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: DOWNIEVILLE, CA **COOP ID: 042500**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 2,914 Feet** **Lat: 39˚34N** **Lon: 120˚49W**

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	48.6	29.5	39.1	70	1984	28	43.8	1986	2+	1950	3	34.1	1972	804	0	.0	.0	13.2	.3	24.4	.0
Feb	53.1	31.0	42.1	78	1986	27	48.0	1991	2	1949	12	36.2	1990	643	0	.0	.0	16.5	.5	20.0	.0
Mar	58.2	32.8	45.5	82+	1988	25	49.6	1972	10	1971	1	39.4	1991	606	0	.0	.0	23.0	.1	17.4	.0
Apr	65.0	35.0	50.0	96+	1981	30	55.7	1987	18	1976	27	41.2	1975	452	3	.0	.1	26.9	.0	10.4	.0
May	72.8	40.4	56.6	99	1984	28	63.6	1992	26	1967	1	48.6	1977	281	19	.0	.6	30.0	.0	2.1	.0
Jun	82.0	45.4	63.7	105	1961	16	68.1	1981	28	1950	7	59.5	1980	95	56	.2	5.1	29.9	.0	.1	.0
Jul	88.7	49.2	69.0	106	1988	20	72.9	1984	36	1955	6	65.5	1983	19	142	.7	14.3	31.0	.0	.0	.0
Aug	88.8	48.3	68.6	109	1981	7	72.1	1981	36+	1960	25	62.3	1976	28	137	1.1	15.4	31.0	.0	.0	.0
Sep	83.1	44.5	63.8	105	1950	2	68.0	1991	29+	1948	26	57.5	1986	104	67	.2	7.0	29.9	.0	.2	.0
Oct	72.6	38.1	55.4	97	1996	8	61.1	1988	22	1961	22	50.5	1975	312	14	.0	1.1	30.1	.0	3.9	.0
Nov	56.0	32.5	44.3	83+	1966	1	51.6	1995	17+	1981	30	37.5	1994	622	0	.0	.0	21.9	.0	18.4	.0
Dec	48.2	29.1	38.7	71	1998	16	42.3	1989	1	1972	9	32.3	1972	816	0	.0	.0	13.6	.4	25.3	.0
Ann	68.1	38.0	53.1	109	Aug 1981	7	72.9	Jul 1984	1	Dec 1972	9	32.3	Dec 1972	4782	438	2.2	43.6	297.0	1.3	122.2	.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: 1948-2001

(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	11.07	10.00	6.53	1997	1	32.84	1995	.91	1991
Feb	10.69	9.40	9.28	1963	1	32.27	1986	.80	1971
Mar	9.84	7.72	5.81	1991	4	27.79	1995	1.29	1994
Apr	4.56	3.52	3.50	1996	1	14.71	1982	.55	1977
May	2.92	2.36	4.02	1957	19	9.73	1996	.00	1974
Jun	.93	.59	2.07	1991	28	3.20	1995	.00+	1981
Jul	.32	.05	2.20	1974	9	3.27	1974	.00+	2000
Aug	.34	.08	1.54	1976	15	2.75	1976	.00+	2000
Sep	1.51	1.47	3.12	1959	19	8.34	1986	.00+	1995
Oct	3.63	2.82	8.52	1962	12	10.31	1989	.00+	1995
Nov	8.04	6.23	5.33	1988	23	23.22	1973	.92	1986
Dec	8.79	6.70	7.53	1964	22	35.25	1996	.00	1989
Ann	62.64	57.92	9.28	Feb 1963	1	35.25	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.0	9.2	5.7	3.6
Feb	10.2	8.4	5.3	3.8
Mar	11.0	9.7	6.2	3.4
Apr	8.1	6.0	2.8	1.3
May	6.7	4.8	2.0	.7
Jun	3.0	2.0	.6	.2
Jul	1.0	.6	.1	.1
Aug	1.7	.9	.3	@
Sep	3.6	2.3	1.2	.6
Oct	5.5	4.0	1.8	1.0
Nov	9.0	7.4	4.3	2.7
Dec	9.3	7.8	4.5	2.6
Ann	80.1	63.1	34.8	20.0

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	1.12	1.94	3.45	4.99	6.66	8.54	10.75	13.51	17.28	23.54	29.66
Feb	1.40	2.26	3.78	5.27	6.84	8.58	10.59	13.07	16.42	21.91	27.22
Mar	1.46	2.29	3.71	5.07	6.49	8.04	9.83	12.02	14.97	19.76	24.36
Apr	.73	1.12	1.79	2.42	3.06	3.77	4.58	5.57	6.89	9.04	11.09
May	.06	.24	.61	1.01	1.48	2.03	2.69	3.55	4.75	6.79	8.82
Jun	.00	.03	.13	.26	.41	.60	.82	1.12	1.54	2.26	2.99
Jul	.00	.00	.00	.00	.00	.03	.11	.25	.50	1.01	1.57
Aug	.00	.00	.00	.00	.02	.09	.20	.35	.58	1.01	1.46
Sep	.00	.00	.00	.35	.67	1.02	1.42	1.92	2.61	3.76	4.87
Oct	.00	.00	.82	1.44	2.07	2.77	3.58	4.58	5.90	8.11	10.26
Nov	.84	1.44	2.54	3.66	4.87	6.23	7.82	9.81	12.52	17.02	21.41
Dec	.41	1.18	2.49	3.77	5.16	6.71	8.54	10.82	13.93	19.10	24.14
Ann	31.64	36.88	44.00	49.69	54.92	60.14	65.69	71.98	79.83	91.62	102.17

+ 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	5.4	4.0	3	1	8.0	1996	23	14.0	1989	26	1989	7	15	1993	1.9	1.9	.6	.3	.0	6.9	4.8	3.7	2.2
Feb	8.3	5.0	2	#	30.0	1990	16	56.0	1990	43	1990	17	14	1990	2.0	2.0	.8	.4	.1	5.1	3.5	2.0	1.2
Mar	7.3	4.0	1	#	18.0	1985	6	44.5	1985	24	1985	7	9	1976	1.8	1.8	1.0	.4	.1	2.4	1.7	1.0	.2
Apr	.8	.0	#	0	7.0	1999	5	10.0	1999	12	1975	8	1+	1999	.2	.2	.2	.1	.0	.2	.1	@	.0
May	.1	.0	#	0	1.0	1998	17	2.0	1998	#	1998	26	#	1998	.1	.1	.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	.1	.0	#	0	2.0	1984	16	2.0	1984	1	1984	16	#	1984	@	@	.0	.0	.0	@	.0	.0	.0
Nov	1.9	.0	1	0	8.0	1985	11	13.0	1985	11	1985	11	9	1978	.7	.7	.3	.1	.0	.9	.4	.2	@
Dec	7.8	4.0	1	#	14.0	1983	23	35.0	1988	28	1988	31	7	1988	2.1	1.9	1.2	.5	.1	5.0	3.2	2.0	.7
Ann	31.7	17.0	N/A	N/A	30.0	Feb 1990	16	56.0	Feb 1990	43	Feb 1990	17	15	Jan 1993	8.8	8.6	4.1	1.8	.3	20.5	13.7	8.9	4.3

+ 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	6/22	6/15	6/10	6/06	6/03	5/30	5/26	5/21	5/15
32	6/02	5/26	5/21	5/17	5/12	5/08	5/04	4/29	4/21
28	5/05	4/27	4/21	4/16	4/11	4/06	4/01	3/26	3/17
24	4/06	3/24	3/15	3/06	2/27	2/19	2/11	2/02	1/20
20	3/15	2/25	2/12	1/31	1/20	1/07	12/23	11/24	0/00
16	2/06	1/23	1/11	12/26	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	9/13	9/19	9/24	9/27	10/01	10/04	10/08	10/12	10/18
32	9/29	10/06	10/10	10/15	10/18	10/22	10/26	10/31	11/07
28	10/24	10/29	11/01	11/03	11/06	11/08	11/11	11/14	11/18
24	11/01	11/10	11/17	11/22	11/28	12/03	12/08	12/15	12/24
20	11/04	11/19	11/30	12/10	12/20	1/01	1/16	0/00	0/00
16	12/11	12/24	1/05	1/23	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	142	134	129	124	119	115	110	104	96
32	191	180	172	165	158	152	145	137	125
28	237	227	220	214	208	202	196	189	179
24	317	302	291	282	273	264	255	244	229
20	>365	>365	>365	>365	338	316	298	281	259
16	>365	>365	>365	>365	>365	>365	>365	>365	329

***** 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	804	643	606	452	281	95	19	28	104	312	622	816	4782
60	649	503	451	314	166	32	1	4	39	190	473	661	3483
57	556	419	362	238	114	13	0	1	18	131	386	568	2806
55	494	364	306	194	85	7	0	0	10	98	330	506	2394
50	344	234	178	106	33	1	0	0	1	40	203	356	1496
32	16	6	1	0	0	0	0	0	0	0	4	19	46

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	235	287	418	541	762	951	1146	1133	953	725	372	226	7749
55	0	1	10	45	133	267	433	420	273	110	8	0	1700
57	0	0	5	29	100	214	371	358	221	81	4	0	1383
60	0	0	1	15	60	143	279	269	152	47	1	0	967
65	0	0	0	3	19	56	142	137	67	14	0	0	438
70	0	0	0	0	4	12	50	51	19	3	0	0	139

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	53	91	179	308	523	710	905	893	715	465	150	48	53	144	323	631	1154	1864	2769	3662	4377	4842	4992	5040
45	3	31	80	176	373	560	750	738	566	321	61	3	3	34	114	290	663	1223	1973	2711	3277	3598	3659	3662
50	0	0	20	81	229	410	595	583	416	186	17	0	0	0	20	101	330	740	1335	1918	2334	2520	2537	2537
55	0	0	0	28	116	268	440	428	276	84	0	0	0	0	0	28	144	412	852	1280	1556	1640	1640	1640
60	0	0	0	4	47	146	289	277	150	26	0	0	0	0	0	4	51	197	486	763	913	939	939	939
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	46	82	144	229	355	455	565	558	471	342	115	41	46	128	272	501	856	1311	1876	2434	2905	3247	3362	3403

(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