. The winters of 1982-1983 and 1984-1985 were close behind with 16.3 and 16.2 in., respectively.

The greatest 24-hour rainfall of 6.49 in. began at 11:05 p.m., Aug 29, 1935. Some rain intensities follow for various time periods during this storm: 5 min., 0.64 in.; 10 min., 1.06 in.; 15 min., 1.50 in.; 30 min., 2.48 in.; 1 hour, 2.77 in.; 2 hours, 4.15 in. Approximately 5 in. fell in 3 hours, and almost 6 in. in 4 hours. The U.S. Cotton Field Station, located almost one-half mile south of the point at which the 6.49 in. of rain was recorded, received between 6.80 and 6.81 in. of rain during the same period of 7 hours and 55 minutes. The area of excessive precipitation appears to have been only 3 or 4 mi. wide and about 7 mi. long (Hardy et al., 1939).

The wettest year on record was 1941 with 19.60 in. The driest year was 1970 with only 3.44 in. The period around 1900 was very wet, but was followed by a very dry period around 1910. The longest drought in Las Cruces began in 1945 and continued through 1956. Since 1956, conditions have become progressively wetter.

Table 4 lists monthly precipitation totals for 1851-1891. Table 5 lists monthly precipitation for 1892-2000.

Las Cruces has abundant sunshine, averaging more than 80% of the time, making the area ideal for solar energy applications. Table 6 lists the percentage of sunshine, as well as the solar radiation incident on a horizontal surface. Values in this table were measured at the El Paso, Texas, airport, located 40 mi. south of Las Cruces (Morris, et al., 1985; National Climatic Data Center, 1978). There are no long-term measurements for Las Cruces, but there is no reason to expect significant differences between El Paso and Las Cruces. The sunniest months are May and June, when winter storm systems no longer affect the area and the summer Gulf of Mexico moisture has not yet arrived.

Table 7 lists monthly values for dewpoint temperature and relative humidity. The dewpoint temperature is related directly to absolute water vapor content and shows high values in the midsummer and low values in the midwinter. Relative humidity is a strong function of temperature as well as water vapor content. The lowest relative humidity values occur from April through June, while relatively high values occur in both midwinter and midsummer. Because relative humidity is a strong function of temperature, its values

vary considerably between night and day. Maximum values occur in the early morning hours, while minimum values occur in midafternoon.

Winds usually are light, with an annual average speed of 6 miles per hour. Late winter and spring is the windiest period, and moderately strong winds can cause blowing dust and sand during dry periods. Blowing dust also can occur briefly in advance of thunderstorms with strong gusty winds. Although the general movement of air over Las Cruces is from the southwest, southeasterly winds are more frequent in summer and fall.

SOIL TEMPERATURES

Since 1977, soil temperatures have been measured at a depth of 4 in. These measurements can be used to determine planting dates for successful seed germination. Table 8 shows average soil temperatures for February through May.

CLIMATE CALENDAR

Table 9 shows temperature data by day for the entire year based on the 109 years of data. Data include average maximum temperature, average minimum temperature, highest maximum temperature and year of occurrence, and lowest minimum temperature and year of occurrence. Also shown are the lowest maximum temperature and the highest minimum temperature, along with the years of occurrence.

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Table 1. Climatological summary, means and extremes, Las Cruces, 1892–2000.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Temperatures (F)													
(based on 109-year record)													
Means													
Daily max	57.7	62.8	69.2	77.0	85.4	94.1	94.0	91.6	86.8	77.7	66.1	57.5	76.7
Daily min	26.1	29.8	35.1	42.1	49.9	59.1	65.7	63.9	56.9	44.1	32.2	26.7	44.2
Monthly	41.9	46.2	52.1	59.6	67.7	76.7	79.8	77.7	71.8	61.0	49.1	42.4	60.5
Extremes													
Record high	78	86	90*	96*	103	110	109	105	102	96	87	78	110
Year	1970	1904	1989	2000	1951	1994	1951	1907	1945	2000	1988	1958	1994
Record low	-10	2	11	20*	27*	35	42	44	30	20	-4	1*	-10
Year	1962	1899	1965	1948	1967	1921	1938	1925	1945	1898	1976	1953	1962
Mean degree													
Days**	726	543	411	184	41	1	0	0	9	159	486	717	3278
Precipitation Totals (in.)													
(based on 109-year record)													
Mean	0.41	0.38	0.32	0.21	0.31	0.63	1.53	1.89	1.34	0.79	0.46	0.58	8.74
Greatest daily	1.85	1.56	2.03	1.85	1.79	3.72	4.55	7.41	7.53	1.66	1.20	1.23	7.53
Year	1944	1923	1900	1905	1916	1903	1973	1935	1941	1985	1978	1984	1941
Extremes													
Monthly max	1.85	1.66	2.03	1.89	1.99	4.90	4.55	7.41	7.53	3.21	2.59	3.74	19.60
Year	1949	1923	1905	1905	1992	2000	1927	1935	1941	1998	1978	1914	1941
Monthly min	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.07	0.14	0.00*	0.00*	0.00*	0.00*	3.44
Year	1986	1984	1982	1991	1974	1989	1948	1911	1959	1979	1979	1980	1970
Snow, sleet													
Mean	0.8	0.5	0.2	0.1	0	0	0	0	0	0	0.6	1.0	3.2
Monthly max	9.3	10.4	8.0	7.0	0	0	0	0	0	0	12.7	10.3	12.7
Year	1985	1956	1909	1983							1976	1931	1976
Greatest daily	9.0	9.0	4.0	5.0	0	0	0	0	0	0	9.0	1931	9.0*
Year	1985	1956	1909	1983							1976	1931	1976
Evaporation (in.)													
(based on 83-year record)													
Mean	3.02	4.28	7.54	10.13	12.34	13.32	12.06	10.47	8.16	6.15	3.78	2.72	94.08

T = trace, an amount too small to measure.

* Also on earlier dates, months or years.

** Base 65°F.

Location: 32 deg. 17' N. lat., 106 deg. 45' W. long., 3,881 ft elevation.

Table 2. Degree days.

Base	Elem*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
----- Heating-Degree Days -----														
65	Avg	724	540	408	181	40	1	0	0	9	156	482	716	3257
	Max	893	763	577	332	147	19	1	2	59	280	688	939	4105
	Min	530	300	171	56	1	0	0	0	0	35	317	547	2558
----- Cooling-Degree Days -----														
65	Avg	0	0	1	16	114	347	452	389	205	26	0	0	1550
	Max	0	0	20	153	264	490	587	536	336	114	2	0	2062
	Min	0	0	0	0	24	171	282	294	95	0	0	0	1046
----- Growing-Degree Days -----														
50	Avg	8	28	113	288	535	792	916	854	645	337	61	7	4593
	Max	66	138	304	438	716	940	1046	1001	778	491	155	37	5407
	Min	0	0	26	144	368	612	747	757	487	192	3	0	3862
55	Avg	1	5	40	158	382	642	761	699	495	197	15	1	3404
	Max	12	44	169	293	561	790	891	846	628	336	57	9	4126
	Min	0	0	0	40	221	462	592	602	342	67	0	0	2765
60	Avg	0	1	8	62	236	492	606	544	347	87	1	0	2391
	Max	1	8	60	163	406	640	735	691	478	209	20	1	2994
	Min	0	0	0	3	94	312	437	447	207	8	0	0	1819

*Avg = average; Max = highest value on record; Min = lowest value on record.

Table 3. Monthly mean temperatures, Las Cruces, State University Weather Station, 1892-2000.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	10-year mean
1892	39.3	46.1	50.7	59.8	70.2	79.7	80.3	76.9	70.6	58.6	47.2	40.5	60.0	
1893	43.5	45.5	50.6	58.7	64.7	77.2	78.5	75.0	70.2	56.8	45.0	42.7	59.0	
1894	37.1	39.5	48.9	59.6	66.9	72.6	77.5	75.4	69.3	62.1	49.0	44.7	58.6	
1895	40.6	40.8	50.7	59.3	65.1	72.6	75.7	74.6	70.3	56.0	45.5	37.4	57.4	
1896	41.5	41.9	50.7	56.3	67.1	76.7	76.2	75.7	71.2	58.7	49.7	42.7	59.0	
1897	39.1	43.6	50.1	58.1	68.2	74.2	76.1	74.9	69.2	58.0	50.1	38.9	58.4	
1898	37.1	46.7	49.3	60.4	62.7	72.1	75.8	75.3	68.3	56.7	46.0	35.5	57.2	
1899	38.9	40.3	50.8	56.7	62.5	72.2	76.5	75.6	68.8	miss	miss	41.4	miss	
1900	44.6	46.3	55.0	54.4	69.1	78.5	80.2	78.2	74.1	61.8	49.7	40.9	61.1	58.6
1901	43.9	47.8	50.4	56.8	68.6	75.6	79.7	79.9	73.3	60.8	51.8	42.8	61.0	
1902	43.0	46.5	50.0	62.2	68.4	78.0	77.2	76.7	69.4	60.8	49.0	42.3	60.3	
1903	41.8	41.0	49.6	60.5	65.2	72.2	80.2	78.0	70.9	57.9	50.0	40.7	59.0	
1904	37.9	48.0	54.6	60.9	68.1	77.1	79.7	77.4	70.7	60.3	47.7	42.0	60.4	
1905	43.8	46.1	53.0	57.0	65.5	77.9	77.6	79.0	72.7	60.5	51.5	37.9	60.2	
1906	39.6	46.5	53.1	60.1	66.3	78.0	78.4	75.9	72.4	59.6	49.6	47.4	60.6	
1907	46.8	50.6	57.8	64.1	64.0	74.8	81.2	80.2	74.1	61.8	49.8	46.1	62.6	
1908	42.4	46.3	56.3	61.4	65.6	75.4	78.9	77.7	71.6	57.6	48.5	44.3	60.5	
1909	47.9	45.1	49.4	58.7	64.9	78.3	81.2	78.9	71.5	62.1	52.2	38.1	60.7	
1910	43.8	44.7	58.3	60.9	71.4	78.6	82.5	81.5	75.7	62.0	52.0	46.4	63.2	60.8
1911	46.0	45.5	56.4	58.5	68.8	76.6	78.1	79.6	74.7	60.5	45.7	34.7	60.4	
1912	42.0	44.0	51.1	55.3	66.9	76.5	79.7	76.5	68.6	58.7	46.2	36.2	58.5	
1913	36.8	42.8	48.9	57.2	67.2	74.8	78.7	77.2	66.2	60.2	51.8	39.4	58.4	
1914	45.2	45.3	49.7	60.7	68.4	76.9	77.6	78.4	72.6	59.8	52.4	41.0	60.6	
1915	39.1	45.7	47.8	59.0	63.4	76.8	80.1	75.5	71.2	60.9	49.0	41.0	59.1	
1916	47.3	49.9	56.8	59.6	66.7	77.8	79.7	77.1	70.8	61.7	46.8	40.1	61.2	
1917	42.0	44.4	48.9	57.9	61.9	75.9	81.5	77.1	71.0	60.1	50.6	44.9	59.7	
1918	38.0	47.8	53.8	59.1	64.7	79.4	79.2	76.7	71.5	61.3	46.8	38.2	59.7	
1919	37.6	40.6	50.3	61.1	67.4	74.7	78.5	78.7	70.8	60.8	49.3	44.3	59.5	
1920	42.6	49.9	49.8	55.6	68.5	75.0	81.0	75.2	71.7	58.6	48.0	38.4	59.5	59.7
1921	44.3	46.0	55.8	57.4	67.5	70.4	78.5	78.1	74.4	63.1	49.7	46.2	61.0	
1922	40.2	46.6	49.7	57.6	68.9	78.4	80.5	79.5	73.4	60.7	46.3	44.8	60.6	
1923	45.0	44.3	48.6	60.2	68.6	75.1	80.0	76.8	69.5	58.5	48.3	39.4	59.5	
1924	38.9	45.6	48.0	56.9	66.8	78.3	79.1	78.9	70.5	60.9	50.3	37.6	59.3	
1925	38.0	48.6	54.8	61.9	68.4	76.4	79.8	74.4	69.8	59.3	46.2	36.7	59.5	
1926	36.6	45.9	49.9	56.6	65.2	75.0	77.0	75.1	72.5	61.1	49.1	42.5	58.9	
1927	44.8	50.4	51.5	58.5	67.6	74.5	78.5	75.4	70.7	60.1	53.6	40.6	60.5	
1928	41.6	45.2	54.4	57.1	67.8	75.0	78.3	74.6	69.5	62.5	47.8	41.1	59.6	
1929	40.4	43.4	50.7	58.3	66.8	76.7	78.2	75.1	72.5	61.2	44.3	39.6	58.9	
1930	41.3	48.6	49.1	63.5	64.6	77.2	77.9	77.2	70.9	59.8	47.0	39.2	59.7	59.8
1931	41.2	46.8	49.8	58.6	67.5	77.5	78.6	74.9	74.3	63.2	46.9	38.0	59.8	
1932	36.1	48.1	48.2	58.7	67.2	74.0	80.2	78.5	69.3	58.4	46.8	38.4	58.7	
1933	40.1	41.8	53.0	55.3	63.0	74.1	80.2	77.2	74.5	61.6	48.0	41.0	59.2	
1934	36.4	46.5	51.9	62.0	71.3	75.9	81.7	80.2	72.2	62.5	49.1	43.6	61.1	
1935	43.7	44.2	52.9	60.0	63.1	77.0	81.5	78.6	68.5	60.7	46.5	41.7	59.9	
1936	39.8	46.1	52.2	60.3	69.9	77.1	79.3	77.2	70.2	58.5	46.7	42.4	60.0	
1937	37.3	44.6	48.7	58.3	67.5	75.3	79.8	79.1	72.7	61.6	49.1	43.2	59.8	
1938	42.1	48.1	52.1	58.5	66.8	75.2	74.1	76.0	69.2	62.0	43.7	42.9	59.2	
1939	40.4	37.7	51.8	59.8	67.5	75.9	78.8	76.1	71.7	58.5	48.6	44.6	59.3	
1940	38.7	45.1	52.9	58.5	68.3	74.9	79.0	76.2	72.9	60.4	46.0	46.3	59.9	59.7

Table 3. Monthly mean temperatures, Las Cruces, State University Weather Station, 1892-2000 (continued).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	10-year mean
1941	42.6	48.8	49.8	55.4	68.7	73.6	77.3	76.1	71.7	60.9	49.1	43.0	59.8	
1942	42.8	43.6	48.6	58.9	65.4	76.2	79.2	76.7	69.9	60.0	51.6	45.2	59.8	
1943	42.7	48.4	53.2	62.6	68.0	76.9	78.9	80.8	70.8	58.7	47.8	41.7	60.9	
1944	39.0	45.7	49.6	55.4	65.1	73.6	78.6	77.1	68.7	62.3	45.5	40.3	58.4	
1945	42.0	46.3	49.2	55.8	65.5	72.3	80.1	78.9	70.5	59.8	48.1	39.4	59.0	
1946	37.5	42.5	51.5	63.5	65.9	79.0	79.5	79.4	73.8	61.2	45.5	43.3	60.2	
1947	38.2	45.6	51.2	57.3	69.0	73.5	80.5	77.0	71.3	61.9	44.8	38.0	59.0	
1948	38.0	44.7	47.5	61.2	69.3	77.8	80.0	78.7	71.6	59.8	42.1	42.0	59.4	
1949	36.2	44.1	52.2	59.0	67.5	77.6	80.1	77.2	72.5	58.5	51.3	39.9	59.7	
1950	43.4	48.6	52.9	61.3	65.8	78.2	77.9	76.3	70.2	65.3	49.9	45.0	61.2	59.7
1951	38.9	43.9	50.1	57.7	68.2	74.3	82.4	78.8	72.3	63.3	46.5	43.9	60.0	
1952	46.0	43.8	46.4	59.7	68.6	78.7	79.2	79.8	72.3	60.3	46.4	40.0	60.1	
1953	45.6	44.2	53.3	59.8	63.1	78.6	80.7	77.5	69.8	59.5	50.4	36.4	59.9	
1954	43.5	48.9	51.7	64.6	69.0	76.2	80.4	77.1	73.8	62.8	51.1	42.6	61.8	
1955	39.4	39.7	51.8	59.2	66.7	74.9	77.2	76.9	72.1	61.5	48.8	45.4	59.5	
1956	45.4	41.6	51.9	56.9	69.6	80.7	79.1	75.8	71.7	62.2	44.6	41.3	60.1	
1957	46.2	54.3	52.7	59.7	65.0	77.3	81.4	78.1	70.0	59.6	46.5	43.8	61.2	
1958	40.5	48.4	48.9	60.0	70.6	81.3	81.4	79.2	72.2	60.7	50.3	43.5	61.4	
1959	44.5	46.4	50.8	61.7	67.9	79.6	80.1	78.4	71.8	61.4	47.8	43.9	61.2	
1960	39.2	43.0	55.8	61.1	68.4	80.5	78.6	78.8	73.3	60.8	51.3	39.7	60.9	60.6
1961	42.2	46.4	53.7	60.2	70.1	77.8	80.6	78.0	71.0	61.0	47.3	44.7	61.1	
1962	40.9	50.4	48.3	63.6	67.9	75.8	78.8	80.3	73.1	63.0	53.2	44.5	61.7	
1963	39.9	49.1	54.1	62.1	72.4	77.2	82.0	77.2	73.8	63.8	51.3	42.0	62.1	
1964	37.5	40.0	50.9	59.1	69.9	76.4	81.3	79.4	72.3	61.5	49.1	42.5	60.0	
1965	46.0	45.4	49.9	61.5	68.2	74.4	81.1	78.0	71.1	60.6	54.5	44.4	61.3	
1966	38.7	41.2	53.5	61.1	70.2	76.0	81.4	77.4	71.6	58.3	52.3	42.1	60.3	
1967	41.7	47.9	57.4	62.1	66.9	76.2	81.6	77.4	72.0	62.1	51.4	40.5	61.4	
1968	42.0	50.4	52.1	58.3	69.2	78.0	78.9	75.7	70.4	63.5	50.2	40.6	60.8	
1969	46.9	47.0	49.1	62.9	69.0	76.4	81.1	82.3	72.8	62.0	49.9	45.1	62.0	
1970	42.4	47.7	50.6	57.3	68.4	76.6	80.4	77.7	71.7	57.2	49.8	46.0	60.5	61.2
1971	44.6	47.1	54.8	59.2	67.1	77.5	82.1	76.1	72.8	61.0	50.9	43.6	61.4	
1972	44.1	48.7	59.6	61.3	68.0	77.2	81.3	77.2	71.2	64.9	46.6	43.7	62.0	
1973	40.4	44.7	50.5	55.6	67.1	75.3	78.9	76.7	72.6	60.7	52.1	43.4	59.8	
1974	44.5	44.0	57.2	59.6	69.8	78.5	77.9	75.0	69.3	62.4	49.1	39.1	60.5	
1975	41.8	45.1	51.5	54.6	64.5	75.2	78.3	77.9	70.7	61.1	49.4	42.7	59.4	
1976	40.9	50.4	52.6	60.1	66.1	76.4	78.5	78.6	70.5	56.3	44.8	39.3	59.5	
1977	41.8	45.9	48.4	60.4	66.2	77.3	80.1	80.5	74.3	62.8	52.0	45.7	61.3	
1978	43.4	44.8	54.4	61.6	67.4	80.4	83.0	77.6	69.8	61.4	51.5	40.2	61.3	
1979	38.9	45.3	51.4	59.9	65.8	74.6	80.9	75.3	71.3	62.9	46.4	42.2	59.6	
1980	45.9	48.3	50.0	57.6	64.6	79.8	83.7	78.4	71.9	57.8	48.3	46.3	61.1	60.6
1981	44.1	47.7	51.4	63.1	69.0	79.0	81.4	76.6	71.3	61.6	52.1	46.5	62.0	
1982	43.4	47.3	54.2	60.0	66.2	76.2	81.1	79.9	73.3	59.5	49.0	41.6	61.0	
1983	41.6	47.6	52.5	54.0	65.8	74.3	81.2	79.4	75.9	62.9	51.3	42.6	60.8	
1984	43.4	45.2	54.0	59.6	73.1	77.8	80.3	77.3	72.6	58.2	49.8	44.1	61.3	
1985	39.3	44.4	53.3	61.6	69.4	76.8	79.9	78.7	71.1	61.2	51.2	43.3	60.9	
1986	46.1	51.0	55.9	64.6	69.4	77.3	79.1	79.4	72.0	61.1	48.6	42.1	62.2	
1987	42.0	46.8	50.6	59.5	68.2	77.0	80.8	78.2	70.9	65.8	50.7	40.4	60.9	
1988	41.9	48.5	52.9	59.6	69.7	78.0	80.1	77.5	71.1	65.7	53.3	42.1	61.7	
1989	42.9	49.1	57.4	66.1	72.1	79.5	82.7	78.2	73.2	63.2	52.7	41.6	62.2	
1990	42.0	45.4	54.7	64.3	69.5	83.9	79.9	76.3	74.1	62.0	52.7	43.3	62.3	61.5

Table 3. Monthly mean temperatures, Las Cruces, State University Weather Station, 1892-2000 (continued).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	10-year mean
1991	43.5	50.3	51.7	60.7	69.9	76.6	78.5	78.1	70.1	64.2	48.6	43.7	61.3	
1992	39.7	47.7	53.8	63.1	68.5	76.7	81.7	78.2	74.3	64.2	47.0	42.6	61.5	
1993	46.3	48.4	54.7	61.1	69.8	78.5	81.8	79.8	72.5	61.8	49.3	44.0	62.3	
1994	44.2	46.5	55.5	62.0	71.1	83.3	84.0	83.0	74.9	63.2	51.5	47.4	63.9	
1995	43.1	52.9	55.9	58.5	67.6	77.8	81.2	82.4	74.2	63.5	55.3	46.1	63.2	
1996	44.9	53.4	53.0	61.5	73.7	80.8	82.0	78.4	72.4	63.2	52.6	44.8	63.4	
1997	43.3	47.5	56.6	59.5	72.4	77.3	81.7	79.8	77.9	62.2	51.2	40.1	63.6	
1998	45.0	45.4	51.8	56.8	69.5	76.7	82.8	79.9	78.2	64.5	53.8	45.0	62.5	
1999	46.7	51.9	55.9	58.6	69.0	76.1	80.5	80.0	74.9	62.4	55.6	42.2	62.8	
2000	48.7	51.5	55.5	65.3	75.7	79.2	83.1	80.0	75.0	62.2	47.4	44.0	64.1	62.8

Table 4. Monthly total precipitation, 1851-1890.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Local Mean
Ft. Fillmore (7 mi. southeast of Las Cruces)														
1851	miss	1.40	0.11	2.13	1.74	miss								
1852	miss	0.29	0.04	0.20	0.40	1.74	3.84	1.00	1.47	0.77	2.66	0.00	miss	
1853	0.04	0.10	0.03	0.01	0.05	0.28	2.80	1.83	1.21	0.90	1.15	0.64	9.04	
1854	0.00	0.00	0.65	0.10	0.86	0.05	0.87	1.38	0.95	0.39	0.67	0.15	6.07	
1855	0.00	0.00	0.12	0.45	0.10	0.07	2.63	1.29	2.31	0.09	0.45	0.00	7.51	
1856	0.00	1.85	0.30	0.00	0.00	0.85	0.86	2.48	2.61	0.00	0.27	0.00	9.22	
1857	0.30	0.95	0.00	0.26	0.00	0.00	0.43	3.68	2.24	2.41	0.00	0.13	10.40	
1858	0.00	0.00	0.22	0.00	0.00	0.78	2.50	1.61	0.00	0.00	0.00	0.00	5.11	
1859	0.00	0.14	0.00	0.00	0.00	0.00	1.18	1.15	1.59	0.30	1.16	0.00	5.52	
1860	0.06	1.10	miss	0.00	0.00	0.30	1.10	0.00	0.90	0.00	0.00	0.00	miss	
1861	1.60	0.00	0.00	0.00	0.00	miss	7.55							
1862-1864 missing														
Ft. Seldon (14 mi. northwest of Las Cruces)														
1865	miss	0.00	1.00	miss										
1866	0.00	0.00	0.81	0.15	0.25	0.52	2.12	2.52	0.73	0.00	0.52	0.17	7.79	
1867	0.21	0.60	0.38	0.00	0.01	0.03	4.31	0.80	2.90	0.26	0.17	0.22	9.89	
1868	0.67	0.02	0.08	0.12	1.13	0.01	2.00	1.79	1.68	0.38	0.33	1.50	9.71	
1869	0.71	1.27	0.46	0.53	0.18	2.15	0.36	5.09	0.14	1.01	0.50	0.20	12.60	
1870	0.00	0.00	0.00	0.00	0.00	1.70	5.20	4.00	0.70	0.65	0.00	0.25	12.50	
1871	0.00	0.00	0.00	0.00	0.22	0.60	2.30	1.05	2.75	0.00	0.00	0.00	6.92	
1872	0.15	0.00	0.00	0.00	0.00	0.09	1.19	0.85	1.10	0.25	0.00	2.70	6.33	
1873	0.03	0.00	0.00	0.01	0.02	0.28	0.20	2.24	0.30	0.11	0.26	0.04	3.49	
1874	0.59	0.55	0.26	0.62	0.01	0.18	0.39	1.10	0.35	0.62	0.71	0.75	6.13	
1875	0.00	0.00	0.00	0.00	0.00	0.02	3.47	0.50	1.58	0.00	0.00	0.12	5.69	
1876	0.97	0.02	0.02	0.00	0.20	0.91	0.40	1.10	2.32	2.65	0.26	0.00	8.85	
1877	0.01	4.46	0.20	0.77	0.46	0.00	2.80	0.01	0.91	0.98	0.06	0.41	11.07	8.16
1878	0.07	0.43	0.69	0.15	1.38	1.02	2.06							
La Mesilla (2 mi. southwest of Las Cruces)														
								0.61	0.21	0.09	1.29	0.07	8.07	
1879	1.20	0.62	0.31	0.03	0.00	0.03	1.87	1.02	0.18	0.78	0.00	1.26	7.30	
1880	0.14	0.43	0.52	0.45	0.00	0.00	1.92	1.03	1.02	0.35	0.13	1.11	7.10	
1881	0.04	0.00	0.14	0.09	1.75	0.43	3.90	3.13	1.96	2.14	0.56	0.91	15.05	
1882	0.63	1.36	0.41	0.01	0.10	0.72	1.32	2.82	0.40	0.00	1.46	0.00	9.23	10.96
1883-1885 missing														
Ft. Seldon (14 mi. northwest of Las Cruces)														
1886	0.00	0.10	0.00	0.00	0.00	0.62	3.16	1.05	3.25	2.27	0.60	0.00	11.05	
1887	0.10	0.30	0.00	0.00	0.58	0.20	0.68	2.64	1.94	0.74	0.00	0.24	7.42	
1888	0.16	1.15	0.82	0.54	0.00	0.00	1.28	0.76	0.67	2.52	2.71	0.48	11.09	
1889	1.30	0.51	0.20	0.04	0.08	0.74	0.59	0.26	1.62	1.06	0.67	0.00	7.07	
1890	0.73	0.00	0.02	0.04	0.00	0.29	0.84	2.63	1.34	0.41	0.35	0.28	6.93	8.71
1891 missing														
1851 – 1890														
Avg.	0.31	0.51	0.21	0.14	0.24	0.47	1.89	1.66	1.34	0.70	0.58	0.50	8.55	

Table 5. Monthly total precipitation, Las Cruces, 1892-1991.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	10-year mean
1892	0.67	0.36	0.46	0.08	0.00	0.03	1.33	0.75	0.05	0.08	1.47	0.51	5.79	
1893	0.07	1.26	0.02	0.00	0.77	0.00	2.04	4.19	2.39	0.03	0.03	0.02	10.82	
1894	0.08	0.05	0.26	0.02	0.00	0.00	0.62	2.06	0.18	0.47	0.00	0.73	4.47	
1895	0.45	0.24	0.01	0.00	0.52	0.10	3.03	2.19	0.96	1.20	0.45	0.32	9.47	
1896	0.31	0.11	0.00	0.11	0.10	1.01	2.50	0.47	1.24	2.14	0.00	0.00	7.99	
1897	0.35	0.00	0.46	0.23	1.54	0.07	2.25	1.16	2.14	0.73	0.00	0.03	8.96	
1898	0.38	0.02	0.26	0.69	0.00	1.83	5.90	1.81	1.29	0.15	0.68	1.38	14.39	
1899	0.05	0.09	0.19	0.13	0.00	0.63	4.54	1.81	0.77	0.03	1.20	0.23	9.67	
1900	0.33	0.42	1.36	0.31	0.88	0.16	1.52	0.90	1.80	0.45	0.23	0.04	8.40	8.61
1901	0.31	0.95	0.61	0.30	0.00	1.08	2.23	1.35	1.25	2.85	0.98	0.05	11.96	
1902	0.02	0.00	0.05	0.00	0.01	0.07	2.16	5.77	1.22	0.00	0.61	0.99	10.90	
1903	0.20	0.98	0.37	0.08	0.10	3.65	0.97	1.50	2.43	0.00	0.00	0.01	10.29	
1904	0.00	0.11	0.00	0.00	0.05	0.70	1.36	1.24	4.02	1.52	0.50	0.63	10.13	
1905	1.01	1.26	2.03	1.89	0.06	0.58	1.83	1.48	3.08	0.83	2.14	0.90	17.09	
1906	0.81	0.68	0.13	0.50	0.40	0.00	2.21	0.45	0.31	0.24	2.03	1.04	8.80	
1907	0.74	0.00	0.05	0.00	0.22	0.58	0.75	1.42	1.16	0.57	0.93	0.00	6.42	
1908	0.38	0.65	0.17	0.27	0.22	0.00	1.99	1.33	0.03	0.22	0.65	0.06	5.97	
1909	0.01	0.09	0.89	0.00	0.00	0.55	0.71	1.11	0.92	0.18	0.00	0.48	4.94	
1910	0.22	0.02	0.33	0.10	0.00	0.25	1.10	1.46	0.23	0.03	0.11	0.17	4.02	9.05
1911	0.27	0.78	0.60	0.32	0.10	0.33	1.36	0.14	1.18	0.30	0.00	0.42	5.80	
1912	0.00	0.08	0.30	0.80	0.08	0.12	0.48	5.04	0.70	0.98	0.32	0.30	9.20	
1913	0.49	0.80	0.20	1.40	0.01	2.63	1.27	1.33	1.70	0.00	0.80	1.10	11.73	
1914	0.10	0.16	0.10	0.00	0.32	1.85	2.08	1.48	0.92	0.54	0.56	3.74	11.85	
1915	0.64	0.59	1.23	0.11	0.00	0.00	1.24	1.32	2.11	0.01	0.00	0.12	7.37	
1916	0.25	0.18	0.67	0.07	0.97	0.00	0.50	1.28	0.69	2.50	0.52	0.15	7.78	
1917	0.19	0.00	0.01	0.01	0.34	0.00	1.31	3.09	0.51	0.00	0.12	0.00	5.58	
1918	0.41	0.08	0.00	0.00	0.05	0.69	1.02	1.64	0.05	0.98	1.43	0.88	7.23	
1919	0.10	0.00	1.31	0.46	0.05	0.29	1.21	0.90	2.09	0.61	0.78	0.25	8.05	
1920	0.72	0.43	0.07	0.00	0.58	1.20	1.05	2.74	0.08	1.30	0.01	0.00	8.18	8.28
1921	0.21	0.12	0.04	0.04	0.36	0.58	1.29	1.63	1.68	1.09	0.57	0.23	7.64	
1922	0.56	0.00	0.00	0.30	0.38	0.30	0.45	1.05	1.32	0.48	0.49	0.25	5.58	
1923	0.16	1.66	0.75	0.17	0.00	0.00	1.32	2.96	0.74	0.38	1.38	0.84	10.36	
1924	0.08	0.06	0.47	0.36	0.05	0.00	2.28	0.68	0.45	0.23	0.00	0.17	4.83	
1925	0.02	0.26	0.00	0.00	0.32	0.10	1.37	3.46	0.05	1.73	0.00	0.49	7.80	
1926	0.49	0.04	1.95	0.55	1.75	0.08	2.36	0.25	3.31	1.79	0.20	1.58	14.35	
1927	0.03	0.27	0.64	0.00	0.00	0.70	4.55	1.26	1.64	0.00	0.00	0.38	9.47	
1928	0.03	0.69	0.06	0.09	1.79	0.01	1.20	2.14	0.16	2.08	0.98	0.14	9.37	
1929	0.02	0.19	0.84	0.06	0.93	0.22	2.16	1.94	0.61	1.09	0.90	0.26	9.22	
1930	0.15	0.02	0.02	0.30	0.13	0.29	2.07	1.10	0.62	0.44	1.07	0.67	6.88	8.54
1931	0.81	1.14	0.18	0.88	0.06	0.42	2.25	3.48	1.65	0.18	0.83	1.38	13.26	
1932	0.25	0.68	0.02	0.06	0.65	1.42	0.70	1.56	1.39	1.14	0.00	0.96	8.83	
1933	0.25	0.43	0.00	0.26	0.05	1.56	0.45	1.06	0.24	0.22	0.19	0.00	4.71	
1934	0.00	0.25	0.45	0.01	0.20	0.03	1.72	0.35	0.40	0.68	0.22	0.31	4.62	
1935	0.19	0.29	0.10	0.10	1.07	0.25	0.38	7.41	0.90	0.42	0.90	0.66	12.67	
1936	0.98	0.29	0.13	0.07	0.70	0.14	1.53	1.35	2.12	0.40	1.02	0.77	9.50	
1937	0.01	0.52	0.71	0.00	0.31	0.71	0.67	0.85	1.40	1.42	0.03	0.38	7.01	
1938	0.55	0.34	0.15	0.02	0.03	1.02	3.65	0.29	2.53	0.06	0.08	0.55	9.27	
1939	0.68	0.05	0.15	0.04	0.00	0.31	0.72	0.75	1.27	0.80	0.72	0.28	5.77	
1940	0.11	0.65	0.03	0.22	0.65	1.75	1.46	0.68	1.73	0.73	0.63	0.58	9.22	8.49
1941	1.36	0.39	1.26	1.04	0.73	0.90	2.35	2.28	7.53	0.97	0.31	0.48	19.60	
1942	0.21	0.48	0.00	0.82	0.00	0.47	1.04	3.04	1.06	1.61	0.00	1.07	9.80	
1943	0.48	0.00	0.38	0.04	0.52	1.02	1.30	0.94	1.24	0.00	0.57	1.06	7.55	
1944	0.13	0.94	0.19	0.01	0.39	0.62	1.23	2.65	0.63	1.06	1.01	0.41	9.27	
1945	0.25	0.05	0.16	0.06	0.00	0.00	1.49	1.92	0.25	1.55	0.00	0.04	5.77	
1946	0.82	0.03	0.00	0.01	0.36	0.29	0.14	2.16	2.30	0.12	0.15	0.64	7.02	
1947	1.11	0.05	0.48	0.00	0.19	0.49	0.28	2.38	0.00	0.00	0.60	0.50	6.08	
1948	0.18	1.43	0.16	0.07	0.04	0.86	0.07	0.46	0.39	0.37	0.00	1.13	5.16	
1949	1.85	0.46	0.07	0.06	0.79	0.15	1.14	0.73	2.37	0.88	0.00	0.51	9.01	
1950	0.11	0.48	0.00	0.00	0.06	0.25	2.41	0.51	1.14	0.38	0.00	0.00	5.34	8.52

Table 5. Monthly total precipitation, Las Cruces, 1892-1991 (continued).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	10-year mean
1951	0.31	0.38	0.16	0.42	0.02	0.00	1.47	0.96	0.00	0.74	0.08	0.51	5.05	
1952	0.00	0.72	0.71	0.56	0.16	1.07	1.11	1.22	0.37	0.00	0.19	0.12	6.23	
1953	0.00	0.68	0.41	0.03	0.00	0.28	1.31	0.33	0.00	0.57	0.00	0.20	3.81	
1954	0.07	0.30	0.10	0.00	0.82	0.26	0.72	1.34	0.96	1.25	0.00	0.00	5.82	
1955	0.66	0.00	0.39	0.00	0.15	0.08	3.17	0.59	0.01	2.10	0.11	0.00	7.26	
1956	0.18	1.04	0.00	0.02	0.00	0.52	0.86	1.35	0.09	0.28	0.00	0.44	4.78	
1957	0.32	1.48	0.53	0.02	0.34	0.00	0.81	2.66	0.50	1.82	0.85	0.00	9.33	
1958	0.86	1.38	1.84	0.21	0.29	0.39	0.90	3.30	3.42	1.06	0.36	0.00	14.01	
1959	0.05	0.17	0.00	0.04	0.72	0.53	0.56	2.81	0.00	0.83	0.05	0.18	5.94	
1960	0.73	0.16	0.16	0.00	0.01	0.13	2.86	1.00	0.58	0.77	0.08	1.25	7.73	7.00
1961	0.74	0.02	0.14	0.00	0.00	2.29	1.10	1.77	1.53	0.03	1.63	0.81	10.06	
1962	0.87	0.48	0.02	0.13	0.00	0.25	1.19	0.54	1.79	0.59	0.01	0.52	6.39	
1963	0.00	0.92	0.00	0.04	0.00	0.15	1.34	2.22	0.67	0.50	0.27	0.00	6.11	
1964	0.02	0.00	0.56	0.12	0.07	0.27	0.51	0.32	1.18	0.03	0.00	0.54	3.62	
1965	0.26	0.47	0.20	0.02	0.29	0.85	0.83	1.85	1.73	0.47	0.22	1.10	8.29	
1966	0.25	0.25	0.38	0.39	0.01	3.72	0.82	1.86	1.17	0.50	0.40	0.09	9.84	
1967	0.00	0.11	0.04	0.00	0.30	1.42	1.79	2.20	1.35	0.00	0.56	0.65	8.42	
1968	0.52	0.84	1.09	0.27	0.03	0.15	2.55	3.89	1.28	0.38	1.75	0.42	13.17	
1969	0.49	0.20	0.10	0.00	0.41	0.95	3.97	1.59	1.33	1.31	0.15	1.41	11.91	
1970	0.00	0.41	0.49	0.00	0.09	0.30	0.75	0.74	0.36	0.11	0.00	0.19	3.44	8.13
1971	0.11	0.00	0.00	0.17	0.00	0.00	1.77	0.80	0.57	1.29	0.42	0.64	5.77	
1972	0.25	0.00	0.00	0.00	0.11	1.81	1.29	3.23	1.44	3.11	0.28	0.69	12.21	
1973	0.93	1.27	0.30	0.00	0.40	1.19	4.12	0.73	0.15	0.02	0.03	0.00	9.14	
1974	0.64	0.00	0.39	0.00	0.00	0.06	3.24	3.39	3.12	1.94	0.31	0.74	13.83	
1975	0.49	0.36	0.24	0.00	0.48	0.00	0.80	2.57	1.89	0.63	0.23	0.39	8.08	
1976	0.31	0.35	0.03	0.56	0.24	0.85	1.81	0.34	1.45	0.87	0.90	0.03	7.74	
1977	0.38	0.00	0.28	0.17	0.13	0.17	1.41	2.54	2.10	1.24	0.08	0.24	8.74	
1978	0.73	0.35	0.15	0.00	1.02	1.03	0.89	2.60	2.99	1.86	2.59	0.77	14.98	
1979	0.76	0.20	0.00	0.39	0.22	0.32	0.81	4.96	0.49	0.00	0.00	1.22	9.37	
1980	0.74	0.98	0.26	0.65	0.77	0.00	0.15	1.59	2.07	0.49	0.35	0.00	8.05	9.77
1981	0.58	0.03	0.44	0.86	0.68	0.84	0.91	2.66	1.20	0.82	0.65	0.01	9.68	
1982	0.87	0.15	0.00	0.00	0.22	0.01	0.57	2.14	1.15	0.75	0.48	1.53	7.87	
1983	0.77	0.70	0.22	0.68	0.45	0.20	0.29	0.87	0.14	1.33	1.46	0.17	7.28	
1984	0.50	0.00	0.11	0.01	1.09	1.11	0.38	4.82	0.27	2.73	0.40	2.37	13.79	
1985	1.28	0.89	0.09	0.59	0.04	0.14	1.39	2.05	2.68	3.19	0.09	0.12	12.55	
1986	0.00	0.19	0.22	0.04	0.61	2.08	1.85	1.99	1.76	0.60	1.60	2.06	13.00	
1987	0.21	0.22	0.03	0.01	0.05	1.27	0.19	4.78	0.62	0.24	0.31	1.24	9.17	
1988	0.18	0.84	0.07	0.31	0.07	0.26	1.55	3.79	2.05	1.09	0.06	0.97	11.24	
1989	0.30	0.78	0.67	0.00	0.57	0.00	0.71	3.79	0.76	0.29	0.04	1.03	8.94	
1990	0.51	0.04	0.20	0.88	0.30	0.02	1.87	2.22	1.44	1.02	0.62	0.41	9.53	10.31
1991	0.44	0.35	0.69	0.00	0.32	0.12	1.70	5.19	2.23	0.40	0.31	2.91	14.66	
1992	1.50	0.04	0.35	0.44	1.99	0.15	0.55	3.19	0.77	0.64	0.06	1.31	10.99	
1993	1.82	0.19	0.20	0.02	0.02	0.40	2.28	2.55	0.28	0.73	0.24	0.77	9.50	
1994	0.09	0.17	0.13	0.37	0.51	0.11	3.36	0.57	0.80	0.28	0.65	1.11	8.15	
1995	0.71	0.60	0.07	0.01	0.11	0.17	1.71	0.47	2.79	0.00	0.21	0.32	7.17	
1996	0.34	0.03	0.00	0.46	0.00	1.00	1.47	0.90	1.68	0.26	0.06	0.00	6.20	
1997	0.58	0.45	0.51	0.19	0.10	1.30	1.09	2.91	1.14	0.47	0.80	1.47	11.01	
1998	0.23	0.31	0.45	0.00	0.00	0.31	1.22	0.84	0.03	3.21	0.43	0.14	7.17	
1999	0.12	0.00	0.09	0.03	0.37	1.19	2.19	1.87	1.73	0.85	0.00	0.74	9.19	
2000	0.00	0.01	0.20	0.00	0.00	4.90	1.59	0.61	0.11	1.37	1.01	0.14	9.94	9.40

Table 6. Sunshine and solar radiation.

Month	Possible sunshine %	Solar radiation langleys/day
Jan	78	299
Feb	82	416
Mar	85	519
Apr	87	631
May	89	715
Jun	89	729
Jul	79	672
Aug	80	614
Sep	82	526
Oct	84	461
Nov	83	339
Dec	78	282
Annual avg	83	516

Table 7. Dewpoint and relative humidity.

Month	Dewpoint temperature °F	Early morning relative humidity %	Late afternoon relative humidity %
Jan	24	62	34
Feb	23	55	26
Mar	22	43	20
Apr	25	37	17
May	31	37	16
Jun	41	41	17
Jul	54	58	28
Aug	55	60	29
Sep	50	59	30
Oct	39	58	29
Nov	28	57	30
Dec	25	62	34
Annual avg	35	52	26

Table 8. Average soil temperatures at 4 in. depth.

Date	Temp	Date	Temp	Date	Temp	Date	Temp
Feb 1	45	Mar 1	53	Apr 1	60	May 1	71
Feb 2	45	Mar 2	53	Apr 2	60	May 2	71
Feb 3	46	Mar 3	53	Apr 3	61	May 3	71
Feb 4	46	Mar 4	54	Apr 4	62	May 4	71
Feb 5	46	Mar 5	54	Apr 5	62	May 5	72
Feb 6	46	Mar 6	54	Apr 6	62	May 6	72
Feb 7	46	Mar 7	54	Apr 7	63	May 7	73
Feb 8	46	Mar 8	54	Apr 8	63	May 8	73
Feb 9	47	Mar 9	54	Apr 9	64	May 9	74
Feb 10	47	Mar 10	55	Apr 10	64	May 10	75
Feb 11	47	Mar 11	56	Apr 11	64	May 11	75
Feb 12	47	Mar 12	56	Apr 12	65	May 12	74
Feb 13	48	Mar 13	56	Apr 13	65	May 13	74
Feb 14	49	Mar 14	56	Apr 14	65	May 14	74
Feb 15	48	Mar 15	56	Apr 15	66	May 15	75
Feb 16	49	Mar 16	57	Apr 16	66	May 16	75
Feb 17	48	Mar 17	57	Apr 17	67	May 17	75
Feb 18	49	Mar 18	58	Apr 18	67	May 18	75
Feb 19	49	Mar 19	58	Apr 19	68	May 19	75
Feb 20	50	Mar 20	58	Apr 20	69	May 20	76
Feb 21	50	Mar 21	58	Apr 21	70	May 21	75
Feb 22	51	Mar 22	58	Apr 22	69	May 22	75
Feb 23	51	Mar 23	59	Apr 23	69	May 23	76
Feb 24	52	Mar 24	59	Apr 24	70	May 24	77
Feb 25	52	Mar 25	60	Apr 25	70	May 25	77
Feb 26	53	Mar 26	60	Apr 26	70	May 26	78
Feb 27	53	Mar 27	60	Apr 27	70	May 27	78
Feb 28	54	Mar 28	59	Apr 28	70	May 28	79
		Mar 29	59	Apr 29	70	May 29	79
		Mar 30	59	Apr 30	70	May 30	79
		Mar 31	59			May 31	79

Table 9. Daily climate calendar.

January										
Day	1	2	3	4	5	6	7			
Avg max	55	55	55	55	56	56	56			56
Avg min	25	24	24	24	24	24	24			25
High max	73 1910	73 1997	72* 1997	73 1916	72* 1994	73 1909	73 1969			
Low max	30 1947	32 1919	28 1949	31 1949	31 1971	29 1971	21 1913			
High min	48 1952	52 1910	46* 1950	39* 1957	41 1916	40* 1981	47 1916			
Low min	9* 1959	0 1911	5 1911	5 1947	7 1971	7* 1971	0 1913			
Day	8	9	10	11	12	13	14			
Avg max	56	56	56	57	57	57	57			57
Avg min	25	25	25	25	26	26	26			26
High max	74 1927	71 1916	75 1953	73 1953	72 1953	73 1953	71 1957			
Low max	23 1913	28 1913	30 1962	18 1962	33 1962	31 1963	36 1946			
High min	47 1965	47 1957	48 1911	45 1916	45 1910	42 1949	42* 1955			
Low min	-8 1913	0 1913	6 1964	-10 1962	2 1962	6 1892	4 1892			
Day	15	16	17	18	19	20	21			
Avg max	57	58	58	58	58	58	58			58
Avg min	26	26	26	26	26	26	26			26
High max	74 1943	73* 1996	74* 2000	76 1971	77 2000	77 2000	76 1974			
Low max	42 1946	36* 1949	30 1949	36 1949	33 1940	30 1918	27 1918			
High min	46 1957	47 1907	47 1996	46 1907	49 1916	50 1923	45 1911			
Low min	8 1892	11 1898	7 1898	8 1987	8 1984	9* 1940	1 1918			
Day	22	23	24	25	26	27	28			
Avg max	58	59	59	59	59	60	60			60
Avg min	26	26	26	26	27	27	27			27
High max	75 1950	75 1950	78 1970	75 1999	78 1942	75 1975	74* 1986			
Low max	33 1918	29 1926	34 1926	39 1932	39 1949	33 1895	23 1948			
High min	53 1911	46* 1944	45 1943	45 1962	43* 1985	50 1972	46* 1957			
Low min	3 1918	9* 1906	8 1899	10* 1929	12 1932	10 1937	10 1948			
Day	29	30	31							
Avg max	60	60	60							
Avg min	27	28	28							
High max	75 1967	75 1967	77 1911							
Low max	28 1949	32 1949	38 1951							
High min	48 1927	48 1907	45* 1978							
Low min	-6 1948	5 1948	10 1949							
Monthly Summary										
Avg max temp	= 57.7	Avg precip	= 0.41	Avg snow	= 0.8					
Avg min temp	= 26.1	Max precip	= 1.85 1949	Max snow	= 9.3 1985					
High max temp	= 78	Min precip	= 0.00* 2000	Min snow	= 0.0* 1989					
Low min temp	= 10	Max daily precip	= 0.86 29/1936	Max daily snow	= 9.0 13/1985					

* also in earlier years

Table 9. Daily climate calendar (continued).

February										
Day	1	2	3	4	5	6	7			
Avg max	61	61	61	61	61	61	61			
Avg min	28	28	28	28	28	28	28			
High max	7 1963	74 1995	76* 1953	78 1963	77 1963	79 1963	76 2000			
Low max	28 1951	41 1951	28 1956	29 1923	37 1923	38 1899	30 1895			
High min	51* 1963	47 1940	45* 1988	50 1920	47 1920	46 1935	49 1937			
Low min	7 1946	9 1916	9* 1956	9 1903	13 1899	11 1955	2 1899			
Day	8	9	10	11	12	13	14			
Avg max	61	61	61	61	62	62	62			
Avg min	28	28	28	28	28	29	29			
High max	79 1957	80 1957	78* 1996	82 1957	80 1957	80 1957	80 1957			
Low max	37* 1933	36 1929	37* 1980	43 1948	31 1963	42 1963	26 1895			
High min	49 1920	46* 1962	50 1963	55 1912	49 1964	47* 1976	50 1962			
Low min	7* 1933	11 1896	10 1946	12 1946	3 1899	6 1899	7 1895			
Day	15	16	17	18	19	20	21			
Avg max	62	63	63	63	63	64	64			
Avg min	29	29	29	29	30	30	30			
High max	79 2000	78 1904	78 1996	80* 1996	80 1977	80* 1986	81 1901			
Low max	28 1895	37 1928	39 1910	40 1905	38 1911	42 1911	38 1911			
High min	53 1967	45 1937	49 1904	54 1959	44* 1980	52 1925	48 1930			
Low min	5 1895	10* 1946	9 1910	11* 1910	14 1942	11 1953	12 1964			
Day	22	23	24	25	26	27	28			
Avg max	64	64	64	65	65	65	65			
Avg min	30	31	31	31	31	32	32			
High max	77* 1996	84 1904	86 1904	83 1986	84 1986	80 1904	82 1904			
Low max	42* 1973	33 1894	43* 1924	41 1935	30 1912	47 1923	43 1922			
High min	50 1968	53 1948	47 1933	53 1918	48* 1918	49* 1981	51 1938			
Low min	12 1964	6 1894	5 1894	12 1960	12 1919	14 1899	10 1939			
Day	29									
Avg max	66									
Avg min	32									
High max	79* 1980									
Low max	53 1952									
High min	51 1932									
Low min	21 1924									
Monthly Summary										
Avg max temp	= 62.8	Avg precip	= 0.38	Avg snow	= 0.5					
Avg min temp	= 29.8	Max precip	= 1.66 1923	Max snow	= 10.4 1956					
High max temp	= 86	Min precip	= 0.00* 1999	Min snow	= 0.4 1991					
Low Min Temp	= 2	Max daily Precip	= 1.25 14/1893	Max daily snow	= 9.0 2/1956					

* also in earlier years

Table 9. Daily climate calendar (continued).

March									
Day	1	2	3	4	5	6	7		
Avg max	66	66	66	67	67	67	67		
Avg min	32	32	32	32	32	32	32		
High max	81 1904	84* 1904	81* 1910	83* 1910	83 1910	85 1910	84* 1972		
Low max	40 1922	39 1915	35 1965	46 1937	42 1984	39 1947	44 1942		
High min	52 1957	49 1905	50* 1963	49* 1921	54 1911	53 1916	50 1962		
Low min	14 1929	12 1922	13 1971	11 1965	16* 1965	13 1939	17 1899		
Day	8	9	10	11	12	13	14		
Avg max	67	68	68	68	68	69	69		
Avg min	33	33	33	33	34	34	34		
High max	83 1904	84 1989	87 1989	89 1989	90 1989	85* 1972	86 1908		
Low max	40 1915	43 1932	47 1932	43 1958	35 1909	45 1909	51 1913		
High min	54 1925	49 1986	51 1957	52 1954	50 1950	54 1918	55 1948		
Low min	15 1942	15 1964	18 1922	19 1935	18* 1948	14 1932	15 1932		
Day	15	16	17	18	19	20	21		
Avg max	69	69	69	70	70	70	70		
Avg min	34	35	35	35	35	36	36		
High max	86 1908	90 1908	88 1908	89 1907	83 1989	89 1907	87 1997		
Low max	47 1969	50 1928	50* 1941	49 1941	44 1914	45 1914	45 1914		
High min	52 1897	49* 1961	48* 1955	56 1921	55 1912	57 1907	56 1907		
Low min	17 1899	18 1913	20 1913	18 1918	17 1903	19 1945	15 1894		
Day	22	23	24	25	26	27	28		
Avg max	70	70	71	71	71	71	71		
Avg min	36	36	36	36	37	37	37		
High max	86 1907	85* 1990	86* 1988	89 1896	87 1971	89 1971	87 1967		
Low max	48 1897	50 1957	46 1934	50 1934	43 1955	44 1955	47 1923		
High min	56 1939	59 1940	58 1925	51 1931	58 1907	55 1925	55 1897		
Low min	17 1948	15 1897	12 1898	22 1901	19 1913	21* 1936	22* 1955		
Day	29	30	31						
Avg max	72	72	72						
Avg min	37	38	38						
High max	87* 2000	87 1893	89 1946						
Low max	37 1987	43 1975	44 1916						
High min	57 1986	58 1968	57 1925						
Low min	17 1944	20 1987	21 1897						
Monthly summary									
Avg max temp	= 69.0	Avg precip	= 0.32	Avg snow	= 0.2				
Avg min temp	= 35.1	Max precip	= 2.03 1905	Max snow	= 8.0 1909				
High max temp	= 90	Min precip	= 0.00* 1996	Min snow	= 0.0* 1991				
Low min temp	= 11	Max daily precip	= 1.13 14/1900	Max daily snow	= 4.0 11/1909				

* also in earlier years

Table 9. Daily climate calendar (continued).

April									
Day	1	2	3	4	5	6	7		
Avg max	73	73	73	74	74	74	75		
Avg min	38	39	39	39	39	40	40		
High max	88* 1946	87* 1946	87 1929	89 1967	88* 1972	91 1893	91 1989		
Low max	46 1905	52 1956	54 1945	48 1983	36 1983	40 1983	40 1983		
High min	61 1964	55* 1969	57* 1939	54 1906	58 1967	62 1969	57 1959		
Low min	20 1948	25* 1948	23 1897	22 1945	23 1892	20 1945	21 1939		
Day	8	9	10	11	12	13	14		
Avg max	75	75	76	76	76	77	77		
Avg min	40	40	40	41	41	41	41		
High max	92 1989	91 1989	94 1907	93 1907	88 1895	89 1936	91* 1963		
Low max	50 1983	52 1928	58 1945	62 1979	60* 1927	42 1980	51 1928		
High min	27* 1986	58 1976	57 1977	61 1942	62 1960	58 1981	60 1930		
Low min	21 1938	24* 1973	24 1938	25 1949	25 1945	29* 1953	27 1983		
Day	15	16	17	18	19	20	21		
Avg max	77	77	78	78	78	78	79		
Avg min	42	42	42	42	43	43	43		
High max	90 1925	90* 1962	91* 1987	93 1989	93 1907	95 1989	96 1989		
Low max	57* 1945	54 1976	55 1901	57 1927	56 1933	60 1975	52 1907		
High min	58 1907	56 1935	59 1952	59 1895	60 1937	59 1913	64 1948		
Low min	21 1933	30 1921	24 1896	23 1896	28* 1922	29* 1971	27 1899		
Day	22	23	24	25	26	27	28		
Avg max	79	79	79	79	79	80	80		
Avg min	43	44	44	44	44	44	44		
High max	96 1965	93 1965	93* 1996	93 1943	94 2000	96 2000	94 2000		
Low max	58 1913	57 1905	59* 1942	57 1941	65 1920	66 1932	60 1926		
High min	60* 1953	60 1919	58 1921	60* 2000	60 1904	63 1904	59 1898		
Low min	22 1907	29 1907	30 1968	29 1893	28 1921	31 1920	26 1932		
Day	29	30							
Avg max	80	80							
Avg min	44	45							
High max	94 1943	92 1928							
Low max	54 1925	65 1970							
High min	69 1955	60 1981							
Low min	30 1893	28 1970							

Monthly Summary

Avg max temp = 77.0	Avg precip = 0.21	Avg snow = 0.1
Avg min temp = 42.1	Max precip = 1.89 1905	Max snow = 7.0 1983
High max temp = 96	Min precip = 0.00* 2000	Min snow = 0.0* 1991
Low min temp = 20	Max daily precip = 1.20 23/1905	Max daily snow = 5.0 6/1983

* also in earlier years

Table 9. Daily climate calendar (continued).

May															
Day	1		2		3		4		5		6		7		
Avg max	81		81		81		82		82		82		83		
Avg min	45		45		45		46		46		47		47		
High max	92*	1992	93	1943	95	1947	98	1947	98	1947	99	1947	98	1989	
Low max	48	1916	68*	1970	60	1978	51	1935	61	1935	60	1969	69	1969	
High min	63	1963	65	1932	64	1952	62*	1971	64	1910	61	1925	66	1959	
Low min	27	1899	27	1967	30	1904	28	1899	30	1950	31	1950	32*	1975	
Day	8		9		10		11		12		13		14		
Avg max	83		84		84		84		84		84		85		
Avg min	47		48		48		48		48		49		49		
High max	101	1989	97*	1916	95*	1967	96*	2000	100	1996	101	1996	96*	1996	
Low max	65	1927	70	1943	70	1930	69	1979	68*	1982	67	1893	70	1914	
High min	66	1955	64*	1947	65	1949	65	1934	66	1973	60*	2000	72	1959	
Low min	31	1896	32	1896	35*	1953	34	1948	36	1933	29	1933	35	1933	
Day	15		16		17		18		19		20		21		
Avg max	85		85		85		86		86		86		87		
Avg min	49		50		50		50		50		50		51		
High max	100	2000	99	2000	95	1937	99	1996	97	1970	97	1956	99	1989	
Low max	60	1973	69	1953	58	1935	64	1935	62	1917	66	1917	72	1892	
High min	68	1940	65	2000	65	2000	71	1948	66*	1932	64	1981	69	1920	
Low min	34	1933	34	1943	36	1944	37*	1944	35	1903	38	1902	31	1899	
Day	22		23		24		25		26		27		28		
Avg max	87		87		87		88		88		88		89		
Avg min	51		51		52		52		52		52		53		
High max	100	1989	102	2000	102	2000	99*	1984	101	1951	103	1951	103	1951	
Low max	72	1940	67	1919	68	1919	74	1909	64	1935	72	1925	76	1907	
High min	68	1948	69	1948	72	1984	77	1964	70	1935	69	1953	66	1958	
Low min	32	1899	37	1903	35	1933	39	1927	39*	1917	40	1898	37	1902	
Day	29		30		31										
Avg max	89		89		89										
Avg min	53		53		54										
High max	101	2000	101	2000	99	1956									
Low max	64	1937	74	1895	72	1986									
High min	68	1912	73*	1951	67*	1960									
Low min	38*	1905	34	1895	37	1899									
Monthly Summary															
Avg max temp	=	85.4	Avg precip	=	0.31	Avg snow	=	0.0							
Avg min temp	=	49.9	Max precip	=	1.94	1992	Max snow	=	0.0						
High max temp	=	103	Min precip	=	0.00*	2000	Min snow	=	0.0						
Low min temp	=	27	Max daily precip	=	0.97	1/1916	Max daily snow	=	0.0						

* also in earlier years

Table 9. Daily climate calendar (continued).

June										
Day	1	2	3	4	5	6	7			
Avg max	90	90	90	90	91	91	92			
Avg min	54	54	54	55	55	55	56			
High max	101 1997	101 1998	101 1997	103 1990	102* 1996	101 1906	101 1955			
Low max	74 1919	69 1919	77 1920	81 1985	78 1985	74 1972	74 1972			
High min	72 1956	69* 1984	74 1942	72 1958	73 1956	76 1912	71 1996			
Low min	36 1899	37 1895	36 1899	40* 1955	40 1921	35 1921	41 1899			
Day	8	9	10	11	12	13	14			
Avg max	92	92	93	93	93	94	94			
Avg min	56	56	57	57	57	58	58			
High max	105 1985	105 1906	106 1906	106 1906	104 1981	104 1981	104 2000			
Low max	82 1913	77 1941	74 1927	60 1903	59 1903	72 1903	81* 1903			
High min	69 1986	72 1946	73 1943	71 1990	73 1918	73 1959	74* 1910			
Low min	41 1933	37 1945	42 1945	46* 1968	42 1901	41 1927	45 1928			
Day	15	16	17	18	19	20	21			
Avg max	94	95	95	95	96	96	96			
Avg min	59	59	60	60	60	61	61			
High max	104* 2000	105 1906	104* 1989	106 1960	106 1960	106 1960	107 1960			
Low max	86* 1973	79 1933	80 1914	67 1947	77 1947	83 1911	84 1933			
High min	75 1952	75 1958	77 1950	74 1959	75 1954	74* 1980	76* 1989			
Low min	43 1901	39 1921	43 1894	43 1897	37 1921	42 1894	47* 1921			
Day	22	23	24	25	26	27	28			
Avg max	96	96	96	96	96	96	96			
Avg min	62	62	62	63	63	63	64			
High max	105* 1960	107 1981	106* 1978	109 1994	109 1994	110 1994	109 1994			
Low max	79* 1940	73 1986	75 1986	79* 1986	80* 1937	74 1938	83 1966			
High min	74 1994	74 1931	75* 1988	76 1943	75* 1991	74* 1971	75* 1994			
Low min	49 1908	46 1907	47 1903	45 1894	51 1975	49* 1945	51* 1983			
Day	29	30								
Avg max	96	95								
Avg min	64	64								
High max	106* 1998	106* 1998								
Low max	78 1940	73 1896								
High min	76 1965	77 1989								
Low min	46 1921	50 1946								
Monthly Summary										
Avg max temp	= 94.1	Avg precip	= 0.63	Avg snow	= 0.0					
Avg min temp	= 59.1	Max precip	= 3.72 1966	Max snow	= 0.0					
High max temp	= 110	Min precip	= 0.00* 1989	Min snow	= 0.0					
Low min temp	= 35	Max daily precip	= 2.43 11/1903	Max daily snow	= 0.0					

* also in earlier years

Table 9. Daily climate calendar (continued).

July														
Day	1		2		3		4		5		6		7	
Avg max	90		90		90		90		91		91		92	
Avg min	64		64		65		65		65		65		65	
High max	107	1944	107	1989	106*	1989	106*	1957	106	1932	103	1951	105*	1992
Low max	79	1898	81	1945	77	1919	71	1968	70	1906	74	1906	78	1960
High min	78	1918	78	1994	75	1994	78	1972	80	1920	78	1910	74*	1979
Low min	51	1927	53	1955	53	1938	53	1938	47	1938	42	1938	44	1938
Day	8		9		10		11		12		13		14	
Avg max	95		95		94		95		94		94		94	
Avg min	65		65		65		65		65		65		66	
High max	109	1951	107	1951	105*	1958	105	1958	106*	1998	106*	1998	105	1998
Low max	72	1952	70	1895	82*	1930	80*	1955	80	1955	82	1975	75	1989
High min	75	1918	74	1996	75*	1976	77	1907	76	1998	76	1998	74*	1998
Low min	47	1938	52	1938	55	1905	55	1938	52	1944	51	1897	51	1897
Day	15		16		17		18		19		20		21	
Avg max	94		94		94		94		93		93		93	
Avg min	66		66		66		66		66		66		66	
High max	105*	1979	103*	1963	102*	1980	103*	1980	104*	1980	103	1925	103	1981
Low max	83	1974	72	1973	76	1973	79	1893	81	1893	76	1955	69	1902
High min	77	1920	75*	1989	77	1900	74	1977	76*	1945	77	1971	73*	1987
Low min	52*	1898	57*	1962	59*	1951	58	1898	59*	1938	54	1947	51	1897
Day	22		23		24		25		26		27		28	
Avg max	93		93		93		93		93		93		93	
Avg min	66		65		65		65		65		65		65	
High max	106	1925	102	1981	103*	1995	102*	2000	105	1995	106	1995	105	1980
Low max	74	1938	77	1944	83*	1978	79	1929	83	1941	83	1955	84*	1940
High min	76	1936	72*	1969	74	1993	78	1945	74	1994	74	1934	72*	1998
Low min	52	1894	54	1894	53	1913	53	1894	48	1894	56	1894	56	1894
Day	29		30		31									
Avg max	93		93		93									
Avg min	65		65		65									
High max	103	1960	104	1944	105*	1972								
Low max	79	1929	80	1950	74	1925								
High min	71*	1993	72*	1971	74*	1908								
Low min	56	1899	56	1899	50	1894								
Monthly Summary														
Avg max temp	=	94.0	Avg precip	=	1.52	Avg snow	=	0.0						
Avg min temp	=	65.7	Max precip	=	4.55	1927	Max snow	=	0.0					
High max temp	=	109	Min precip	=	0.07	1948	Min snow	=	0.0					
Low min temp	=	42	Max daily precip	=	1.59	15/1973	Max daily snow	=	0.0					

* also in earlier years

Table 9. Daily climate calendar (continued).

August										
Day	1	2	3	4	5	6	7			
Avg max	93	93	93	93	93	93	93			
Avg min	65	65	65	65	65	65	65			
High max	104 1972	103 1944	104 1980	103 1977	102 1977	102 1901	103 1911			
Low max	78 1925	79 1917	83* 1947	74 1893	80 1893	74 1990	73 1990			
High min	76 1897	75 1966	74 1969	74 1910	75 1994	74 1960	75 1932			
Low min	48 1925	44 1925	56 1892	55 1892	56* 1928	56* 1949	56* 1925			
Day	8	9	10	11	12	13	14			
Avg max	92	92	92	92	92	92	92			
Avg min	64	64	64	64	64	64	64			
High max	104 1907	103 1907	101 1997	105 1907	105 1907	100 1900	102 1900			
Low max	76 1930	80* 1984	80* 1984	78 1931	79 1940	74 1980	80 1920			
High min	76 1994	75 1952	74 1995	74 1922	73 1969	73 1959	74* 1994			
Low min	55 1894	56 1928	58* 1978	54 1899	55 1898	53 1900	52 1899			
Day	15	16	17	18	19	20	21			
Avg max	92	92	92	92	91	91	91			
Avg min	64	64	64	63	63	63	63			
High max	102 1900	102 1900	101 1969	101* 1994	101 1945	100* 2000	100* 1952			
Low max	79* 1979	71 1979	80 1979	79 1979	75 1912	81 1923	78 1912			
High min	74 1955	72 1919	72* 1910	76 1934	74 1994	72 1995	76 1962			
Low min	54 1898	53 1938	57 1898	55 1926	52 1926	54* 1950	51 1897			
Day	22	23	24	25	26	27	28			
Avg max	91	91	91	91	90	90	90			
Avg min	63	63	63	62	62	62	62			
High max	102 1910	100* 1910	102 1910	99 1900	99* 1900	101 1900	102 1900			
Low max	83* 1945	78 1954	76 1987	78 1974	72 1951	77 1906	74 1915			
High min	74 1969	73 1910	72 1910	73* 1969	70 1942	75 1943	72* 1969			
Low min	53 1897	53 1897	52 1900	47 1900	49 1926	50 1926	52* 1970			
Day	29	30	31							
Avg max	90	90	90							
Avg min	62	61	61							
High max	101 1962	100 1995	101 1950							
Low max	76 1915	77* 1935	79* 1927							
High min	76 1994	69 1945	71 1903							
Low min	50 1920	49 1920	50* 1956							

Monthly Summary

Avg max temp	= 91.6	Avg precip	= 1.89	Avg snow	= 0.0
Avg min temp	= 63.9	Max precip	= 7.41 1935	Max snow	= 0.0
High max temp	= 105	Min precip	= 0.14 1911	Min snow	= 0.0
Low min temp	= 44	Max daiy precip	= 6.49 30/1935	Max daily snow	= 0.0

* also in earlier years

Table 9. Daily climate calendar (continued).

September										
Day	1	2	3	4	5	6	7			
Avg max	90	90	89	89	89	89	89			
Avg min	61	61	61	60	60	60	60			
High max	100 1952	101 1899	99 1948	99 1983	101 1948	102 1945	100* 2000			
Low max	68 1938	76 1893	76 1904	67 1904	74 1904	69 1976	65 1904			
High min	72 1962	72 1997	70 1994	71 1997	70* 1940	70 1926	70 1948			
Low min	47 1944	47 1944	46 1955	48 1894	46 1894	47 1894	46 1893			
Day	8	9	10	11	12	13	14			
Avg max	88	88	88	88	88	88	87			
Avg min	59 59	58 58	58 57	57						
High max	98 2000	99 1914	98 1992	96* 2000	97* 1974	98 1998	100 1998			
Low max	75 1981	63 1981	72 1976	67 1898	74 1912	71 1975	72 1975			
High min	71 1901	67* 1997	69 1922	72 1921	71 1952	72 1931	69 1998			
Low min	39 1893	40 1893	42 1894	40 1894	39 1898	41 1898	40 1913			
Day	15	16	17	18	19	20	21			
Avg max	87	87	87	87	86	86	86			
Avg min	57	57	56	56	56	55	55			
High max	97* 1956	99* 1956	97 1997	95 1952	97 1953	96 1954	94* 1980			
Low max	69 1919	58 1979	61 1979	66 1991	61 1991	60 1942	71* 1922			
High min	74 1998	69 1998	73 1920	73* 1963	66* 1960	69 1941	66* 1973			
Low min	41 1913	45* 1953	40 1899	40 1899	40 1951	37 1899	36 1899			
Day	22	23	24	25	26	27	28			
Avg max	85	85	84	84	84	83	83			
Avg min	54	54	53	53	52	52	51			
High max	94* 1980	97 1910	96 1899	95* 1953	96 1953	96 1977	94* 1994			
Low max	62 1978	61* 1974	59 1919	67 1919	53 1913	61 1903	57 1970			
High min	69 1910	72 1998	68 1955	69 1910	64* 1931	62 1983	65 1961			
Low min	35 1895	36 1899	36 1899	39 1945	39 1945	37 1899	33 1908			
Day	29	30								
Avg max	83	83								
Avg min	51	51								
High max	94 1994	95 1977								
Low max	58 1945	57 1895								
High min	68 1951	63 1919								
Low min	38 1948	30 1945								
Monthly Summary										
Avg max temp	= 86.8	Avg precip	= 1.34		Avg snow	= 0.0				
Avg min temp	= 56.9	Max precip	= 7.53	1941	Max snow	= 0.0				
High max temp	= 102	Min precip	= 0.00*	1959	Min snow	= 0.0				
Low min temp	= 30	Max daily precip	= 4.11	21/1941	Max daily snow	= 0.0				

* also in earlier years

Table 9. Daily climate calendar (continued).

October										
Day	1	2	3	4	5	6	7			
Avg max	83	82	82	82	82	82	81			
Avg min	50	50	50	49	49	48	48			
High max	94 2000	95 2000	93 2000	94 2000	92 1956	91* 1934	91 1979			
Low max	61* 1985	59 1893	62 1945	65 1899	67 1933	71 1924	56 2000			
High min	65 1911	65 1910	67 1996	64 1998	64 1954	65 1916	64 1921			
Low min	31 1894	33 1893	36* 1924	35* 1961	33 1902	35* 1946	33* 1906			
Day	8	9	10	11	12	13	14			
Avg max	81	81	80	80	80	79	79			
Avg min	47	47	46	46	46	45	45			
High max	93 1979	92* 1996	92* 1996	91* 1996	91* 1996	91 1996	90* 1998			
Low max	50 2000	49 2000	61* 2000	63* 1940	51 1986	58 1923	48 1925			
High min	62* 1977	70 1931	70 1997	68 1997	65 1908	62 1972	63 1961			
Low min	32 1976	30 1970	30 1909	32 1893	29 1946	30 1892	31 1920			
Day	15	16	17	18	19	20	21			
Avg max	78	78	77	77	76	76	75			
Avg min	44	44	43	43	42	42	41			
High max	90 1898	93 1932	92 1906	88 1906	87 1921	88 1909	87 1902			
Low max	62* 1928	57 1970	42 1999	57 1999	62* 1983	54 1932	54 1932			
High min	70 1910	64 1944	62 1924	61* 1932	61 1998	56 1957	61 1988			
Low min	31 1966	32* 1952	20 1898	21 1898	25 1917	20 1898	23 1898			
Day	22	23	24	25	26	27	28			
Avg max	75	75	74	74	73	73	73			
Avg min	41	41	40	40	39	39	38			
High max	87* 1909	87 1959	85* 1989	88 1959	86* 1950	88 1979	86* 1994			
Low max	53 1949	47 1929	47 1929	48* 1929	53 1908	50 1897	52 1958			
High min	60 1974	56 1992	60 1992	56 1958	61 1998	58 1900	57 1927			
Low min	21 1898	25 1908	23 1908	25 1945	22 1898	23 1898	25 1908			
Day	29	30	31							
Avg max	72	72	72							
Avg min	38	37	37							
High max	88 1994	85* 1964	87 1950							
Low max	43 1976	54* 1941	47 1923							
High min	56* 1987	55* 1951	55 1907							
Low min	22 1970	24 1917	22 1956							

Monthly Summary

Avg max temp	= 77.7	Avg precip	= 0.79	Avg snow	= 0.0
Avg min temp	= 44.1	Max precip	= 3.21 1998	Max snow	= 0.0
High max temp	= 93	Min precip	= 0.00* 1995	Min snow	= 0.0
Low min temp	= 20	Max daily precip	= 1.66 17/1985	Max daily snow	= 0.0

* also in earlier years

Table 9. Daily climate calendar (continued).

November										
Day	1	2	3	4	5	6	7			
Avg max	71	71	71	70	70	70	70			
Avg min	37	36	36	35	35	35	35			
High max	83 1952	83* 1952	83* 1988	87 1988	83 1945	82 1988	82 1994			
Low max	52* 1972	53 1911	50 1936	53 1922	38 1946	44 1961	42 2000			
High min	54* 1987	53 1978	56 1957	56 1910	56 1953	55* 1995	50 1919			
Low min	21 1900	24 1893	19 1946	15 1936	20 1936	18* 1948	12 1938			
Day	8	9	10	11	12	13	14			
Avg max	69	69	69	68	67	67	66			
Avg min	34	34	33	33	33	32	32			
High max	82* 1980	82* 1980	82 1899	82 1899	82 1899	82 1899	82 1899			
Low max	47 2000	51 1919	50* 1950	48* 1905	45 1907	37 1986	33 1976			
High min	53 1940	53 1939	52 1923	55 1901	45* 1978	51* 1959	50 1968			
Low min	15* 1947	13 1943	11 1948	10 1950	15* 1950	17 1893	16* 1929			
Day	15	16	17	18	19	20	21			
Avg max	66	65	65	65	64	64	64			
Avg min	31	31	31	31	30	30	30			
High max	81 1906	80* 1981	81 1981	81 1981	79 1996	79 1996	81 1897			
Low max	35 1976	39 1951	36 1980	40* 1980	36 1906	33 1906	40 1906			
High min	55 1962	52 1969	55 1967	50 1941	51 1936	59 1942	50 1989			
Low min	14 1916	12 1956	18 1893	19* 1958	12 1921	15 1948	15 1898			
Day	22	23	24	25	26	27	28			
Avg max	63	63	63	62	62	61	61			
Avg min	30	30	30	29	29	29	29			
High max	82 1897	79 1965	78 1909	79* 1965	79 1960	78* 1977	81 1949			
Low max	44 1906	36 1957	38 1931	40* 1982	37 1918	33 1918	35 1911			
High min	55 1919	49 1919	48 1919	50 1935	52 1905	55 1905	43 1936			
Low min	9 1898	15 1957	6 1938	8 1938	9 1911	13 1902	10* 1976			
Day	29	30								
Avg max	61	61								
Avg min	28	28								
High max	77 1949	74 1894								
Low max	29 1976	34 1976								
High min	48 1998	50 1962								
Low min	-4 1976	0 1976								
Monthly Summary										
Avg max temp	= 66.1	Avg precip	= 0.46	Avg snow	= 0.6					
Avg min temp	= 32.2	Max precip	= 2.59 1978	Max snow	= 12.7 1976					
High max temp	= 87	Min precip	= 0.00* 1999	Min snow	= 0.0* 1991					
Low min temp	= 4	Max daily precip	= 1.20* 1/1978	Max daily snow	= 9.0 28/1976					

* also in earlier years

Table 9. Daily climate calendar (continued).

December															
Day	1		2		3		4		5		6		7		
Avg max	61		60		60		60		60		59		59		
Avg min	28		28		28		28		28		28		28		
High max	74	1892	77	1893	78	1958	77	1910	74*	1977	74*	1977	74	1954	
Low max	35	1931	33	1931	36	1931	40	1904	39	1904	32	1912	34	1912	
High min	47	1906	45	1906	50	1906	51	1906	48	1926	45	1966	46	1986	
Low min	7	1976	13	1979	10	1934	10	1897	7	1909	9	1897	8	1953	
Day	8		9		10		11		12		13		14		
Avg max	59		58		58		57		57		57		57		
Avg min	27		27		27		27		27		26		26		
High max	73	1977	74*	1970	76	1996	77	1987	73	1906	73	1995	74	1950	
Low max	30	1978	23	1898	26	1898	30	1923	24	1923	37	1923	31	1987	
High min	45	1918	47	1943	49	1965	42*	1965	45	1939	46	1934	45*	1948	
Low min	12*	1917	9	1916	10*	1978	10	1897	7	1953	8	1923	6	1947	
Day	15		16		17		18		19		20		21		
Avg max	56		56		56		56		56		56		56		
Avg min	26		26		26		26		26		26		26		
High max	71	1950	74	1908	71	1980	70	1894	75	1980	73	1921	73	1981	
Low max	26	1987	32	1987	37	1933	24	1909	24	1909	29	1909	34	1909	
High min	42	1921	43	1934	43	1986	46	1948	44	1962	45	1914	43	1894	
Low min	7*	1987	7	1987	12	1925	9*	1933	5	1909	3	1909	10	1945	
Day	22		23		24		25		26		27		28		
Avg max	56		56		56		56		56		56		56		
Avg min	25		25		25		25		25		25		25		
High max	73	1981	73	1955	72*	1969	73	1971	73	1955	74	1980	75	1980	
Low max	33*	1912	31	1953	33*	1953	32	1983	30	1987	33	1987	28	1925	
High min	43	1894	51	1948	45	1969	45	1959	38	2000	41	2000	45	1906	
Low min	10	1924	7	1953	1	1953	6	1924	5	1911	5	1987	6*	1987	
Day	29		30		31										
Avg max	56		56		56										
Avg min	25		25		25										
High max	76	1951	71	1945	68	1951									
Low max	36	1895	32	1969	29	1946									
High min	48	1934	47	1973	52	1951									
Low min	1	1895	4	1895	6	1895									

Monthly Summary

Avg max temp	=	57.5	Avg precip	=	0.58	Avg snow	=	0.9		
Avg min temp	=	26.7	Max precip	=	3.74	1914	Max snow	=	10.3	1931
High max temp	=	78	Min precip	=	0.00*	1996	Min snow	=	0.0*	1990
Low min temp	=	1	Max daily precip	=	1.23*	15/1984	Max daily snow	=	9.0	2/1931

* also in earlier years

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