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: FORT JONES RANGER STN, CA **COOP ID: 043182**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,725 Feet** **Lat: 41˚36N** **Lon: 122˚51W**

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	.0	.0	.0	65	1986	13	.0	0	-20	1962	22	.0	0	0	0	.0	.0	7.8	1.1	28.3	.1
Feb	.0	.0	.0	73+	1995	24	.0	0	-22	1950	2	.0	0	0	0	.0	.0	16.0	.4	24.2	.2
Mar	.0	.0	.0	81	1960	24	.0	0	3	1956	6	.0	0	0	0	.0	.0	24.8	@	25.0	.0
Apr	.0	.0	.0	88+	1987	28	.0	0	12+	1991	12	.0	0	0	0	.0	.0	27.8	.0	17.9	.0
May	.0	.0	.0	97+	2001	23	.0	0	20	1971	20	.0	0	0	0	.0	1.2	30.8	.0	7.4	.0
Jun	.0	.0	.0	104+	1987	29	.0	0	24	1952	12	.0	0	0	0	.3	6.9	30.0	.0	1.2	.0
Jul	.0	.0	.0	106+	1994	22	.0	0	32	1976	1	.0	0	0	0	3.2	17.9	31.0	.0	.5	.0
Aug	.0	.0	.0	110+	1981	9	.0	0	29	1954	24	.0	0	0	0	3.0	18.6	31.0	.0	.1	.0
Sep	.0	.0	.0	106+	1998	3	.0	0	16	1961	30	.0	0	0	0	.4	8.4	30.0	.0	5.9	.0
Oct	.0	.0	.0	94+	1988	3	.0	0	13	1971	29	.0	0	0	0	.0	1.2	30.5	.0	17.7	.0
Nov	.0	.0	.0	78+	1949	4	.0	0	2	1985	12	.0	0	0	0	.0	.0	19.4	.2	24.9	.0
Dec	.0	.0	.0	66	1995	1	.0	0	-18+	1972	9	.0	0	0	0	.0	.0	6.7	1.2	27.2	.3
Ann	.0	.0	.0	110+	Aug 1981	9	-99.9+	0	-22	Feb 1950	2	99.9	0	0	0	6.9	54.2	285.8	2.9	180.3	.6

\+ 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: FORT JONES RANGER STN, CA **COOP ID: 043182**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,725 Feet** **Lat: 41˚36N** **Lon: 122˚51W**

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	3.72	3.72	3.28	1974	16	9.03	1995	.17	1985
Feb	2.95	2.51	2.32	1982	16	8.16	1986	.21	1988
Mar	2.43	1.76	2.40	1975	18	6.97	1995	.28	1988
Apr	1.34	1.05	2.49	1974	1	3.92	1974	.11	1985
May	.95	.64	1.48	1979	7	3.19	1998	.00	1982
Jun	.67	.37	2.24	1958	19	2.35	1992	.00+	1983
Jul	.42	.15	1.10	1985	28	2.15	1995	.00+	1999
Aug	.58	.32	1.43	1983	30	3.61	1983	.00+	1998
Sep	.74	.49	1.98	1972	5	2.47	1972	.00+	1999
Oct	1.22	.88	3.50	1973	23	3.86	1973	.00	1978
Nov	3.26	2.46	2.00+	1998	21	9.56	1984	.42	1995
Dec	3.52	2.17	2.54	1964	22	11.46	1996	.21+	1989
Ann	21.80	20.31	3.50	Oct 1973	23	11.46	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	5.8	2.1	.8
Feb	9.1	4.5	1.4	.7
Mar	9.6	4.8	1.2	.2
Apr	7.4	3.0	.6	@
May	5.7	2.3	.4	.1
Jun	3.5	1.7	.3	.1
Jul	2.1	.8	.2	@
Aug	2.6	1.2	.3	.1
Sep	2.9	1.2	.5	@
Oct	5.0	2.9	.5	.1
Nov	8.7	5.1	1.6	.5
Dec	9.7	5.5	1.7	.7
Ann	76.8	38.8	10.8	3.3

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	.46	.76	1.29	1.81	2.35	2.96	3.67	4.55	5.74	7.69	9.58
Feb	.41	.66	1.08	1.49	1.92	2.39	2.94	3.61	4.51	5.98	7.41
Mar	.33	.53	.87	1.21	1.56	1.95	2.41	2.96	3.71	4.94	6.13
Apr	.21	.32	.52	.70	.90	1.11	1.35	1.64	2.03	2.67	3.28
May	.03	.10	.23	.36	.52	.69	.90	1.16	1.53	2.15	2.76
Jun	.00	.01	.06	.13	.23	.37	.54	.77	1.11	1.72	2.35
Jul	.00	.00	.00	.01	.08	.18	.30	.48	.73	1.18	1.64
Aug	.00	.00	.00	.00	.13	.28	.46	.70	1.03	1.60	2.17
Sep	.00	.00	.03	.14	.27	.43	.63	.89	1.26	1.90	2.56
Oct	.03	.11	.28	.45	.64	.87	1.14	1.49	1.97	2.78	3.59
Nov	.35	.60	1.05	1.50	1.99	2.54	3.18	3.98	5.07	6.87	8.63
Dec	.30	.54	1.01	1.49	2.03	2.64	3.37	4.29	5.56	7.67	9.75
Ann	12.41	14.07	16.28	18.02	19.60	21.16	22.80	24.64	26.92	30.31	33.30

\+ 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: FORT JONES RANGER STN, CA **COOP ID: 043182**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,725 Feet** **Lat: 41°36N** **Lon: 122°51W**

Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	3.6	.5	1	0	15.0	1971	14	26.6	1971	13	1971	14	10	1988	1.2	.5	.5	.2	.1	.7	.2	.1	.1
Feb	.1	.0	1	0	1.0	1977	24	1.0	1977	14	1975	5	10	1975	.2	.1	.0	.0	.0	.1	.0	.0	.0
Mar	1.5	.0	#	0	4.0	1985	26	6.5	1971	4	1975	24	#+	1975	.5	.5	.3	.0	.0	.1	@	.0	.0
Apr	#	.0	0	0	#	1974	9	#+	1974	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	#	0	#	1971	20	#	1971	#	1971	20	#	1971	.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	#	1971	30	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.9	.0	#	0	10.0	1977	21	10.0	1977	1	1999	23	#	1999	.1	.1	.1	.1	.1	.0	.0	.0	.0
Dec	4.0	.0	#	0	9.0	1972	6	18.0	1972	9	1972	6	3	1972	1.2	.8	.6	.4	.0	.8	.7	.7	.0
Ann	10.1	.5	N/A	N/A	15.0	Jan 1971	14	26.6	Jan 1971	14	Feb 1975	5	10+	Jan 1988	3.2	2.0	1.5	.7	.2	1.7	.9	.8	.1

+ 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: FORT JONES RANGER STN, CA **COOP ID: 043182**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,725 Feet** **Lat: 41˚36N** **Lon: 122˚51W**

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	7/22	7/16	7/12	7/08	7/04	7/01	6/27	6/22	6/16
32	7/10	6/30	6/23	6/17	6/11	6/06	5/31	5/24	5/14
28	6/06	5/30	5/25	5/21	5/17	5/13	5/08	5/03	4/26
24	5/08	5/01	4/26	4/21	4/17	4/13	4/08	4/03	3/27
20	4/20	4/09	4/02	3/26	3/20	3/14	3/07	2/28	2/17
16	3/26	3/11	2/27	2/17	2/08	1/30	1/19	1/07	12/19

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	8/14	8/20	8/24	8/27	8/31	9/03	9/06	9/11	9/16
32	8/25	9/01	9/06	9/10	9/14	9/18	9/22	9/27	10/04
28	9/15	9/20	9/24	9/28	10/01	10/04	10/07	10/11	10/17
24	9/26	10/02	10/07	10/11	10/15	10/19	10/23	10/28	11/03
20	10/13	10/21	10/27	11/01	11/06	11/11	11/16	11/22	11/30
16	10/23	11/04	11/13	11/20	11/27	12/04	12/12	12/21	1/05

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	81	73	67	62	57	52	47	40	32
32	132	119	109	101	94	86	78	69	56
28	163	154	147	142	136	131	125	118	109
24	211	200	193	186	180	174	168	161	150
20	270	257	247	238	230	222	214	204	190
16	>365	344	321	304	290	275	261	244	221

***** 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: FORT JONES RANGER STN, CA **COOP ID: 043182**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,725 Feet** **Lat: 41˚36N** **Lon: 122˚51W**

Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
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	15	54	117	244	467	681	881	879	617	360	73	13	15	69	186	430	897	1578	2459	3338	3955	4315	4388	4401
45	0	8	41	129	316	532	726	724	467	221	17	0	0	8	49	178	494	1026	1752	2476	2943	3164	3181	3181
50	0	1	3	53	189	384	572	569	322	110	0	0	0	1	4	57	246	630	1202	1771	2093	2203	2203	2203
55	0	0	0	16	94	247	419	416	191	41	0	0	0	0	0	16	110	357	776	1192	1383	1424	1424	1424
60	0	0	0	0	35	134	273	266	91	11	0	0	0	0	0	0	35	169	442	708	799	810	810	810
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	15	58	128	215	347	457	550	543	463	328	83	11	15	73	201	416	763	1220	1770	2313	2776	3104	3187	3198

(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