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: BURNEY, CA **COOP ID: 041214**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 3,198 Feet** **Lat: 40˚53N** **Lon: 121˚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	45.5	18.3	31.9	68	1971	19	38.0	1978	-20	1949	25	24.4	1977	1026	0	.0	.0	7.0	1.1	28.1	1.3
Feb	51.2	22.2	36.7	74	1986	28	42.5	1995	-18+	1990	20	27.9	1990	792	0	.0	.0	12.9	.5	25.5	.4
Mar	56.6	24.9	40.8	80+	1966	31	46.3	1978	1+	1974	8	35.9	1985	753	0	.0	.0	22.3	.0	27.3	.0
Apr	63.0	28.1	45.6	87	1981	30	50.2	1989	12	1987	12	38.9	1975	584	0	.0	.0	27.0	.0	23.4	.0
May	71.7	33.6	52.7	96	1983	29	60.2	1997	17+	1986	13	47.1	1977	386	3	.0	.6	30.5	.0	13.0	.0
Jun	80.3	39.2	59.8	102+	1992	22	65.5	1977	21	1987	1	55.6	1993	180	23	.1	4.2	30.0	.0	4.0	.0
Jul	88.6	42.6	65.6	107	1988	21	70.3	1998	25	1982	3	61.0	1993	78	97	1.2	12.9	31.0	.0	1.4	.0
Aug	88.2	39.8	64.0	108	1981	8	68.5	1998	24	1985	29	59.7	1985	91	59	1.2	12.4	31.0	.0	2.9	.0
Sep	81.7	33.6	57.7	105+	1988	4	63.7	1998	17	1955	18	51.3	1986	236	14	.3	5.3	29.9	.0	12.6	.0
Oct	69.8	26.8	48.3	94	1980	3	54.0	1987	10+	1985	14	43.0	1984	518	0	.0	.9	29.8	.0	26.0	.0
Nov	52.8	22.8	37.8	82	1966	1	43.8	1995	-3	1985	12	31.5	1985	815	0	.0	.0	17.2	.1	26.9	.1
Dec	44.8	18.4	31.6	65	1959	3	36.8	1977	-26	1972	9	22.6	1990	1036	0	.0	.0	6.7	1.5	28.9	1.4
Ann	66.2	29.2	47.7	108	Aug 1981	8	70.3	Jul 1998	-26	Dec 1972	9	22.6	Dec 1990	6495	196	2.8	36.3	275.3	3.2	220.0	3.2

\+ 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

Issue Date: February 2004

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: BURNEY, CA

COOP ID: 041214

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 3,198 Feet** **Lat: 40°53N** **Lon: 121°39W**

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	4.40	3.98	3.45	1974	16	10.78	1974	.14	1976
Feb	4.06	3.29	2.78	1979	14	10.12	1998	.15	1988
Mar	3.83	2.90	2.60	1986	8	9.46	1974	.73	1976
Apr	1.95	1.75	1.41	1963	7	4.79	1978	.16	1985
May	1.64	1.34	1.40	1990	31	6.23	1998	.11	1976
Jun	.76	.56	1.43	1952	7	2.99	1971	.10	1979
Jul	.20	.06	.81	1992	18	1.04	1992	.00+	1999
Aug	.37	.09	1.25	1948	23	2.05	1976	.00+	1998
Sep	.87	.59	2.10	1957	27	3.28	1985	.00+	1991
Oct	1.69	1.63	3.87	1962	12	5.00	1981	.00	1978
Nov	3.36	2.31	3.10	1981	16	9.95	1998	.33	1986
Dec	3.76	3.39	2.95	1951	27	11.19	1996	.09	1989
Ann	26.89	26.14	3.87	Oct 1962	12	11.19	Dec 1996	.00+	Jul 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.1	8.1	2.7	.8
Feb	11.8	7.9	2.9	.7
Mar	13.9	8.8	2.6	.7
Apr	7.8	4.5	.8	@
May	6.0	3.3	.8	.1
Jun	3.8	1.8	.3	.0
Jul	2.0	.6	.1	.0
Aug	2.5	.9	.3	@
Sep	3.5	1.9	.5	.2
Oct	5.0	3.2	.9	.3
Nov	9.5	6.2	2.0	.6
Dec	11.7	7.9	2.3	1.0
Ann	89.6	55.1	16.2	4.4

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	.40	.71	1.30	1.91	2.58	3.34	4.24	5.37	6.92	9.51	12.06
Feb	.49	.81	1.38	1.95	2.55	3.22	3.99	4.95	6.26	8.40	10.48
Mar	.66	.99	1.55	2.08	2.61	3.20	3.86	4.67	5.75	7.50	9.17
Apr	.45	.63	.92	1.18	1.43	1.70	2.00	2.37	2.84	3.60	4.31
May	.15	.27	.49	.72	.97	1.25	1.59	2.00	2.58	3.54	4.48
Jun	.10	.16	.27	.37	.49	.61	.75	.93	1.17	1.56	1.94
Jul	.00	.00	.00	.00	.00	.04	.10	.20	.35	.62	.90
Aug	.00	.00	.00	.02	.07	.15	.26	.41	.63	1.03	1.44
Sep	.00	.02	.10	.22	.35	.53	.74	1.03	1.45	2.18	2.92
Oct	.05	.17	.40	.65	.92	1.23	1.60	2.06	2.71	3.80	4.88
Nov	.31	.54	1.00	1.46	1.97	2.55	3.24	4.10	5.28	7.25	9.18
Dec	.40	.67	1.19	1.72	2.28	2.91	3.66	4.59	5.85	7.95	10.00
Ann	13.89	16.11	19.11	21.50	23.69	25.87	28.19	30.81	34.08	38.98	43.34

\+ 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/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: BURNEY, CA **COOP ID: 041214**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 3,198 Feet** **Lat: 40°53N** **Lon: 121°39W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	9.8	5.9	2	1
Feb	2.7	.0	1	#
Mar	3.2	1.6	1	#
Apr	.9	.0	#	0
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	0	0
Oct	.2	.0	0	0
Nov	1.3	.0	#	0
Dec	7.7	7.6	1	1
Ann	26.0	15.1	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	16.0	1972	27	31.0	1972	28	1972	27	11	1989
Feb	5.0	1999	9	17.2	1998	15	1979	23	6	1979
Mar	8.6	1999	9	14.7	1999	12	1991	13	5	1991
Apr	3.3	1999	8	4.0	1978	13	1982	1	7	1982
May	1.0	1991	18	1.0+	1998	1+	1998	26	#+	1998
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	2.5	1971	30	2.5	1971	0	0	0	0	0
Oct	3.0	1984	17	3.0	1984	0	0	0	0	0
Nov	7.0	1977	21	11.0	1977	7	1985	25	2	1985
Dec	12.0	1972	6	19.0+	1983	31	1979	25	7	1979
Ann	16.0	Jan 1972	27	31.0	Jan 1972	31	Dec 1979	25	11	Jan 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.5	2.4	1.3	.7	.2
Feb	1.4	1.1	.2	.1	.0
Mar	1.5	1.2	.4	.2	.0
Apr	.6	.5	.1	.0	.0
May	.1	.1	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	.0	.0	.0
Oct	.1	.1	.1	.0	.0
Nov	.8	.7	.3	.1	.0
Dec	2.3	2.1	.9	.4	.2
Ann	9.4	8.3	3.3	1.5	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	6.2	4.0	2.5	.5
Feb	2.1	1.0	.4	.2
Mar	1.0	.4	.2	.0
Apr	.3	.1	.0	.0
May	.1	.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	.8	.3	.0	.0
Dec	6.5	3.9	2.4	.5
Ann	17.0	9.7	5.5	1.2

+ 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

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

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: BURNEY, CA **COOP ID: 041214**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 3,198 Feet** **Lat: 40˚53N** **Lon: 121˚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	8/06	7/28	7/21	7/15	7/10	7/05	6/29	6/22	6/13
32	7/22	7/12	7/04	6/28	6/22	6/16	6/10	6/03	5/23
28	7/04	6/23	6/15	6/09	6/03	5/27	5/21	5/13	5/02
24	5/31	5/23	5/17	5/12	5/07	5/03	4/28	4/22	4/14
20	5/12	5/03	4/27	4/21	4/16	4/11	4/06	3/30	3/21
16	4/22	4/11	4/03	3/27	3/20	3/13	3/06	2/26	2/14

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	7/31	8/04	8/08	8/11	8/14	8/17	8/20	8/23	8/28
32	8/09	8/15	8/20	8/23	8/27	8/30	9/03	9/07	9/13
28	8/27	9/02	9/07	9/11	9/14	9/18	9/21	9/26	10/02
24	9/11	9/18	9/22	9/26	9/30	10/03	10/07	10/12	10/18
20	9/27	10/04	10/09	10/14	10/18	10/22	10/27	11/01	11/08
16	10/17	10/24	10/29	11/02	11/06	11/10	11/14	11/19	11/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	72	59	50	42	34	26	18	9	0
32	106	92	82	73	65	57	48	37	23
28	142	129	119	111	103	95	87	77	63
24	176	165	158	151	145	138	132	124	113
20	224	210	200	192	184	176	168	158	144
16	273	258	248	239	231	222	213	203	188

***** 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/normals/usnormals.html

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: BURNEY, CA **COOP ID: 041214**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 3,198 Feet** **Lat: 40˚53N** **Lon: 121˚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	Ann
65	1026	792	753	584	386	180	78	91	236	518	815	1036	6495
60	871	652	598	434	246	83	23	26	125	366	665	881	4970
57	778	568	505	347	174	44	9	10	77	281	575	788	4156
55	716	512	443	291	134	26	5	4	52	228	515	726	3652
50	561	376	295	166	58	5	0	0	14	119	369	571	2534
32	116	42	10	0	0	0	0	0	0	0	32	118	318

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	113	174	280	406	640	833	1041	991	769	506	207	105	6065
55	0	0	0	7	60	169	333	282	131	21	0	0	1003
57	0	0	0	3	39	127	276	226	96	11	0	0	778
60	0	0	0	0	18	76	196	149	54	4	0	0	497
65	0	0	0	0	3	23	97	59	14	0	0	0	196
70	0	0	0	0	0	4	32	13	2	0	0	0	51

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	6	29	83	180	383	596	786	748	533	275	46	5	6	35	118	298	681	1277	2063	2811	3344	3619	3665	3670
45	0	2	22	79	241	447	631	593	386	146	11	0	0	2	24	103	344	791	1422	2015	2401	2547	2558	2558
50	0	0	0	27	128	304	476	438	250	59	0	0	0	0	0	27	155	459	935	1373	1623	1682	1682	1682
55	0	0	0	2	54	174	325	286	131	16	0	0	0	0	0	2	56	230	555	841	972	988	988	988
60	0	0	0	0	18	73	189	151	44	2	0	0	0	0	0	0	18	91	280	431	475	477	477	477
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	55	107	188	315	433	535	529	452	306	78	11	17	72	179	367	682	1115	1650	2179	2631	2937	3015	3026

(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.
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