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: SHOSHONE 1 WNW, ID **COOP ID: 108380**

Climate Division: ID 7 **NWS Call Sign:** **Elevation: 3,950 Feet** **Lat: 42˚56N** **Lon: 114˚25W**

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	33.4	16.9	25.2	59	1953	25	32.9	1998	-36	1937	21	13.8	1979	1235	0	.0	.0	.4	11.6	29.4	2.6
Feb	40.2	21.0	30.6	65+	1992	29	40.4	1991	-35+	1933	10	16.7	1985	964	0	.0	.0	5.0	5.0	25.3	1.3
Mar	51.1	27.4	39.3	77	1978	29	47.4	1992	-8	1939	5	28.7	1976	798	0	.0	.0	18.1	.5	23.8	.1
Apr	62.1	33.6	47.9	90	1992	29	53.8	1990	1	1936	2	40.5	1975	515	1	.0	@	27.6	.0	13.8	.0
May	72.0	41.6	56.8	97+	2001	25	64.5	1992	15	1982	5	51.8	1977	277	22	.0	1.1	30.8	.0	3.8	.0
Jun	82.7	49.1	65.9	105	1974	15	72.3	1988	27	1945	15	61.2	1998	88	115	.9	7.7	30.0	.0	.2	.0
Jul	91.4	55.9	73.7	109+	1973	10	78.8	1985	33	1943	13	64.9	1993	10	279	3.3	21.0	31.0	.0	.0	.0
Aug	90.4	54.9	72.7	105+	1990	8	77.3	1971	29	1932	30	67.6	1976	19	257	2.0	19.4	31.0	.0	.0	.0
Sep	78.6	45.3	62.0	101+	1955	5	69.8	1990	16	1934	26	54.0	1985	166	75	.0	4.2	29.9	.0	1.8	.0
Oct	64.5	35.4	50.0	92	1992	1	56.3	1988	8+	1935	31	44.2	1984	469	2	.0	@	28.3	@	10.7	.0
Nov	45.7	25.9	35.8	74	1947	1	44.3	1999	-20+	1955	16	25.8	1985	876	0	.0	.0	10.5	2.7	22.8	.3
Dec	35.1	18.0	26.6	67	1939	10	32.7	1980	-27	1990	22	14.3	1985	1193	0	.0	.0	1.1	9.8	29.5	2.4
Ann	62.3	35.4	48.9	109+	Jul 1973	10	78.8	Jul 1985	-36	Jan 1937	21	13.8	Jan 1979	6610	751	6.2	53.4	243.7	29.6	161.1	6.7

\+ 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: 1931-2001

(3) Derived from 1971-2000 serially complete daily data

Issue Date: February 2004

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: SHOSHONE 1 WNW, ID

COOP ID: 108380

Climate Division: ID 7 **NWS Call Sign:** **Elevation: 3,950 Feet** **Lat: 42°56N** **Lon: 114°25W**

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	1.38	1.11	1.70	1963	31	3.72	1998	.02	1992
Feb	1.11	.91	1.14	1937	4	4.49	1986	.10	1997
Mar	1.26	1.25	1.10	1993	17	3.23	1989	.03	1994
Apr	.69	.64	.76	1951	28	1.41	1988	.12	1977
May	.95	.83	1.07	1953	28	2.73	1998	.00+	1992
Jun	.59	.33	1.50	1944	8	2.56	1995	.00	1974
Jul	.26	.12	.75	1987	2	1.37	1987	.00+	2000
Aug	.31	.22	1.21	1960	1	1.35	1976	.00+	2000
Sep	.57	.39	1.31	1948	19	1.91	1976	.00+	1999
Oct	.65	.53	1.30	1946	1	2.19	1975	.00+	1988
Nov	1.28	1.02	1.20	1981	24	4.01	1988	.00	1976
Dec	1.20	.73	1.62	1937	10	4.86	1996	.00	1989
Ann	10.25	9.77	1.70	Jan 1963	31	4.86	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.3	4.8	.6	@
Feb	7.5	3.6	.4	@
Mar	7.6	4.3	.5	@
Apr	6.1	2.2	.2	.0
May	6.1	2.9	.4	.0
Jun	4.2	1.9	.3	@
Jul	2.1	.9	.1	.0
Aug	2.1	1.0	.1	@
Sep	3.0	1.5	.3	.1
Oct	4.2	2.2	.2	@
Nov	7.9	4.5	.6	@
Dec	7.6	4.3	.5	.0
Ann	66.7	34.1	4.2	.1

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	.12	.22	.40	.59	.80	1.04	1.32	1.68	2.17	2.98	3.79
Feb	.09	.16	.31	.46	.63	.82	1.05	1.35	1.75	2.43	3.10
Mar	.15	.25	.43	.60	.79	1.00	1.24	1.54	1.94	2.61	3.26
Apr	.14	.20	.30	.39	.49	.59	.70	.83	1.01	1.30	1.57
May	.00	.16	.35	.50	.65	.80	.98	1.18	1.46	1.90	2.32
Jun	.01	.04	.12	.20	.29	.41	.54	.72	.97	1.39	1.81
Jul	.00	.00	.00	.00	.05	.12	.20	.31	.47	.74	1.02
Aug	.00	.00	.00	.05	.10	.17	.26	.38	.54	.82	1.11
Sep	.00	.00	.00	.13	.25	.38	.53	.72	.97	1.41	1.82
Oct	.00	.00	.15	.26	.37	.50	.64	.82	1.05	1.45	1.83
Nov	.05	.16	.35	.53	.74	.97	1.24	1.58	2.04	2.82	3.58
Dec	.03	.10	.25	.42	.61	.84	1.11	1.45	1.94	2.77	3.59
Ann	6.07	6.82	7.81	8.59	9.29	9.98	10.70	11.51	12.51	13.99	15.29

\+ 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: 1931-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: SHOSHONE 1 WNW, ID **COOP ID: 108380**

Climate Division: ID 7 **NWS Call Sign:** **Elevation: 3,950 Feet** **Lat: 42°56N** **Lon: 114°25W**

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	4.5	4.0	#	0	8.0	1996	24	9.3	1989	6	1971	3	2	1971	2.8	2.4	.9	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	1.3	.0	#	0	5.0	1986	13	8.5	1986	3	1972	3	1	1972	1.0	.6	.1	.1	.0	-9.9	-9.9	-9.9	-9.9
Mar	.5	.0	#	0	5.0	1988	15	6.0	1974	1	1997	3	#	1997	.4	.4	.2	@	.0	-9.9	-9.9	-9.9	-9.9
Apr	#	.0	0	0	#	1990	24	#	1990	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	0	0	#	1990	2	#+	1990	0	0	0	0	0	.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	.1	.0	#	0	1.0	1971	31	1.0	1971	1	1971	31	#	1971	.1	@	.0	.0	.0	.1	.0	.0	.0
Nov	2.3	.5	#	0	6.0	1977	21	10.5	1988	6	1984	10	#+	2000	1.4	1.0	.2	.1	.0	-9.9	-9.9	-9.9	-9.9
Dec	2.8	1.0	#	0	14.0	1996	5	14.0	1996	4+	2000	14	1	1972	2.5	1.6	.6	.1	.1	-9.9	-9.9	-9.9	-9.9
Ann	11.5	5.5	N/A	N/A	14.0	Dec 1996	5	14.0	Dec 1996	6+	Nov 1984	10	2	Jan 1971	8.2	6.0	2.0	.4	.1	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: SHOSHONE 1 WNW, ID **COOP ID: 108380**

Climate Division: ID 7 **NWS Call Sign:** **Elevation: 3,950 Feet** **Lat: 42˚56N** **Lon: 114˚25W**

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	6/27	6/20	6/16	6/11	6/08	6/04	5/31	5/26	5/19
32	6/04	5/29	5/24	5/20	5/17	5/13	5/09	5/05	4/29
28	5/22	5/16	5/12	5/08	5/05	5/01	4/28	4/24	4/18
24	5/07	4/30	4/24	4/20	4/15	4/11	4/06	4/01	3/24
20	4/20	4/11	4/05	3/31	3/26	3/21	3/16	3/09	3/01
16	4/04	3/25	3/17	3/11	3/06	2/28	2/22	2/15	2/05

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	9/03	9/08	9/11	9/14	9/17	9/20	9/23	9/26	10/01
32	9/12	9/17	9/20	9/23	9/26	9/29	10/02	10/05	10/10
28	9/22	9/27	10/01	10/04	10/07	10/09	10/12	10/16	10/21
24	10/09	10/14	10/18	10/21	10/24	10/27	10/30	11/02	11/07
20	10/20	10/25	10/29	11/01	11/04	11/06	11/10	11/13	11/18
16	10/31	11/06	11/10	11/13	11/17	11/20	11/23	11/28	12/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	128	118	112	106	101	95	90	83	74
32	156	147	142	136	132	127	122	116	108
28	176	168	163	158	154	150	145	140	132
24	220	210	203	196	191	185	179	172	162
20	248	239	233	227	222	217	212	205	196
16	289	277	269	262	255	249	241	233	222

***** 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: SHOSHONE 1 WNW, ID **COOP ID: 108380**

Climate Division: ID 7 **NWS Call Sign:** **Elevation: 3,950 Feet** **Lat: 42˚56N** **Lon: 114˚25W**

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	1235	964	798	515	277	88	10	19	166	469	876	1193	6610
60	1080	824	643	374	164	35	1	4	87	322	726	1038	5298
57	987	740	555	295	111	17	0	1	54	242	636	945	4583
55	925	687	498	246	82	10	0	1	37	195	577	883	4141
50	772	557	359	146	31	2	0	0	12	98	435	728	3140
32	291	179	52	3	0	0	0	0	0	1	78	249	853

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	79	139	277	479	768	1017	1292	1262	899	557	192	79	7040
55	0	3	9	32	137	337	579	549	245	38	1	0	1930
57	0	0	4	21	104	284	517	488	202	24	0	0	1644
60	0	0	0	10	64	212	425	398	146	10	0	0	1265
65	0	0	0	1	22	115	279	257	75	2	0	0	751
70	0	0	0	0	5	50	153	141	31	0	0	0	380

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	13	87	265	532	789	1056	1024	671	335	59	1	0	13	100	365	897	1686	2742	3766	4437	4772	4831	4832
45	0	1	31	151	384	639	901	869	522	206	16	0	0	1	32	183	567	1206	2107	2976	3498	3704	3720	3720
50	0	0	5	72	247	490	746	714	380	112	0	0	0	0	5	77	324	814	1560	2274	2654	2766	2766	2766
55	0	0	0	28	140	345	591	559	248	42	0	0	0	0	0	28	168	513	1104	1663	1911	1953	1953	1953
60	0	0	0	11	68	221	437	406	140	12	0	0	0	0	0	11	79	300	737	1143	1283	1295	1295	1295
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	12	72	201	357	499	650	638	439	241	37	0	0	12	84	285	642	1141	1791	2429	2868	3109	3146	3146

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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