

# Climatology of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: THREE RIVERS EDISON PH 1, CA

1971-2000

COOP ID: 048917

Climate Division: CA 5

NWS Call Sign:

Elevation: 1,140 Feet Lat: 36° 28N

Lon: 118° 52W

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	58.7	35.5	47.1	79	1990	11	52.2	1986	23+	1987	17	42.5	1972	556	0	.0	.0	28.5	.0	11.3	.0
Feb	63.4	38.2	50.8	85	1977	19	57.2	1991	19	1989	6	46.7	1990	399	0	.0	.0	27.4	@	4.3	.0
Mar	67.1	41.2	54.2	89+	1986	28	59.2	1972	27	1999	31	49.4	1973	342	5	.0	.0	30.9	.0	1.9	.0
Apr	74.7	44.5	59.6	100	1981	30	65.4	1987	22	1972	19	52.6	1975	205	43	@	2.0	30.0	.0	.7	.0
May	84.2	50.9	67.6	106	1984	28	74.3	1992	33+	1988	1	59.6	1998	74	153	.9	9.7	31.0	.0	.0	.0
Jun	93.7	58.1	75.9	112+	1994	27	82.0	1981	40	1988	8	70.8	1998	5	334	7.4	21.3	30.0	.0	.0	.0
Jul	99.7	64.5	82.1	112+	1999	13	85.6	1988	48	1987	18	76.9	1983	0	529	16.8	29.6	31.0	.0	.0	.0
Aug	98.3	63.8	81.1	114	1996	13	84.0+	1998	46	1979	14	75.7	1976	0	497	13.7	28.5	31.0	.0	.0	.0
Sep	92.2	58.1	75.2	109+	1988	5	79.5	1974	39	1986	18	68.1	1986	8	312	5.7	20.1	30.0	.0	.0	.0
Oct	81.5	48.9	65.2	102+	1980	5	70.5	1991	28	1971	29	60.3	1981	99	106	.6	6.5	31.0	.0	.1	.0
Nov	66.6	39.8	53.2	88+	1980	5	59.0	1995	25	1991	30	47.1	1994	358	4	.0	.0	29.7	.0	3.5	.0
Dec	58.6	34.6	46.6	78+	1980	16	50.8	1980	16+	1990	23	40.9	1978	569	0	.0	.0	28.6	.0	12.0	.0
Ann	78.2	48.2	63.2	114	Aug 1996	13	85.6	Jul 1988	16+	Dec 1990	23	40.9	Dec 1978	2615	1983	45.1	117.7	359.1	@	33.8	.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: 118°52W**

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	Med-ian	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	4.74	4.97	3.38	1982	5	12.11	1997	.03	1976	8.7	6.2	3.4	1.6	.34	.64	1.24	1.89	2.62	3.46	4.47	5.75	7.53	10.52	13.49
Feb	4.29	3.72	4.04	1987	13	12.28	1986	.40	1977	8.3	5.9	3.1	1.5	.47	.79	1.38	1.98	2.62	3.34	4.18	5.23	6.67	9.03	11.34
Mar	4.77	4.48	2.98	1989	2	12.66	1991	.00	1972	9.3	7.0	3.4	1.3	.45	1.00	1.79	2.48	3.19	3.96	4.83	5.89	7.30	9.58	11.76
Apr	1.80	1.51	2.45	1982	11	6.59	1982	.00+	1992	5.9	3.6	1.1	.4	.00	.10	.36	.63	.93	1.27	1.69	2.21	2.94	4.18	5.40
May	.79	.38	2.21	1990	28	4.45	1995	.00+	1997	2.9	2.0	.5	.1	.00	.01	.08	.17	.29	.45	.65	.92	1.32	2.02	2.75
Jun	.33	.01	1.63	1982	30	2.29	1998	.00+	1999	.9	.6	.2	.1	.00	.00	.00	.00	.00	.00	.06	.21	.49	1.07	1.72
Jul	.10	.00	1.45	1992	13	1.98	1992	.00+	2000	.5	.2	.1	@	.00	.00	.00	.00	.00	.00	.00	.00	.04	.27	.53
Aug	.06	.00	1.05	1975	19	1.05	1975	.00+	2000	.4	.2	@	@	.00	.00	.00	.00	.00	.00	.00	.00	.01	.16	.40
Sep	.66	.12	2.31	1982	26	4.46	1982	.00+	1996	1.5	1.1	.4	.2	.00	.00	.00	.00	.01	.11	.30	.61	1.11	2.05	3.06
Oct	1.15	.75	2.94	1992	30	3.76	1982	.00+	1999	3.2	2.0	.8	.5	.00	.00	.08	.28	.50	.75	1.06	1.44	1.97	2.85	3.76
Nov	2.67	1.87	5.23	1950	18	8.11	1983	.00	1992	5.5	3.9	1.7	.9	.05	.21	.54	.91	1.33	1.83	2.45	3.24	4.34	6.24	8.13
Dec	3.00	2.53	4.09	1982	22	8.98	1996	.00	1989	7.3	4.7	2.2	.9	.09	.31	.72	1.15	1.63	2.18	2.84	3.67	4.82	6.76	8.67
Ann	24.36	22.05	5.23	Nov 1950	18	12.66	Mar 1991	.00+	Aug 2000	54.4	37.4	16.9	7.5	10.73	12.90	15.94	18.40	20.71	23.04	25.53	28.39	32.00	37.48	42.43

+ 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:

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**COOP ID: 048917**

Climate Division: **CA 5**

NWS Call Sign:

Elevation: **1,140 Feet**

Lat: **36° 28N**

Lon: **118° 52W**

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	0	0	0	0	0	0	.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	0	0	0	0	0	0	.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	0	0	0	0	0	.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

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Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/05	4/26	4/19	4/13	4/07	4/02	3/27	3/20	3/10
32	4/22	4/09	3/31	3/23	3/16	3/09	3/01	2/20	2/07
28	3/11	2/23	2/12	2/02	1/24	1/15	1/04	12/22	11/27
24	2/13	1/27	1/13	12/29	12/04	0/00	0/00	0/00	0/00
20	12/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/25	10/29	11/02	11/05	11/08	11/10	11/13	11/17	11/21
32	11/05	11/11	11/15	11/18	11/21	11/24	11/28	12/02	12/07
28	11/10	11/21	11/29	12/05	12/12	12/19	12/27	1/07	0/00
24	12/09	12/28	1/14	2/02	0/00	0/00	0/00	0/00	0/00
20	1/01	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	242	232	225	219	214	208	202	195	185
32	286	274	265	257	250	242	234	225	213
28	>365	>365	356	335	320	308	295	282	264
24	>365	>365	>365	>365	>365	>365	>365	>365	316
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>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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Degree Days to Selected Base Temperatures (°F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	556	399	342	205	74	5	0	0	8	99	358	569	2615
60	401	261	206	114	28	0	0	0	1	40	225	414	1690
57	314	184	139	72	14	0	0	0	0	20	157	327	1227
55	257	138	103	50	8	0	0	0	0	11	118	270	955
50	137	55	36	16	1	0	0	0	0	2	48	147	442
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	467	525	686	828	1102	1318	1552	1520	1294	1030	636	454	11412
55	11	20	76	188	397	628	839	807	604	328	64	10	3972
57	6	10	50	150	340	568	777	745	544	275	43	6	3514
60	0	2	24	102	262	479	684	652	455	202	21	0	2883
65	0	0	5	43	153	334	529	497	312	106	4	0	1983
70	0	0	0	14	74	202	375	343	185	45	0	0	1238

Growing Degree Units (2)																								
Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	238	337	462	609	865	1083	1304	1277	1067	798	413	230	238	575	1037	1646	2511	3594	4898	6175	7242	8040	8453	8683
45	111	201	310	459	710	933	1149	1122	917	643	267	103	111	312	622	1081	1791	2724	3873	4995	5912	6555	6822	6925
50	37	89	171	314	555	783	994	967	767	489	144	30	37	126	297	611	1166	1949	2943	3910	4677	5166	5310	5340
55	3	28	66	184	402	633	839	812	617	340	55	0	3	31	97	281	683	1316	2155	2967	3584	3924	3979	3979
60	0	2	15	88	262	483	684	657	467	203	14	0	0	2	17	105	367	850	1534	2191	2658	2861	2875	2875
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	152	216	289	385	541	660	791	778	656	503	264	154	152	368	657	1042	1583	2243	3034	3812	4468	4971	5235	5389

(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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## 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)