

Climatology of the United States

No. 20

1971-2000

Station: RANDBURG, CA

COOP ID: 047253

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,570 Feet Lat: 35° 22N

Lon: 117° 39W

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	54.2	34.4	44.3	89	1976	25	49.8	1986	10	1949	4	38.3	1979	643	0	.0	.0	22.3	.1	8.3	.0
Feb	58.6	37.1	47.9	80	1986	26	54.4	1991	16	1949	14	43.1+	1998	481	0	.0	.0	23.7	.1	4.6	.0
Mar	63.8	39.3	51.6	88	1966	31	59.4	1972	16	1977	28	44.3	1973	430	13	.0	.0	29.5	.0	3.2	.0
Apr	71.9	44.4	58.2	94	1981	30	66.6	1989	25	1976	16	49.6	1975	255	49	.0	.4	29.8	.0	.7	.0
May	81.3	52.1	66.7	103+	1951	26	75.2	1997	30	1965	7	57.8	1998	109	162	.2	5.8	31.0	.0	.0	.0
Jun	91.4	60.9	76.2	111	1973	8	81.8	1981	39	1983	2	70.8	1998	7	342	4.2	19.5	30.0	.0	.0	.0
Jul	97.7	66.5	82.1	111+	1984	5	85.9	1996	49	1987	18	77.3	1987	0	529	11.8	29.0	31.0	.0	.0	.0
Aug	96.0	65.4	80.7	110+	1981	8	84.8	1996	49+	1976	16	75.0	1976	0	486	8.3	26.8	31.0	.0	.0	.0
Sep	88.3	59.9	74.1	107+	1950	2	78.8	1979	40	1948	26	67.0	1986	11	284	1.0	14.5	30.0	.0	.0	.0
Oct	76.2	50.6	63.4	98	1980	1	70.5	1988	27	1971	29	57.0	1984	144	94	.0	2.1	30.9	.0	.2	.0
Nov	62.4	40.3	51.4	83	1988	3	59.7	1995	12	1975	29	43.8	1994	415	6	.0	.0	28.2	.0	2.6	.0
Dec	54.3	34.5	44.4	77	1958	4	50.8	1980	9	1990	22	37.4	1984	639	0	.0	.0	22.5	.2	8.6	.0
Ann	74.7	48.8	61.8	111+	Jul 1984	5	85.9	Jul 1996	9	Dec 1990	22	37.4	Dec 1984	3134	1965	25.5	98.1	339.9	.4	28.2	.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/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: RANDBURG, CA

COOP ID: 047253

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,570 Feet Lat: 35°22N

Lon: 117°39W

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	Median	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	1.36	.82	2.04	1979	15	6.21	1995	.00+	1984	3.9	2.6	.9	.3	.00	.00	.10	.36	.62	.92	1.27	1.71	2.31	3.30	4.33	
Feb	1.56	.63	2.46	1998	24	7.30	1998	.00+	1985	4.1	2.7	1.1	.5	.00	.00	.05	.21	.44	.76	1.18	1.77	2.64	4.21	5.85	
Mar	1.24	.71	3.43	1983	1	5.00	1983	.00+	1997	4.6	2.8	.7	.3	.00	.00	.07	.23	.44	.70	1.03	1.47	2.11	3.23	4.37	
Apr	.31	.06	1.13	1999	12	1.78	1999	.00+	1996	1.9	.6	.2	@	.00	.00	.00	.00	.02	.08	.17	.31	.53	.94	1.36	
May	.15	.05	.79	1977	9	1.01	1977	.00+	1997	1.3	.4	@	.0	.00	.00	.00	.00	.03	.06	.10	.16	.25	.42	.59	
Jun	.04	.00	.39	1987	6	.46	1987	.00+	1999	.3	.2	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.28	
Jul	.12	.03	.87	1974	23	.95	1984	.00+	2000	.9	.4	.1	.0	.00	.00	.00	.00	.00	.02	.06	.12	.22	.39	.57	
Aug	.23	.01	.80+	1998	12	1.51	1983	.00+	1999	1.1	.6	.1	.0	.00	.00	.00	.00	.00	.01	.07	.18	.37	.75	1.16	
Sep	.27	.02	1.61	1997	26	2.29	1997	.00+	2000	1.2	.7	.1	.1	.00	.00	.00	.00	.00	.01	.09	.22	.45	.87	1.33	
Oct	.33	.02	1.64	1987	31	3.01	1992	.00+	1999	1.2	.7	.1	@	.00	.00	.00	.00	.00	.01	.08	.23	.50	1.06	1.68	
Nov	.45	.21	1.44	1982	9	2.52	1982	.00+	1999	1.6	1.0	.3	.1	.00	.00	.00	.01	.08	.18	.32	.51	.78	1.27	1.77	
Dec	.80	.45	2.13	1965	30	3.63	1984	.00+	1999	2.8	1.9	.4	.1	.00	.00	.01	.10	.23	.39	.62	.92	1.37	2.16	2.98	
Ann	6.86	6.06	3.43	Mar 1983	1	7.30	Feb 1998	.00+	Sep 2000	24.9	14.6	4.0	1.4	1.55	2.19	3.19	4.09	4.99	5.95	7.03	8.31	10.00	12.69	15.22	

+ 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: RANDBURG, CA

COOP ID: 047253

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,570 Feet

Lat: 35° 22N

Lon: 117° 39W

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	1.0	.0	#	0	4.5	1977	6	8.0	1977	5	1979	31	#+	1993	.3	.3	.2	.0	.0	.1	.0	.0	.0
Feb	.4	.0	#	0	4.0	1983	3	4.0	1983	4	1983	3	#+	1994	.3	.2	@	.0	.0	.1	@	.0	.0
Mar	.4	.0	#	0	6.5	1991	27	9.5	1991	#	1982	17	#	1982	.2	.1	@	@	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.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	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	3.0	1985	10	3.0	1985	1	1993	14	#+	1993	.1	@	@	.0	.0	@	.0	.0	.0
Dec	.9	.0	0	0	11.0	1987	17	12.5	1987	0	0	0	0	0	.3	.2	.1	@	@	.0	.0	.0	.0
Ann	2.9	.0	N/A	N/A	11.0	Dec 1987	17	12.5	Dec 1987	5	Jan 1979	31	#+	Feb 1994	1.2	.8	.3	@	@	.2	@	.0	.0

+ 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

Climatography of the United States

No. 20 1971-2000

Station: RANDBURG, CA

COOP ID: 047253

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,570 Feet

Lat: 35° 22N

Lon: 117° 39W

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	5/08	4/29	4/22	4/16	4/10	4/05	3/30	3/23	3/13
32	4/14	4/05	3/30	3/25	3/20	3/14	3/09	3/03	2/22
28	4/05	3/19	3/06	2/23	2/13	2/03	1/22	1/09	12/19
24	3/06	2/17	2/04	1/23	1/11	12/27	12/01	0/00	0/00
20	2/23	2/01	1/12	12/18	0/00	0/00	0/00	0/00	0/00
16	12/23	0/00	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	10/23	10/29	11/03	11/07	11/10	11/14	11/18	11/22	11/28
32	10/31	11/08	11/13	11/18	11/23	11/28	12/03	12/09	12/17
28	11/14	11/24	11/30	12/06	12/11	12/17	12/23	12/30	1/10
24	11/29	12/09	12/17	12/24	1/01	1/11	0/00	0/00	0/00
20	12/11	12/25	1/08	1/29	0/00	0/00	0/00	0/00	0/00
16	1/15	0/00	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	246	235	227	220	213	207	200	192	181
32	286	273	264	255	248	240	232	223	209
28	>365	347	321	306	295	284	273	261	245
24	>365	>365	>365	>365	>365	364	330	308	284
20	>365	>365	>365	>365	>365	>365	>365	>365	316
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: RANDBURG, CA

COOP ID: 047253

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,570 Feet

Lat: 35° 22N

Lon: 117° 39W

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	643	481	430	255	109	7	0	0	11	144	415	639	3134
60	488	344	297	161	53	1	0	0	2	72	283	491	2192
57	401	266	228	115	31	0	0	0	0	43	213	405	1702
55	342	217	189	88	22	0	0	0	0	29	173	350	1410
50	211	116	107	39	7	0	0	0	0	9	92	228	809
32	6	0	0	0	0	0	0	0	0	0	1	14	21

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	386	443	606	784	1076	1325	1552	1509	1264	973	582	398	10898
55	9	16	81	183	385	635	839	796	574	289	64	20	3891
57	6	9	59	149	333	575	777	734	514	241	44	13	3454
60	0	3	34	105	261	486	684	641	426	177	24	7	2848
65	0	0	13	49	162	342	529	486	284	94	6	0	1965
70	0	0	3	20	88	211	374	333	163	40	1	0	1233

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	193	270	397	581	862	1114	1333	1286	1054	761	379	198	193	463	860	1441	2303	3417	4750	6036	7090	7851	8230	8428
45	93	155	258	434	707	964	1178	1131	904	607	244	95	93	248	506	940	1647	2611	3789	4920	5824	6431	6675	6770
50	30	71	141	295	555	814	1023	976	754	456	136	26	30	101	242	537	1092	1906	2929	3905	4659	5115	5251	5277
55	1	21	59	179	408	664	868	821	604	310	61	0	1	22	81	260	668	1332	2200	3021	3625	3935	3996	3996
60	0	0	19	91	268	516	713	666	457	189	18	0	0	0	19	110	378	894	1607	2273	2730	2919	2937	2937
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	93	144	225	360	552	717	839	820	690	476	202	97	93	237	462	822	1374	2091	2930	3750	4440	4916	5118	5215

(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