

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: FORT BRAGG 5 N, CA

1971-2000

COOP ID: 043161

Climate Division: CA 1

NWS Call Sign:

Elevation: 120 Feet

Lat: 39° 31N

Lon: 123° 46W

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	55.9	40.8	48.4	77	1961	22	53.9	1986	25	1962	22	44.4	1989	516	0	.0	.0	28.5	.0	3.8	.0
Feb	57.0	41.5	49.3	79+	1987	8	53.2	1980	24	1989	5	43.8	1989	445	0	.0	.0	26.8	.1	2.6	.0
Mar	58.4	42.1	50.3	77	1953	8	54.7	1978	28+	1966	3	45.9	1999	442	0	.0	.0	30.4	.0	.7	.0
Apr	60.7	43.2	52.0	80	1982	22	55.9	1992	30+	1999	9	48.5	1975	392	0	.0	.0	29.9	.0	.2	.0
May	62.4	45.4	53.9	85+	1997	17	58.2	1992	29	1965	24	50.8	1999	346	0	.0	@	31.0	.0	.8	.0
Jun	64.8	48.0	56.4	86+	1990	20	58.5	1986	37	1999	8	53.2	1996	258	0	.0	.0	29.9	.0	.0	.0
Jul	66.6	49.5	58.1	83	1984	3	61.5	1992	38	2000	10	55.6	1999	217	1	.0	.0	31.0	.0	.0	.0
Aug	66.7	50.0	58.4	83+	1993	2	61.5	1993	37	1973	28	55.4	1973	210	3	.0	.0	31.0	.0	.0	.0
Sep	67.0	49.3	58.2	87	1970	27	61.5	1979	38+	1999	24	54.7	1996	207	2	.0	.0	30.0	.0	.0	.0
Oct	64.1	46.4	55.3	94	1985	5	59.2	1992	31+	1971	30	52.1	1971	302	0	.0	@	31.0	.0	.1	.0
Nov	59.2	43.1	51.2	82	1959	27	55.6	1976	29+	1993	24	46.2	1994	416	0	.0	.0	29.6	.0	1.2	.0
Dec	55.4	39.9	47.7	78	1963	31	51.5	1981	18	1990	21	40.1	1990	538	0	.0	.0	27.9	.0	4.2	.0
Ann	61.5	44.9	53.3	94	Oct 1985	5	61.5+	Aug 1993	18	Dec 1990	21	40.1	Dec 1990	4289	6	.0	.0	357.0	.1	13.6	.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

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NWS Call Sign:

Elevation: 120 Feet Lat: 39°31N

Lon: 123°46W

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	7.32	7.33	3.84	1995	9	21.50	1998	.55	1984	15.7	10.9	5.0	2.2	1.17	1.79	2.86	3.87	4.91	6.05	7.35	8.94	11.07	14.53	17.84
Feb	6.78	5.76	3.78	1979	13	16.83	1998	.77	1988	14.8	10.7	5.2	2.0	1.41	2.03	3.02	3.93	4.84	5.82	6.92	8.24	9.99	12.78	15.42
Mar	6.48	5.50	3.05	1978	8	14.60	1983	1.54	1988	14.9	10.3	4.6	1.8	1.60	2.21	3.16	3.99	4.82	5.70	6.67	7.83	9.35	11.76	14.01
Apr	2.86	2.84	2.83	1953	27	6.23	1978	.24	1985	9.9	6.0	1.8	.5	.56	.82	1.24	1.63	2.02	2.44	2.91	3.48	4.24	5.46	6.61
May	1.59	1.03	3.06	1990	22	9.46	1990	.00	1992	7.0	3.6	.9	.2	.03	.11	.30	.52	.77	1.07	1.44	1.92	2.60	3.76	4.92
Jun	.42	.27	1.28	2001	27	1.82	1992	.03+	1996	4.1	1.4	.1	@	.02	.04	.09	.15	.21	.29	.38	.51	.68	.98	1.28
Jul	.14	.08	.75	1974	8	.85	1974	.00+	1997	2.7	.3	@	.0	.00	.00	.02	.04	.06	.09	.13	.17	.24	.35	.46
Aug	.34	.11	2.05	1983	31	3.00	1983	.00	1995	4.4	.6	.2	@	.00	.00	.02	.05	.09	.16	.24	.37	.56	.91	1.29
Sep	.74	.30	1.70	1972	27	3.09	1977	.00+	1995	4.9	1.3	.5	.1	.00	.01	.05	.13	.23	.38	.57	.83	1.23	1.95	2.70
Oct	2.57	2.17	3.78	1989	23	6.96	1989	.04	1978	8.5	4.3	1.6	.8	.19	.35	.68	1.03	1.43	1.88	2.43	3.12	4.08	5.70	7.31
Nov	5.42	3.86	3.49	1955	20	13.64	1984	.98	1990	14.0	9.1	3.7	1.4	.71	1.15	1.92	2.68	3.47	4.35	5.37	6.62	8.32	11.09	13.78
Dec	6.34	5.53	3.54	1951	27	18.72	1996	.32	1989	14.7	10.3	4.4	1.8	1.06	1.61	2.54	3.41	4.30	5.28	6.39	7.74	9.54	12.46	15.26
Ann	41.00	39.65	3.84	Jan 1995	9	21.50	Jan 1998	.00+	Jul 1997	115.6	68.8	28.0	10.8	23.44	26.56	30.71	33.96	36.91	39.83	42.90	46.35	50.61	56.94	62.53

+ 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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Station: FORT BRAGG 5 N, CA

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Climate Division: CA 1

NWS Call Sign:

Elevation: 120 Feet

Lat: 39°31N

Lon: 123°46W

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	#	1996	24	#	1996	#	1996	24	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1991	25	#	1991	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	N/A	N/A	#+	Feb 1996	24	#+	Feb 1996	#	Feb 1996	24	#	Feb 1996	.0	.0	.0	.0	.0	.0	.0	.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

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NWS Call Sign:

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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	5/16	5/06	4/28	4/22	4/16	4/10	4/04	3/28	3/17
32	4/12	3/25	3/12	3/01	2/19	2/09	1/28	1/15	12/24
28	2/26	1/29	1/03	11/23	0/00	0/00	0/00	0/00	0/00
24	12/14	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	10/20	10/27	11/01	11/05	11/09	11/13	11/17	11/22	11/29
32	11/05	11/16	11/24	11/30	12/07	12/13	12/20	12/29	1/11
28	12/20	1/04	1/18	2/08	0/00	0/00	0/00	0/00	0/00
24	1/16	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	242	229	221	213	206	199	191	182	170
32	>365	335	315	301	288	276	263	249	229
28	>365	>365	>365	>365	>365	>365	>365	>365	332
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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Climate Division: CA 1 NWS Call Sign: Elevation: 120 Feet Lat: 39°31N Lon: 123°46W

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	516	445	442	392	346	258	217	210	207	302	416	538	4289
60	361	301	304	242	194	113	83	84	82	157	271	384	2576
57	274	223	218	159	113	48	33	36	35	89	190	297	1715
55	217	173	165	109	72	20	13	16	15	55	143	242	1240
50	104	78	68	28	12	0	0	0	0	9	58	126	483
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	507	483	565	598	678	732	808	817	786	721	574	485	7754
55	11	13	17	17	37	62	107	120	111	62	27	13	597
57	6	6	8	7	16	29	66	78	71	34	14	7	342
60	0	0	1	0	4	5	22	32	28	10	5	1	108
65	0	0	0	0	0	0	1	3	2	0	0	0	6
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	243	268	318	348	429	494	571	570	539	473	325	235	243	511	829	1177	1606	2100	2671	3241	3780	4253	4578	4813
45	112	137	167	201	274	345	416	415	389	318	185	104	112	249	416	617	891	1236	1652	2067	2456	2774	2959	3063
50	31	40	57	75	123	195	261	260	239	166	65	28	31	71	128	203	326	521	782	1042	1281	1447	1512	1540
55	0	1	0	12	31	64	108	110	103	54	12	0	0	1	1	13	44	108	216	326	429	483	495	495
60	0	0	0	0	1	4	23	18	25	8	0	0	0	0	0	0	1	5	28	46	71	79	79	79
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	93	112	134	158	203	235	281	280	270	232	144	95	93	205	339	497	700	935	1216	1496	1766	1998	2142	2237

(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/normals/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 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