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: CABINET GORGE, ID **COOP ID: 101363**

Climate Division: ID 1 **NWS Call Sign:** **Elevation: 2,260 Feet** **Lat: 48˚05N** **Lon: 116˚04W**

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	31.6	20.9	26.3	55	1989	30	33.6	1981	-23	1979	1	11.9	1979	1200	0	.0	.0	.2	11.8	28.7	1.8
Feb	37.3	23.5	30.4	60	1988	28	36.4	1992	-15	1957	2	20.8	1989	970	0	.0	.0	2.0	4.8	25.3	1.0
Mar	45.7	28.2	37.0	71	1992	31	43.3	1992	-12	1960	3	31.2	1976	870	0	.0	.0	11.4	.7	24.4	@
Apr	55.2	33.7	44.5	88	1977	24	49.1	1987	15	1984	25	39.2	1972	617	0	.0	.0	23.5	.0	14.3	.0
May	64.3	40.3	52.3	95	1986	30	58.2	1993	23	1999	2	47.6	1996	396	1	.0	.3	30.1	.0	3.3	.0
Jun	70.8	46.3	58.6	98	1992	23	64.1	1992	31+	1980	4	54.1	1991	212	19	.0	1.2	29.9	.0	.1	.0
Jul	79.6	50.1	64.9	101+	1984	25	70.9	1998	35+	1999	4	58.2	1993	87	83	.2	6.4	31.0	.0	.0	.0
Aug	79.7	50.0	64.9	105	1961	4	68.6	1986	34	1992	24	59.1	1980	87	83	.0	6.0	31.0	.0	.0	.0
Sep	69.7	43.6	56.7	98	1988	2	63.0	1998	25+	1984	24	51.7	1971	269	18	.0	.5	29.8	.0	1.4	.0
Oct	55.8	36.2	46.0	81	1992	2	51.8	1988	12	1971	29	42.5	1985	589	0	.0	.0	24.3	.1	9.9	.0
Nov	39.5	29.3	34.4	68	1975	3	40.5	1999	-10	1959	16	23.2	1985	918	0	.0	.0	3.2	3.8	19.8	.2
Dec	32.4	23.2	27.8	62	1958	3	33.4	1979	-28	1968	30	19.3	1983	1153	0	.0	.0	.2	12.1	27.6	.9
Ann	55.1	35.4	45.3	105	Aug 1961	4	70.9	Jul 1998	-28	Dec 1968	30	11.9	Jan 1979	7368	204	.2	14.4	216.6	33.3	154.8	3.9

\+ 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: 1956-2001

(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	4.06	3.77	1.74	1974	15	9.74	1974	.49	1985
Feb	3.13	2.79	2.13	1982	14	7.95	1982	.43	1993
Mar	2.72	2.73	1.35	1982	9	6.40	1997	.15	1992
Apr	2.19	2.09	1.24	1996	24	4.41	1993	.39	1977
May	2.43	1.81	2.64	1998	27	6.56	1998	.91	1999
Jun	2.37	2.07	2.77	1992	13	5.68	1981	.41	1989
Jul	1.31	1.10	1.08	1983	14	4.83	1993	.01+	1985
Aug	1.30	1.09	1.70	1976	23	6.23	1976	.01	1994
Sep	1.49	1.31	1.38	1992	24	3.57	1985	.02	1990
Oct	2.28	1.86	2.00	1994	27	5.85	1995	.07	1974
Nov	4.37	4.28	1.97	1998	23	8.40	1989	.93	1979
Dec	4.42	4.37	2.50	1998	28	8.27	1996	.67	1985
Ann	32.07	31.78	2.77	Jun 1992	13	9.74	Jan 1974	.01+	Aug 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.8	10.2	2.5	.4
Feb	13.1	8.6	1.7	.4
Mar	14.6	8.0	1.4	.1
Apr	12.2	6.6	1.0	.1
May	13.0	7.4	1.0	.1
Jun	11.4	6.4	1.3	.2
Jul	7.1	3.7	.7	@
Aug	6.6	3.5	.6	.1
Sep	7.5	4.6	.5	@
Oct	10.9	6.3	1.1	.1
Nov	16.4	10.5	2.6	.6
Dec	16.7	11.3	2.6	.5
Ann	145.3	87.1	17.0	2.6

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	1.28	1.66	2.23	2.72	3.20	3.69	4.23	4.86	5.68	6.94	8.12
Feb	.77	1.06	1.52	1.92	2.32	2.75	3.22	3.79	4.52	5.69	6.79
Mar	.64	.89	1.29	1.65	2.00	2.38	2.80	3.30	3.96	5.00	5.98
Apr	.69	.90	1.21	1.47	1.72	1.99	2.28	2.61	3.05	3.73	4.35
May	.80	1.03	1.37	1.65	1.93	2.22	2.53	2.90	3.37	4.11	4.78
Jun	.54	.76	1.11	1.42	1.73	2.06	2.43	2.87	3.45	4.37	5.24
Jul	.10	.18	.35	.53	.73	.96	1.24	1.59	2.08	2.91	3.73
Aug	.07	.14	.30	.47	.67	.91	1.20	1.57	2.09	2.97	3.86
Sep	.20	.32	.54	.74	.96	1.20	1.48	1.82	2.28	3.04	3.77
Oct	.26	.43	.75	1.07	1.41	1.79	2.23	2.78	3.53	4.77	5.98
Nov	1.41	1.83	2.44	2.96	3.47	3.99	4.56	5.23	6.09	7.42	8.66
Dec	1.55	1.96	2.57	3.08	3.57	4.07	4.61	5.25	6.06	7.32	8.48
Ann	23.45	25.14	27.29	28.91	30.35	31.74	33.17	34.75	36.66	39.41	41.79

\+ 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: 1956-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	22.8	19.5	10	8
Feb	12.3	13.6	8	5
Mar	4.6	2.1	3	#
Apr	.5	.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	.4	.0	#	0
Nov	6.5	4.5	1	#
Dec	18.9	15.3	4	2
Ann	66.0	55.0	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	12.3	1989	15	58.4	1972	34	1991	10	30	1997
Feb	12.0	1986	15	32.3	1985	33	1975	10	24	1975
Mar	8.0	1976	28	18.3	1976	20	1975	9	16	1975
Apr	2.0	1972	16	3.0	1982	13	1975	1	4	1975
May	.2	1978	4	.2	1978	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	5.8	1995	26	5.8	1995	1	1971	31	#+	1984
Nov	10.0	1973	25	25.5	1973	22	1996	25	6	1985
Dec	12.0	1971	14	56.0	1984	35	1996	28	16	1971
Ann	12.3	Jan 1989	15	58.4	Jan 1972	35	Dec 1996	28	30	Jan 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	8.1	6.3	3.2	1.5	.2
Feb	5.1	3.9	1.7	.8	@
Mar	2.1	1.6	.5	.1	.0
Apr	.4	.3	.0	.0	.0
May	@	.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	.1	.1	.1	@	.0
Nov	2.8	2.0	.8	.4	@
Dec	7.7	6.0	2.5	1.2	.1
Ann	26.3	20.2	8.8	4.0	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	25.7	22.8	18.7	11.9
Feb	20.7	18.5	14.1	7.6
Mar	7.7	6.3	5.5	3.5
Apr	.4	.4	.4	.2
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
Nov	4.0	2.3	1.0	.1
Dec	17.1	11.6	8.2	3.5
Ann	75.6	61.9	47.9	26.8

+ 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	6/25	6/18	6/13	6/09	6/05	6/01	5/28	5/23	5/16
32	5/29	5/24	5/21	5/18	5/15	5/12	5/09	5/06	5/01
28	5/12	5/06	5/02	4/29	4/26	4/22	4/19	4/15	4/09
24	4/20	4/14	4/10	4/06	4/03	3/30	3/27	3/23	3/17
20	4/10	4/01	3/25	3/20	3/14	3/09	3/04	2/25	2/16
16	4/04	3/22	3/13	3/05	2/26	2/18	2/10	2/01	1/19

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	8/28	9/03	9/07	9/11	9/14	9/18	9/21	9/26	10/02
32	9/15	9/21	9/25	9/28	10/01	10/04	10/07	10/11	10/16
28	9/28	10/05	10/09	10/13	10/17	10/21	10/25	10/30	11/06
24	10/12	10/20	10/25	10/29	11/03	11/07	11/11	11/17	11/24
20	10/26	11/04	11/11	11/17	11/22	11/27	12/03	12/10	12/19
16	11/06	11/15	11/21	11/27	12/02	12/08	12/13	12/20	12/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	127	118	111	106	101	95	90	83	74
32	162	154	148	143	138	133	128	122	114
28	202	192	186	180	174	168	162	155	146
24	235	227	222	217	213	209	204	199	191
20	291	277	268	259	252	244	236	226	213
16	319	303	293	284	276	268	260	251	237

***** 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	1200	970	870	617	396	212	87	87	269	589	918	1153	7368
60	1045	830	715	467	252	108	27	28	156	434	768	998	5828
57	952	746	622	379	176	64	11	12	102	343	678	905	4990
55	890	690	560	321	133	41	5	6	73	283	618	843	4463
50	735	550	407	190	54	10	0	1	25	151	472	688	3283
32	249	124	33	2	0	0	0	0	0	1	85	199	693

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	71	78	186	375	629	797	1019	1019	740	435	157	68	5574
55	0	0	0	4	49	148	312	312	123	4	0	0	952
57	0	0	0	1	30	111	255	256	92	2	0	0	747
60	0	0	0	0	12	65	178	179	55	0	0	0	489
65	0	0	0	0	1	19	83	83	18	0	0	0	204
70	0	0	0	0	0	3	25	24	4	0	0	0	56

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	0	0	38	185	424	602	809	812	517	217	24	0	0	0	38	223	647	1249	2058	2870	3387	3604	3628	3628
45	0	0	1	86	276	452	654	657	370	103	5	0	0	0	1	87	363	815	1469	2126	2496	2599	2604	2604
50	0	0	0	26	145	306	499	502	233	31	0	0	0	0	0	26	171	477	976	1478	1711	1742	1742	1742
55	0	0	0	6	63	173	346	349	118	6	0	0	0	0	0	6	69	242	588	937	1055	1061	1061	1061
60	0	0	0	0	17	77	202	207	39	0	0	0	0	0	0	0	17	94	296	503	542	542	542	542
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	34	132	271	370	504	507	325	135	4	0	0	1	35	167	438	808	1312	1819	2144	2279	2283	2283

(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