

# Climatology of the United States

## No. 20 1971-2000

Station: MECCA FIRE STATION, CA

COOP ID: 045502

Climate Division: CA 7

NWS Call Sign:

Elevation: -180 Feet

Lat: 33° 34N

Lon: 116° 05W

### Temperature (°F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	70.9	38.7	54.8	93	1962	8	60.0	1986	18+	1970	3	49.3	1979	321	5	.0	.0	31.0	.0	5.4	.0
Feb	75.9	43.1	59.5	100	1986	27	65.6	1995	20	1990	16	54.1	1975	174	19	@	.9	28.0	@	1.5	.0
Mar	81.6	48.6	65.1	103	1988	26	71.1	1972	23	1971	3	59.8	1975	90	93	.2	4.6	31.0	.0	.3	.0
Apr	89.3	53.9	71.6	110+	1989	7	77.2	1989	35	1975	3	63.4	1975	25	223	2.6	14.9	30.0	.0	.0	.0
May	96.2	60.9	78.6	115+	2001	21	84.8	1997	38	1970	7	72.2	1977	2	421	10.6	25.5	31.0	.0	.0	.0
Jun	104.9	67.5	86.2	126	1990	26	90.3	1981	48+	1985	3	82.5	1991	0	637	24.0	29.4	30.0	.0	.0	.0
Jul	108.6	73.7	91.2	125	1995	28	95.2	1996	56	2000	9	87.6	1993	0	809	30.5	31.0	31.0	.0	.0	.0
Aug	107.4	73.9	90.7	123+	1985	24	94.2	1997	51	1978	23	87.2	1976	0	796	29.3	30.9	31.0	.0	.0	.0
Sep	102.7	67.6	85.2	126	1950	2	88.9	1984	45	1971	28	78.7	1985	0	604	21.3	29.3	30.0	.0	.0	.0
Oct	92.4	56.5	74.5	117	1980	2	79.5	1991	28	1971	30	65.6	1971	14	306	5.9	20.0	31.0	.0	.1	.0
Nov	78.9	43.9	61.4	100	1997	1	66.7	1995	25	1979	21	56.3	1994	150	43	@	2.0	30.0	.0	1.2	.0
Dec	70.8	37.3	54.1	95	1966	7	59.0	1980	18	1990	23	48.0	1978	342	2	.0	@	31.0	.0	6.7	.0
Ann	90.0	55.5	72.7	126+	1990	26	95.2	1996	18+	1990	23	48.0	1978	1118	3958	124.4	188.5	365.0	@	15.2	.0

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: [www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

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Lon: 116°05W

Precipitation (inches)																								
Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
Means/Medians(1)			Extremes						Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution											
Month	Mean	Median	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.69	.22	2.04	1995	5	4.68	1993	.00+	1999	2.7	1.5	.3	.1	.00	.00	.00	.02	.12	.27	.48	.77	1.20	1.98	2.79
Feb	.62	.28	1.55	1976	9	3.48	1980	.00+	2000	2.5	1.5	.4	.2	.00	.00	.00	.02	.11	.24	.43	.69	1.08	1.78	2.50
Mar	.38	.05	1.14	1983	2	2.27	1983	.00+	2000	1.8	1.1	.2	@	.00	.00	.00	.00	.00	.03	.17	.38	.68	1.22	1.77
Apr	.08	.00	.65	1992	1	1.00	1992	.00+	2000	.6	.2	.1	.0	.00	.00	.00	.00	.00	.00	.00	.01	.10	.29	.50
May	.02	.00	.42	1969	5	.27	1994	.00+	2000	.3	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.16
Jun	.01	.00	.21	1972	6	.21	1972	.00+	2000	.1	@	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Jul	.13	.00	2.02	1979	20	2.02	1979	.00+	2000	.2	.1	.1	.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.79
Aug	.23	.00	2.05	1983	17	4.25	1983	.00+	1999	.9	.5	.1	@	.00	.00	.00	.00	.00	.00	.02	.12	.32	.75	1.24
Sep	.42	.00	4.00	1976	11	5.67	1976	.00+	2000	.8	.6	.3	.1	.00	.00	.00	.00	.00	.00	.00	.14	.53	1.41	2.42
Oct	.24	.00	1.83	1978	20	2.08	1978	.00+	1999	.9	.5	.1	@	.00	.00	.00	.00	.00	.00	.02	.13	.36	.82	1.31
Nov	.20	.00	1.81	1987	1	2.08	1987	.00+	2000	1.0	.5	.1	.1	.00	.00	.00	.00	.00	.00	.04	.15	.34	.68	1.03
Dec	.31	.04	1.05	1959	25	1.68	1982	.00+	2000	1.7	.7	.2	.0	.00	.00	.00	.00	.00	.04	.14	.29	.53	.98	1.47
Ann	3.33	2.55	4.00	Sep 1976	11	5.67	Sep 1976	.00+	Dec 2000	13.5	7.3	1.9	.6	.19	.38	.79	1.24	1.75	2.36	3.09	4.04	5.36	7.62	9.86

+ Also occurred on an earlier date(s)

# Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

\*\* Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:  
[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

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NWS Call Sign:

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Lat: 33°34N

Lon: 116°05W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.0	.0	#	0	.0	0	0	.0	0	#	1996	31	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	#	1994	24	#	1994	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	#+	Jan 1996	31	#+	Jan 1996	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

Complete documentation available from:

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<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	3/26	3/16	3/09	3/03	2/25	2/19	2/13	2/06	1/27
<b>32</b>	3/08	2/24	2/15	2/07	1/31	1/24	1/17	1/08	12/26
<b>28</b>	2/09	1/30	1/22	1/15	1/08	1/01	12/23	12/06	0/00
<b>24</b>	2/03	1/20	1/07	12/19	0/00	0/00	0/00	0/00	0/00
<b>20</b>	12/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>16</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	11/06	11/11	11/14	11/17	11/20	11/23	11/26	11/29	12/04
<b>32</b>	11/08	11/16	11/22	11/27	12/02	12/06	12/11	12/17	12/25
<b>28</b>	11/26	12/04	12/10	12/15	12/21	12/26	1/03	0/00	0/00
<b>24</b>	12/17	12/31	1/14	0/00	0/00	0/00	0/00	0/00	0/00
<b>20</b>	1/26	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>16</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	303	291	282	274	267	260	253	244	232
<b>32</b>	348	327	316	307	299	291	283	274	261
<b>28</b>	>365	>365	>365	>365	350	334	321	308	292
<b>24</b>	>365	>365	>365	>365	>365	>365	>365	>365	328
<b>20</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>16</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365

\* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:  
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**Lon: 116° 05W**

<b>Degree Days to Selected Base Temperatures (°F)</b>													
<b>Base</b>	<b>Heating Degree Days (1)</b>												
<b>Below</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Ann</b>
<b>65</b>	321	174	90	25	2	0	0	0	0	14	150	342	1118
<b>60</b>	186	82	30	6	0	0	0	0	0	3	66	203	576
<b>57</b>	123	44	13	2	0	0	0	0	0	0	34	135	351
<b>55</b>	90	26	7	0	0	0	0	0	0	0	20	99	242
<b>50</b>	28	5	0	0	0	0	0	0	0	0	3	33	69
<b>32</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>Base</b>	<b>Cooling Degree Days (1)</b>												
<b>Above</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Ann</b>
<b>32</b>	707	770	1026	1187	1442	1627	1832	1819	1594	1315	883	683	14885
<b>55</b>	84	152	320	497	729	937	1119	1106	904	602	213	69	6732
<b>57</b>	56	114	264	439	667	877	1057	1044	844	541	167	43	6113
<b>60</b>	26	68	188	354	574	787	964	951	754	450	109	18	5243
<b>65</b>	5	19	93	223	421	637	809	796	604	306	43	2	3958
<b>70</b>	0	3	33	122	277	487	654	641	454	183	12	0	2866

<b>Growing Degree Units (2)</b>																								
<b>Base</b>	<b>Growing Degree Units (Monthly)</b>												<b>Growing Degree Units (Accumulated Monthly)</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>40</b>	471	574	786	952	1206	1394	1595	1575	1366	1081	645	444	471	1045	1831	2783	3989	5383	6978	8553	9919	11000	11645	12089
<b>45</b>	317	432	631	802	1051	1244	1440	1420	1216	926	495	289	317	749	1380	2182	3233	4477	5917	7337	8553	9479	9974	10263
<b>50</b>	175	290	476	652	896	1094	1285	1265	1066	771	347	154	175	465	941	1593	2489	3583	4868	6133	7199	7970	8317	8471
<b>55</b>	68	160	321	502	741	944	1130	1110	916	617	205	50	68	228	549	1051	1792	2736	3866	4976	5892	6509	6714	6764
<b>60</b>	18	64	180	355	586	794	975	955	766	462	97	6	18	82	262	617	1203	1997	2972	3927	4693	5155	5252	5258
<b>Base</b>	<b>Growing Degree Units for Corn (Monthly)</b>												<b>Growing Degree Units for Corn (Accumulated Monthly)</b>											
<b>50/86</b>	335	389	504	595	729	810	934	929	813	663	445	333	335	724	1228	1823	2552	3362	4296	5225	6038	6701	7146	7479

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

**Note:** For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

## Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
- c. Only observed validated values were used to select the extreme daily values.
- d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.  
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
- e. Degree Days were derived using the same techniques as the 1971-2000 normals.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set.  
Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from the Snow Climatology.  
Documentation for the Snow Climatology project is available from the link under references.

## Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- a. Temperature/ Precipitation Tables
  1. 1971-2000 Monthly Normals
  2. Cooperative Summary of the Day
  3. National Weather Service station records
  4. 1971-2000 serially complete daily data
- b. Degree Day Table
  1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
  2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
  1. Snow Climatology
  2. Cooperative Summary of the Day
- d. Freeze Data Table  
1971-2000 serially complete daily data

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html)  
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,  
[www1.ncdc.noaa.gov/pub/data/special/serialcomplete\\_jam\\_0900.pdf](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)