U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography of the United States No. 20 1971-2000

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

Station: RIVERSIDE FIRE STA 3, CA **COOP ID: 047470**

Climate Division: CA 6 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 33˚57N** **Lon: 117˚23W**

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	67.9	42.7	55.3	90+	1971	19	59.8	1986	19	1950	7	51.2	1979	305	3	.0	.1	30.9	.0	2.1	.0
Feb	69.6	44.3	57.0	92	1968	24	62.2	1991	24	1942	15	54.0	1990	230	4	.0	.2	28.0	@	.8	.0
Mar	71.0	46.2	58.6	99	1988	26	63.7	1997	25	1954	13	53.6	1973	216	17	.0	.7	31.0	.0	.2	.0
Apr	76.2	49.3	62.8	105	1989	6	68.1	1989	29	1970	4	56.2	1975	129	62	.2	3.1	30.0	.0	.0	.0
May	80.2	54.4	67.3	110	1984	29	74.6	1997	34+	1950	8	61.9	1977	64	135	.8	5.3	31.0	.0	.0	.0
Jun	87.8	58.7	73.3	111	1990	26	78.9	1981	39	1950	8	67.9	1982	9	256	3.0	14.1	30.0	.0	.0	.0
Jul	94.1	63.3	78.7	116	1934	28	81.9	1984	41	1948	7	74.0	1987	0	424	6.0	24.9	31.0	.0	.0	.0
Aug	95.0	64.1	79.6	113	1997	5	84.4	1998	42+	1950	11	75.9	1989	0	451	8.3	24.9	31.0	.0	.0	.0
Sep	90.8	61.4	76.1	115	1955	6	82.7	1984	39	1948	26	68.9	1986	5	337	5.5	17.1	30.0	.0	.0	.0
Oct	83.0	54.3	68.7	109	1980	1	72.9	1991	30	1971	30	64.9	1971	34	147	1.2	8.0	31.0	.0	.1	.0
Nov	74.1	45.9	60.0	96+	1997	3	64.2	1995	23+	1950	12	54.8	1994	172	22	.0	1.1	30.0	.0	.3	.0
Dec	68.6	41.7	55.2	94	1958	3	59.5	1977	21	1949	12	50.0	1971	311	5	.0	.0	30.8	.0	2.2	.0
Ann	79.9	52.2	66.1	116	Jul 1934	28	84.4	Aug 1998	19	Jan 1950	7	50.0	Dec 1971	1475	1863	25.0	99.5	364.7	@	5.7	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1927-2001

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

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.32	1.50	2.70	1956	26	9.14	1993	.00+	1976
Feb	2.31	1.63	3.22	1937	7	10.08	1998	.00	1984
Mar	2.11	1.68	4.42	1938	4	6.01	1983	.00+	1997
Apr	.58	.30	1.40	1940	1	2.44	1983	.00+	1993
May	.20	.04	1.39	1930	1	1.63	1977	.00+	2000
Jun	.10	.00	.83	1993	5	.84	1993	.00+	2000
Jul	.03	.00	1.26	1956	25	.22	1992	.00+	2000
Aug	.17	.00	2.05	1977	17	2.33	1983	.00+	2000
Sep	.24	.00	1.37	1963	18	2.03	1976	.00+	2000
Oct	.31	.11	1.36	1983	1	2.42	1987	.00+	1999
Nov	.74	.41	2.11	1954	11	2.62	1985	.00+	1995
Dec	1.11	.71	3.28	1943	11	4.12	1984	.00+	2000
Ann	10.22	8.98	4.42	Mar 1938	4	10.08	Feb 1998	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	4.8	1.7	.4
Feb	6.1	4.4	1.8	.7
Mar	6.4	4.2	1.6	.5
Apr	2.8	1.5	.4	@
May	1.4	.5	.1	.0
Jun	.5	.2	@	.0
Jul	.4	.1	.0	.0
Aug	.5	.2	.1	.1
Sep	1.2	.5	.2	@
Oct	2.0	.9	.2	.1
Nov	2.7	1.7	.5	.1
Dec	4.2	2.5	.5	.1
Ann	34.8	21.5	7.1	2.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.15	.50	.85	1.24	1.68	2.21	2.86	3.77	5.30	6.81
Feb	.06	.22	.53	.85	1.22	1.65	2.17	2.82	3.73	5.27	6.80
Mar	.00	.11	.40	.71	1.07	1.47	1.96	2.58	3.45	4.92	6.39
Apr	.00	.00	.00	.06	.16	.29	.45	.68	1.01	1.59	2.19
May	.00	.00	.00	.00	.00	.03	.09	.18	.33	.61	.91
Jun	.00	.00	.00	.00	.00	.00	.00	.00	.11	.34	.58
Jul	.00	.00	.00	.00	.00	.00	.00	.00	.04	.10	.16
Aug	.00	.00	.00	.00	.00	.00	.00	.00	.02	.38	1.04
Sep	.00	.00	.00	.00	.00	.00	.05	.17	.39	.79	1.21
Oct	.00	.00	.00	.02	.07	.13	.22	.34	.52	.86	1.20
Nov	.00	.00	.01	.09	.20	.36	.56	.84	1.26	2.00	2.77
Dec	.00	.03	.16	.31	.49	.71	.98	1.33	1.84	2.71	3.58
Ann	3.68	4.64	6.02	7.18	8.29	9.42	10.66	12.09	13.93	16.75	19.35

\+ 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: 1927-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	4/11	3/30	3/20	3/13	3/05	2/26	2/18	2/09	1/27
32	3/07	2/22	2/12	2/03	1/26	1/17	1/06	12/21	0/00
28	1/19	1/05	12/21	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	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	11/06	11/13	11/18	11/23	11/27	12/01	12/06	12/11	12/19
32	11/18	11/29	12/08	12/16	12/23	12/31	1/11	1/29	0/00
28	12/08	12/23	1/06	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	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	307	293	283	274	266	258	250	240	226
32	>365	>365	>365	349	329	315	302	289	272
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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

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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	305	230	216	129	64	9	0	0	5	34	172	311	1475
60	167	112	108	55	20	1	0	0	0	6	77	175	721
57	104	63	62	27	9	0	0	0	0	1	40	112	418
55	71	37	37	16	4	0	0	0	0	0	23	79	267
50	17	6	8	3	0	0	0	0	0	0	4	22	60
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	721	698	824	923	1094	1236	1447	1474	1322	1136	840	717	12432
55	79	92	148	248	385	546	734	761	632	423	173	83	4304
57	50	61	111	200	328	486	672	699	572	362	130	54	3725
60	20	26	64	138	246	397	579	606	482	274	77	23	2932
65	3	4	17	62	135	256	424	451	337	147	22	5	1863
70	0	0	3	19	59	136	271	300	205	61	3	0	1057

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	469	490	590	699	865	1011	1204	1223	1076	880	593	463	469	959	1549	2248	3113	4124	5328	6551	7627	8507	9100	9563
45	317	347	435	549	710	861	1049	1068	926	725	443	308	317	664	1099	1648	2358	3219	4268	5336	6262	6987	7430	7738
50	174	211	282	399	555	711	894	913	776	570	294	169	174	385	667	1066	1621	2332	3226	4139	4915	5485	5779	5948
55	70	94	142	254	400	561	739	758	626	415	158	68	70	164	306	560	960	1521	2260	3018	3644	4059	4217	4285
60	21	31	49	132	248	411	584	603	476	265	61	11	21	52	101	233	481	892	1476	2079	2555	2820	2881	2892
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	289	301	351	427	538	634	757	766	678	550	377	303	289	590	941	1368	1906	2540	3297	4063	4741	5291	5668	5971

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html
Snow Climatology Project Description, 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