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: MOUNT HEBRON RNG STN, CA **COOP ID: 045941**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 4,250 Feet** **Lat: 41˚47N** **Lon: 122˚02W**

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	63	1986	13	.0	0	-29	1962	22	.0+	0	0	0	.0	.0	5.0	4.1	28.4	2.1
Feb	.0	.0	.0	76	1986	28	.0	0	-26	1989	5	.0	0	0	0	.0	.0	10.4	1.7	25.2	.8
Mar	.0	.0	.0	78	1987	31	.0	0	-6	1974	8	.0	0	0	0	.0	.0	18.7	.5	26.0	.2
Apr	.0	.0	.0	88	1988	12	.0	0	4	1975	15	.0	0	0	0	.0	.0	23.7	.0	20.9	.0
May	.0	.0	.0	91+	2001	31	.0	0	11	1968	6	.0+	0	0	0	.0	.2	29.4	.0	15.6	.0
Jun	.0	.0	.0	99	1992	23	.0	0	20	1954	1	.0	0	0	0	.0	1.1	29.8	.0	5.2	.0
Jul	.0	.0	.0	100	1971	29	.0	0	25	1955	2	.0	0	0	0	@	6.0	31.0	.0	.9	.0
Aug	.0	.0	.0	102+	1981	9	.0	0	24	1972	16	.0	0	0	0	.1	5.6	31.0	.0	1.4	.0
Sep	.0	.0	.0	100	1955	1	.0	0	14	1984	27	.0	0	0	0	.0	1.2	29.8	.0	9.5	.0
Oct	.0	.0	.0	88+	1980	6	.0	0	-1	1972	30	.0	0	0	0	.0	.0	28.2	.0	23.9	@
Nov	.0	.0	.0	76+	1949	4	.0	0	-13	1955	15	.0	0	0	0	.0	.0	14.6	.5	25.6	.5
Dec	.0	.0	.0	65	1958	12	.0	0	-22	1972	9	.0	0	0	0	.0	.0	5.6	3.0	28.5	1.9
Ann	.0	.0	.0	102+	Aug 1981	9	-99.9	0	-29	Jan 1962	22	99.9	0	0	0	.1	14.1	257.2	9.8	211.1	5.5

\+ 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	1.63	1.28	1.69	2000	11	3.83	2000	.01	1985
Feb	1.18	.87	2.92	1995	1	4.29	1986	.23	1988
Mar	1.34	.99	2.24	1967	11	5.02	1995	.23	1988
Apr	.72	.74	2.50	1958	1	1.93	1995	.00	1987
May	1.04	.96	1.81	1956	31	3.55	1971	.00	1976
Jun	.88	.63	1.42	1961	2	2.14	1997	.00	1973
Jul	.39	.15	.91	1998	24	1.80	1987	.00+	1994
Aug	.53	.25	1.70	1959	20	3.21	1976	.00+	1998
Sep	.63	.54	1.70	1957	27	2.76	1985	.00+	1999
Oct	.93	.78	1.53	1962	10	3.21	1979	.01	1988
Nov	1.60	1.13	2.77	1961	25	5.74	1981	.28	1993
Dec	1.64	1.05	2.95	1964	23	5.67	1981	.07	1989
Ann	12.51	12.57	2.95	Dec 1964	23	5.74	Nov 1981	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.3	3.4	.5	.1
Feb	6.9	3.4	.4	.1
Mar	8.5	4.0	.5	.1
Apr	5.8	2.4	.2	.0
May	5.8	2.8	.5	@
Jun	4.7	2.3	.4	@
Jul	2.5	1.0	.2	.0
Aug	2.6	1.5	.3	.1
Sep	3.4	1.6	.3	@
Oct	4.8	2.6	.3	.1
Nov	7.2	3.9	.8	.1
Dec	7.5	3.1	.7	@
Ann	67.0	32.0	5.1	.6

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	.15	.26	.48	.71	.96	1.24	1.57	1.99	2.56	3.52	4.45
Feb	.20	.30	.47	.64	.80	.98	1.19	1.44	1.77	2.31	2.83
Mar	.19	.30	.50	.68	.88	1.09	1.34	1.64	2.04	2.71	3.34
Apr	.07	.15	.27	.37	.48	.60	.73	.89	1.10	1.44	1.77
May	.03	.11	.25	.40	.56	.76	.99	1.28	1.68	2.36	3.03
Jun	.02	.08	.20	.32	.47	.63	.82	1.07	1.42	2.00	2.59
Jul	.00	.00	.01	.04	.10	.18	.29	.44	.67	1.07	1.49
Aug	.00	.00	.00	.06	.15	.27	.42	.62	.91	1.42	1.95
Sep	.00	.00	.12	.24	.36	.48	.62	.80	1.04	1.42	1.80
Oct	.05	.10	.21	.34	.48	.65	.86	1.12	1.49	2.13	2.77
Nov	.21	.34	.57	.79	1.03	1.29	1.58	1.95	2.45	3.26	4.04
Dec	.13	.24	.45	.68	.93	1.22	1.56	2.00	2.60	3.62	4.62
Ann	7.05	8.02	9.30	10.31	11.23	12.14	13.09	14.17	15.50	17.47	19.22

\+ 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	2.5	2.0	#	0	3.0	1973	19	7.0	1973	8	1975	10	4	1975	1.2	.8	.2	.0	.0	.3	.2	.0	.0
Feb	2.5	3.0	#	0	3.0	1976	19	6.5	1971	12	1975	6	1	1975	2.1	1.1	.2	.0	.0	.3	.0	.0	.0
Mar	2.7	.0	#	0	11.0	1971	12	12.0	1971	11	1971	12	3	1974	.7	.4	.3	.1	.1	.7	.2	.1	.1
Apr	1.5	.0	#	0	8.0	1978	6	10.0	1978	#+	1974	10	#+	1974	.3	.3	.1	.1	.0	.0	.0	.0	.0
May	.1	.0	0	0	1.0	1972	8	1.0+	1977	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Jun	.1	.0	0	0	1.0	1976	3	1.0	1976	0	0	0	0	0	.1	.1	.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	3	1985	21	#	1985	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	2.3	.0	#	0	10.0	1977	21	10.0	1977	5	1973	19	#+	1975	.6	.4	.3	.3	.1	.2	.1	.1	.0
Dec	4.1	4.5	#	0	4.5	1976	9	8.3	1972	6	1972	13	2	1972	1.3	.9	.3	.0	.0	.9	.7	.5	.0
Ann	15.8	9.5	N/A	N/A	11.0	Mar 1971	12	12.0	Mar 1971	12	Feb 1975	6	4	Jan 1975	6.4	4.1	1.4	.5	.2	2.4	1.2	.7	.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

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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	8/01	7/27	7/22	7/19	7/16	7/12	7/09	7/04	6/29
32	7/23	7/15	7/10	7/05	7/01	6/27	6/22	6/17	6/09
28	6/24	6/18	6/14	6/10	6/07	6/03	5/31	5/26	5/21
24	6/01	5/26	5/22	5/19	5/16	5/12	5/09	5/05	4/30
20	5/24	5/16	5/10	5/05	4/30	4/26	4/21	4/15	4/07
16	5/04	4/23	4/15	4/08	4/01	3/26	3/19	3/11	2/27

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	8/02	8/08	8/11	8/15	8/18	8/21	8/24	8/28	9/02
32	8/06	8/13	8/18	8/22	8/26	8/29	9/03	9/07	9/14
28	8/26	9/02	9/06	9/10	9/14	9/18	9/22	9/27	10/03
24	9/09	9/16	9/20	9/24	9/28	10/01	10/05	10/10	10/16
20	9/23	9/30	10/05	10/10	10/14	10/18	10/22	10/27	11/03
16	10/08	10/16	10/23	10/28	11/02	11/07	11/12	11/19	11/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	57	49	43	37	32	28	22	16	8
32	88	76	68	61	55	48	41	33	22
28	125	116	109	104	98	93	87	81	71
24	158	150	144	139	134	130	125	119	111
20	203	190	181	173	166	158	150	141	128
16	258	243	232	223	214	205	196	185	170

***** 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	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	6	34	74	153	302	506	726	699	483	224	45	4	6	40	114	267	569	1075	1801	2500	2983	3207	3252	3256
45	0	5	23	74	172	359	571	545	339	116	11	0	0	5	28	102	274	633	1204	1749	2088	2204	2215	2215
50	0	1	0	26	83	225	419	392	205	41	0	0	0	1	1	27	110	335	754	1146	1351	1392	1392	1392
55	0	0	0	0	32	114	271	247	105	11	0	0	0	0	0	0	32	146	417	664	769	780	780	780
60	0	0	0	0	6	45	146	122	33	0	0	0	0	0	0	0	6	51	197	319	352	352	352	352
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	5	40	87	150	255	370	498	492	389	246	56	5	5	45	132	282	537	907	1405	1897	2286	2532	2588	2593

(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