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: HUNTINGTON LAKE, CA **COOP ID: 044176**

Climate Division: CA 5 **NWS Call Sign:** **Elevation: 7,020 Feet** **Lat: 37˚14N** **Lon: 119˚13W**

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	45.9	26.0	36.0	67	1989	31	42.5	1986	-10	1957	27	28.7	1973	900	0	.0	.0	10.8	1.7	25.4	@
Feb	46.1	25.3	35.7	65+	1988	11	44.2	1991	-10	1949	13	29.4	1998	820	0	.0	.0	10.1	1.6	23.7	.0
Mar	47.1	26.3	36.7	67+	1997	18	42.6	1994	-7	1951	3	26.9	1973	862	0	.0	.0	12.8	1.6	25.5	.0
Apr	51.2	29.3	40.3	76	1989	7	50.7	1989	3	1965	11	33.1	1975	742	0	.0	.0	16.9	.5	20.2	.0
May	57.3	35.1	46.2	82	1984	28	53.0	1992	10	1967	1	37.7	1977	584	0	.0	.0	24.3	@	10.0	.0
Jun	66.3	41.8	54.1	87	1961	22	58.9+	1994	20	1967	1	48.0	1983	339	10	.0	.0	28.7	.0	1.7	.0
Jul	73.6	47.8	60.7	88+	1988	20	65.8	1988	31	1997	1	54.7	1983	165	32	.0	.0	31.0	.0	@	.0
Aug	73.3	47.9	60.6	88	1981	7	64.2	1988	32+	1959	21	54.1	1976	168	31	.0	.0	31.0	.0	.0	.0
Sep	67.4	43.6	55.5	88	1955	3	60.4	1991	25	1948	26	46.9	1986	302	17	.0	.0	29.1	.0	1.1	.0
Oct	58.9	37.0	48.0	80+	1996	7	56.6	1988	16	1971	29	42.6	1972	531	3	.0	.0	25.7	@	6.9	.0
Nov	50.2	30.2	40.2	76	1991	7	46.2	1995	2	1964	14	34.1	1972	745	0	.0	.0	16.6	.9	17.9	.0
Dec	45.8	26.6	36.2	65+	1989	4	44.8	1989	-9	1972	9	25.6	1971	893	0	.0	.0	11.5	2.5	24.7	@
Ann	56.9	34.7	45.9	88+	Jul 1988	20	65.8	Jul 1988	-10+	Jan 1957	27	25.6	Dec 1971	7051	93	.0	.0	248.5	8.8	157.1	.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/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

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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	8.51	7.48	5.50	1980	12	22.80	1995	.00	1984
Feb	8.29	6.90	4.80	1983	7	21.84	1998	1.31	1997
Mar	7.54	6.65	4.60	1995	10	24.00	1995	.10	1988
Apr	3.37	2.40	4.90	1982	11	10.30	1982	.05	1997
May	1.87	1.40	2.16	1957	19	6.77	1998	.10+	1985
Jun	.68	.50	1.47	1954	9	3.40	1998	.00+	1994
Jul	.37	.10	1.30	1992	12	2.60	1984	.00+	2000
Aug	.22	.06	1.00	1975	19	1.80	1983	.00+	1999
Sep	1.24	.50	3.41	1959	19	5.80	1982	.00+	1995
Oct	2.44	2.61	3.20	1982	26	8.10	1975	.00+	1995
Nov	4.91	3.95	5.29	1950	19	13.49	1973	.20	1986
Dec	5.81	5.35	7.28	1955	23	16.33	1996	.00	1989
Ann	45.25	41.08	7.28	Dec 1955	23	24.00	Mar 1995	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	8.3	4.6	3.2
Feb	9.4	8.5	5.0	3.3
Mar	9.4	9.2	4.4	2.6
Apr	7.1	6.4	2.4	.8
May	6.1	4.7	1.3	.3
Jun	2.2	1.6	.6	.1
Jul	1.4	1.0	.2	@
Aug	1.1	1.0	.1	@
Sep	2.6	2.3	.7	.3
Oct	4.7	3.8	1.6	.8
Nov	7.4	6.2	2.9	1.7
Dec	7.7	6.7	3.4	1.8
Ann	68.8	59.7	27.2	14.9

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	.38	1.12	2.38	3.63	4.97	6.48	8.25	10.47	13.50	18.53	23.45
Feb	1.31	2.02	3.22	4.37	5.55	6.84	8.31	10.12	12.53	16.45	20.21
Mar	.56	1.05	2.02	3.05	4.21	5.54	7.14	9.16	11.96	16.68	21.35
Apr	.28	.50	.95	1.41	1.93	2.51	3.21	4.10	5.32	7.36	9.37
May	.11	.22	.45	.70	.99	1.32	1.73	2.26	2.99	4.24	5.49
Jun	.00	.00	.00	.11	.29	.47	.67	.90	1.20	1.71	2.18
Jul	.00	.00	.00	.00	.03	.12	.23	.40	.65	1.09	1.54
Aug	.00	.00	.00	.00	.00	.04	.11	.21	.38	.68	.99
Sep	.00	.00	.09	.24	.43	.68	1.01	1.44	2.08	3.22	4.38
Oct	.00	.00	.37	.75	1.17	1.66	2.25	3.01	4.04	5.81	7.57
Nov	.31	.61	1.22	1.88	2.64	3.52	4.58	5.94	7.84	11.05	14.24
Dec	.24	.72	1.57	2.42	3.34	4.38	5.60	7.14	9.25	12.76	16.20
Ann	21.22	25.16	30.58	34.95	39.02	43.09	47.44	52.40	58.63	68.05	76.51

\+ 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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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	22.7	8.0	29	37	24.0	1982	4	77.0	1978	83	1982	21	63	1982	2.6	2.5	1.9	1.7	.7	-9.9	-9.9	-9.9	-9.9
Feb	34.3	24.0	47	52	27.0	1978	10	96.0	1978	123	1983	8	110	1983	3.5	3.5	2.7	2.0	1.3	-9.9	-9.9	-9.9	-9.9
Mar	23.0	5.0	35	22	23.0	1979	28	68.0	1978	144	1983	25	128	1983	3.1	3.1	2.2	1.8	1.0	-9.9	-9.9	-9.9	-9.9
Apr	11.0	.0	25	0	23.0	1982	1	39.0	1975	120	1983	12	117	1983	1.4	1.4	1.1	.7	.4	-9.9	-9.9	-9.9	-9.9
May	.7	.0	6	0	3.0	1975	5	5.0	1975	65	1975	5	65	1975	.3	.3	.1	.0	.0	-9.9	-9.9	-9.9	-9.9
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	.1	.0	#	0	1.0	1982	29	1.0	1982	1	1982	29	#+	1982	.1	.1	.0	.0	.0	.1	.0	.0	.0
Oct	1.1	.0	#	0	10.0	1985	21	10.0	1985	11	1974	29	1	1974	.1	.1	.1	.1	.1	.2	.2	.2	.1
Nov	4.3	.0	3	0	26.0	1982	10	26.0	1982	34	1972	14	23	1982	.3	.2	.2	.2	.1	-9.9	-9.9	-9.9	-9.9
Dec	13.5	5.0	12	#	18.0	1987	28	45.0	1987	72	1971	29	41	1984	2.2	2.2	1.7	1.0	.3	-9.9	-9.9	-9.9	-9.9
Ann	110.7	42.0	N/A	N/A	27.0	Feb 1978	10	96.0	Feb 1978	144	Mar 1983	25	128	Mar 1983	13.6	13.4	10.0	7.5	3.9	-9.9	-9.9	-9.9	-9.9

+ 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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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	7/14	7/07	7/03	6/28	6/25	6/21	6/16	6/12	6/05
32	6/24	6/17	6/13	6/08	6/05	6/01	5/28	5/23	5/17
28	6/12	6/03	5/28	5/23	5/18	5/13	5/07	5/01	4/23
24	5/24	5/15	5/09	5/03	4/28	4/23	4/17	4/11	4/02
20	5/15	5/04	4/26	4/18	4/12	4/05	3/29	3/21	3/09
16	4/27	4/18	4/11	4/05	3/31	3/25	3/19	3/12	3/01

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	8/21	8/31	9/07	9/13	9/19	9/25	10/01	10/09	10/19
32	9/17	9/25	10/01	10/06	10/11	10/15	10/20	10/26	11/03
28	9/30	10/08	10/14	10/18	10/23	10/27	11/01	11/06	11/14
24	10/17	10/25	10/31	11/05	11/10	11/14	11/20	11/25	12/04
20	10/29	11/08	11/16	11/22	11/28	12/04	12/11	12/18	12/29
16	11/09	11/20	11/28	12/05	12/12	12/19	12/26	1/04	1/18

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	124	111	101	94	86	79	71	61	48
32	158	148	140	133	127	121	114	107	96
28	193	181	172	164	157	150	142	134	121
24	233	220	210	203	195	188	180	170	157
20	276	260	249	239	230	220	210	199	183
16	320	293	278	267	257	247	236	224	207

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	900	820	862	742	584	339	165	168	302	531	745	893	7051
60	745	680	722	594	436	213	76	79	187	386	595	738	5451
57	652	596	629	511	350	152	38	40	133	305	506	645	4557
55	590	540	569	455	297	118	22	24	102	256	448	583	4004
50	438	401	425	324	182	53	4	5	44	154	312	441	2783
32	53	46	65	42	7	0	0	0	0	4	26	75	318

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	176	150	212	290	445	661	889	886	705	499	271	205	5389
55	0	0	3	13	22	89	199	197	118	39	3	0	683
57	0	0	0	9	14	64	153	151	89	26	1	0	507
60	0	0	0	2	7	34	97	96	52	13	0	0	301
65	0	0	0	0	0	10	32	31	17	3	0	0	93
70	0	0	0	0	0	1	7	7	4	0	0	0	19

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	44	34	48	101	225	434	653	647	475	274	100	44	44	78	126	227	452	886	1539	2186	2661	2935	3035	3079
45	3	0	5	37	113	291	498	492	330	153	31	4	3	3	8	45	158	449	947	1439	1769	1922	1953	1957
50	0	0	0	4	44	168	345	340	198	67	3	0	0	0	0	4	48	216	561	901	1099	1166	1169	1169
55	0	0	0	0	7	72	198	195	92	22	0	0	0	0	0	0	7	79	277	472	564	586	586	586
60	0	0	0	0	0	22	81	83	24	0	0	0	0	0	0	0	0	22	103	186	210	210	210	210
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	29	29	37	69	138	260	392	390	271	160	61	33	29	58	95	164	302	562	954	1344	1615	1775	1836	1869

(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:
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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