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: RED BLUFF AP, CA **COOP ID: 047292**

Climate Division: CA 2 **NWS Call Sign: RBL** **Elevation: 349 Feet** **Lat: 40˚09N** **Lon: 122˚15W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Extremes Year	Extremes Day	Extremes Highest Month(1) Mean	Extremes Year	Extremes Lowest Daily(2)	Extremes Year	Extremes Day	Extremes Lowest Month(1) Mean	Extremes Year	Degree Days (1) Base Temp 65 Heating	Degree Days (1) Base Temp 65 Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	55.7	37.7	46.7	78+	1989	29	51.2	1978	17	1937	9	43.3	1973	566	0	.0	.0	24.5	.0	7.0	.0
Feb	60.9	40.8	50.9	85	1977	14	54.8	1991	21+	1989	7	46.4	1989	397	0	.0	.0	26.1	.1	2.7	.0
Mar	64.8	43.7	54.3	92	1960	23	58.8	1978	26	1966	4	49.3	1991	340	6	.0	.0	30.0	.0	.9	.0
Apr	71.9	47.0	59.5	98	1947	14	65.4	1990	28	1936	1	52.7	1975	203	36	.0	.7	29.9	.0	.2	.0
May	81.8	54.1	68.0	108+	1984	28	74.4	1992	33	1942	10	60.1	1998	68	158	1.0	7.4	31.0	.0	.0	.0
Jun	90.7	61.4	76.1	114	1950	29	81.8	1985	42	1952	12	70.9	1980	5	337	5.9	16.6	30.0	.0	.0	.0
Jul	97.6	65.5	81.6	119	1972	15	87.3	1988	51	1987	22	74.0	1987	0	514	13.0	26.4	31.0	.0	.0	.0
Aug	96.0	63.4	79.7	121	1981	7	82.7	1978	50+	1947	22	76.9	1976	0	456	10.0	24.8	31.0	.0	.0	.0
Sep	90.5	59.3	74.9	118	1988	4	79.9	1991	42+	1986	27	65.8	1986	11	308	4.3	17.6	30.0	.0	.0	.0
Oct	79.1	51.1	65.1	107	1980	4	71.6	1978	30+	1946	29	60.1	1984	103	107	.9	5.3	31.0	.0	.0	.0
Nov	63.1	42.3	52.7	93	1949	1	58.4	1976	24+	1985	21	46.9	1994	373	4	.0	.0	28.7	.0	1.8	.0
Dec	55.4	37.1	46.3	83	1980	15	50.3	1980	20+	1972	10	40.5	1972	581	0	.0	.0	24.2	.1	7.9	.0
Ann	75.6	50.3	63.0	121	Aug 1981	7	87.3	Jul 1988	17	Jan 1937	9	40.5	Dec 1972	2647	1926	35.1	98.8	347.4	.2	20.5	.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: 1933-2001

(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	4.82	3.91	3.55	1995	8	21.47	1995	.22	1976
Feb	4.01	3.08	2.50	1943	23	12.58	1998	.13	1971
Mar	3.66	2.91	2.37	1995	9	10.23	1995	.58+	1994
Apr	1.39	1.26	1.77	1947	3	4.35	1978	.00	1987
May	1.09	.80	1.65	1986	3	3.29	1977	.00+	1976
Jun	.44	.25	1.20	1937	16	1.63	1982	.00+	1990
Jul	.10	.00	.67	2000	4	.70	2000	.00+	1999
Aug	.14	.01	1.01	1968	20	.82	1983	.00+	1998
Sep	.68	.18	2.33	1989	17	4.95	1989	.00+	1999
Oct	1.35	.83	3.41	1989	24	5.17	1989	.00	1978
Nov	2.92	2.63	2.56	1966	19	7.37	1973	.09	1995
Dec	3.47	2.92	3.37	1960	1	10.29	1983	.00	1989
Ann	24.07	21.74	3.55	Jan 1995	8	21.47	Jan 1995	.00+	Sep 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	7.9	3.5	1.2
Feb	10.3	7.1	3.2	1.2
Mar	11.0	7.0	2.5	.6
Apr	6.8	3.3	.6	.2
May	5.0	3.3	1.0	.2
Jun	2.7	1.1	.3	@
Jul	.5	.3	@	.0
Aug	.8	.4	.0	.0
Sep	2.3	1.5	.5	.1
Oct	4.6	2.4	.9	.4
Nov	8.8	6.0	2.0	.4
Dec	9.8	6.3	2.2	.7
Ann	74.4	46.6	16.7	5.0

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	.44	.78	1.43	2.10	2.83	3.66	4.64	5.88	7.57	10.40	13.17
Feb	.23	.45	.94	1.48	2.10	2.82	3.70	4.84	6.43	9.13	11.83
Mar	.59	.91	1.44	1.95	2.47	3.03	3.68	4.47	5.53	7.24	8.88
Apr	.07	.19	.40	.61	.83	1.07	1.36	1.71	2.20	3.01	3.79
May	.00	.01	.08	.20	.36	.57	.85	1.24	1.82	2.87	3.96
Jun	.00	.00	.00	.07	.16	.26	.38	.54	.77	1.16	1.55
Jul	.00	.00	.00	.00	.00	.00	.00	.00	.09	.34	.61
Aug	.00	.00	.00	.00	.00	.00	.04	.11	.22	.45	.70
Sep	.00	.00	.00	.00	.10	.25	.47	.76	1.20	1.98	2.77
Oct	.01	.04	.15	.31	.51	.77	1.11	1.57	2.24	3.44	4.67
Nov	.15	.32	.66	1.05	1.50	2.03	2.68	3.51	4.69	6.69	8.69
Dec	.16	.46	.98	1.49	2.03	2.65	3.37	4.27	5.50	7.55	9.55
Ann	10.91	13.04	15.99	18.38	20.61	22.85	25.25	28.00	31.45	36.69	41.41

\+ 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: 1933-2001
(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	1.0	.0	#	0	4.8	1973	8	4.9	1972	4	1973	8	#	1973	.4	.3	.2	.0	.0	.1	@	.0	.0
Feb	.0	.0	0	0	.3	1994	21	.3	1994	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	#	0	8.0	1976	2	8.0	1976	3	1976	3	#	1976	.0	.0	@	@	.0	@	@	.0	.0
Apr	#	.0	0	0	#	1975	14	#	1975	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	#	1995	.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	.1	.0	#	0	1.0	1977	20	2.0	1977	2	1977	21	#	1977	.1	.1	.0	.0	.0	@	.0	.0	.0
Dec	1.2	.0	#	0	9.0	1972	5	10.7	1972	3	1972	6	#	1988	.4	.2	.1	.1	.0	.1	@	.0	.0
Ann	2.6	.0	N/A	N/A	9.0	Dec 1972	5	10.7	Dec 1972	4	Jan 1973	8	#+	May 1995	.9	.6	.3	.1	.0	.2	.0	.0	.0

+ 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	4/26	4/15	4/08	4/01	3/26	3/20	3/13	3/05	2/23
32	3/29	3/17	3/08	3/01	2/22	2/15	2/07	1/29	1/17
28	2/19	2/07	1/30	1/23	1/16	1/09	12/31	12/20	0/00
24	1/13	12/27	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	10/30	11/04	11/07	11/10	11/13	11/16	11/19	11/22	11/27
32	11/10	11/17	11/22	11/27	12/01	12/05	12/09	12/14	12/21
28	11/24	12/03	12/09	12/15	12/21	12/27	1/03	1/14	0/00
24	12/13	1/01	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	267	255	246	238	231	224	217	208	196
32	320	307	297	289	281	274	266	256	243
28	>365	>365	365	347	337	329	321	312	301
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	566	397	340	203	68	5	0	0	11	103	373	581	2647
60	411	261	204	109	24	0	0	0	2	43	240	427	1721
57	319	186	139	67	11	0	0	0	0	22	171	337	1252
55	261	142	104	45	6	0	0	0	0	12	131	280	981
50	129	60	37	14	1	0	0	0	0	2	58	154	455
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	457	527	689	824	1113	1322	1537	1479	1287	1027	621	442	11325
55	4	26	80	179	407	632	824	766	597	326	62	9	3912
57	1	14	53	141	350	572	762	704	537	274	42	4	3454
60	0	5	25	93	270	482	669	611	449	202	21	0	2827
65	0	0	6	36	158	337	514	456	308	107	4	0	1926
70	0	0	0	11	77	207	363	302	185	47	0	0	1192

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	220	323	450	590	866	1087	1293	1236	1054	783	384	218	220	543	993	1583	2449	3536	4829	6065	7119	7902	8286	8504
45	104	184	297	440	711	937	1138	1081	904	628	241	97	104	288	585	1025	1736	2673	3811	4892	5796	6424	6665	6762
50	30	78	157	293	556	787	983	926	754	473	121	27	30	108	265	558	1114	1901	2884	3810	4564	5037	5158	5185
55	2	20	63	168	408	637	828	771	604	324	44	3	2	22	85	253	661	1298	2126	2897	3501	3825	3869	3872
60	0	1	17	72	268	488	673	616	455	193	9	0	0	1	18	90	358	846	1519	2135	2590	2783	2792	2792
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	105	168	244	344	540	688	802	766	657	474	210	106	105	273	517	861	1401	2089	2891	3657	4314	4788	4998	5104

(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