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: BEAVER FALLS, AK **COOP ID: 500657**

Climate Division: AK 1 **NWS Call Sign:** **Elevation: 35 Feet** **Lat: 55˚23N** **Lon: 131˚28W**

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 >= 90	Max >= 70	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	36.1	27.9	32.0	57	2001	7	41.0	1981	1+	1953	9	23.9	1996	1024	0	.0	.0	.7	6.9	21.7	.0
Feb	39.5	29.8	34.7	63+	1992	28	41.3	1977	-2	1994	25	28.7	1975	849	0	.0	.0	.9	2.5	18.0	@
Mar	43.6	32.3	38.0	67	1996	28	41.9	1984	7	1955	3	34.4	1971	839	0	.0	.0	3.4	.4	16.1	.0
Apr	50.0	35.9	43.0	80	1997	23	46.9	1996	18	1954	4	38.2	1972	661	0	.0	.5	13.2	.0	6.1	.0
May	56.6	41.3	49.0	86	1996	29	54.1	1997	28	1954	1	44.8	1999	498	0	.0	2.5	25.9	.0	.4	.0
Jun	61.8	47.1	54.5	92	1958	6	58.8	1998	34	1952	6	50.8	1974	318	2	.0	4.2	29.6	.0	.0	.0
Jul	65.1	51.7	58.4	88	1952	11	61.1	1998	40+	1993	22	54.3	1984	211	6	.0	7.4	31.0	.0	.0	.0
Aug	65.0	52.0	58.5	90	1977	19	63.4	1977	37	1991	31	56.1	1984	206	6	@	7.1	31.0	.0	.0	.0
Sep	59.1	47.7	53.4	78+	1989	9	57.3	1995	32	1972	26	49.6	1992	349	0	.0	1.2	29.7	.0	@	.0
Oct	49.9	40.8	45.4	68	1952	24	48.7	1986	17	1984	31	41.8	1990	608	0	.0	.0	19.1	.1	1.8	.0
Nov	41.5	33.6	37.6	64	1949	2	42.6	1980	0	1985	27	26.3	1985	825	0	.0	.0	2.7	1.5	11.6	@
Dec	37.4	29.9	33.7	56	1962	11	39.6	1997	1	1968	29	27.6	1971	973	0	.0	.0	.5	4.5	19.8	.0
Ann	50.5	39.2	44.9	92	Jun 1958	6	63.4	Aug 1977	-2	Feb 1994	25	23.9	Jan 1996	7361	14	@	22.9	187.7	15.9	95.5	.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

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1949-2001

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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	14.89	14.77	5.69	1966	16	27.00	1992	4.73	1995
Feb	11.93	11.52	5.50	1999	5	21.19	1977	.35	1989
Mar	12.17	12.50	3.66	1955	7	22.93	1988	4.49	1983
Apr	9.58	8.93	5.30	1992	1	20.71	1980	3.03	1979
May	7.63	6.81	7.05	1999	23	19.11	1999	2.06	1998
Jun	6.11	5.74	2.54	1967	28	11.80	1984	.93	1982
Jul	5.32	5.11	3.30	1958	20	9.60	2000	.62	1971
Aug	9.13	7.57	6.82	1991	30	24.83	1991	1.85	1979
Sep	15.25	12.87	6.70	1967	23	28.24	1992	6.57	1993
Oct	22.38	21.29	7.75	1980	2	33.28	1982	15.40	1987
Nov	17.78	17.39	7.46	1988	30	37.23	1988	5.86	1985
Dec	17.20	15.44	5.85	1959	5	34.48	1989	3.90	1983
Ann	149.37	144.60	7.75	Oct 1980	2	37.23	Nov 1988	.35	Feb 1989

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	20.0	18.0	10.6	5.3
Feb	17.8	15.7	8.8	4.0
Mar	21.0	17.9	9.1	4.2
Apr	19.4	15.8	7.4	3.0
May	17.2	13.6	5.5	1.7
Jun	15.6	11.8	4.5	1.0
Jul	14.6	10.7	3.1	1.2
Aug	15.9	12.6	6.1	3.0
Sep	19.3	15.7	9.5	5.4
Oct	25.1	22.2	14.7	7.6
Nov	22.6	20.2	12.4	6.3
Dec	22.1	19.8	12.6	6.3
Ann	230.6	194.0	104.3	49.0

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	6.22	7.58	9.48	11.05	12.51	14.00	15.60	17.45	19.78	23.34	26.57
Feb	3.68	4.81	6.50	7.95	9.35	10.81	12.41	14.30	16.73	20.52	24.03
Mar	5.74	6.80	8.25	9.43	10.51	11.60	12.77	14.10	15.76	18.28	20.54
Apr	4.28	5.14	6.32	7.28	8.18	9.08	10.05	11.16	12.56	14.67	16.59
May	2.36	3.09	4.17	5.09	5.99	6.92	7.94	9.14	10.69	13.10	15.34
Jun	1.91	2.50	3.36	4.10	4.81	5.55	6.36	7.31	8.54	10.46	12.23
Jul	1.32	1.82	2.60	3.28	3.96	4.68	5.48	6.43	7.67	9.64	11.48
Aug	2.49	3.36	4.67	5.83	6.96	8.14	9.45	11.01	13.03	16.20	19.17
Sep	7.10	8.43	10.26	11.75	13.13	14.51	15.99	17.68	19.80	23.01	25.90
Oct	13.89	15.45	17.49	19.07	20.50	21.90	23.36	24.99	26.99	29.93	32.52
Nov	7.20	8.83	11.14	13.04	14.84	16.66	18.63	20.89	23.77	28.17	32.17
Dec	7.44	8.98	11.15	12.92	14.57	16.24	18.04	20.10	22.71	26.67	30.25
Ann	113.24	120.41	129.50	136.34	142.37	148.16	154.11	160.65	168.54	179.89	189.63

\+ 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: 1949-2001
(3) Derived from 1971-2000 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	16.0	7.0	6	5
Feb	15.4	6.0	8	3
Mar	6.2	1.1	4	0
Apr	1.5	.0	#	0
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	4.7	2.3	#	0
Dec	12.0	5.5	2	0
Ann	56.0	21.9	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	15.0	1972	14	56.6	1972	58	1972	14	42	1972
Feb	19.0	1973	13	62.0	1979	67	1972	19	54	1972
Mar	16.0	1974	9	40.0	1971	79	1972	9	48	1972
Apr	6.0	1972	6	12.0	1972	30	1972	7	19	1972
May	1.5	1982	1	1.5	1982	6	1972	1	1	1972
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	1.0	1985	28	2.5	1985	2	1985	28	0	0
Nov	6.5	1990	21	24.3	1990	12	1973	23	4	1973
Dec	9.0+	1990	29	45.5	1971	25	1971	29	18	1971
Ann	19.0	Feb 1973	13	62.0	Feb 1979	79	Mar 1972	9	54	Feb 1972

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.1	4.7	2.2	1.1	.3
Feb	3.7	3.3	1.8	1.2	.4
Mar	2.0	1.7	.6	.4	.2
Apr	.8	.7	.2	@	.0
May	@	@	.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	.0	.0	.0
Nov	2.0	1.8	.7	.2	.0
Dec	4.2	3.8	1.6	.8	.0
Ann	17.9	16.1	7.1	3.7	.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	15.4	13.8	12.9	8.5
Feb	13.0	11.8	10.7	8.4
Mar	9.4	7.8	6.3	4.4
Apr	2.6	2.0	1.7	1.3
May	.2	.1	.1	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	3.4	2.1	1.2	.2
Dec	10.0	7.2	5.8	2.7
Ann	54.1	44.8	38.7	25.5

+ 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	6/02	5/27	5/22	5/18	5/14	5/11	5/07	5/02	4/26
32	5/07	5/02	4/28	4/24	4/21	4/18	4/15	4/11	4/06
28	4/12	4/06	4/01	3/28	3/24	3/20	3/16	3/11	3/05
24	3/28	3/18	3/10	3/04	2/26	2/20	2/13	2/06	1/26
20	3/16	3/04	2/23	2/15	2/07	1/30	1/22	1/11	12/21
16	3/09	2/26	2/18	2/11	2/04	1/28	1/20	1/09	0/00

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	9/27	10/02	10/06	10/09	10/12	10/15	10/18	10/21	10/26
32	10/12	10/18	10/22	10/26	10/29	11/01	11/05	11/09	11/15
28	10/20	10/29	11/04	11/10	11/15	11/20	11/25	12/02	12/10
24	11/02	11/14	11/22	11/29	12/06	12/13	12/20	12/28	1/09
20	11/08	11/21	11/30	12/09	12/16	12/24	1/02	1/13	2/03
16	11/25	12/09	12/19	12/27	1/05	1/13	1/23	2/06	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	165	159	154	150	145	140	134	126
32	217	208	201	195	190	185	179	173	163
28	268	257	249	242	235	229	221	213	202
24	328	312	301	291	283	274	264	253	237
20	>365	364	338	325	314	303	293	281	266
16	>365	>365	>365	>365	343	327	314	300	282

***** 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	1024	849	839	661	498	318	211	206	349	608	825	973	7361
60	869	709	684	511	346	182	90	87	203	453	675	818	5627
57	776	625	591	421	260	117	43	40	125	360	585	725	4668
55	714	569	529	362	207	83	22	20	82	298	525	663	4074
50	565	432	374	220	101	24	2	1	16	158	384	509	2786
32	143	67	13	0	0	0	0	0	0	1	47	88	359

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	142	142	196	329	525	674	818	823	641	416	212	138	5056
55	0	0	0	1	19	67	126	129	33	0	0	0	375
57	0	0	0	0	10	41	86	88	16	0	0	0	241
60	0	0	0	0	3	16	40	41	4	0	0	0	104
65	0	0	0	0	0	2	6	6	0	0	0	0	14
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	6	16	27	112	288	437	575	587	411	191	41	10	6	22	49	161	449	886	1461	2048	2459	2650	2691	2701
45	0	0	0	32	149	287	420	432	262	74	4	0	0	0	0	32	181	468	888	1320	1582	1656	1660	1660
50	0	0	0	7	56	142	265	277	123	9	0	0	0	0	0	7	63	205	470	747	870	879	879	879
55	0	0	0	0	13	51	120	129	29	0	0	0	0	0	0	0	13	64	184	313	342	342	342	342
60	0	0	0	0	1	11	40	34	3	0	0	0	0	0	0	0	1	12	52	86	89	89	89	89
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	6	45	121	184	275	284	160	37	0	0	0	0	6	51	172	356	631	915	1075	1112	1112	1112

(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 were calculated from a serially complete daily data set. A serial dataset was not available for precipitation,
To ensure that a station's data was adequate to estimate these statistics, the following criteria were used:
1. A station must have 80% of its data for the 1971-2000 time period.
2. Only months with at least 21 days are used.
3. There must be a least 21 months (meeting criteria 2.) in the sample.

g. Snowfall and snow depth statistics were derived daily values quality controlled to be consistent with 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 differences 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. Other inconsistencies may appear from comparing statistically modeled values such as degree days to observed temperatures.

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. 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