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: GEORGETOWN R S, CA **COOP ID: 043384**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 3,001 Feet** **Lat: 38˚56N** **Lon: 120˚48W**

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	76	1984	30	.0	0	11	1982	22	.0	0	0	0	.0	.0	19.1	.1	13.7	.0
Feb	.0	.0	.0	78+	1996	13	.0	0	15+	1989	7	.0	0	0	0	.0	.0	19.7	.2	10.5	.0
Mar	.0	.0	.0	82	1984	29	.0	0	15	1971	1	.0	0	0	0	.0	.0	23.6	@	8.8	.0
Apr	.0	.0	.0	88+	1989	9	.0	0	20	1963	2	.0	0	0	0	.0	.0	27.0	.0	4.3	.0
May	.0	.0	.0	101	1984	29	.0	0	29+	1974	18	.0	0	0	0	@	.7	30.2	.0	.7	.0
Jun	.0	.0	.0	100+	2000	15	.0	0	31+	1982	5	.0	0	0	0	.1	6.6	30.0	.0	.1	.0
Jul	.0	.0	.0	107	1972	15	.0	0	39	2000	4	.0	0	0	0	1.2	16.0	31.0	.0	.0	.0
Aug	.0	.0	.0	106+	1998	5	.0	0	39	1968	20	.0	0	0	0	2.1	16.2	31.0	.0	.0	.0
Sep	.0	.0	.0	104+	1998	3	.0	0	34	1972	11	.0	0	0	0	.5	9.3	29.9	.0	.0	.0
Oct	.0	.0	.0	100	2001	3	.0	0	23	1971	29	.0	0	0	0	.0	2.0	30.5	.0	.8	.0
Nov	.0	.0	.0	84+	1976	5	.0	0	21+	2001	27	.0	0	0	0	.0	.0	24.6	.0	5.9	.0
Dec	.0	.0	.0	79	1985	26	.0	0	9	1972	11	.0	0	0	0	.0	.0	19.3	.3	12.0	.0
Ann	.0	.0	.0	107	Jul 1972	15	-99.9	0	9	Dec 1972	11	99.9	0	0	0	3.9	50.8	315.9	.6	56.8	.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	10.00	9.76	10.68	1997	3	25.81	1997	.57	1976
Feb	8.92	7.75	8.91	2000	15	29.36	1986	.70	1997
Mar	8.49	7.65	3.82	1949	3	21.96	1991	.68	1994
Apr	3.90	2.91	4.45	1982	11	10.83	1978	.18	1977
May	1.85	1.31	2.68	2000	8	7.88	1998	.00+	1999
Jun	.71	.35	1.85	1995	15	2.81	1995	.00+	1999
Jul	.22	.00	3.92	1974	9	4.19	1974	.00+	2000
Aug	.20	.00	1.43	1968	20	2.64	1976	.00+	2000
Sep	1.09	.47	2.16	1959	19	5.12	1986	.00+	1999
Oct	2.86	2.04	7.00	1962	13	7.98	1975	.00+	1988
Nov	7.21	5.76	5.88	1950	19	22.93	1983	.58	1995
Dec	7.93	5.38	7.91	1964	23	28.60	1996	.00	1989
Ann	53.38	50.13	10.68	Jan 1997	3	29.36	Feb 1986	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	7.3	5.1	3.3
Feb	9.1	7.0	4.3	2.4
Mar	10.1	7.8	4.6	2.6
Apr	6.9	4.9	2.7	1.1
May	4.6	2.9	1.3	.4
Jun	2.2	1.3	.6	.2
Jul	.6	.2	.1	@
Aug	.6	.4	.1	.0
Sep	2.6	1.8	.7	.4
Oct	4.6	3.5	1.7	1.0
Nov	7.8	6.1	3.7	1.9
Dec	7.7	6.0	3.6	2.1
Ann	65.7	49.2	28.5	15.4

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	1.00	1.73	3.10	4.49	6.00	7.70	9.70	12.20	15.62	21.29	26.84
Feb	1.14	1.86	3.12	4.37	5.68	7.13	8.82	10.90	13.72	18.34	22.81
Mar	1.20	1.91	3.13	4.30	5.54	6.89	8.46	10.37	12.96	17.18	21.25
Apr	.51	.82	1.38	1.92	2.49	3.12	3.86	4.76	5.98	7.98	9.92
May	.00	.00	.13	.47	.82	1.22	1.71	2.31	3.15	4.54	5.97
Jun	.00	.00	.00	.09	.24	.41	.62	.88	1.25	1.88	2.50
Jul	.00	.00	.00	.00	.00	.00	.00	.01	.12	.62	1.25
Aug	.00	.00	.00	.00	.00	.00	.00	.00	.21	.69	1.21
Sep	.00	.00	.00	.03	.20	.45	.78	1.23	1.91	3.12	4.35
Oct	.00	.11	.48	.89	1.36	1.92	2.60	3.47	4.71	6.82	8.93
Nov	.72	1.24	2.23	3.23	4.32	5.55	6.99	8.80	11.27	15.38	19.39
Dec	.31	.96	2.11	3.26	4.52	5.94	7.63	9.74	12.64	17.48	22.22
Ann	25.31	29.93	36.28	41.40	46.15	50.90	55.98	61.77	69.02	79.98	89.83

\+ 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	3.9	.0	1	0	15.5	1972	27	21.0	1972	18	1974	8	9	1971	-9.9	-9.9	-9.9	-9.9	-9.9	.2	.1	.0	.0
Feb	.6	.0	#	0	3.5	1974	13	3.5	1974	6	1976	5	#+	1976	-9.9	-9.9	-9.9	-9.9	-9.9	.1	.1	.0	.0
Mar	1.2	.0	#	0	4.0	1973	22	6.0	1973	9	1975	14	1	1975	-9.9	-9.9	-9.9	-9.9	-9.9	.2	.1	.1	.0
Apr	.1	.0	#	0	1.0	1974	9	1.0	1974	9	1975	7	1	1975	.1	.1	.0	.0	.0	.0	.0	.0	.0
May	.4	.0	#	0	5.0	1977	6	5.0	1977	5	1977	6	#	1977	.1	.1	.1	.1	.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	#	1971	17	#	1971	#	1971	17	#	1971	.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	2.0	.0	0	0	8.0	1972	6	16.0	1972	16	1972	8	4	1971	.7	.7	.4	.2	.0	.0	.0	.0	.0
Ann	8.2	.0	N/A	N/A	15.5	Jan 1972	27	21.0	Jan 1972	18	Jan 1974	8	9	Jan 1971	-9.9	-9.9	-9.9	-9.9	-9.9	.5	.3	.1	.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	6/06	5/28	5/22	5/17	5/12	5/07	5/02	4/25	4/17
32	5/21	5/12	5/05	4/30	4/25	4/19	4/14	4/07	3/29
28	4/24	4/11	4/03	3/26	3/19	3/12	3/05	2/24	2/12
24	3/24	3/05	2/19	2/07	1/26	1/12	12/27	11/26	0/00
20	2/25	2/06	1/20	12/31	0/00	0/00	0/00	0/00	0/00
16	1/14	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	10/03	10/11	10/16	10/21	10/26	10/30	11/04	11/10	11/17
32	10/18	10/25	10/30	11/04	11/08	11/12	11/17	11/22	11/30
28	10/31	11/08	11/14	11/20	11/25	11/29	12/05	12/11	12/19
24	11/13	11/29	12/12	12/22	1/02	1/14	1/30	0/00	0/00
20	12/13	1/02	1/19	2/09	0/00	0/00	0/00	0/00	0/00
16	12/30	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	204	191	182	174	166	159	151	142	129
32	231	220	211	204	197	190	183	174	163
28	295	280	268	259	249	240	231	219	204
24	>365	>365	>365	>365	>365	327	302	281	257
20	>365	>365	>365	>365	>365	>365	>365	>365	340
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	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	147	180	247	376	603	840	1082	1081	905	654	266	155	147	327	574	950	1553	2393	3475	4556	5461	6115	6381	6536
45	61	85	131	245	450	690	927	926	755	502	154	66	61	146	277	522	972	1662	2589	3515	4270	4772	4926	4992
50	21	36	59	141	310	543	772	771	606	365	77	18	21	57	116	257	567	1110	1882	2653	3259	3624	3701	3719
55	0	7	17	68	191	399	617	616	461	237	31	0	0	7	24	92	283	682	1299	1915	2376	2613	2644	2644
60	0	0	0	27	101	263	465	463	324	137	8	0	0	0	0	27	128	391	856	1319	1643	1780	1788	1788
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	79	104	142	222	368	535	703	698	577	398	145	79	79	183	325	547	915	1450	2153	2851	3428	3826	3971	4050

(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