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: WILDROSE R S, CA **COOP ID: 049671**

Climate Division: CA 7 **NWS Call Sign:** **Elevation: 4,100 Feet** **Lat: 36˚16N** **Lon: 117˚11W**

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	52.8	30.4	41.6	73	1971	18	47.8	1986	5	1974	3	35.4	1974	726	0	.0	.0	19.0	.4	20.1	.0
Feb	56.6	33.0	44.8	75	1996	7	51.6	1995	11+	1990	15	40.4	1998	566	0	.0	.0	21.9	.2	13.5	.0
Mar	62.5	36.1	49.3	87	1986	23	56.8	1972	13	1971	5	44.1	1991	489	3	.0	.0	29.2	.0	9.2	.0
Apr	71.0	41.2	56.1	91	1989	7	64.5	1989	18	1976	4	47.8	1975	300	33	.0	.1	29.6	.0	3.8	.0
May	80.2	49.4	64.8	102	1984	27	71.7	1997	25	1977	8	56.0	1977	133	127	.1	3.4	30.9	.0	.4	.0
Jun	90.5	57.8	74.2	105+	1999	30	78.6	1981	34	1995	7	68.2	1998	14	287	1.9	16.8	30.0	.0	.0	.0
Jul	96.1	64.0	80.1	110+	1998	18	84.0	1972	46	1987	18	76.3	1983	0	466	6.4	27.6	31.0	.0	.0	.0
Aug	94.0	62.9	78.5	107	1997	6	82.0	1986	44	1975	29	72.6	1976	0	417	4.7	24.2	31.0	.0	.0	.0
Sep	86.6	57.1	71.9	100+	1993	10	77.1	1979	36	1986	26	64.0	1985	21	228	.2	9.7	30.0	.0	.0	.0
Oct	74.4	47.3	60.9	94+	1996	9	68.0	1988	22+	1984	18	53.1	1984	189	60	.0	.8	30.9	.0	1.3	.0
Nov	60.9	36.1	48.5	80+	1999	3	55.0	1995	8	1975	29	42.3	1994	497	2	.0	.0	26.8	.0	9.8	.0
Dec	53.4	29.7	41.6	79	1985	24	49.5	1980	4	1990	22	35.4	1987	728	0	.0	.0	20.2	.6	22.4	.0
Ann	73.3	45.4	59.4	110+	Jul 1998	18	84.0	Jul 1972	4	Dec 1990	22	35.4+	Dec 1987	3663	1623	13.3	82.6	330.5	1.2	80.5	.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: 1969-2000

(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	1.02	.85	1.80	1977	3	4.04	1995	.00+	1998
Feb	1.05	.41	2.80	1998	23	7.11	1998	.00+	1999
Mar	1.13	.83	2.00	1995	11	4.88	1983	.00+	1997
Apr	.33	.12	1.35	1988	15	2.43	1999	.00+	1996
May	.44	.17	1.63	1977	9	2.41	1977	.00+	1999
Jun	.13	.02	.65	1987	6	.73	1972	.00+	1999
Jul	.32	.07	.90	1999	13	1.93	1999	.00+	2000
Aug	.63	.16	5.02	1984	15	8.36	1984	.00+	1997
Sep	.48	.23	1.38	1976	24	3.61	1976	.00+	1996
Oct	.31	.14	.82	1974	8	1.91	1974	.00+	1999
Nov	.36	.17	1.17	1970	29	1.48	1984	.00+	1999
Dec	.55	.26	1.60	1992	7	2.32	1992	.00+	2000
Ann	6.75	6.01	5.02	Aug 1984	15	8.36	Aug 1984	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.1	2.2	.7	.1
Feb	3.3	2.5	.6	.2
Mar	4.0	2.4	.7	.3
Apr	1.8	.9	.1	@
May	1.9	1.0	.2	.1
Jun	.9	.5	@	.0
Jul	1.5	.7	.2	.0
Aug	2.0	1.0	.3	.1
Sep	1.8	1.2	.3	.1
Oct	1.7	.8	.1	.0
Nov	1.8	1.1	.2	.0
Dec	2.5	1.3	.3	.1
Ann	26.3	15.6	3.7	1.0

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	.00	.00	.00	.10	.26	.48	.77	1.17	1.75	2.80	3.87
Feb	.00	.00	.00	.09	.27	.51	.82	1.24	1.84	2.89	3.96
Mar	.00	.00	.10	.28	.48	.72	1.00	1.38	1.91	2.80	3.70
Apr	.00	.00	.00	.00	.03	.10	.20	.34	.56	.97	1.40
May	.00	.00	.00	.00	.08	.18	.32	.51	.78	1.26	1.74
Jun	.00	.00	.00	.00	.00	.02	.06	.13	.23	.42	.61
Jul	.00	.00	.00	.00	.00	.04	.15	.32	.56	1.01	1.47
Aug	.00	.00	.00	.00	.02	.11	.29	.57	1.03	1.93	2.90
Sep	.00	.00	.00	.03	.10	.21	.35	.54	.83	1.35	1.88
Oct	.00	.00	.00	.03	.08	.14	.23	.35	.53	.85	1.17
Nov	.00	.00	.00	.01	.08	.16	.27	.42	.64	1.02	1.41
Dec	.00	.00	.00	.01	.08	.20	.36	.59	.94	1.58	2.24
Ann	2.02	2.66	3.62	4.44	5.25	6.08	7.00	8.08	9.48	11.67	13.70

\+ 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: 1969-2000
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.7	.0	1	0
Feb	.1	.0	#	0
Mar	.4	.0	#	0
Apr	.2	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.1	.0	0	0
Dec	.2	.0	0	0
Ann	1.7	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	12.0	1990	19	12.0	1990	14	1990	19	14	1990
Feb	1.0	1990	16	1.0+	1990	2	1979	1	#+	1990
Mar	6.0	1991	27	6.0+	1991	3	1991	27	#+	1991
Apr	2.5	1999	3	2.5	1999	3	1998	1	#+	1998
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	1.0	1982	10	1.0	1982	0	0	0	0	0
Dec	1.2	1974	28	2.2	1974	0	0	0	0	0
Ann	12.0	Jan 1990	19	12.0	Jan 1990	14	Jan 1990	19	14	Jan 1990

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	.1	.1	.1
Feb	.1	.1	.0	.0	.0
Mar	.3	.3	.1	.1	.0
Apr	.1	.1	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.1	.1	.0	.0	.0
Dec	.2	.2	.0	.0	.0
Ann	1.1	1.0	.2	.2	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	@	.0	.0	.0
Mar	.1	@	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.1	@	.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	5/31	5/22	5/16	5/11	5/06	5/01	4/26	4/19	4/11
32	5/16	5/05	4/28	4/22	4/16	4/10	4/03	3/27	3/17
28	4/26	4/16	4/08	4/01	3/26	3/20	3/13	3/06	2/23
24	4/04	3/21	3/12	3/04	2/24	2/16	2/07	1/28	1/12
20	3/11	2/26	2/15	2/06	1/28	1/17	1/01	0/00	0/00
16	2/17	2/04	1/25	1/14	12/26	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	10/12	10/17	10/20	10/24	10/26	10/29	11/02	11/05	11/10
32	10/17	10/24	10/28	11/01	11/05	11/09	11/13	11/17	11/24
28	11/02	11/08	11/13	11/17	11/21	11/24	11/28	12/03	12/10
24	11/04	11/14	11/22	11/28	12/04	12/11	12/18	12/27	1/13
20	11/21	12/02	12/10	12/17	12/25	1/04	1/21	0/00	0/00
16	12/13	12/22	12/30	1/08	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	205	194	186	179	173	167	160	152	141
32	241	228	218	210	202	195	187	177	164
28	279	266	255	247	239	231	222	212	198
24	>365	332	312	298	286	274	261	247	227
20	>365	>365	>365	>365	>365	320	302	288	270
16	>365	>365	>365	>365	>365	>365	>365	349	324

***** 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	726	566	489	300	133	14	0	0	21	189	497	728	3663
60	571	426	344	194	67	3	0	0	5	101	357	573	2641
57	478	343	264	143	41	1	0	0	1	64	279	482	2096
55	421	291	216	113	28	0	0	0	0	45	232	425	1771
50	278	169	120	53	10	0	0	0	0	15	134	286	1065
32	13	1	0	0	0	0	0	0	0	0	2	18	34

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	310	359	537	723	1017	1263	1489	1440	1196	895	497	314	10040
55	5	5	40	146	332	574	776	727	507	227	37	7	3383
57	0	1	26	115	283	514	714	665	448	184	24	2	2976
60	0	0	13	77	217	427	621	572	361	128	11	0	2427
65	0	0	3	33	127	287	466	417	228	60	2	0	1623
70	0	0	0	12	62	168	312	268	121	21	0	0	964

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	103	157	293	477	764	1020	1235	1186	943	632	255	94	103	260	553	1030	1794	2814	4049	5235	6178	6810	7065	7159
45	40	68	161	336	610	870	1080	1031	793	481	143	33	40	108	269	605	1215	2085	3165	4196	4989	5470	5613	5646
50	6	20	72	209	458	720	925	876	643	335	65	2	6	26	98	307	765	1485	2410	3286	3929	4264	4329	4331
55	0	0	25	106	315	570	770	721	494	204	22	1	0	0	25	131	446	1016	1786	2507	3001	3205	3227	3228
60	0	0	0	40	194	424	615	566	350	103	2	0	0	0	0	40	234	658	1273	1839	2189	2292	2294	2294
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	69	102	196	316	494	649	777	761	613	393	161	69	69	171	367	683	1177	1826	2603	3364	3977	4370	4531	4600

(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