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: LA BARGE, WY **COOP ID: 485252**

Climate Division: WY 3 **NWS Call Sign:** **Elevation: 6,595 Feet** **Lat: 42˚16N** **Lon: 110˚12W**

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	29.3	-4.2	12.6	59	1974	12	20.5	1999	-42+	1985	31	-1.1	1979	1629	0	.0	.0	.1	18.9	30.8	18.1
Feb	33.7	.0	16.9	57	1977	20	24.6	1977	-45+	1985	2	.9	1993	1350	0	.0	.0	1.0	11.3	28.2	13.3
Mar	42.5	13.2	27.9	67	1986	28	35.7	1992	-35	1993	2	19.9	1976	1153	0	.0	.0	7.2	2.7	30.6	3.1
Apr	51.9	22.4	37.2	79	1987	24	44.4	1990	-1	1980	7	30.3	1975	835	0	.0	.0	18.5	.3	27.6	.1
May	63.0	31.9	47.5	84	1993	14	52.6	1992	4	1975	2	42.8	1975	544	0	.0	.0	28.5	.0	17.4	.0
Jun	73.2	38.7	56.0	95	1990	27	62.3	1988	21+	2001	13	50.1	1998	280	9	.0	.3	30.0	.0	4.6	.0
Jul	82.0	43.5	62.8	95	1973	10	66.2	1998	26	1993	7	55.2	1993	114	43	.0	2.8	31.0	.0	.6	.0
Aug	80.5	42.0	61.3	95+	2000	1	65.1	1971	23+	1978	27	57.8	1993	139	23	.0	.9	31.0	.0	3.0	.0
Sep	70.2	32.8	51.5	90	1990	12	57.5	1990	8+	1985	30	46.4	1985	407	2	.0	@	29.0	.1	15.0	.0
Oct	58.2	21.5	39.9	80+	1996	10	45.6	1988	-7	1975	25	31.6	1984	781	0	.0	.0	25.2	.5	28.3	.1
Nov	40.0	8.8	24.4	66+	1983	5	32.7	1995	-29+	1991	3	17.4	2000	1218	0	.0	.0	6.4	6.6	29.4	6.4
Dec	30.5	-2.1	14.2	59	1970	8	24.6	1980	-52	1990	23	2.4	1990	1576	0	.0	.0	.5	16.0	31.0	16.9
Ann	54.6	20.7	37.7	95+	Aug 2000	1	66.2	Jul 1998	-52	Dec 1990	23	-1.1	Jan 1979	10026	77	.0	4.0	208.4	56.4	246.5	58.0

\+ 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: 1958-2001

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

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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	.42	.37	.40	1975	8	2.19	1980	.00+	1976
Feb	.41	.35	.50	1995	14	1.18	1976	.00+	1991
Mar	.46	.43	.82	1996	23	1.07+	1994	.00+	1997
Apr	.87	.72	1.21	1991	21	2.59	1978	.00	1998
May	1.53	1.10	1.75	1980	23	7.29	1980	.04	1974
Jun	.89	.71	1.05	1969	15	3.13	1995	.00+	2000
Jul	.90	.90	1.00	1981	25	2.18	1973	.00+	1988
Aug	.88	.69	2.25	1976	23	2.95	1976	.00+	1988
Sep	.81	.60	1.32	1965	6	2.87	1982	.00+	1975
Oct	.61	.52	.94	1998	3	1.74	1971	.00+	1984
Nov	.50	.48	.45	1973	1	1.83	1983	.00	1999
Dec	.36	.27	2.30	1964	24	1.38	1996	.00+	2000
Ann	8.64	8.53	2.30	Dec 1964	24	7.29	May 1980	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.7	1.6	.0	.0
Feb	4.5	1.4	@	.0
Mar	3.9	1.7	.2	.0
Apr	4.4	2.3	.4	.1
May	6.6	4.2	.8	.3
Jun	5.1	2.4	.4	@
Jul	5.4	2.9	.4	.1
Aug	4.6	2.6	.5	.2
Sep	5.4	2.9	.3	@
Oct	3.7	1.7	.3	.0
Nov	4.2	2.1	@	.0
Dec	3.9	1.3	.1	.0
Ann	56.4	27.1	3.4	.7

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	.04	.11	.17	.24	.32	.41	.52	.67	.93	1.17
Feb	.00	.00	.07	.15	.22	.30	.40	.52	.68	.94	1.20
Mar	.00	.04	.12	.20	.27	.36	.46	.58	.74	1.01	1.28
Apr	.04	.11	.24	.37	.51	.66	.85	1.08	1.39	1.91	2.43
May	.13	.23	.43	.64	.88	1.14	1.46	1.87	2.42	3.36	4.28
Jun	.00	.08	.23	.37	.52	.68	.88	1.11	1.42	1.95	2.46
Jul	.00	.18	.37	.51	.64	.79	.94	1.12	1.36	1.73	2.09
Aug	.00	.00	.24	.39	.54	.70	.89	1.12	1.41	1.90	2.36
Sep	.00	.07	.21	.33	.47	.62	.79	1.00	1.30	1.78	2.26
Oct	.00	.00	.16	.26	.37	.48	.61	.77	.97	1.31	1.64
Nov	.05	.10	.19	.26	.33	.41	.51	.62	.77	1.01	1.23
Dec	.00	.00	.00	.11	.19	.27	.36	.47	.61	.85	1.07
Ann	4.51	5.22	6.17	6.93	7.63	8.32	9.05	9.88	10.91	12.46	13.84

\+ 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: 1958-2001
(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	5.5	4.7	4	3
Feb	3.8	2.7	4	2
Mar	3.8	2.5	1	#
Apr	3.5	2.0	#	0
May	1.0	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	#	0
Aug	.0	.0	#	0
Sep	.8	.0	#	0
Oct	.8	.0	#	0
Nov	4.4	3.0	1	#
Dec	3.6	1.9	2	#
Ann	27.2	16.8	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	7.0	1996	27	16.3	1996	15	1972	7	13	1972
Feb	7.6	1987	25	14.0	1995	21	1993	26	16	1993
Mar	8.2	1996	23	14.0	1990	18	1993	9	9	1993
Apr	8.0	1991	21	18.0	1999	7	1999	24	3	1973
May	6.0	2000	10	8.5	1980	4	2000	10	#+	2000
Jun	#	2000	18	#+	2000	#	2000	18	#	2000
Jul	.0	0	0	.0	0	#	2000	1	#	2000
Aug	.0	0	0	.0	0	#	1999	24	#	1999
Sep	6.8	2000	23	15.8	2000	13	2000	23	1	2000
Oct	8.0	1971	29	8.0	1993	8	1993	9	1	1996
Nov	7.0	1989	26	26.0	1983	7+	1991	18	6	1971
Dec	6.0	1981	30	10.5	1988	12	1971	31	8	1992
Ann	8.2	Mar 1996	23	26.0	Nov 1983	21	Feb 1993	26	16	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.9	1.8	.7	.2	.0
Feb	2.5	1.6	.4	.2	.0
Mar	1.8	1.4	.5	.2	.0
Apr	1.1	.9	.4	.1	.0
May	.3	.3	.1	@	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.2	.2	.1	.0
Oct	.4	.2	.2	.1	.0
Nov	1.9	1.5	.4	.2	.0
Dec	2.0	1.4	.6	.2	.0
Ann	13.1	9.3	3.5	1.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	5.3	2.9	1.8	.5
Apr	.9	.4	.1	.0
May	.1	.1	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.3	.3	.2	.1
Oct	.8	.3	.1	.0
Nov	5.2	1.9	1.1	.0
Dec	8.6	4.4	2.2	.0
Ann	-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

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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	7/29	7/24	7/20	7/17	7/14	7/11	7/08	7/04	6/29
32	7/12	7/06	7/02	6/28	6/25	6/21	6/18	6/13	6/07
28	6/24	6/16	6/11	6/06	6/02	5/29	5/24	5/19	5/11
24	6/09	6/02	5/28	5/24	5/19	5/15	5/11	5/05	4/28
20	5/23	5/17	5/13	5/09	5/06	5/03	4/29	4/25	4/20
16	5/16	5/09	5/04	4/29	4/25	4/21	4/17	4/11	4/04

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	8/02	8/06	8/10	8/12	8/15	8/18	8/21	8/24	8/29
32	8/08	8/14	8/19	8/22	8/26	8/29	9/02	9/06	9/13
28	8/20	8/26	8/31	9/04	9/07	9/11	9/15	9/19	9/26
24	9/01	9/06	9/10	9/13	9/16	9/20	9/23	9/27	10/02
20	9/12	9/17	9/21	9/24	9/27	9/30	10/03	10/07	10/12
16	9/17	9/24	9/29	10/03	10/07	10/11	10/15	10/20	10/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	53	46	40	36	31	27	22	17	10
32	80	73	69	65	61	58	54	49	43
28	126	116	109	102	97	91	84	77	67
24	147	138	131	125	119	114	108	101	92
20	166	158	152	148	143	139	134	128	121
16	197	186	178	171	164	158	151	143	132

***** 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	1629	1350	1153	835	544	280	114	139	407	781	1218	1576	10026
60	1474	1210	998	685	391	159	39	50	268	626	1068	1421	8389
57	1381	1126	905	595	301	103	16	22	195	533	978	1328	7483
55	1319	1070	843	535	245	72	8	11	152	472	918	1266	6911
50	1164	930	688	394	127	22	1	1	70	324	768	1111	5600
32	619	450	220	53	1	0	0	0	0	22	276	574	2215

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	13	24	91	208	479	719	953	907	584	264	48	20	4310
55	0	0	0	0	11	101	248	205	47	1	0	0	613
57	0	0	0	0	5	72	194	154	29	0	0	0	454
60	0	0	0	0	1	38	124	89	12	0	0	0	264
65	0	0	0	0	0	9	43	23	2	0	0	0	77
70	0	0	0	0	0	1	8	2	0	0	0	0	11

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	0	66	261	501	719	655	371	110	6	0	0	0	0	66	327	828	1547	2202	2573	2683	2689	2689
45	0	0	0	19	140	353	565	500	236	41	0	0	0	0	0	19	159	512	1077	1577	1813	1854	1854	1854
50	0	0	0	2	57	217	411	346	122	8	0	0	0	0	0	2	59	276	687	1033	1155	1163	1163	1163
55	0	0	0	0	8	103	258	198	40	0	0	0	0	0	0	0	8	111	369	567	607	607	607	607
60	0	0	0	0	0	34	122	76	8	0	0	0	0	0	0	0	0	34	156	232	240	240	240	240
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	16	91	231	372	502	484	327	172	16	0	0	0	16	107	338	710	1212	1696	2023	2195	2211	2211

(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