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: DEEP SPRINGS COLLEGE, CA **COOP ID: 042331**

Climate Division: CA 7 **NWS Call Sign:** **Elevation: 5,225 Feet** **Lat: 37˚22N** **Lon: 117˚59W**

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	47.4	19.0	33.2	69+	1975	26	40.1	2000	-18	1949	11	25.2	1973	987	0	.0	.0	13.0	1.7	29.7	.5
Feb	51.7	24.6	38.2	78	1977	19	44.5	2000	-10	1949	4	32.4	1973	751	0	.0	.0	16.6	.7	24.4	.1
Mar	57.8	30.1	44.0	81	1966	31	50.3	1972	-3	1969	12	37.4	1977	652	0	.0	.0	25.8	.0	19.5	.0
Apr	65.8	35.8	50.8	89	1996	24	58.5	1989	9	1970	21	41.9	1975	438	12	.0	.0	28.3	.0	8.6	.0
May	74.6	44.1	59.4	110	1963	27	65.9	1984	22	1975	4	51.0	1977	226	50	.0	.8	30.8	.0	1.7	.0
Jun	85.1	52.4	68.8	104	1961	18	73.9	1981	29+	1950	9	63.1	1998	43	155	.1	8.7	30.0	.0	.1	.0
Jul	91.3	58.6	75.0	106	1951	31	78.0	1988	40	1982	1	71.1	1987	1	309	.8	21.4	31.0	.0	.0	.0
Aug	88.8	56.2	72.5	101+	1981	7	75.4	1996	36	1977	24	66.5	1976	4	237	.2	14.8	31.0	.0	.0	.0
Sep	80.6	48.8	64.7	105	1956	4	68.8	1979	21	1948	26	59.6	1986	80	72	.0	2.2	30.0	.0	.2	.0
Oct	69.0	37.4	53.2	90	1980	1	58.6	1988	14	1971	31	47.9	1971	374	8	.0	@	30.4	.0	6.7	.0
Nov	55.0	25.7	40.4	80	1999	1	47.8	1995	1	1964	19	32.1	1994	739	0	.0	.0	22.6	.1	25.3	.0
Dec	47.2	18.5	32.9	70	1956	11	39.4	1980	-15	1984	23	27.5	1971	998	0	.0	.0	13.4	1.5	30.0	.5
Ann	67.9	37.6	52.8	110	May 1963	27	78.0	Jul 1988	-18	Jan 1949	11	25.2	Jan 1973	5293	843	1.1	47.9	302.9	4.0	146.2	1.1

\+ 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	.58	.30	1.88	1967	24	3.40	1997	.00+	1994
Feb	.83	.32	2.10	1962	9	3.18	1978	.00+	1999
Mar	.81	.50	1.75+	1992	30	3.18	1978	.00+	1999
Apr	.52	.17	1.43	1956	18	3.02	1983	.00+	1993
May	.47	.17	1.14	1971	6	2.17	1971	.00+	2000
Jun	.25	.05	1.13	1977	9	1.44	1972	.00+	1996
Jul	.65	.37	1.36	1984	22	4.18	1984	.00+	2000
Aug	.57	.19	1.90	1999	21	4.86	1983	.00+	2000
Sep	.49	.32	1.39	1999	17	2.72	1975	.00+	1993
Oct	.28	.15	.82	1992	30	1.33	1974	.00+	1999
Nov	.37	.15	1.40	1970	29	1.46	1987	.00+	1999
Dec	.45	.16	2.51	1966	6	3.16	1984	.00+	1999
Ann	6.27	5.79	2.51	Dec 1966	6	4.86	Aug 1983	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.9	1.5	.2	.1
Feb	3.9	2.0	.5	.1
Mar	3.6	2.0	.3	.1
Apr	2.1	1.0	.3	.1
May	3.5	1.4	.1	.1
Jun	2.1	.8	.1	@
Jul	2.6	1.3	.4	@
Aug	2.2	1.1	.4	.1
Sep	2.5	1.0	.3	@
Oct	2.4	1.0	.1	.0
Nov	3.0	1.2	.2	@
Dec	2.0	1.0	.3	.1
Ann	32.8	15.3	3.2	.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	.00	.00	.00	.05	.19	.33	.51	.73	1.03	1.54	2.05
Feb	.00	.00	.00	.05	.21	.41	.67	1.00	1.47	2.28	3.10
Mar	.00	.00	.02	.13	.27	.44	.67	.96	1.40	2.14	2.92
Apr	.00	.00	.00	.04	.12	.23	.38	.58	.90	1.46	2.04
May	.00	.00	.00	.05	.13	.23	.36	.54	.80	1.27	1.75
Jun	.00	.00	.00	.01	.04	.08	.15	.25	.41	.72	1.05
Jul	.00	.00	.00	.04	.15	.29	.48	.74	1.12	1.79	2.48
Aug	.00	.00	.00	.04	.11	.22	.37	.60	.96	1.63	2.34
Sep	.00	.00	.00	.07	.16	.28	.42	.60	.86	1.31	1.76
Oct	.00	.00	.00	.00	.06	.13	.21	.33	.50	.78	1.07
Nov	.00	.00	.00	.00	.05	.14	.25	.41	.64	1.06	1.50
Dec	.00	.00	.00	.00	.03	.11	.25	.45	.77	1.36	1.98
Ann	2.61	3.18	3.99	4.64	5.26	5.89	6.56	7.34	8.32	9.82	11.18

\+ 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	2.6	.0	1	0	16.0	1973	18	17.3	1973	16	1973	18	5	1973	.9	.6	.2	.1	.1	3.7	2.2	.8	.4
Feb	.5	.0	#	0	9.5	1976	7	9.5	1976	10	1976	7	4	1973	.4	.2	.1	.1	.0	1.0	.7	.6	.0
Mar	.5	.0	#	0	3.4	1981	13	5.2	1981	3	1982	17	#+	1999	.5	.2	.1	.0	.0	.1	.1	.0	.0
Apr	.5	.0	#	0	3.9	1980	23	8.6	1980	4	1980	23	#+	1999	.5	.2	@	.0	.0	.1	.1	.0	.0
May	.0	.0	#	0	.2	1980	11	.2	1980	#	1980	3	#	1980	.1	.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	#	1975	8	#	1975	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	5.0	1996	30	6.1	1996	4	1978	31	#+	1996	.2	.1	@	@	.0	.1	.0	.0	.0
Nov	.7	.0	#	0	3.6	1984	23	6.7	1981	6	1981	28	1	1981	.3	.2	.1	.0	.0	.4	.3	.1	.0
Dec	1.4	.0	#	0	7.0	1984	20	13.3	1984	8	1984	20	3	1984	.4	.2	.2	.1	.0	1.6	1.2	.5	.0
Ann	6.6	.0	N/A	N/A	16.0	Jan 1973	18	17.3	Jan 1973	16	Jan 1973	18	5	Jan 1973	3.3	1.7	.7	.3	.1	7.0	4.6	2.0	.4

+ 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	6/05	5/29	5/24	5/20	5/16	5/12	5/08	5/03	4/26
32	6/01	5/23	5/16	5/11	5/06	4/30	4/25	4/18	4/09
28	5/11	5/03	4/27	4/22	4/17	4/12	4/07	4/01	3/24
24	5/07	4/25	4/16	4/08	4/01	3/25	3/18	3/09	2/25
20	4/09	3/30	3/22	3/15	3/09	3/03	2/25	2/17	2/06
16	3/28	3/17	3/09	3/02	2/23	2/17	2/10	2/01	1/21

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	9/19	9/25	9/29	10/02	10/05	10/08	10/12	10/16	10/21
32	10/04	10/08	10/12	10/15	10/17	10/20	10/23	10/26	10/31
28	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/04	11/09
24	10/19	10/24	10/27	10/30	11/02	11/04	11/07	11/11	11/16
20	10/31	11/04	11/08	11/11	11/13	11/16	11/19	11/22	11/27
16	11/10	11/15	11/18	11/21	11/24	11/27	11/30	12/03	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	168	159	152	146	141	136	130	124	115
32	193	183	176	170	164	158	152	145	135
28	221	211	203	196	190	184	178	170	159
24	257	242	231	222	214	205	196	185	170
20	283	271	262	255	248	241	234	226	214
16	311	298	289	281	273	266	257	248	235

***** 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	987	751	652	438	226	43	1	4	80	374	739	998	5293
60	832	611	500	308	133	12	0	0	26	243	589	843	4097
57	739	527	412	241	90	5	0	0	11	176	500	750	3451
55	677	471	356	201	66	2	0	0	5	138	442	688	3046
50	522	336	228	119	27	0	0	0	1	66	301	533	2133
32	98	25	10	3	0	0	0	0	0	0	16	93	245

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	134	198	381	567	847	1102	1331	1256	982	657	267	118	7840
55	0	0	14	75	200	415	618	543	297	82	2	0	2246
57	0	0	8	55	162	357	556	481	243	58	1	0	1921
60	0	0	3	32	112	274	463	388	168	32	0	0	1472
65	0	0	0	12	50	155	309	237	72	8	0	0	843
70	0	0	0	3	17	69	165	110	19	1	0	0	384

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	18	68	170	351	610	863	1089	1019	749	426	102	15	18	86	256	607	1217	2080	3169	4188	4937	5363	5465	5480
45	2	21	76	221	455	713	934	864	599	278	36	0	2	23	99	320	775	1488	2422	3286	3885	4163	4199	4199
50	0	1	26	113	313	563	779	709	450	151	7	0	0	1	27	140	453	1016	1795	2504	2954	3105	3112	3112
55	0	0	1	48	184	415	624	554	305	61	0	0	0	0	1	49	233	648	1272	1826	2131	2192	2192	2192
60	0	0	0	13	84	277	469	399	172	17	0	0	0	0	0	13	97	374	843	1242	1414	1431	1431	1431
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	41	79	146	255	400	552	690	652	485	308	117	40	41	120	266	521	921	1473	2163	2815	3300	3608	3725	3765

(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