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: LITTLE PORT WALTER, AK **COOP ID: 505519**

Climate Division: AK 1 **NWS Call Sign:** **Elevation: 14 Feet** **Lat: 56˚23N** **Lon: 134˚39W**

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	37.3	28.8	33.1	54+	1985	22	40.9	1981	0	1966	2	26.6	1982	990	0	.0	.0	.3	6.3	21.7	.0
Feb	39.1	29.8	34.5	58	1995	4	41.7	1977	3	1968	2	24.8	1979	855	0	.0	.0	.4	3.7	18.6	.0
Mar	42.2	31.5	36.9	57+	1998	22	40.8	1981	5	1955	2	33.1	1972	857	0	.0	.0	.7	1.0	19.6	.0
Apr	47.3	34.5	40.9	66+	1995	30	43.6	1995	18	1966	10	35.8	1972	723	0	.0	.0	8.0	.0	9.5	.0
May	53.4	39.1	46.3	72	1983	30	50.3	1993	24	1950	2	41.6	1971	581	0	.0	.1	23.9	.0	1.4	.0
Jun	58.9	44.3	51.6	80+	1991	20	55.1	1993	32	1955	6	47.2	1975	402	0	.0	1.1	29.0	.0	.0	.0
Jul	62.3	48.7	55.5	79	1993	16	60.0	1993	37+	1984	24	52.6	1973	295	0	.0	2.6	31.0	.0	.0	.0
Aug	62.3	49.0	55.7	88	1990	12	59.1	1977	39	1960	30	52.5	1975	290	0	.0	2.2	31.0	.0	.0	.0
Sep	57.1	45.2	51.2	73	1993	1	54.9	1995	31+	1992	13	48.0	1992	416	0	.0	.1	29.5	.0	.2	.0
Oct	49.6	39.7	44.7	61	1976	2	48.0	1980	23	1984	31	41.5	1985	631	0	.0	.0	16.3	.1	2.6	.0
Nov	42.5	33.7	38.1	57+	1993	13	42.2	2000	4	1985	26	30.6	1985	808	0	.0	.0	2.5	1.6	12.2	.0
Dec	39.0	30.7	34.9	54	1959	1	40.1	1989	4+	1970	2	28.6	1977	936	0	.0	.0	.8	4.1	18.9	.0
Ann	49.3	37.9	43.6	88	Aug 1990	12	60.0	Jul 1993	0	Jan 1966	2	24.8	Feb 1979	7784	0	.0	6.1	173.4	16.8	104.7	.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: 1949-2001

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

Issue Date: May 2005

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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	23.63	19.62	13.52	1986	25	61.67	1985	10.99	1996
Feb	18.98	19.15	6.62	1963	22	35.21	1991	.63	1989
Mar	18.02	17.69	8.53	1987	28	37.20	1986	5.62	1982
Apr	14.87	14.08	8.41	1982	19	26.21	1999	3.86	1979
May	11.86	11.97	7.35	1992	3	27.53	1992	3.35	1990
Jun	8.01	8.13	7.35	1951	10	20.88	1987	.73	1982
Jul	7.88	8.47	9.55	1969	9	17.25	1979	1.60	1996
Aug	13.20	13.65	10.34	1955	13	32.61	1998	2.23	1989
Sep	22.12	21.24	10.99	1978	19	40.93	1981	3.71	1986
Oct	33.58	30.77	11.20	1974	22	69.35	1974	20.71	1981
Nov	27.87	27.91	12.51	1993	25	52.98	1987	9.74	1973
Dec	25.51	24.86	14.84	1964	6	58.37	1997	5.06	1983
Ann	225.53	225.43	14.84	Dec 1964	6	69.35	Oct 1974	.63	Feb 1989

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	22.2	20.1	12.8	8.0
Feb	18.8	16.8	11.1	7.4
Mar	20.0	18.5	11.6	6.4
Apr	19.2	16.9	9.3	5.0
May	16.5	13.8	7.5	4.2
Jun	13.6	11.0	5.3	2.5
Jul	13.1	10.1	4.6	2.4
Aug	15.0	12.1	7.1	4.1
Sep	18.7	16.6	11.1	7.5
Oct	25.3	23.5	16.4	11.3
Nov	23.6	21.7	15.4	9.9
Dec	23.1	21.1	14.4	9.4
Ann	229.1	202.2	126.6	78.1

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	8.99	11.19	14.34	16.96	19.44	21.98	24.73	27.91	31.97	38.20	43.89
Feb	4.75	6.54	9.30	11.75	14.17	16.72	19.57	22.95	27.37	34.36	40.91
Mar	7.35	9.00	11.33	13.25	15.06	16.90	18.88	21.16	24.06	28.48	32.50
Apr	6.05	7.41	9.34	10.92	12.42	13.94	15.58	17.46	19.86	23.52	26.85
May	3.51	4.64	6.33	7.79	9.21	10.69	12.32	14.24	16.73	20.61	24.22
Jun	1.94	2.69	3.86	4.90	5.94	7.03	8.25	9.70	11.60	14.62	17.45
Jul	1.88	2.61	3.77	4.79	5.82	6.90	8.11	9.55	11.44	14.44	17.26
Aug	2.46	3.64	5.57	7.36	9.19	11.15	13.39	16.09	19.67	25.44	30.94
Sep	8.24	10.31	13.28	15.76	18.11	20.52	23.14	26.17	30.04	35.99	41.43
Oct	17.67	20.41	24.10	27.02	29.71	32.38	35.20	38.40	42.37	48.32	53.62
Nov	11.84	14.36	17.90	20.80	23.51	26.26	29.22	32.62	36.91	43.45	49.38
Dec	10.20	12.55	15.88	18.63	21.23	23.87	26.72	30.01	34.19	40.59	46.41
Ann	172.78	183.29	196.59	206.58	215.38	223.82	232.49	242.01	253.46	269.94	284.07

\+ 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	29.4	30.9	12	8
Feb	24.2	21.4	16	7
Mar	15.3	11.1	15	4
Apr	2.1	.2	6	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.3	.0	#	0
Nov	11.3	4.1	1	0
Dec	23.7	23.5	7	5
Ann	106.3	91.2	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	25.0	1974	18	83.2	1974	79	1974	22	42	1972
Feb	20.3	1974	20	59.7	1979	84	1972	22	68	1972
Mar	14.0	1971	23	52.5	1971	117	1972	10	86	1972
Apr	6.0	1972	20	30.0	1972	72	1972	23	65	1972
May	.3	1999	5	.3	1999	54	1972	1	20	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	3.5	1992	18	3.9	1992	4	1992	18	0	0
Nov	14.0	1990	13	63.1	1990	38	1990	13	22	1990
Dec	19.0	1972	15	63.0	1975	48	1990	3	27	1990
Ann	25.0	Jan 1974	18	83.2	Jan 1974	117	Mar 1972	10	86	Mar 1972

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	8.4	6.7	3.5	1.9	.5
Feb	6.2	5.4	3.1	1.9	.4
Mar	4.5	3.7	2.0	1.1	.3
Apr	.9	.9	.3	.1	.0
May	@	.0	.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	.2	.1	@	.0	.0
Nov	3.5	2.9	1.2	.6	.2
Dec	7.1	5.7	3.0	1.4	.3
Ann	30.8	25.4	13.1	7.0	1.7

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	20.7	18.8	17.3	12.7
Feb	17.4	16.1	15.0	12.6
Mar	16.9	15.6	14.6	11.5
Apr	6.8	6.4	6.1	5.5
May	1.2	1.1	1.0	.9
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	@	.0	.0
Nov	6.5	3.9	2.7	1.5
Dec	16.6	13.6	12.1	8.7
Ann	86.3	75.5	68.8	53.4

+ 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	6/12	6/06	6/02	5/30	5/26	5/23	5/20	5/16	5/10
32	5/21	5/15	5/10	5/07	5/03	4/30	4/26	4/21	4/15
28	4/21	4/11	4/04	3/29	3/23	3/17	3/11	3/04	2/23
24	4/04	3/23	3/13	3/05	2/26	2/18	2/10	1/31	1/15
20	3/13	2/28	2/19	2/11	2/04	1/27	1/18	1/06	0/00
16	2/26	2/12	2/01	1/22	1/10	12/20	0/00	0/00	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	9/20	9/25	9/28	10/01	10/04	10/06	10/09	10/12	10/17
32	10/02	10/10	10/15	10/20	10/24	10/28	11/02	11/07	11/14
28	10/27	11/04	11/10	11/14	11/19	11/23	11/28	12/04	12/11
24	11/02	11/13	11/21	11/27	12/04	12/10	12/17	12/26	1/08
20	11/16	11/29	12/08	12/16	12/24	1/01	1/10	1/23	0/00
16	11/29	12/13	12/23	1/03	1/17	0/00	0/00	0/00	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	149	142	137	133	129	125	121	116	110
32	205	194	186	179	173	167	160	152	141
28	277	265	255	247	240	233	225	215	203
24	351	321	306	294	283	272	261	248	230
20	>365	>365	>365	332	318	308	298	288	275
16	>365	>365	>365	>365	>365	>365	341	319	300

***** 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	990	855	857	723	581	402	295	290	416	631	808	936	7784
60	835	715	718	573	426	256	149	144	267	476	658	781	5998
57	742	631	625	483	335	176	80	77	180	383	568	688	4968
55	680	575	563	423	277	130	47	44	127	321	508	626	4321
50	531	438	408	275	148	48	6	5	33	177	364	471	2904
32	117	74	16	0	0	0	0	0	0	1	31	65	304

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	150	143	166	267	442	588	728	734	574	393	213	152	4550
55	0	0	0	0	6	28	62	65	10	0	0	0	171
57	0	0	0	0	2	14	33	35	3	0	0	0	87
60	0	0	0	0	0	4	9	10	0	0	0	0	23
65	0	0	0	0	0	0	0	0	0	0	0	0	0
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	7	7	13	61	202	360	490	495	344	163	41	12	7	14	27	88	290	650	1140	1635	1979	2142	2183	2195
45	0	0	0	7	68	212	335	340	194	55	3	0	0	0	0	7	75	287	622	962	1156	1211	1214	1214
50	0	0	0	0	9	78	181	185	67	6	0	0	0	0	0	0	9	87	268	453	520	526	526	526
55	0	0	0	0	0	12	52	53	3	0	0	0	0	0	0	0	0	12	64	117	120	120	120	120
60	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	1	6	6	6	6	6
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	0	9	68	144	209	217	116	28	0	0	0	0	0	9	77	221	430	647	763	791	791	791

(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