

Climatology of the United States

No. 20

1971-2000

Station: SANDBERG, CA

COOP ID: 047735

Climate Division: CA 6

NWS Call Sign: SDB

Elevation: 4,510 Feet Lat: 34°45N

Lon: 118°43W

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	48.8	37.1	43.0	71+	1969	6	49.8	1994	8	1949	4	36.3	1973	685	0	.0	.0	13.8	.9	9.2	.0
Feb	50.9	38.1	44.5	76	1996	8	52.7	1991	13+	1989	6	39.2	1979	573	0	.0	.0	15.4	.4	6.6	.0
Mar	53.3	38.2	45.8	80	1966	31	53.4	1972	15	1971	2	37.6	1973	587	6	.0	.0	20.8	.1	7.4	.0
Apr	59.1	41.6	50.4	86	1989	7	60.2	1989	22+	1971	21	40.4	1975	457	17	.0	.0	23.7	.0	3.5	.0
May	67.1	47.7	57.4	94+	2001	31	64.9	1997	26+	1975	4	47.6	1977	280	44	.0	.1	29.1	.0	1.0	.0
Jun	77.7	56.3	67.0	103	1994	28	73.7	1994	30	1967	1	62.1	1980	73	133	.2	4.2	30.0	.0	.0	.0
Jul	84.7	62.8	73.8	103	1995	28	79.3	1994	43+	1987	18	68.2	1987	9	280	.2	7.3	31.0	.0	.0	.0
Aug	84.4	63.2	73.8	100	1981	8	79.7	1995	40+	1968	22	66.1	1976	18	290	@	6.8	31.0	.0	.0	.0
Sep	79.0	59.5	69.3	100+	1993	10	75.1	1995	35	1948	25	56.6	1986	85	212	.1	2.7	29.9	.0	.0	.0
Oct	68.3	51.4	59.9	94	1987	4	67.5	1987	21	1971	29	51.8	1972	236	76	.0	.3	29.9	.0	.4	.0
Nov	56.3	42.0	49.2	80	1955	10	61.4	1995	21	1958	16	43.5	1994	485	8	.0	.0	22.2	.1	3.7	.0
Dec	49.1	35.9	42.5	74	1977	6	47.6	2000	11+	1990	22	33.1	1971	698	0	.0	.0	15.3	.9	11.1	.0
Ann	64.9	47.8	56.4	103+	1995	28	79.7	1995	8	1949	4	33.1	1971	4186	1066	.5	21.4	292.1	2.4	42.9	.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/normal/usnormals.html

Issue Date: February 2004

(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

Climatography of the United States

No. 20 1971-2000

Station: SANDBERG, CA

COOP ID: 047735

Climate Division: CA 6

NWS Call Sign: SDB

Elevation: 4,510 Feet Lat: 34°45N

Lon: 118°43W

Precipitation (inches)

		Precipitation Totals								Mean Number of Days (3)				Precipitation Probabilities (1)											
														Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
Means/Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels												
													These values were determined from the incomplete gamma distribution												
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	2.48	1.36	3.96	1995	24	9.09	1993	.00+	1976	5.7	3.2	1.4	.7	.00	.05	.28	.59	.99	1.48	2.10	2.93	4.13	6.24	8.39	
Feb	3.21	1.51	6.32	1991	27	11.36	1973	.01	1984	5.7	3.2	1.4	.6	.03	.11	.33	.67	1.12	1.72	2.52	3.63	5.29	8.29	11.43	
Mar	2.29	1.78	3.38	1993	28	8.99	1978	.00	1972	5.7	3.4	1.2	.6	.01	.09	.30	.58	.93	1.37	1.94	2.69	3.79	5.72	7.69	
Apr	.60	.42	1.70	1955	30	2.22	1975	.00+	1993	3.4	1.6	.4	.1	.00	.02	.08	.17	.26	.38	.53	.72	1.00	1.48	1.96	
May	.28	.04	2.40	1977	8	3.39	1977	.00+	1997	1.8	.5	.1	@	.00	.00	.00	.01	.04	.08	.15	.27	.46	.79	1.18	
Jun	.07	.00	.78	1993	5	1.50	1993	.00+	2000	.6	.2	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.03	.19	.37	
Jul	.02	.00	.49	1965	30	.19	1992	.00+	2000	.4	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.10	
Aug	.09	.00	1.67	1977	17	1.85	1977	.00+	1999	.5	.2	@	@	.00	.00	.00	.00	.00	.00	.00	.00	.04	.24	.50	
Sep	.25	.03	2.60	1976	10	3.29	1976	.00+	1996	1.6	.6	.1	.1	.00	.00	.00	.00	.01	.03	.09	.20	.39	.70	1.13	
Oct	.32	.10	1.35	1987	31	2.48	1987	.00+	1999	1.7	.7	.2	@	.00	.00	.00	.02	.05	.11	.20	.33	.54	.91	1.31	
Nov	.82	.53	4.62	1966	7	3.91	1972	.00+	2000	3.5	1.8	.4	.1	.00	.00	.08	.21	.36	.53	.74	1.01	1.39	2.03	2.67	
Dec	2.17	.84	5.61	1987	17	10.26	1971	.00+	2000	4.1	2.6	1.0	.6	.00	.00	.08	.26	.55	.97	1.55	2.37	3.63	5.95	8.41	
Ann	12.60	12.04	6.32	Feb 1991	27	11.36	Feb 1973	.00+	Dec 2000	34.7	18.1	6.3	2.8	2.83	4.00	5.84	7.50	9.16	10.93	12.91	15.28	18.40	23.37	28.05	

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatology of the United States

No. 20 1971-2000

Station: SANDBERG, CA

COOP ID: 047735

Climate Division: CA 6

NWS Call Sign: SDB

Elevation: 4,510 Feet

Lat: 34° 45N

Lon: 118° 43W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	8.8	.1	1	0	20.8	1974	7	55.1	1974	37	1974	8	8	1974	1.9	1.0	.8	.5	.4	2.9	2.4	1.8	1.2
Feb	2.8	.4	#	0	6.6	1975	2	7.8	1975	23+	1979	6	4	1979	2.0	1.1	.3	.2	.0	.7	.4	.3	.3
Mar	6.6	7.5	#	0	7.7	1974	8	14.1	1973	9	1974	8	1	1974	3.2	1.8	.7	.3	.0	.5	.2	.1	.0
Apr	2.3	.3	#	0	5.1	1975	9	15.6	1975	3+	1975	9	#	1975	1.7	.7	.2	.1	.0	.3	.1	.0	.0
May	.6	.0	#	0	3.3	1977	8	5.9	1977	#	1974	19	#	1979	.6	.2	.1	.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	0	.5	1971	16	.5	1971	0	0	0	0	0	.3	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.9	.8	#	0	1.9	1972	11	2.3	1973	1+	1975	29	#	1975	1.0	.4	.0	.0	.0	.1	.0	.0	.0
Dec	6.8	1.3	#	0	17.7	1971	27	39.2	1971	32+	1971	31	4	1971	-9.9	-9.9	-9.9	-9.9	-9.9	.7	.4	.4	.2
Ann	28.9	10.4	N/A	N/A	20.8	Jan 1974	7	55.1	Jan 1974	37	Jan 1974	8	8	Jan 1974	-9.9	-9.9	-9.9	-9.9	-9.9	5.2	3.5	2.6	1.7

+ 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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatology of the United States No. 20 1971-2000

Station: SANDBERG, CA

COOP ID: 047735

Climate Division: CA 6

NWS Call Sign: SDB

Elevation: 4,510 Feet

Lat: 34° 45N

Lon: 118° 43W

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	6/01	5/24	5/18	5/12	5/07	5/03	4/27	4/21	4/13
32	5/24	5/13	5/05	4/28	4/21	4/14	4/07	3/30	3/19
28	5/03	4/16	4/04	3/24	3/14	3/05	2/22	2/10	1/24
24	4/03	3/13	2/25	2/10	1/24	1/03	0/00	0/00	0/00
20	2/05	1/21	1/07	12/21	0/00	0/00	0/00	0/00	0/00
16	1/27	1/07	12/11	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	10/12	10/19	10/24	10/28	11/01	11/05	11/10	11/15	11/22
32	10/30	11/06	11/11	11/15	11/19	11/23	11/27	12/02	12/09
28	11/04	11/14	11/21	11/27	12/03	12/09	12/15	12/22	1/01
24	11/16	12/01	12/12	12/23	1/05	1/22	0/00	0/00	0/00
20	12/13	12/27	1/10	1/30	0/00	0/00	0/00	0/00	0/00
16	12/25	1/15	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	214	202	192	184	177	170	162	153	140
32	254	239	229	220	211	203	193	183	168
28	331	305	288	274	261	248	234	218	197
24	>365	>365	>365	>365	>365	346	300	271	240
20	>365	>365	>365	>365	>365	>365	>365	>365	329
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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatology of the United States

No. 20 1971-2000

Station: SANDBERG, CA

COOP ID: 047735

Climate Division: CA 6

NWS Call Sign: SDB

Elevation: 4,510 Feet

Lat: 34° 45N

Lon: 118° 43W

Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
	Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
65	685	573	587	457	280	73	9	18	85	236	485	698	4186
60	530	433	460	330	179	28	0	4	39	146	351	544	3044
57	444	352	379	264	131	13	0	1	24	103	279	457	2447
55	386	301	328	225	102	8	0	0	17	78	236	399	2080
50	253	181	220	144	49	2	0	0	5	35	145	266	1300
32	15	4	18	9	0	0	0	0	0	0	6	17	69

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	353	355	444	559	786	1050	1294	1295	1117	864	519	342	8978
55	11	8	41	86	176	368	581	582	444	229	59	11	2596
57	7	3	29	64	142	313	519	521	391	191	43	7	2230
60	0	0	18	40	97	238	426	431	317	142	25	1	1735
65	0	0	6	17	44	133	280	290	212	76	8	0	1066
70	0	0	0	6	17	60	153	171	131	35	2	0	575

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	145	171	240	332	549	834	1056	1049	879	620	287	128	145	316	556	888	1437	2271	3327	4376	5255	5875	6162	6290
45	63	80	135	212	403	684	901	894	729	469	169	51	63	143	278	490	893	1577	2478	3372	4101	4570	4739	4790
50	22	35	64	121	274	534	746	739	580	329	88	9	22	57	121	242	516	1050	1796	2535	3115	3444	3532	3541
55	2	13	22	56	160	396	591	584	440	211	40	0	2	15	37	93	253	649	1240	1824	2264	2475	2515	2515
60	0	0	2	22	83	267	439	431	301	119	7	0	0	0	2	24	107	374	813	1244	1545	1664	1671	1671
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	49	61	119	171	316	537	720	716	578	363	127	49	49	110	229	400	716	1253	1973	2689	3267	3630	3757	3806

(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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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.

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

References

- U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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