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: GLEN ALPS, AK **COOP ID: 503299**

Climate Division: AK 5 **NWS Call Sign:** **Elevation: 2,260 Feet** **Lat: 61˚06N** **Lon: 149˚41W**

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	24.5	11.0	17.8	44	1994	30	33.9	1977	-37+	1989	29	1.7	1971	1465	0	.0	.0	.0	19.9	30.5	7.9
Feb	26.4	11.4	18.9	55+	1991	28	31.1	1977	-34	1999	4	5.0	1999	1291	0	.0	.0	.2	17.7	27.7	6.6
Mar	30.6	15.1	22.9	50	1990	23	31.7	1984	-15+	1995	15	11.1	1972	1290	0	.0	.0	@	15.8	30.8	3.5
Apr	37.5	23.4	30.5	55	1976	30	36.7	1990	-9+	1976	28	21.6	1972	1036	0	.0	.0	.6	4.5	27.7	.7
May	46.6	33.3	40.0	69	1993	30	44.6	1981	16+	1992	5	35.0	1971	777	0	.0	.0	9.3	.1	12.9	.0
Jun	55.4	40.7	48.1	76	1986	16	51.4	1990	30	1976	5	44.8	1985	509	0	.0	.9	24.1	.0	.3	.0
Jul	58.8	45.1	52.0	75+	1999	4	55.2	1997	28+	1976	2	49.2	1978	405	0	.0	1.5	29.6	.0	.1	.0
Aug	57.3	43.7	50.5	75	1978	3	53.8	1979	28	1984	31	47.1	1998	450	0	.0	.5	28.7	@	.5	.0
Sep	48.9	36.4	42.7	65	1989	8	48.0	1995	9+	1992	24	31.9	1992	670	0	.0	.0	14.0	.4	6.6	.0
Oct	37.1	24.3	30.7	53	1993	7	37.1	1979	-10	1976	28	22.2	1996	1063	0	.0	.0	.3	7.4	25.6	.3
Nov	29.2	15.9	22.6	51	1986	2	31.3	1976	-19	1990	30	10.8	1990	1273	0	.0	.0	@	17.2	28.9	3.3
Dec	26.1	13.2	19.7	46	1984	17	30.5	1985	-23	1975	6	5.8	1980	1406	0	.0	.0	.0	20.8	30.6	5.3
Ann	39.9	26.1	33.0	76	Jun 1986	16	55.2	Jul 1997	-37+	Jan 1989	29	1.7	Jan 1971	11635	0	.0	2.9	106.8	103.8	222.2	27.6

\+ 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

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1971-2001

(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	1.75	1.14	.98	1981	1	4.69	1987	.28	1974
Feb	1.83	2.00	1.04	1995	6	3.75	1995	.24	1994
Mar	1.61	1.38	.97	1986	26	4.14	1994	.04	1983
Apr	1.35	1.06	1.95	1976	27	3.63	1983	.31	1993
May	1.15	1.13	.62	1990	21	3.40	1989	.04	1996
Jun	1.47	1.39	1.63	1980	18	4.59	1980	.34	1986
Jul	2.14	1.99	1.20	1971	27	4.73	1991	.51	1990
Aug	3.21	3.04	3.45	1989	26	7.94	1989	.31	1978
Sep	4.21	3.55	2.60	1976	21	9.24	1977	1.21	1973
Oct	3.01	2.94	1.58	1980	8	5.44	1989	.97	1976
Nov	2.22	2.08	1.55	1979	11	7.28	1979	.27	1995
Dec	2.54	2.54	1.30	1999	22	5.65	1978	.23	1995
Ann	26.49	26.34	3.45	Aug 1989	26	9.24	Sep 1977	.04+	May 1996

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.1	5.4	.6	.0
Feb	12.3	5.2	.6	.0
Mar	12.9	5.2	.4	.0
Apr	11.2	3.6	.4	.1
May	11.0	3.8	.2	.0
Jun	11.3	4.5	.6	.1
Jul	15.6	6.6	1.2	.2
Aug	16.2	8.2	1.6	.3
Sep	17.1	9.5	2.5	.7
Oct	15.6	7.7	1.5	.3
Nov	14.0	5.9	1.0	.2
Dec	16.0	7.7	1.3	.2
Ann	166.3	73.3	11.9	2.1

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	.25	.40	.65	.89	1.15	1.42	1.75	2.14	2.67	3.54	4.38
Feb	.40	.57	.84	1.08	1.32	1.58	1.88	2.23	2.69	3.42	4.12
Mar	.28	.42	.66	.88	1.11	1.35	1.63	1.97	2.42	3.15	3.84
Apr	.30	.42	.62	.80	.98	1.17	1.38	1.63	1.97	2.50	3.01
May	.22	.32	.49	.64	.80	.97	1.17	1.40	1.71	2.21	2.69
Jun	.39	.53	.74	.93	1.11	1.31	1.52	1.78	2.11	2.64	3.13
Jul	.63	.83	1.14	1.40	1.66	1.92	2.22	2.57	3.02	3.72	4.38
Aug	.82	1.13	1.59	2.00	2.41	2.84	3.32	3.88	4.62	5.79	6.88
Sep	1.43	1.83	2.41	2.90	3.38	3.86	4.39	5.01	5.80	7.03	8.16
Oct	1.18	1.46	1.85	2.18	2.49	2.81	3.15	3.55	4.05	4.82	5.53
Nov	.27	.45	.76	1.07	1.40	1.76	2.19	2.72	3.43	4.61	5.75
Dec	.56	.79	1.16	1.50	1.84	2.19	2.60	3.08	3.72	4.73	5.69
Ann	19.80	21.12	22.80	24.07	25.19	26.26	27.37	28.58	30.05	32.17	33.99

\+ 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: 1971-2001
(3) Derived from 1971-2000 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	23.5	24.0	42	42
Feb	24.9	25.5	52	56
Mar	24.6	23.4	54	54
Apr	12.6	9.0	43	41
May	2.7	2.0	6	0
Jun	#	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	1.3	.0	#	0
Oct	17.8	16.5	3	2
Nov	25.7	25.0	11	9
Dec	34.7	32.0	29	27
Ann	167.8	157.4	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	18.0	2000	31	62.0	2000	88	1995	24	79	1995
Feb	12.0	1995	21	61.0	1996	93	1992	29	83	1995
Mar	22.0	1995	17	60.0	1979	106	1995	18	93	1992
Apr	11.0	1985	9	40.0	1983	96	1985	15	81	1985
May	6.0	1989	18	12.0	1985	57	1992	1	31	1992
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	4.0	1996	28	7.0	1992	3	1996	29	0	0
Oct	16.0	1992	27	44.0	1982	26	1996	15	15	1996
Nov	15.0	1987	13	70.0	1994	47	1987	30	33	1992
Dec	13.0+	1998	5	70.0	1997	85	1994	30	68	1987
Ann	22.0	Mar 1995	17	70.0+	Dec 1997	106	Mar 1995	18	93	Mar 1992

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.8	7.8	3.2	1.3	.1
Feb	7.8	7.8	3.2	1.6	.4
Mar	7.7	7.6	3.2	1.5	.3
Apr	4.8	4.8	1.7	.5	@
May	1.2	1.2	.3	@	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.7	.7	.1	.0	.0
Oct	5.7	5.7	2.5	.9	.1
Nov	8.5	8.5	3.4	1.5	.3
Dec	10.6	10.6	4.5	2.4	.4
Ann	54.8	54.7	22.1	9.7	1.6

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	27.2	27.2	26.9	25.3
Feb	24.4	24.4	24.4	24.2
Mar	27.4	26.8	26.8	25.8
Apr	24.7	24.4	24.2	23.7
May	7.2	6.9	6.6	5.4
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.7	.1	.0	.0
Oct	14.2	10.3	6.8	3.1
Nov	22.8	19.9	17.6	12.6
Dec	28.4	27.7	23.7	22.0
Ann	177.0	167.7	157.0	142.1

+ 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	7/03	6/28	6/23	6/20	6/17	6/13	6/10	6/05	5/31
32	6/16	6/10	6/06	6/02	5/30	5/26	5/22	5/18	5/12
28	5/29	5/22	5/18	5/14	5/10	5/07	5/03	4/28	4/22
24	5/09	5/05	5/01	4/28	4/26	4/23	4/20	4/17	4/12
20	5/04	4/29	4/25	4/22	4/20	4/17	4/14	4/10	4/05
16	4/29	4/23	4/19	4/16	4/12	4/09	4/05	4/01	3/26

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	8/13	8/19	8/22	8/26	8/29	9/01	9/04	9/08	9/13
32	8/24	8/30	9/03	9/07	9/10	9/14	9/17	9/22	9/28
28	9/08	9/13	9/17	9/20	9/23	9/26	9/30	10/03	10/09
24	9/14	9/19	9/23	9/27	9/30	10/03	10/07	10/11	10/17
20	9/22	9/29	10/03	10/07	10/11	10/15	10/19	10/23	10/30
16	9/26	10/04	10/09	10/14	10/18	10/22	10/27	11/01	11/09

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	99	90	83	78	73	67	62	55	46
32	128	119	113	108	103	98	93	87	78
28	161	152	146	140	135	130	125	118	109
24	179	172	166	161	157	152	148	142	134
20	200	191	184	179	174	169	163	157	148
16	216	206	199	194	188	182	176	169	160

***** 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	1465	1291	1290	1036	777	509	405	450	670	1063	1273	1406	11635
60	1310	1151	1151	886	622	359	250	295	520	908	1123	1251	9826
57	1217	1067	1058	796	529	270	161	207	431	815	1033	1158	8742
55	1163	1011	996	736	467	213	107	153	374	753	973	1096	8042
50	1018	875	841	586	314	94	22	56	241	598	823	942	6410
32	539	426	336	142	11	0	0	0	10	140	332	430	2366

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	97	59	53	96	257	481	618	573	330	101	49	47	2761
55	8	0	0	0	0	4	12	13	4	0	0	0	41
57	0	0	0	0	0	1	4	6	2	0	0	0	13
60	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	69	254	378	329	123	2	0	0	0	0	0	0	69	323	701	1030	1153	1155	1155	1155
45	0	0	0	0	15	121	224	180	35	0	0	0	0	0	0	0	15	136	360	540	575	575	575	575
50	0	0	0	0	1	41	87	57	0	0	0	0	0	0	0	0	1	42	129	186	186	186	186	186
55	0	0	0	0	0	5	20	9	0	0	0	0	0	0	0	0	0	5	25	34	34	34	34	34
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	0	0	27	100	145	118	28	0	0	0	0	0	0	0	27	127	272	390	418	418	418	418

(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 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