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: BURRIS, WY **COOP ID: 481284**

Climate Division: WY 9 **NWS Call Sign:** **Elevation: 6,120 Feet** **Lat: 43˚22N** **Lon: 109˚17W**

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	35.2	9.9	22.6	62+	1989	30	30.9	1994	-38	1980	28	7.7	1979	1317	0	.0	.0	4.0	10.2	29.9	7.0
Feb	39.6	12.4	26.0	66+	1992	28	34.5	1991	-32	1989	3	10.8	1989	1092	0	.0	.0	6.7	5.8	27.2	4.2
Mar	46.6	19.7	33.2	72+	1978	22	40.5	1986	-31	1965	25	28.1	1977	987	0	.0	.0	14.5	2.2	28.8	1.1
Apr	54.5	26.4	40.5	84	1987	28	46.3	1987	-7	1966	20	33.5	1975	736	0	.0	.0	21.0	.5	22.0	.1
May	63.6	35.9	49.8	89	1985	2	55.1	1994	8	1967	4	45.5	1983	473	0	.0	.0	28.7	.0	9.5	.0
Jun	73.5	43.4	58.5	95+	1990	30	65.9	1988	28	1966	12	52.4	1998	222	25	.0	.5	29.8	.0	1.1	.0
Jul	80.3	48.4	64.4	95+	1998	19	68.6	1988	31+	1993	7	57.7	1993	92	71	.0	1.9	31.0	.0	@	.0
Aug	78.7	46.9	62.8	94	2000	2	67.3	1983	27+	1966	21	59.1	1974	111	42	.0	.6	31.0	.0	.1	.0
Sep	68.5	38.0	53.3	88+	2001	5	59.5	1990	7	1965	18	48.9	1985	360	6	.0	.0	28.4	.1	5.6	.0
Oct	58.2	29.3	43.8	84	1976	2	49.1	1988	-5	1971	30	38.9	1984	659	0	.0	.0	25.5	.4	17.9	.1
Nov	42.4	17.8	30.1	72	1980	6	40.5	1999	-21	1975	30	19.6	2000	1048	0	.0	.0	10.2	4.9	26.9	2.5
Dec	35.6	10.7	23.2	64	1999	1	33.4	1980	-45	1990	21	6.7	1983	1297	0	.0	.0	5.0	9.7	29.8	5.9
Ann	56.4	28.2	42.4	95+	Jul 1998	19	68.6	Jul 1988	-45	Dec 1990	21	6.7	Dec 1983	8394	144	.0	3.0	235.8	33.8	198.8	20.9

\+ 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: 1951-2001

(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	.17	.12	.30	1984	14	.65	1980	.00+	2000
Feb	.21	.14	.68	1983	14	.97	1987	.00+	1992
Mar	.53	.47	.68	1994	23	1.41	1981	.00	1972
Apr	1.20	1.02	1.43	1999	30	3.83	1971	.00	1985
May	1.82	1.82	1.50	1986	7	4.78	1980	.12	1984
Jun	1.18	.92	2.20	1967	1	3.34	1993	.10	1996
Jul	1.00	.82	2.08	1977	25	3.02	1973	.08	1988
Aug	.71	.54	1.73	1971	29	2.23	1976	.02	1996
Sep	1.00	.73	1.55	1973	11	4.70	1973	.00+	1987
Oct	.67	.51	1.03	1971	1	2.96	1971	.00+	1999
Nov	.37	.31	1.13	1978	10	1.33	1978	.00+	1999
Dec	.19	.12	.42	1972	4	.73	1978	.00+	1999
Ann	9.05	9.25	2.20	Jun 1967	1	4.78	May 1980	.00+	Jan 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	1.6	.7	.0	.0
Feb	1.6	.9	@	.0
Mar	2.9	2.0	.2	.0
Apr	5.2	3.4	.5	.1
May	7.1	5.2	1.1	.1
Jun	4.9	3.1	.8	.1
Jul	5.4	3.3	.3	.1
Aug	4.9	2.6	.2	.1
Sep	3.7	2.5	.6	.3
Oct	3.0	2.2	.4	@
Nov	2.0	1.2	.1	@
Dec	1.7	.7	.0	.0
Ann	44.0	27.8	4.2	.8

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	.05	.09	.13	.17	.22	.29	.40	.51
Feb	.00	.00	.00	.05	.10	.15	.21	.28	.37	.52	.66
Mar	.04	.09	.17	.25	.33	.42	.53	.65	.82	1.10	1.38
Apr	.08	.20	.39	.57	.75	.95	1.19	1.48	1.87	2.50	3.12
May	.37	.54	.80	1.05	1.30	1.56	1.86	2.22	2.69	3.46	4.18
Jun	.12	.20	.36	.53	.71	.91	1.14	1.44	1.85	2.53	3.19
Jul	.12	.20	.34	.48	.63	.79	.99	1.23	1.55	2.09	2.61
Aug	.08	.13	.23	.33	.44	.56	.70	.87	1.11	1.50	1.88
Sep	.00	.00	.17	.33	.50	.70	.94	1.24	1.66	2.36	3.05
Oct	.00	.00	.11	.23	.35	.49	.65	.85	1.13	1.57	2.01
Nov	.00	.00	.00	.11	.19	.27	.36	.48	.62	.87	1.10
Dec	.00	.00	.03	.06	.09	.13	.17	.23	.31	.45	.58
Ann	5.24	5.92	6.82	7.53	8.18	8.81	9.47	10.22	11.15	12.51	13.72

\+ 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: 1951-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Climate Division: WY 9 **NWS Call Sign:** **Elevation: 6,120 Feet** **Lat: 43°22N** **Lon: 109°17W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	3.2	3.5	1	#
Feb	2.9	2.3	1	#
Mar	5.7	4.5	1	#
Apr	4.6	2.0	#	#
May	1.5	.0	#	0
Jun	.2	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	1.3	.0	#	0
Oct	1.9	.0	#	#
Nov	3.7	2.0	1	#
Dec	3.8	3.0	2	#
Ann	28.8	17.3	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	5.0	1974	8	7.5	1981	7	1980	20	4	1987
Feb	8.0	1997	4	18.0	1997	14	1987	24	9	1987
Mar	7.0	1988	15	15.0	1998	15	1983	17	6	1983
Apr	11.0	1983	4	18.0	1998	15	1999	23	2	1999
May	10.0	1979	9	15.0	1986	11	1983	11	1	1983
Jun	4.0	1998	4	4.0	1998	4	1998	4	#+	1998
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	14.0	1982	14	18.0	1982	11	1984	24	1+	2000
Oct	8.0	1971	28	16.0	1971	9	1971	29	1	1980
Nov	8.0	1983	8	15.0	1990	17	1978	10	15	1978
Dec	7.0	1972	4	12.0	1978	15	1985	9	12	1985
Ann	14.0	Sep 1982	14	18.0+	Apr 1998	17	Nov 1978	10	15	Nov 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.5	1.4	.4	@	.0
Feb	1.0	1.0	.5	.2	.0
Mar	2.0	1.9	1.0	.3	.0
Apr	1.4	1.4	.9	.4	.1
May	.4	.4	.3	.2	.1
Jun	.1	.1	@	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.2	.2	.1	@
Oct	.4	.4	.2	.1	.0
Nov	1.4	1.3	.6	.2	.0
Dec	1.6	1.4	.6	.2	.0
Ann	10.0	9.5	4.7	1.7	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.4	1.0	.2	.0
Feb	2.7	1.4	.4	.0
Mar	2.9	1.2	.5	.0
Apr	1.8	1.2	.6	.1
May	.1	.1	@	@
Jun	@	@	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.2	.2	.2	.0
Oct	.5	.3	.1	.0
Nov	2.8	1.2	.6	.0
Dec	4.8	2.7	.9	.0
Ann	19.2	9.3	3.5	.1

+ 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	7/11	7/05	6/30	6/26	6/23	6/19	6/15	6/10	6/04
32	6/21	6/16	6/12	6/08	6/05	6/02	5/29	5/25	5/20
28	5/28	5/23	5/20	5/17	5/14	5/11	5/09	5/05	4/30
24	5/16	5/12	5/08	5/06	5/03	4/30	4/28	4/24	4/20
20	5/08	5/03	4/29	4/26	4/23	4/20	4/17	4/13	4/08
16	5/02	4/25	4/20	4/15	4/11	4/07	4/02	3/28	3/21

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	8/14	8/20	8/24	8/27	8/31	9/03	9/07	9/11	9/17
32	8/30	9/04	9/07	9/10	9/13	9/16	9/19	9/22	9/27
28	9/12	9/17	9/20	9/22	9/25	9/27	9/30	10/03	10/07
24	9/20	9/25	9/28	10/01	10/04	10/06	10/09	10/13	10/17
20	9/26	10/02	10/06	10/10	10/14	10/17	10/21	10/25	10/31
16	10/07	10/12	10/16	10/20	10/23	10/26	10/29	11/02	11/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	95	86	79	74	68	63	57	51	42
32	122	114	108	104	99	95	90	84	77
28	153	146	141	137	133	129	125	120	113
24	175	168	162	157	153	149	144	138	131
20	200	190	184	178	173	167	162	155	146
16	222	213	206	200	194	188	182	175	166

***** 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	1317	1092	987	736	473	222	92	111	360	659	1048	1297	8394
60	1162	952	832	586	324	120	29	38	229	504	898	1142	6816
57	1069	868	739	497	241	75	12	16	163	412	808	1049	5949
55	1007	812	677	439	191	51	6	8	126	352	748	987	5404
50	852	672	522	301	93	15	0	1	55	214	602	832	4159
32	355	237	95	21	0	0	0	0	0	6	178	339	1231

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	61	69	131	274	550	793	1002	954	637	371	120	64	5026
55	0	0	0	3	29	154	295	249	72	3	0	0	805
57	0	0	0	0	16	118	239	195	50	1	0	0	619
60	0	0	0	0	6	73	163	124	26	0	0	0	392
65	0	0	0	0	0	25	71	42	6	0	0	0	144
70	0	0	0	0	0	6	18	7	0	0	0	0	31

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	3	13	44	132	339	576	778	739	452	221	42	8	3	16	60	192	531	1107	1885	2624	3076	3297	3339	3347
45	0	0	13	60	211	429	623	584	316	116	17	0	0	0	13	73	284	713	1336	1920	2236	2352	2369	2369
50	0	0	0	22	108	287	468	429	190	50	1	0	0	0	0	22	130	417	885	1314	1504	1554	1555	1555
55	0	0	0	2	41	161	316	276	92	13	0	0	0	0	0	2	43	204	520	796	888	901	901	901
60	0	0	0	0	5	71	176	134	27	0	0	0	0	0	0	0	5	76	252	386	413	413	413	413
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	3	21	50	124	239	376	504	484	316	180	36	9	3	24	74	198	437	813	1317	1801	2117	2297	2333	2342

(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