

Climatology of the United States

No. 20 1971-2000

Station: **BRAWLEY 2 SW, CA**

COOP ID: **041048**

Climate Division: **CA 7**

NWS Call Sign:

Elevation: **-100 Feet**

Lat: **32° 57N**

Lon: **115° 33W**

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	70.4	39.2	54.8	89	1971	20	60.0	1981	19	1937	22	50.6	1972	322	5	.0	.0	31.0	.0	4.2	.0
Feb	74.7	42.7	58.7	97	1986	28	64.1	1995	25+	1990	15	54.7	1975	186	10	.0	.3	28.0	.0	.9	.0
Mar	79.5	46.9	63.2	104	1934	15	68.3	1972	28	1971	3	58.1	1973	122	64	.0	2.9	31.0	.0	.1	.0
Apr	86.1	52.1	69.1	108+	1989	8	75.5	1989	35+	1945	4	61.7	1975	46	169	1.0	10.5	30.0	.0	.0	.0
May	93.8	58.7	76.3	116	1947	4	82.8	1997	40	1964	7	70.2	1977	5	353	6.2	22.2	31.0	.0	.0	.0
Jun	103.3	65.9	84.6	121	1990	27	89.6	1978	35	1931	30	80.7	1991	0	588	21.8	28.7	30.0	.0	.0	.0
Jul	107.0	73.7	90.4	122	1950	1	94.1	1996	55	1938	2	86.8	1993	0	787	29.3	31.0	31.0	.0	.0	.0
Aug	106.2	74.8	90.5	120+	1957	1	94.5	1996	59+	1975	28	86.1	1976	0	790	28.1	30.8	31.0	.0	.0	.0
Sep	101.7	69.0	85.4	121	1950	2	89.3+	1997	50	1986	27	79.7	1986	0	610	19.9	28.4	30.0	.0	.0	.0
Oct	91.4	57.6	74.5	111+	1980	3	79.4	1988	30	1971	30	68.5	1971	10	305	4.9	19.1	31.0	.0	@	.0
Nov	78.9	45.2	62.1	100	1952	1	67.5	1995	11	1975	29	57.2+	2000	136	49	.0	1.8	30.0	.0	.4	.0
Dec	70.3	38.7	54.5	93	1947	1	59.5	1980	22	1990	23	50.4	1992	328	3	.0	.0	31.0	.0	3.4	.0
Ann	88.6	55.4	72.0	122	Jul 1950	1	94.5	Aug 1996	11	Nov 1975	29	50.4	Dec 1992	1155	3733	111.2	175.7	365.0	.0	9.0	.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: 1927-2001

(3) Derived from 1971-2000 serially complete daily data

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: BRAWLEY 2 SW, CA

COOP ID: 041048

Climate Division: CA 7

NWS Call Sign:

Elevation: -100 Feet Lat: 32°57N

Lon: 115°33W

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	.50	.21	1.00	1974	8	3.54	1993	.00+	2000	3.1	1.4	.3	@	.00	.00	.02	.06	.14	.24	.38	.57	.85	1.37	1.91	
Feb	.45	.19	1.02	1976	9	1.91	1980	.00+	2000	2.8	1.2	.2	@	.00	.00	.00	.02	.09	.18	.31	.49	.77	1.27	1.78	
Mar	.39	.09	1.46	1992	27	2.26	1992	.00+	1999	2.4	.9	.2	.1	.00	.00	.00	.00	.03	.10	.21	.39	.66	1.18	1.74	
Apr	.09	.00	.83	1931	26	1.09	1975	.00+	2000	.7	.3	@	.0	.00	.00	.00	.00	.00	.00	.00	.01	.10	.30	.51	
May	.05	.00	.60	1980	2	.60	1980	.00+	2000	.4	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.04	.17	.31	
Jun	.01	.00	.29	1948	2	.13	1972	.00+	2000	.1	.0	.0	.0	**	**	**	**	**	**	**	**	**	**	**	
Jul	.07	.00	.78	1968	6	.76	1982	.00+	2000	.8	.3	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.04	.23	.45	
Aug	.42	.05	3.73	1977	16	4.89	1977	.00+	2000	1.2	.6	.3	.1	.00	.00	.00	.00	.01	.04	.14	.32	.65	1.21	1.96	
Sep	.26	.00	3.80	1939	6	2.93	1976	.00+	2000	1.0	.6	.1	@	.00	.00	.00	.00	.00	.00	.01	.13	.37	.88	1.43	
Oct	.26	.00	2.20	1986	10	2.20	1986	.00+	2000	.9	.6	.1	.1	.00	.00	.00	.00	.00	.00	.00	.11	.37	.89	1.45	
Nov	.19	.01	1.17	1967	27	1.00	1985	.00+	2000	1.1	.5	.1	.0	.00	.00	.00	.00	.00	.00	.07	.18	.34	.63	.93	
Dec	.42	.11	2.65	1927	26	1.86	1982	.00+	2000	2.5	1.0	.2	@	.00	.00	.00	.00	.04	.14	.28	.47	.75	1.24	1.74	
Ann	3.11	2.59	3.80	Sep 1939	6	4.89	Aug 1977	.00+	Dec 2000	17.0	7.6	1.5	.3	.45	.71	1.15	1.58	2.03	2.53	3.10	3.80	4.74	6.27	7.75	

+ 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

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Lat: 32° 57N

Lon: 115° 33W

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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

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-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	3/08	3/01	2/24	2/19	2/15	2/11	2/06	2/01	1/25
32	2/23	2/13	2/05	1/30	1/24	1/18	1/11	1/04	12/24
28	2/07	1/26	1/17	1/09	12/29	12/11	0/00	0/00	0/00
24	12/28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	11/11	11/16	11/20	11/23	11/25	11/28	12/01	12/04	12/09
32	11/17	11/24	11/29	12/03	12/07	12/11	12/16	12/21	12/28
28	12/06	12/16	12/25	1/03	1/14	0/00	0/00	0/00	0/00
24	12/27	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	310	301	294	288	282	277	271	264	255
32	354	337	328	320	314	308	301	293	283
28	>365	>365	>365	>365	>365	>365	348	329	311
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	322	186	122	46	5	0	0	0	0	10	136	328	1155
60	186	85	48	14	0	0	0	0	0	2	58	190	583
57	123	44	22	5	0	0	0	0	0	0	29	124	347
55	89	24	12	2	0	0	0	0	0	0	16	90	233
50	28	4	0	0	0	0	0	0	0	0	3	27	62
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	707	748	966	1114	1370	1578	1810	1813	1600	1318	903	698	14625
55	83	129	265	426	657	888	1097	1100	910	605	229	74	6463
57	54	92	212	369	595	828	1035	1038	850	543	182	47	5845
60	25	49	145	287	503	738	942	945	760	451	120	20	4985
65	5	10	64	169	353	588	787	790	610	305	49	3	3733
70	0	1	19	85	217	439	632	635	461	180	13	0	2682

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	473	560	727	880	1129	1348	1572	1575	1369	1083	675	463	473	1033	1760	2640	3769	5117	6689	8264	9633	10716	11391	11854
45	320	415	572	730	974	1198	1417	1420	1219	928	525	312	320	735	1307	2037	3011	4209	5626	7046	8265	9193	9718	10030
50	175	272	418	580	819	1048	1262	1265	1069	773	376	169	175	447	865	1445	2264	3312	4574	5839	6908	7681	8057	8226
55	67	145	268	431	664	898	1107	1110	919	618	234	61	67	212	480	911	1575	2473	3580	4690	5609	6227	6461	6522
60	12	52	138	288	509	748	952	955	769	464	118	9	12	64	202	490	999	1747	2699	3654	4423	4887	5005	5014
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	319	366	463	552	690	790	942	958	838	678	444	319	319	685	1148	1700	2390	3180	4122	5080	5918	6596	7040	7359

(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/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.

- | | |
|---|---|
| <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/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