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: DE SABLA, CA **COOP ID: 042402**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 2,710 Feet** **Lat: 39˚52N** **Lon: 121˚37W**

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	53.3	31.8	42.6	74+	1975	18	48.1	1986	12+	1982	22	36.9	1982	696	0	.0	.0	18.2	.1	17.3	.0
Feb	55.8	33.5	44.7	77	1977	14	50.8	1988	11+	1989	7	40.0	1989	570	0	.0	.0	19.3	.1	12.6	.0
Mar	59.1	35.0	47.1	80+	1972	15	53.2	1997	17	1951	3	41.0+	1991	557	0	.0	.0	25.4	.0	11.2	.0
Apr	65.6	38.3	52.0	88	1989	8	58.7	1987	22	1982	6	45.3	1975	401	9	.0	.0	28.0	.0	6.3	.0
May	74.1	44.0	59.1	97	1999	22	65.0	1997	26	1979	8	51.0	1998	222	39	.0	1.1	30.6	.0	1.1	.0
Jun	83.4	50.3	66.9	103	1985	17	71.6	1977	31	1982	5	60.6	1980	67	123	.1	7.1	30.0	.0	.1	.0
Jul	90.3	54.9	72.6	106+	1972	15	77.5	1996	39+	1992	6	67.4	1987	9	246	1.2	16.0	31.0	.0	.0	.0
Aug	90.2	54.0	72.1	109	1978	8	76.8	1996	36	1979	22	66.6	1976	9	228	1.5	15.8	31.0	.0	.0	.0
Sep	84.6	50.1	67.4	105	1988	4	71.7+	1975	30	1982	30	60.3	1986	56	127	.4	7.7	30.0	.0	.2	.0
Oct	74.1	44.0	59.1	99	2001	2	65.3	1987	19	1984	17	53.0	1981	218	34	.0	1.7	30.7	.0	2.1	.0
Nov	58.9	35.7	47.3	85	1967	1	55.2	1976	15	1984	26	41.4	1994	531	0	.0	.0	23.8	.0	9.8	.0
Dec	52.9	31.7	42.3	77	1958	2	47.9	1980	5+	1972	9	36.0	1971	704	0	.0	.0	18.6	.3	17.1	.0
Ann	70.2	41.9	56.1	109	Aug 1978	8	77.5	Jul 1996	5+	Dec 1972	9	36.0	Dec 1971	4040	806	3.2	49.4	316.6	.5	77.8	.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	12.18	11.61	8.37	1997	1	40.06	1995	.63	1984
Feb	11.54	7.91	7.72	1986	17	29.28	1998	.42	1988
Mar	10.41	7.84	5.99	1995	9	27.60	1995	1.54	1994
Apr	4.63	4.26	4.72	1953	27	13.31	1978	.54	1973
May	2.46	1.52	5.10	1957	18	11.52	1998	.02	1976
Jun	.91	.65	2.61	1958	12	3.56	1995	.00	1979
Jul	.16	.00	2.15	1974	8	2.67	1974	.00+	2000
Aug	.32	.05	1.52	1965	11	1.91	1976	.00+	2000
Sep	1.46	.89	4.06	1957	27	6.73	1986	.00+	1999
Oct	3.58	2.92	11.27	1962	12	9.16	1979	.00+	1995
Nov	8.48	6.18	5.48	1970	28	30.22	1973	.33	1995
Dec	9.72	8.35	9.45	1964	22	32.22	1996	.00	1989
Ann	65.85	63.09	11.27	Oct 1962	12	40.06	Jan 1995	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	10.2	6.5	4.3
Feb	11.4	9.5	6.3	4.1
Mar	12.7	10.5	6.0	4.0
Apr	9.0	6.4	3.1	1.5
May	6.1	3.8	1.7	.8
Jun	3.1	2.0	.7	.2
Jul	.6	.4	.1	@
Aug	1.3	.6	.2	.1
Sep	3.1	2.0	1.1	.5
Oct	5.7	4.0	2.2	1.3
Nov	10.1	7.8	5.0	3.1
Dec	11.1	9.1	5.6	3.4
Ann	86.4	66.3	38.5	23.3

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	1.42	2.36	4.06	5.76	7.57	9.59	11.95	14.88	18.85	25.41	31.78
Feb	1.07	1.89	3.45	5.05	6.80	8.78	11.13	14.07	18.11	24.84	31.43
Mar	1.62	2.50	4.01	5.45	6.94	8.57	10.43	12.72	15.77	20.74	25.50
Apr	.70	1.09	1.76	2.40	3.06	3.79	4.63	5.65	7.02	9.26	11.41
May	.06	.15	.38	.68	1.05	1.51	2.10	2.88	4.02	6.03	8.08
Jun	.01	.04	.12	.24	.38	.55	.77	1.07	1.50	2.26	3.03
Jul	.00	.00	.00	.00	.00	.00	.00	.05	.19	.52	.89
Aug	.00	.00	.00	.00	.00	.02	.11	.27	.53	1.03	1.56
Sep	.00	.00	.00	.12	.37	.71	1.14	1.71	2.55	4.03	5.53
Oct	.00	.17	.67	1.20	1.79	2.48	3.32	4.37	5.86	8.38	10.88
Nov	.59	1.12	2.20	3.36	4.67	6.17	7.98	10.28	13.48	18.88	24.23
Dec	.70	1.72	3.27	4.70	6.19	7.82	9.70	12.00	15.10	20.16	25.03
Ann	30.88	36.61	44.51	50.88	56.79	62.72	69.05	76.28	85.35	99.06	111.39

+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	4.4	.0	0	0
Feb	2.5	.0	0	0
Mar	7.7	3.0	#	0
Apr	1.9	.0	0	0
May	#	.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	.7	.0	#	0
Dec	4.0	.0	#	0
Ann	21.2	3.0	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	24.0	1982	20	24.0	1982	30	1982	22	9	1982
Feb	22.0	1975	1	23.0	1975	0	0	0	0	0
Mar	19.0	1976	2	32.0	1985	15	1985	8	5	1985
Apr	7.0	1975	5	13.5	1975	13	1982	2	2	1982
May	#	1977	6	#	1977	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	5.5	1977	21	5.5	1977	1	1985	11	#	1985
Dec	10.0	1972	6	21.0	1971	7	1983	23	1	1984
Ann	24.0	Jan 1982	20	32.0	Mar 1985	30	Jan 1982	22	9	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	.9	.9	.6	.2
Feb	.7	.6	.2	.1	.1
Mar	1.6	1.5	.9	.6	.2
Apr	.8	.7	.2	.1	.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	.3	.3	.1	.1	.0
Dec	1.0	.8	.4	.4	.1
Ann	5.5	4.8	2.7	1.9	.6

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.1	.1
Feb	.0	.0	.0	.0
Mar	.2	.2	.1	.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	.1	.1	.1	.0
Ann	.4	.4	.3	.1

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	6/07	6/01	5/27	5/23	5/20	5/16	5/13	5/08	5/02
32	5/27	5/18	5/12	5/06	5/01	4/26	4/21	4/14	4/05
28	5/02	4/23	4/16	4/10	4/05	3/31	3/25	3/19	3/10
24	4/06	3/21	3/10	2/28	2/18	2/09	1/29	1/17	12/28
20	2/23	2/08	1/27	1/16	1/05	12/21	0/00	0/00	0/00
16	1/16	12/26	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	9/17	9/26	10/02	10/08	10/13	10/18	10/23	10/29	11/07
32	10/05	10/14	10/20	10/25	10/30	11/04	11/09	11/15	11/24
28	10/23	10/31	11/06	11/11	11/15	11/20	11/25	12/01	12/09
24	10/27	11/10	11/21	11/30	12/09	12/18	12/28	1/08	1/26
20	11/25	12/14	12/28	1/11	1/27	2/18	0/00	0/00	0/00
16	12/15	12/30	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	181	168	160	152	145	138	130	122	109
32	219	206	197	189	181	174	166	156	143
28	264	250	240	231	223	215	207	197	183
24	>365	348	322	306	292	278	264	249	228
20	>365	>365	>365	>365	>365	>365	>365	342	318
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	696	570	557	401	222	67	9	9	56	218	531	704	4040
60	541	430	411	270	125	22	1	0	16	118	385	549	2868
57	448	349	326	203	81	9	0	0	6	74	304	458	2258
55	386	297	274	165	57	5	0	0	3	51	253	400	1891
50	242	178	165	88	20	0	0	0	0	16	145	261	1115
32	3	3	4	0	0	0	0	0	0	0	2	12	24

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	330	357	470	599	839	1046	1259	1242	1060	839	462	331	8834
55	0	7	27	74	184	361	546	529	373	177	23	6	2307
57	0	4	17	52	146	305	484	467	317	137	14	2	1945
60	0	0	9	28	97	228	392	374	237	89	5	0	1459
65	0	0	0	9	39	123	246	228	127	34	0	0	806
70	0	0	0	1	12	51	124	109	52	9	0	0	358

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	111	156	224	356	587	796	992	977	805	568	213	109	111	267	491	847	1434	2230	3222	4199	5004	5572	5785	5894
45	40	64	110	223	435	646	837	822	655	417	106	35	40	104	214	437	872	1518	2355	3177	3832	4249	4355	4390
50	4	19	43	121	291	499	682	667	505	277	42	2	4	23	66	187	478	977	1659	2326	2831	3108	3150	3152
55	0	0	7	47	172	352	527	512	358	157	8	0	0	0	7	54	226	578	1105	1617	1975	2132	2140	2140
60	0	0	0	12	77	221	374	360	226	75	0	0	0	0	0	12	89	310	684	1044	1270	1345	1345	1345
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	74	98	143	233	372	505	624	609	508	364	133	68	74	172	315	548	920	1425	2049	2658	3166	3530	3663	3731

(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