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: ALBIN, WY **COOP ID: 480080**

Climate Division: WY 8 **NWS Call Sign:** **Elevation: 5,345 Feet** **Lat: 41˚25N** **Lon: 104˚06W**

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	38.3	15.2	26.8	70	1981	23	35.6	1986	-29	1963	19	13.5	1979	1186	0	.0	.0	5.3	8.6	29.2	4.9
Feb	42.8	18.9	30.9	74	1962	11	38.3	1991	-28	1982	5	19.7	1989	957	0	.0	.0	8.8	5.8	26.0	2.6
Mar	49.8	24.0	36.9	77+	1989	11	44.0	1986	-11+	1960	3	32.3	1971	872	0	.0	.0	16.4	2.9	26.1	.7
Apr	58.2	30.6	44.4	86	1989	22	50.7	1981	-7	1975	2	37.8	1983	618	0	.0	.0	22.6	.7	18.0	.1
May	67.9	40.2	54.1	91	1969	27	59.4	1994	18	1967	1	47.6	1995	346	7	.0	.1	29.2	.0	4.4	.0
Jun	79.0	49.3	64.2	107	1954	23	69.6	1988	27	1951	2	59.5	1982	97	72	.0	2.9	29.9	.0	@	.0
Jul	85.4	55.0	70.2	109	1954	10	74.0	2000	40+	1959	1	66.6	1992	9	171	.1	9.2	31.0	.0	.0	.0
Aug	84.1	54.0	69.1	101	1969	27	73.2	1983	35	1993	31	65.2	1974	26	151	@	6.0	31.0	.0	.0	.0
Sep	75.6	45.1	60.4	98	1956	20	66.7	1998	11	1985	30	56.0	1971	180	40	.0	1.7	29.0	@	2.4	.0
Oct	63.3	34.3	48.8	89+	1967	3	51.3	1973	-4+	1991	31	44.6	1984	501	0	.0	.0	27.1	.5	12.1	.1
Nov	47.0	23.1	35.1	77+	1999	8	46.0	1999	-18	1976	27	25.3	2000	898	0	.0	.0	12.7	4.4	24.7	.8
Dec	39.6	16.5	28.1	72	1973	1	37.2	1980	-31	1990	22	15.1	1983	1146	0	.0	.0	7.0	8.3	28.9	3.4
Ann	60.9	33.9	47.4	109	Jul 1954	10	74.0	Jul 2000	-31	Dec 1990	22	13.5	Jan 1979	6836	441	.1	19.9	250.0	31.2	171.8	12.6

\+ 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	.80	.77	1.10	1992	7	2.31	1992	.06	1998
Feb	.63	.47	1.22	1998	25	1.71	1984	.00+	1996
Mar	1.60	1.12	3.70	1983	5	6.26	1983	.23	1986
Apr	1.92	1.62	1.75	2001	11	4.31	1984	.22	1992
May	2.83	2.74	2.45	1988	19	5.51	1995	.41	1984
Jun	2.46	1.99	2.85	1986	10	6.06	1983	.32	1980
Jul	2.28	1.97	2.75	1998	16	5.40	1990	.57	1991
Aug	1.63	1.66	2.68	1983	6	4.32	1983	.08	1973
Sep	1.51	1.34	1.82	1989	8	3.61	1973	.25	1978
Oct	1.15	.82	1.95	1997	25	4.09	1998	.08	1977
Nov	.98	.77	1.65	1993	12	2.72	1993	.05	1981
Dec	.78	.63	.95	1952	12	2.67	1973	.04	1991
Ann	18.57	18.48	3.70	Mar 1983	5	6.26	Mar 1983	.00+	Feb 1996

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.6	2.7	.2	@
Feb	4.2	2.1	.2	@
Mar	6.7	3.7	.9	.3
Apr	7.9	5.1	1.1	.2
May	10.1	6.7	1.5	.4
Jun	8.2	5.0	1.6	.4
Jul	8.4	5.0	1.2	.4
Aug	7.5	4.3	.7	.3
Sep	5.9	3.9	1.0	.2
Oct	4.8	3.0	.7	.1
Nov	4.3	2.9	.5	.1
Dec	5.2	2.9	.3	.0
Ann	78.8	47.3	9.9	2.4

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	.12	.19	.31	.42	.53	.66	.80	.97	1.21	1.59	1.95
Feb	.00	.09	.22	.32	.42	.53	.65	.79	.98	1.29	1.59
Mar	.17	.29	.51	.74	.98	1.25	1.56	1.95	2.49	3.37	4.24
Apr	.46	.64	.92	1.17	1.41	1.68	1.97	2.32	2.78	3.51	4.20
May	.67	.94	1.35	1.72	2.08	2.47	2.91	3.42	4.10	5.18	6.19
Jun	.61	.84	1.20	1.52	1.83	2.16	2.53	2.97	3.55	4.45	5.31
Jul	.58	.79	1.13	1.42	1.71	2.02	2.36	2.76	3.29	4.12	4.90
Aug	.21	.34	.57	.80	1.04	1.30	1.61	1.99	2.50	3.34	4.15
Sep	.26	.40	.62	.82	1.03	1.26	1.52	1.84	2.26	2.94	3.59
Oct	.11	.19	.35	.51	.68	.88	1.11	1.40	1.80	2.46	3.11
Nov	.14	.22	.37	.50	.64	.80	.98	1.20	1.50	1.98	2.45
Dec	.08	.13	.24	.35	.47	.60	.75	.95	1.21	1.66	2.09
Ann	12.82	13.92	15.33	16.41	17.37	18.30	19.26	20.33	21.63	23.51	25.15

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	12.5	13.0	4	3
Feb	8.9	9.0	3	2
Mar	17.1	14.0	2	1
Apr	11.4	8.0	1	#
May	1.4	.0	#	0
Jun	#	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	1.5	.0	#	0
Oct	4.6	3.0	#	#
Nov	12.3	9.0	2	1
Dec	13.4	12.0	3	3
Ann	83.1	68.0	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	11.4	1992	7	26.4	1992	30	1988	26	22	1988
Feb	8.3	1998	25	22.0	1989	14	1988	1	8	1998
Mar	24.0	1973	14	47.0	1973	22	1988	17	11	1988
Apr	15.0	1986	3	41.0	1984	17	1997	12	9	1997
May	6.0	1983	17	10.0	1983	6	1983	17	#+	1999
Jun	#	1976	14	#	1976	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	12.0	2000	24	15.0	2000	8	2000	24	1	2000
Oct	17.0	1997	25	19.0	1997	15	1997	25	2	1997
Nov	16.0	1979	20	41.0	1979	30	1979	24	16	1979
Dec	14.0	1987	27	36.5	1987	28	1987	28	12+	1992
Ann	24.0	Mar 1973	14	47.0	Mar 1973	30+	Jan 1988	26	22	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.2	5.0	1.8	.5	@
Feb	3.7	3.5	1.3	.2	.0
Mar	5.0	4.9	2.1	1.0	.2
Apr	2.9	2.8	1.7	.8	.2
May	.4	.4	.2	.1	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.4	.3	.2	.1	@
Oct	1.2	1.2	.6	.3	.1
Nov	3.7	3.6	1.7	.6	.2
Dec	4.9	4.6	1.8	.5	.2
Ann	27.4	26.3	11.4	4.1	.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	15.0	10.8	6.5	3.2
Feb	9.6	6.9	3.1	.6
Mar	8.2	5.6	3.2	1.1
Apr	3.5	2.6	1.4	.4
May	.2	.1	@	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.3	.2	.1	.0
Oct	1.4	.8	.4	.1
Nov	8.3	4.8	2.7	1.0
Dec	13.2	9.3	5.9	2.4
Ann	59.7	41.1	23.3	8.8

+ 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	6/17	6/12	6/07	6/04	5/31	5/28	5/24	5/20	5/14
32	5/26	5/22	5/19	5/16	5/13	5/11	5/08	5/05	5/01
28	5/16	5/12	5/09	5/06	5/04	5/01	4/29	4/26	4/21
24	5/06	5/01	4/28	4/25	4/22	4/20	4/17	4/13	4/09
20	4/28	4/22	4/18	4/15	4/11	4/08	4/04	3/31	3/26
16	4/18	4/13	4/10	4/06	4/03	4/01	3/28	3/25	3/20

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	9/08	9/11	9/14	9/16	9/17	9/19	9/21	9/23	9/27
32	9/13	9/17	9/20	9/22	9/24	9/26	9/29	10/01	10/05
28	9/19	9/24	9/28	10/01	10/04	10/07	10/10	10/13	10/18
24	9/27	10/03	10/08	10/11	10/15	10/18	10/22	10/26	11/01
20	10/05	10/10	10/14	10/17	10/20	10/23	10/27	10/30	11/05
16	10/16	10/21	10/25	10/28	10/31	11/03	11/06	11/10	11/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	130	122	117	113	108	104	100	95	87
32	152	145	141	137	133	129	125	121	114
28	175	167	162	157	152	148	143	137	129
24	198	190	184	179	175	170	165	159	151
20	217	208	202	196	191	186	181	174	165
16	233	225	219	214	210	205	201	195	187

***** 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	1186	957	872	618	346	97	9	26	180	501	898	1146	6836
60	1031	817	717	472	214	36	1	5	88	347	748	991	5467
57	938	733	624	387	149	16	0	2	50	258	658	898	4713
55	876	677	562	334	113	9	0	1	31	204	603	836	4246
50	724	543	411	213	49	1	0	0	7	94	464	683	3189
32	258	152	44	10	0	0	0	0	0	1	108	219	792

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	95	119	195	381	684	965	1185	1148	851	523	200	95	6441
55	0	0	0	15	84	284	472	436	192	13	5	0	1501
57	0	0	0	9	58	232	410	375	150	5	0	0	1239
60	0	0	0	4	30	161	317	285	98	1	0	0	896
65	0	0	0	0	7	72	171	151	40	0	0	0	441
70	0	0	0	0	1	22	62	56	11	0	0	0	152

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	17	34	79	197	446	733	945	907	620	311	76	23	17	51	130	327	773	1506	2451	3358	3978	4289	4365	4388
45	1	7	31	104	301	583	790	752	475	189	33	6	1	8	39	143	444	1027	1817	2569	3044	3233	3266	3272
50	0	0	5	46	180	436	635	597	338	101	10	0	0	0	5	51	231	667	1302	1899	2237	2338	2348	2348
55	0	0	0	18	87	293	482	442	216	38	0	0	0	0	0	18	105	398	880	1322	1538	1576	1576	1576
60	0	0	0	0	27	168	327	287	112	10	0	0	0	0	0	0	27	195	522	809	921	931	931	931
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	14	36	78	162	294	462	601	583	405	234	68	24	14	50	128	290	584	1046	1647	2230	2635	2869	2937	2961

(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