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: CEDARVILLE, CA **COOP ID: 041614**

Climate Division: CA 3 **NWS Call Sign:** **Elevation: 4,670 Feet** **Lat: 41˚32N** **Lon: 120˚10W**

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	40.0	20.0	30.0	64	1971	20	38.6	1986	-23	1962	23	16.7	1977	1086	0	.0	.0	3.9	6.5	27.6	1.4
Feb	44.7	23.6	34.2	69+	1992	28	41.7	1991	-17	1989	5	24.3	1989	864	0	.0	.0	7.3	2.6	23.8	.6
Mar	50.5	28.0	39.3	80+	1966	31	46.1	1986	-2	1971	1	33.6	1985	798	0	.0	.0	15.9	.5	21.9	@
Apr	56.9	32.5	44.7	82+	1987	28	51.6	1990	14+	1999	4	36.2	1975	610	0	.0	.0	21.7	.0	13.9	.0
May	65.5	39.2	52.4	96	1954	18	60.4	1992	20	1954	1	45.3	1977	400	7	.0	.2	28.6	.0	4.6	.0
Jun	75.7	46.6	61.2	102	1955	9	67.7	1986	29	1988	6	55.8	1984	167	52	.0	2.4	29.9	.0	.4	.0
Jul	85.5	53.4	69.5	104	1960	19	75.0	1994	35	1976	1	62.8	1993	36	173	.1	10.9	31.0	.0	.0	.0
Aug	84.9	51.8	68.4	106	1961	5	72.2	1971	33	1999	31	61.3	1976	39	143	.3	9.7	31.0	.0	.0	.0
Sep	76.6	43.4	60.0	106+	1955	3	64.7	1979	23	1950	30	52.8	1986	192	41	.0	2.0	29.7	.0	1.8	.0
Oct	64.6	34.3	49.5	90	1996	10	56.9	1988	7	1971	29	40.1	1984	487	4	.0	@	27.6	.1	12.5	.0
Nov	48.3	26.2	37.3	75	1988	1	44.0	1995	-5	1993	25	28.3	1994	834	0	.0	.0	13.8	1.5	23.5	.1
Dec	40.5	20.1	30.3	65	1958	12	38.2	1981	-28	1990	22	19.8	1990	1076	0	.0	.0	4.3	5.4	27.8	1.5
Ann	61.1	34.9	48.1	106+	Aug 1961	5	75.0	Jul 1994	-28	Dec 1990	22	16.7	Jan 1977	6589	420	.4	25.2	244.7	16.6	157.8	3.6

\+ 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: 1948-2001

(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	1.84	1.60	2.38	1980	13	5.74	1980	.05	1992
Feb	1.42	1.10	1.92	1986	17	6.06	1986	.34	1977
Mar	1.58	1.36	1.34	1991	5	3.74	1971	.58	1999
Apr	1.16	1.06	1.00	1995	29	3.52	1995	.21	1977
May	1.16	.83	1.22	1993	4	3.99	1971	.02	1976
Jun	.67	.49	1.86	1992	26	2.36	1992	.04	1974
Jul	.29	.19	.89	1974	1	1.32	1975	.00+	2000
Aug	.38	.23	.85	1989	23	1.66	1976	.00+	2000
Sep	.61	.40	1.37	1989	18	2.58	1971	.00+	1999
Oct	.86	.59	1.65	1962	14	2.54	1975	.00+	1988
Nov	1.65	1.52	2.70	1957	14	4.29	1988	.29	1976
Dec	1.54	.97	1.26	1955	22	5.77	1983	.06	1976
Ann	13.16	12.58	2.70	Nov 1957	14	6.06	Feb 1986	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	4.7	.9	.3
Feb	8.6	4.1	.5	.1
Mar	10.1	4.7	.7	.1
Apr	8.4	4.0	.2	@
May	7.2	3.5	.4	@
Jun	5.1	1.8	.2	@
Jul	2.1	1.1	.1	.0
Aug	2.8	1.2	.1	.0
Sep	3.2	1.7	.2	@
Oct	5.6	2.8	.3	@
Nov	8.7	5.1	.6	.1
Dec	9.1	4.9	.5	.1
Ann	79.8	39.6	4.7	.7

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	.15	.28	.52	.78	1.06	1.38	1.76	2.24	2.91	4.02	5.12
Feb	.27	.40	.61	.80	.99	1.20	1.44	1.73	2.11	2.72	3.30
Mar	.52	.67	.89	1.08	1.26	1.44	1.64	1.88	2.19	2.66	3.10
Apr	.29	.39	.56	.71	.86	1.02	1.19	1.40	1.67	2.10	2.50
May	.12	.20	.36	.52	.70	.89	1.13	1.42	1.81	2.48	3.12
Jun	.04	.08	.16	.26	.36	.48	.62	.81	1.07	1.51	1.95
Jul	.00	.00	.00	.05	.10	.17	.25	.35	.50	.75	1.01
Aug	.00	.00	.02	.07	.14	.22	.33	.46	.65	.97	1.30
Sep	.00	.00	.00	.09	.21	.35	.52	.74	1.05	1.60	2.14
Oct	.00	.10	.26	.40	.54	.69	.86	1.07	1.35	1.81	2.25
Nov	.32	.47	.71	.94	1.16	1.41	1.68	2.01	2.45	3.16	3.84
Dec	.14	.25	.46	.68	.91	1.17	1.49	1.88	2.42	3.32	4.20
Ann	7.64	8.62	9.93	10.95	11.88	12.80	13.76	14.84	16.17	18.14	19.88

+ 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

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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	8.5	7.1	1	#	16.0	1993	7	23.5	1993	14	1988	4	7	1984	3.3	2.1	.7	.3	@	7.3	4.4	3.4	.0
Feb	6.1	5.3	1	#	8.0	1972	24	15.5	1972	11	1972	25	6	1993	3.1	1.9	.4	.1	.0	2.6	.9	.2	.1
Mar	4.5	2.6	#	#	10.0	1971	12	16.4	1971	10	1971	12	2	1971	2.5	1.3	.5	.2	@	.8	.2	.2	.0
Apr	1.7	1.5	#	0	5.0	1975	4	12.3	1975	5	1975	4	#+	1999	1.3	.7	.1	@	.0	.4	.1	@	.0
May	.2	.0	#	0	2.5	1979	8	3.1	1978	3	1979	8	#+	1983	.1	.1	.0	.0	.0	@	@	.0	.0
Jun	.0	.0	#	0	1.0	1980	3	1.0	1980	1	1980	3	#	1980	@	@	.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	#	1982	29	#	1982	#	1971	30	#	1971	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.3	.0	#	0	3.5	1971	31	5.0	1971	4	1971	31	#+	1984	.2	.1	@	.0	.0	.1	@	.0	.0
Nov	2.7	1.3	#	#	4.0	1971	28	10.0	1998	7	1985	10	1	1985	1.7	1.2	.3	.0	.0	.9	.2	.0	.0
Dec	6.2	3.0	#	#	12.0	1983	24	28.3	1983	17	1983	25	3	1983	3.2	2.0	.5	.1	@	2.2	.8	.4	.2
Ann	30.2	20.8	N/A	N/A	16.0	Jan 1993	7	28.3	Dec 1983	17	Dec 1983	25	7	Jan 1984	15.4	9.4	2.5	.7	@	14.3	6.6	4.2	.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	6/28	6/23	6/19	6/15	6/12	6/09	6/05	6/01	5/27
32	6/13	6/07	6/02	5/29	5/25	5/21	5/17	5/13	5/06
28	5/22	5/17	5/13	5/09	5/06	5/03	4/30	4/26	4/20
24	5/12	5/03	4/27	4/21	4/16	4/11	4/05	3/30	3/21
20	4/18	4/09	4/03	3/28	3/23	3/18	3/12	3/06	2/24
16	3/26	3/17	3/11	3/06	3/01	2/24	2/19	2/13	2/04

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	8/28	9/03	9/08	9/12	9/15	9/19	9/23	9/27	10/03
32	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/06	10/12
28	9/25	10/01	10/04	10/08	10/11	10/14	10/17	10/21	10/26
24	10/09	10/14	10/18	10/22	10/25	10/28	10/31	11/04	11/10
20	10/23	10/28	11/01	11/04	11/08	11/11	11/14	11/18	11/23
16	10/31	11/05	11/09	11/12	11/15	11/18	11/21	11/24	11/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	120	111	105	99	94	89	84	77	69
32	147	139	133	128	123	119	114	108	100
28	177	170	165	161	157	153	149	144	137
24	224	213	205	198	191	185	178	169	158
20	262	251	242	235	229	222	215	207	196
16	286	276	269	263	258	252	247	240	230

***** 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	1086	864	798	610	400	167	36	39	192	487	834	1076	6589
60	931	724	643	466	264	84	9	9	102	345	684	921	5182
57	838	640	550	383	195	49	3	3	63	269	595	828	4416
55	776	584	489	330	156	32	1	1	44	223	537	766	3939
50	630	452	343	214	78	9	0	0	14	129	399	611	2879
32	196	95	24	12	0	0	0	0	0	3	63	162	555

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	133	154	249	392	631	875	1160	1127	839	544	220	109	6433
55	0	0	1	20	73	217	448	415	192	50	4	0	1420
57	0	0	0	13	51	174	388	354	152	34	2	0	1168
60	0	0	0	6	26	118	302	268	101	18	0	0	839
65	0	0	0	0	7	52	173	143	41	4	0	0	420
70	0	0	0	0	0	16	82	59	12	0	0	0	169

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	10	30	90	200	415	660	931	894	612	328	67	14	10	40	130	330	745	1405	2336	3230	3842	4170	4237	4251
45	0	3	32	109	278	510	776	739	467	202	24	0	0	3	35	144	422	932	1708	2447	2914	3116	3140	3140
50	0	0	5	50	164	369	621	584	324	106	4	0	0	0	5	55	219	588	1209	1793	2117	2223	2227	2227
55	0	0	0	16	82	239	467	432	204	43	0	0	0	0	0	16	98	337	804	1236	1440	1483	1483	1483
60	0	0	0	0	32	135	321	288	105	11	0	0	0	0	0	0	32	167	488	776	881	892	892	892
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	25	62	136	261	411	592	570	410	249	54	4	1	26	88	224	485	896	1488	2058	2468	2717	2771	2775

(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