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: CHERRY VALLEY DAM, CA **COOP ID: 041697**

Climate Division: CA 5 **NWS Call Sign:** **Elevation: 4,765 Feet** **Lat: 37˚58N** **Lon: 119˚55W**

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	48.5	29.8	39.2	73	1962	8	45.2	1986	4+	1969	31	33.7	1993	802	0	.0	.0	14.0	.7	21.1	.0
Feb	50.7	29.8	40.3	74	1986	26	47.2	1991	-2	1962	27	35.6	1998	694	0	.0	.0	15.2	.7	19.4	@
Mar	53.7	31.5	42.6	80	1966	30	49.9	1997	6	1962	12	34.8	1991	679	0	.0	.0	20.2	.1	17.7	.0
Apr	60.4	35.6	48.0	84+	1989	8	55.0	1987	14	1975	7	39.6	1975	515	6	.0	.0	24.5	@	11.1	.0
May	68.8	42.7	55.8	91+	2001	31	63.0	1992	22+	1975	5	46.3	1998	319	32	.0	.1	28.8	.0	2.9	.0
Jun	78.6	49.9	64.3	99	1961	22	69.9	1981	29	1971	1	59.3	1998	104	81	.0	3.0	29.8	.0	.3	.0
Jul	86.5	55.9	71.2	105	1972	15	75.4	1988	39	1987	18	66.2	1983	13	205	.2	11.2	31.0	.0	.0	.0
Aug	86.2	55.6	70.9	103	1981	9	74.0	1998	35	1968	22	63.7	1976	16	199	.3	10.5	31.0	.0	.0	.0
Sep	78.9	50.5	64.7	98+	1988	5	70.4	1974	30	1971	27	56.7	1986	112	104	.0	2.8	29.9	.0	.2	.0
Oct	68.2	42.7	55.5	93+	1980	3	62.1	1999	17	1971	29	48.4	1971	324	28	.0	.2	29.2	.0	3.1	.0
Nov	54.9	34.3	44.6	82	1966	1	52.6	1995	12+	1985	15	35.9	1994	612	1	.0	.0	20.4	.2	13.3	.0
Dec	48.8	30.3	39.6	76+	1958	4	45.7	1980	-3	1972	9	30.2	1971	790	0	.0	.0	15.0	1.2	19.4	@
Ann	65.4	40.7	53.1	105	Jul 1972	15	75.4	Jul 1988	-3	Dec 1972	9	30.2	Dec 1971	4980	656	.5	27.8	289.0	2.9	108.5	.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: 1955-2001

(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	9.44	7.09	6.69	1982	4	31.33	1997	.30	1984
Feb	8.40	7.56	10.07	1963	1	30.96	1986	.62	1997
Mar	7.38	5.52	5.14	1986	7	22.52	1991	.17	1972
Apr	3.41	2.72	4.10	1982	10	9.12	1978	.59	1992
May	1.75	1.13	3.33	1957	19	6.48	1995	.00	1985
Jun	.79	.54	1.74	1970	9	3.72	1993	.00+	1994
Jul	.18	.00	1.72	1992	12	2.30	1992	.00+	2000
Aug	.21	.03	2.02	1976	14	2.42	1976	.00+	1998
Sep	1.08	.52	5.57	1959	19	5.48	1982	.00+	1995
Oct	2.72	2.37	3.54	1969	16	8.07	1975	.00+	1995
Nov	5.89	4.27	4.99	1977	22	19.00	1983	.15	1995
Dec	6.21	4.83	8.43	1955	23	18.58	1996	.00	1989
Ann	47.46	43.82	10.07	Feb 1963	1	31.33	Jan 1997	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	8.2	5.1	3.4
Feb	9.2	7.4	4.6	2.7
Mar	11.0	8.6	4.9	2.7
Apr	7.3	5.5	2.3	1.1
May	5.8	3.5	1.1	.3
Jun	2.5	1.9	.5	.1
Jul	.7	.3	.1	.1
Aug	1.3	.4	.1	@
Sep	3.1	2.0	.6	.3
Oct	5.1	3.6	1.7	.9
Nov	7.4	5.8	3.3	2.0
Dec	8.1	6.6	3.3	1.9
Ann	71.5	53.8	27.6	15.5

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	.52	1.05	2.19	3.46	4.91	6.62	8.71	11.39	15.15	21.57	27.97
Feb	.82	1.42	2.56	3.73	5.00	6.43	8.13	10.24	13.14	17.97	22.69
Mar	.67	1.18	2.17	3.20	4.32	5.59	7.10	8.99	11.59	15.93	20.19
Apr	.53	.82	1.32	1.79	2.27	2.81	3.42	4.17	5.17	6.80	8.36
May	.05	.17	.40	.65	.93	1.25	1.64	2.14	2.83	4.00	5.15
Jun	.00	.00	.10	.27	.43	.60	.79	1.02	1.33	1.82	2.33
Jul	.00	.00	.00	.00	.00	.00	.01	.08	.23	.58	.99
Aug	.00	.00	.00	.00	.00	.02	.07	.16	.32	.64	1.00
Sep	.00	.00	.00	.05	.20	.43	.75	1.19	1.86	3.07	4.32
Oct	.00	.15	.53	.94	1.39	1.92	2.55	3.34	4.44	6.31	8.17
Nov	.32	.65	1.36	2.15	3.06	4.13	5.43	7.10	9.45	13.46	17.45
Dec	.19	.64	1.50	2.39	3.38	4.52	5.87	7.59	9.97	13.97	17.92
Ann	21.88	26.05	31.80	36.45	40.77	45.12	49.76	55.07	61.74	71.83	80.93

\+ 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: 1955-2001
(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	20.6	18.3	9	6	19.5	1982	4	48.8	1997	50	1971	14	33	1982	4.8	3.7	2.5	1.8	.8	11.7	9.8	8.1	4.3
Feb	24.5	20.3	9	9	25.0	1975	2	70.0	1975	38	1979	23	22	1993	4.9	4.3	2.7	1.8	.7	11.5	9.9	7.9	5.4
Mar	24.1	17.3	5	3	25.0	1991	25	118.3	1991	43	1991	25	20	1991	4.6	4.0	2.8	2.0	.8	10.0	8.0	6.1	3.7
Apr	8.3	3.0	1	#	15.0	1999	9	46.0	1975	30	1982	1	10	1975	2.3	2.1	1.0	.6	.2	3.5	2.3	1.5	.8
May	.7	.0	#	0	4.0	1979	8	4.0+	1980	4	1979	8	#+	1999	.3	.3	.2	.0	.0	.3	.2	.0	.0
Jun	.1	.0	#	0	2.0	1999	3	2.0	1999	2	1999	3	#	1999	@	@	.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	.5	1971	30	.5	1971	#	1986	24	#	1986	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	3.0	1971	16	5.0	1971	3	1971	16	#+	2000	.3	.2	@	.0	.0	.3	@	.0	.0
Nov	5.9	2.0	1	#	15.0	1994	26	46.0	1994	25	1994	26	9	1994	1.9	1.6	.8	.4	.1	3.4	1.6	1.0	.2
Dec	12.1	8.0	4	3	11.3	1987	29	48.7	1992	33	1988	31	12	1994	3.4	2.8	2.1	1.2	.3	8.7	6.4	4.9	1.9
Ann	96.7	68.9	N/A	N/A	25.0+	Mar 1991	25	118.3	Mar 1991	50	Jan 1971	14	33	Jan 1982	22.5	19.0	12.1	7.8	2.9	49.4	38.2	29.5	16.3

+ 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	6/16	6/10	6/05	6/01	5/28	5/25	5/21	5/16	5/10
32	6/09	6/01	5/26	5/21	5/16	5/11	5/06	4/30	4/22
28	5/19	5/11	5/05	4/29	4/25	4/20	4/15	4/09	3/31
24	5/05	4/23	4/14	4/06	3/30	3/22	3/15	3/06	2/21
20	4/18	4/01	3/20	3/09	2/27	2/17	2/05	1/23	1/02
16	4/03	3/18	3/05	2/22	2/12	1/31	1/17	12/21	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	9/23	9/30	10/06	10/10	10/14	10/19	10/23	10/28	11/05
32	10/06	10/13	10/18	10/22	10/25	10/29	11/02	11/07	11/13
28	10/20	10/28	11/02	11/06	11/10	11/14	11/19	11/24	12/01
24	10/31	11/09	11/16	11/21	11/26	12/01	12/07	12/13	12/22
20	11/10	11/21	11/29	12/05	12/12	12/18	12/25	1/03	1/21
16	11/21	12/07	12/18	12/29	1/08	1/20	2/04	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	167	157	150	144	138	132	126	119	109
32	190	180	173	167	162	156	150	143	133
28	233	221	213	206	199	192	185	177	165
24	290	273	261	250	241	231	221	209	192
20	>365	331	312	298	286	275	263	249	231
16	>365	>365	>365	>365	352	318	297	278	255

***** 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	802	694	679	515	319	104	13	16	112	324	612	790	4980
60	647	554	542	378	208	43	1	2	50	209	468	635	3737
57	554	470	453	302	155	22	0	0	28	154	386	545	3069
55	492	415	396	257	124	13	0	0	18	121	334	486	2656
50	344	285	262	161	62	3	0	0	5	59	218	346	1745
32	20	15	16	7	0	0	0	0	0	0	14	37	109

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	242	245	343	489	736	967	1215	1205	982	727	392	270	7813
55	0	0	11	48	147	290	502	492	310	136	22	7	1965
57	0	0	6	33	116	239	440	431	260	106	15	3	1649
60	0	0	1	19	76	170	348	340	192	69	6	0	1221
65	0	0	0	6	32	81	205	199	104	28	1	0	656
70	0	0	0	0	12	27	94	92	43	9	0	0	277

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	73	91	139	265	495	730	974	962	746	485	179	79	73	164	303	568	1063	1793	2767	3729	4475	4960	5139	5218
45	27	37	59	159	350	582	819	807	597	344	89	24	27	64	123	282	632	1214	2033	2840	3437	3781	3870	3894
50	0	6	16	78	228	436	664	652	451	218	33	0	0	6	22	100	328	764	1428	2080	2531	2749	2782	2782
55	0	0	0	30	128	300	509	498	311	115	7	0	0	0	0	30	158	458	967	1465	1776	1891	1898	1898
60	0	0	0	3	53	175	355	347	187	46	0	0	0	0	0	3	56	231	586	933	1120	1166	1166	1166
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	49	70	101	182	311	458	622	616	467	300	110	47	49	119	220	402	713	1171	1793	2409	2876	3176	3286	3333

(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