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: VISTA 2 NNE, CA **COOP ID: 049378**

Climate Division: CA 6 **NWS Call Sign:** **Elevation: 510 Feet** **Lat: 33˚14N** **Lon: 117˚14W**

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	67.7	45.1	56.4	88+	1976	16	62.1	1986	20	1988	25	52.4	1973	271	0	.0	.0	31.0	.0	.7	.0
Feb	68.2	45.7	57.0	93	1963	3	61.1	1995	31+	1990	15	52.8	1975	230	4	.0	@	28.1	.0	.2	.0
Mar	68.4	47.3	57.9	96	1988	26	62.0	1997	29	1971	2	53.5	1973	230	9	.0	.2	31.0	.0	.1	.0
Apr	72.0	49.9	61.0	101+	1989	7	66.0	1992	35+	1976	16	54.7	1975	154	33	.1	.6	30.0	.0	.0	.0
May	73.4	54.3	63.9	99	1979	13	70.1	1997	38	1962	17	59.1	1977	106	70	.0	.6	31.0	.0	.0	.0
Jun	77.8	57.4	67.6	108	1985	30	72.1	1981	42	1967	2	62.8	1975	37	114	.2	1.5	30.0	.0	.0	.0
Jul	82.2	60.9	71.6	107	1985	1	76.7	1984	49+	1968	2	67.4	1987	9	211	.1	2.8	31.0	.0	.0	.0
Aug	83.7	62.2	73.0	106	1998	29	78.0	1998	46+	1975	30	67.3	1975	10	256	.3	5.1	31.0	.0	.0	.0
Sep	82.6	60.8	71.7	107	1978	24	78.8	1984	46	1966	14	67.1	1973	14	216	.8	5.1	30.0	.0	.0	.0
Oct	78.7	55.7	67.2	104	1987	3	72.2	1999	36	1971	31	63.5	1975	39	107	.2	2.9	31.0	.0	.0	.0
Nov	73.0	48.8	60.9	97+	1997	2	65.0	1976	33	1975	29	56.4	1994	145	21	.0	.6	30.0	.0	.0	.0
Dec	68.2	44.9	56.6	90	1979	4	60.8	1980	25	1968	21	51.1	1971	269	6	.0	@	31.0	.0	.5	.0
Ann	74.7	52.8	63.7	108	Jun 1985	30	78.8	Sep 1984	20	Jan 1988	25	51.1	Dec 1971	1514	1047	1.7	19.4	365.1	.0	1.5	.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: 1957-2001

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

Issue Date: February 2004

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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	3.13	1.70	2.93	1980	29	12.29	1993	.00+	1976
Feb	2.66	2.04	3.26	1991	28	9.20	1998	.03	1984
Mar	2.83	2.16	2.90	1995	5	8.41	1995	.00+	1997
Apr	.94	.75	1.29	1975	8	3.49	1988	.00+	1993
May	.27	.12	1.19	1977	9	2.45	1977	.00+	1999
Jun	.13	.04	.57	1993	5	.66	1990	.00+	2000
Jul	.05	.00	.64	1997	21	.64	1997	.00+	2000
Aug	.11	.00	1.45	1977	17	1.78	1977	.00+	1999
Sep	.31	.03	1.22	1986	25	1.89	1976	.00+	1999
Oct	.45	.19	1.00	1987	12	2.63	1987	.00+	1999
Nov	1.28	1.13	2.41	1965	23	5.46	1985	.00+	1999
Dec	1.53	1.41	2.54	1966	5	4.47	1984	.00	1989
Ann	13.69	12.35	3.26	Feb 1991	28	12.29	Jan 1993	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.4	5.3	2.2	1.1
Feb	7.2	4.9	2.0	.7
Mar	7.2	5.2	2.4	.6
Apr	4.3	2.5	.6	.1
May	2.4	.8	.2	@
Jun	1.1	.5	@	.0
Jul	.5	.1	@	.0
Aug	.7	.2	@	@
Sep	1.5	.6	.2	.1
Oct	2.3	1.1	.3	@
Nov	3.9	2.5	.8	.2
Dec	5.6	3.7	1.0	.2
Ann	44.1	27.4	9.7	3.0

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	.14	.56	1.02	1.53	2.14	2.88	3.81	5.13	7.38	9.61
Feb	.16	.31	.64	1.00	1.41	1.89	2.47	3.22	4.27	6.05	7.82
Mar	.00	.14	.53	.95	1.42	1.96	2.63	3.46	4.64	6.64	8.63
Apr	.00	.04	.16	.30	.45	.63	.86	1.14	1.54	2.22	2.91
May	.00	.00	.00	.02	.06	.12	.20	.31	.47	.77	1.07
Jun	.00	.00	.00	.00	.00	.01	.06	.13	.24	.42	.60
Jul	.00	.00	.00	.00	.00	.00	.01	.04	.09	.18	.26
Aug	.00	.00	.00	.00	.00	.00	.00	.03	.13	.38	.67
Sep	.00	.00	.00	.00	.00	.01	.10	.26	.52	1.01	1.53
Oct	.00	.00	.00	.03	.09	.19	.31	.50	.77	1.28	1.80
Nov	.00	.03	.16	.32	.53	.78	1.11	1.53	2.14	3.20	4.28
Dec	.05	.16	.36	.58	.83	1.11	1.44	1.87	2.45	3.44	4.42
Ann	5.42	6.69	8.49	9.97	11.38	12.81	14.35	16.14	18.41	21.88	25.04

\+ 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: 1957-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	0
Apr	#	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	#	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	#	1975	7	#	1975	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	#	Apr 1975	7	#	Apr 1975	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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	4/01	3/14	3/01	2/17	2/06	1/25	1/11	12/21	0/00
32	2/15	2/02	1/21	1/08	0/00	0/00	0/00	0/00	0/00
28	1/12	0/00	0/00	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	11/20	12/04	12/14	12/23	1/01	1/10	1/22	2/13	0/00
32	12/16	1/02	1/17	2/06	0/00	0/00	0/00	0/00	0/00
28	12/31	0/00	0/00	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	>365	>365	>365	358	330	310	292	274	250
32	>365	>365	>365	>365	>365	>365	>365	342	313
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	271	230	230	154	106	37	9	10	14	39	145	269	1514
60	138	112	111	69	37	7	0	0	0	7	56	139	676
57	82	64	62	33	16	1	0	0	0	1	24	85	368
55	52	38	36	19	9	0	0	0	0	0	12	55	221
50	10	7	7	3	0	0	0	0	0	0	1	12	40
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	756	699	803	869	987	1067	1225	1269	1192	1091	866	761	11585
55	95	93	126	197	283	377	512	556	502	378	188	103	3410
57	63	62	90	152	228	319	450	494	442	316	141	70	2827
60	26	27	46	98	156	234	357	401	352	229	82	32	2040
65	0	4	9	33	70	114	211	256	216	107	21	6	1047
70	0	0	0	8	19	38	95	135	109	33	2	0	439

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	508	496	551	628	742	827	981	1024	955	842	624	510	508	1004	1555	2183	2925	3752	4733	5757	6712	7554	8178	8688
45	354	351	396	478	587	677	826	869	805	687	474	355	354	705	1101	1579	2166	2843	3669	4538	5343	6030	6504	6859
50	205	208	243	329	432	527	671	714	655	532	324	212	205	413	656	985	1417	1944	2615	3329	3984	4516	4840	5052
55	89	94	109	185	277	377	516	559	505	377	179	89	89	183	292	477	754	1131	1647	2206	2711	3088	3267	3356
60	28	29	33	69	132	227	361	404	355	228	75	26	28	57	90	159	291	518	879	1283	1638	1866	1941	1967
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	290	280	304	363	434	523	659	693	628	526	368	298	290	570	874	1237	1671	2194	2853	3546	4174	4700	5068	5366

(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/normals/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.
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