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: ASH MOUNTAIN, CA **COOP ID: 040343**

Climate Division: CA 5 **NWS Call Sign:** **Elevation: 1,708 Feet** **Lat: 36˚29N** **Lon: 118˚50W**

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	58.1	36.0	47.1	84	1976	30	54.0	1986	20	1949	10	41.6	1972	557	0	.0	.0	26.8	.0	7.7	.0
Feb	61.7	39.0	50.4	85	1977	20	58.2	1991	22+	1989	7	46.2	1990	410	0	.0	.0	25.8	@	2.7	.0
Mar	64.6	41.6	53.1	86	1986	28	58.9	1997	26	1953	2	46.9	1991	377	8	.0	.0	29.6	.0	1.2	.0
Apr	70.4	45.2	57.8	94	1994	17	64.2	1977	28	1998	2	49.9	1975	251	35	.0	.4	29.7	.0	.6	.0
May	79.7	52.1	65.9	105	1984	29	73.9	1997	33	1964	6	57.1	1998	117	145	.2	5.7	31.0	.0	.0	.0
Jun	90.0	60.3	75.2	114	1961	22	80.3	1981	38	1955	1	69.2	1998	10	313	4.4	16.4	30.0	.0	.0	.0
Jul	97.2	66.2	81.7	113	1960	20	86.4	1996	42	1948	7	76.1	1987	0	518	12.2	27.6	31.0	.0	.0	.0
Aug	96.6	65.7	81.2	114	1996	14	84.5	1996	46	1976	17	72.5	1976	0	500	10.6	26.5	31.0	.0	.0	.0
Sep	90.6	59.7	75.2	112	1955	3	80.5	1991	37	1977	18	68.7	1986	12	316	4.4	17.7	30.0	.0	.0	.0
Oct	80.3	51.2	65.8	103+	1996	9	72.5	1991	30	1971	30	59.6	1984	107	130	.4	5.9	31.0	.0	.1	.0
Nov	65.9	41.3	53.6	93	1966	2	61.3	1995	25	1994	19	46.8	1994	353	11	.0	.0	28.9	.0	1.5	.0
Dec	58.8	35.9	47.4	82	1958	4	52.4	1979	17+	1990	23	41.3	1972	547	0	.0	.0	26.9	.0	7.0	.0
Ann	76.2	49.5	62.9	114+	Aug 1996	14	86.4	Jul 1996	17+	Dec 1990	23	41.3	Dec 1972	2741	1976	32.2	100.2	351.7	@	20.8	.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	4.97	4.76	4.02	1956	25	13.83	1980	.00	1976
Feb	4.72	3.31	5.71	1963	1	12.77	1998	.37	1988
Mar	4.95	4.49	2.73	1995	11	14.54	1991	.00	1972
Apr	2.14	1.80	3.15	1982	11	7.08	1982	.00+	1997
May	1.06	.64	3.01	1957	19	5.87	1995	.00+	1997
Jun	.42	.13	2.15	1998	11	4.48	1998	.00+	1994
Jul	.10	.00	.80	1992	13	1.36	1992	.00+	2000
Aug	.11	.00	1.21	1975	21	1.21	1975	.00+	1998
Sep	.67	.14	2.70	1982	26	4.64	1982	.00+	1996
Oct	1.42	1.12	3.00	1992	30	3.95	1992	.00+	1999
Nov	2.79	2.16	4.67	1950	19	8.11	1982	.00	1992
Dec	3.15	2.68	7.33	1966	6	8.39	1996	.00	1989
Ann	26.50	23.14	7.33	Dec 1966	6	14.54	Mar 1991	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	6.8	3.5	1.7
Feb	9.7	7.0	3.4	1.6
Mar	10.5	7.5	3.8	1.5
Apr	6.9	4.1	1.3	.4
May	3.8	2.2	.8	.1
Jun	1.4	.8	.2	.1
Jul	.6	.3	@	.0
Aug	.8	.2	.1	.1
Sep	2.1	1.0	.4	.2
Oct	3.6	2.5	1.0	.4
Nov	6.7	4.6	1.6	.8
Dec	7.3	4.6	2.3	1.3
Ann	63.1	41.6	18.4	8.2

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	.26	.71	1.47	2.20	2.98	3.85	4.87	6.13	7.85	10.68	13.45
Feb	.49	.84	1.49	2.14	2.85	3.65	4.59	5.76	7.36	10.02	12.61
Mar	.38	.91	1.70	2.43	3.18	4.01	4.95	6.11	7.66	10.19	12.63
Apr	.00	.13	.45	.77	1.13	1.54	2.03	2.64	3.49	4.92	6.33
May	.00	.02	.10	.23	.39	.60	.87	1.23	1.77	2.71	3.68
Jun	.00	.00	.00	.00	.01	.06	.18	.37	.69	1.31	1.98
Jul	.00	.00	.00	.00	.00	.00	.01	.06	.16	.34	.54
Aug	.00	.00	.00	.00	.00	.00	.00	.03	.14	.38	.66
Sep	.00	.00	.00	.00	.03	.13	.33	.63	1.12	2.06	3.07
Oct	.00	.00	.25	.51	.77	1.06	1.39	1.80	2.36	3.25	4.13
Nov	.07	.26	.63	1.03	1.47	1.99	2.61	3.41	4.51	6.38	8.24
Dec	.14	.41	.88	1.34	1.83	2.39	3.05	3.88	5.00	6.87	8.70
Ann	12.06	14.40	17.64	20.27	22.71	25.17	27.80	30.81	34.60	40.34	45.51

\+ 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	.4	.0	#	0	3.5	1979	28	5.0	1979	4	1979	28	#+	1999	.4	.2	@	.0	.0	.2	@	.0	.0
Feb	.1	.0	#	0	2.0	1989	4	2.0	1989	2	1989	4	#+	1996	.1	.1	.0	.0	.0	.1	.0	.0	.0
Mar	.2	.0	#	0	2.0	1976	3	2.0	1976	2	1976	3	#+	1991	.2	.2	.0	.0	.0	.1	.0	.0	.0
Apr	.1	.0	#	0	1.0	1975	26	1.0	1975	#+	1999	9	#+	1999	.1	@	.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	.6	.0	#	0	8.0	1975	28	10.0	1975	6	1985	12	#+	1994	.1	.1	.1	.1	.0	.2	.1	@	.0
Dec	.2	.0	#	0	2.0	1972	8	3.0	1972	2	1975	1	#+	1998	.1	.1	.0	.0	.0	@	.0	.0	.0
Ann	1.6	.0	N/A	N/A	8.0	Nov 1975	28	10.0	Nov 1975	6	Nov 1985	12	#+	Apr 1999	1.0	.7	.1	.1	.0	.6	.1	@	.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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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	5/08	4/28	4/21	4/15	4/09	4/03	3/28	3/21	3/11
32	4/13	3/30	3/21	3/12	3/05	2/25	2/17	2/07	1/25
28	3/03	2/16	2/04	1/25	1/14	1/02	12/14	0/00	0/00
24	2/06	1/08	12/01	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	11/02	11/08	11/12	11/15	11/18	11/21	11/25	11/28	12/04
32	11/09	11/17	11/22	11/27	12/01	12/05	12/10	12/15	12/22
28	12/02	12/12	12/19	12/25	1/01	1/10	1/24	0/00	0/00
24	12/24	1/10	2/02	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	254	243	235	229	222	216	210	202	191
32	315	300	289	279	270	262	252	241	226
28	>365	>365	>365	>365	>365	365	334	313	292
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	557	410	377	251	117	10	0	0	12	107	353	547	2741
60	402	275	242	151	56	2	0	0	3	48	228	400	1807
57	316	200	174	104	33	0	0	0	0	27	165	315	1334
55	260	155	137	77	23	0	0	0	0	17	129	262	1060
50	142	71	62	30	7	0	0	0	0	4	61	153	530
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	466	514	654	774	1052	1294	1541	1523	1294	1046	648	476	11282
55	13	25	78	161	361	604	828	810	604	350	87	25	3946
57	7	14	53	128	310	544	766	748	544	298	63	16	3491
60	0	5	27	85	240	456	673	655	457	226	36	8	2868
65	0	0	8	35	145	313	518	500	316	130	11	0	1976
70	0	0	0	12	75	189	364	348	194	63	2	0	1247

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	253	325	428	554	823	1074	1316	1296	1078	827	437	268	253	578	1006	1560	2383	3457	4773	6069	7147	7974	8411	8679
45	130	195	279	405	668	924	1161	1141	928	672	293	140	130	325	604	1009	1677	2601	3762	4903	5831	6503	6796	6936
50	51	95	155	270	516	774	1006	986	778	518	170	58	51	146	301	571	1087	1861	2867	3853	4631	5149	5319	5377
55	14	34	67	155	373	626	851	831	628	372	83	11	14	48	115	270	643	1269	2120	2951	3579	3951	4034	4045
60	0	6	17	74	244	478	696	676	480	238	29	0	0	6	23	97	341	819	1515	2191	2671	2909	2938	2938
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	147	184	237	330	519	687	829	825	686	517	254	156	147	331	568	898	1417	2104	2933	3758	4444	4961	5215	5371

(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

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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