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: IRON MOUNTAIN, CA **COOP ID: 044297**

Climate Division: CA 7 **NWS Call Sign:** **Elevation: 922 Feet** **Lat: 34˚09N** **Lon: 115˚07W**

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	65.9	43.5	54.7	84	1987	27	60.1	1986	22	1971	5	47.2	1979	326	6	.0	.0	30.5	.0	1.1	.0
Feb	71.4	47.3	59.4	92	1986	27	64.3	1991	27	1989	6	54.2	1979	176	18	.0	.2	27.8	.0	.4	.0
Mar	77.4	51.7	64.6	98+	1997	22	72.5	1972	31+	1962	2	57.4	1991	118	104	.0	2.5	31.0	.0	.0	.0
Apr	85.5	58.2	71.9	105+	1996	27	80.0	1989	36	1993	7	64.5	1975	35	240	1.5	10.0	30.0	.0	.0	.0
May	94.4	66.4	80.4	113+	2000	30	88.9	1997	42	1991	2	73.4	1977	5	481	7.8	22.3	31.0	.0	.0	.0
Jun	104.4	75.6	90.0	121+	1994	30	95.1	1981	53	1965	3	85.1	1991	0	749	21.9	29.0	30.0	.0	.0	.0
Jul	109.0	81.0	95.0	122	1998	17	98.3	1996	64	1993	16	90.5	1993	0	931	29.6	30.9	31.0	.0	.0	.0
Aug	107.3	79.4	93.4	121+	1995	2	98.0	1995	60	1971	11	90.1	1983	0	880	28.0	30.7	31.0	.0	.0	.0
Sep	101.0	73.0	87.0	119	1950	2	91.4	1995	55	1986	15	79.9	1985	0	659	18.2	27.6	30.0	.0	.0	.0
Oct	89.2	61.1	75.2	112	1980	2	81.9	1988	33	1971	31	68.9	1971	13	328	3.8	15.2	31.0	.0	.0	.0
Nov	75.0	49.9	62.5	94+	1988	1	68.9	1995	22	1993	6	55.5	1994	146	69	.0	.6	30.0	.0	.2	.0
Dec	65.9	43.1	54.5	83+	1958	13	61.4	1980	22	1972	11	49.4	1990	337	11	.0	.0	30.4	.0	1.1	.0
Ann	87.2	60.9	74.1	122	Jul 1998	17	98.3	Jul 1996	22+	Nov 1993	6	47.2	Jan 1979	1156	4476	110.8	169.0	363.7	.0	2.8	.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

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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	.58	.29	1.28	1949	13	3.15	1993	.00+	1999
Feb	.47	.23	1.00	1976	9	2.01	1998	.00+	1997
Mar	.51	.28	1.10	1983	2	3.18	1992	.00+	1999
Apr	.11	.01	.93	1965	4	.72	1999	.00+	2000
May	.11	.02	.44	1982	4	.55	1987	.00+	2000
Jun	.05	.00	1.08	1972	7	1.24	1972	.00+	2000
Jul	.28	.09	1.40	1979	20	1.75	1979	.00+	2000
Aug	.41	.24	1.65	1951	29	2.10	2000	.00+	1997
Sep	.29	.04	1.25	1997	26	2.45	1976	.00+	1996
Oct	.30	.08	2.08	1968	4	1.26	1972	.00+	1999
Nov	.21	.07	.99	1960	6	1.08	1985	.00+	1999
Dec	.46	.18	1.46	1962	18	2.43	1984	.00+	2000
Ann	3.78	3.96	2.08	Oct 1968	4	3.18	Mar 1992	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.6	1.5	.3	@
Feb	3.2	1.2	.3	@
Mar	3.3	1.5	.2	.1
Apr	1.2	.4	.0	.0
May	1.0	.4	.0	.0
Jun	.2	.1	@	@
Jul	1.6	.6	.1	.1
Aug	1.9	1.0	.3	.1
Sep	1.5	.8	.2	.1
Oct	1.5	.7	.2	.0
Nov	1.3	.6	.1	.0
Dec	2.3	1.2	.2	@
Ann	22.6	10.0	1.9	.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	.00	.00	.02	.08	.16	.28	.44	.66	.99	1.58	2.19
Feb	.00	.00	.00	.06	.14	.25	.38	.55	.81	1.25	1.70
Mar	.00	.00	.00	.07	.16	.28	.42	.61	.88	1.35	1.83
Apr	.00	.00	.00	.00	.00	.01	.04	.09	.18	.35	.54
May	.00	.00	.00	.00	.00	.00	.05	.11	.19	.34	.48
Jun	**	**	**	**	**	**	**	**	**	**	**
Jul	.00	.00	.00	.00	.03	.09	.18	.30	.48	.81	1.16
Aug	.00	.00	.00	.04	.11	.20	.32	.48	.71	1.11	1.52
Sep	.00	.00	.00	.00	.01	.05	.12	.25	.47	.89	1.36
Oct	.00	.00	.00	.01	.05	.11	.19	.32	.51	.87	1.24
Nov	.00	.00	.00	.00	.02	.08	.15	.24	.38	.62	.86
Dec	.00	.00	.00	.00	.05	.15	.29	.49	.80	1.36	1.94
Ann	1.15	1.51	2.04	2.50	2.95	3.41	3.92	4.52	5.29	6.49	7.61

\+ 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:
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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	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.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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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	3/04	2/17	2/06	1/28	1/19	1/10	12/30	12/15	0/00
32	1/30	1/18	1/09	12/31	12/20	0/00	0/00	0/00	0/00
28	1/06	12/09	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	11/25	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	11/14	11/24	12/01	12/08	12/14	12/21	12/29	1/10	0/00
32	11/28	12/12	12/23	1/03	1/19	0/00	0/00	0/00	0/00
28	12/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	>365	>365	>365	347	328	313	299	284	264
32	>365	>365	>365	>365	>365	>365	355	335	316
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	326	176	118	35	5	0	0	0	0	13	146	337	1156
60	192	83	51	12	0	0	0	0	0	3	71	208	620
57	129	44	26	5	0	0	0	0	0	1	41	147	393
55	96	25	17	2	0	0	0	0	0	0	27	113	280
50	33	5	4	0	0	0	0	0	0	0	7	46	95
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	703	766	1009	1195	1500	1739	1954	1903	1649	1338	913	697	15366
55	86	147	313	507	787	1049	1241	1190	959	625	250	97	7251
57	58	109	261	450	725	989	1179	1128	899	563	204	69	6634
60	27	64	192	367	632	899	1086	1035	809	472	144	37	5764
65	6	18	104	240	481	749	931	880	659	328	69	11	4476
70	0	3	44	142	339	599	776	725	509	203	25	1	3366

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	458	568	758	958	1253	1497	1703	1655	1409	1088	675	449	458	1026	1784	2742	3995	5492	7195	8850	10259	11347	12022	12471
45	307	423	603	808	1098	1347	1548	1500	1259	933	525	297	307	730	1333	2141	3239	4586	6134	7634	8893	9826	10351	10648
50	170	282	450	658	943	1197	1393	1345	1109	779	377	164	170	452	902	1560	2503	3700	5093	6438	7547	8326	8703	8867
55	66	156	302	508	788	1047	1238	1190	959	625	236	64	66	222	524	1032	1820	2867	4105	5295	6254	6879	7115	7179
60	13	65	172	361	633	897	1083	1035	809	473	129	11	13	78	250	611	1244	2141	3224	4259	5068	5541	5670	5681
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	254	331	468	617	806	930	1043	1019	887	704	412	253	254	585	1053	1670	2476	3406	4449	5468	6355	7059	7471	7724

(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