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: ELFIN COVE, AK **COOP ID: 502785**

Climate Division: AK 1 **NWS Call Sign: ELV** **Elevation: 20 Feet** **Lat: 58˚12N** **Lon: 136˚40W**

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	34.4	28.3	31.4	50+	2001	7	39.4	1981	1	1989	30	22.9	1972	1044	0	.0	.0	.1	9.5	20.2	.0
Feb	36.7	29.7	33.2	57	1991	27	40.4	1977	-10	1975	14	22.3	1979	891	0	.0	.0	.3	5.8	16.8	.1
Mar	39.7	31.6	35.7	56	1981	20	40.0	1981	9	1989	10	31.1	1972	895	0	.0	.0	.9	2.0	16.4	.0
Apr	45.4	35.3	40.4	66+	1995	28	44.3	1990	20	1996	2	34.4	1972	740	0	.0	.0	5.7	.1	6.7	.0
May	50.3	40.3	45.3	74	1983	30	49.5	1981	31+	1982	14	40.6	1971	611	0	.0	.2	16.7	.0	.5	.0
Jun	54.4	45.9	50.2	80	1991	21	53.3	1990	35	1976	1	46.4	1975	445	0	.0	.6	27.5	.0	.0	.0
Jul	57.3	49.5	53.4	77	1999	4	55.8	1997	40	1988	13	51.3	1973	358	0	.0	.7	31.0	.0	.0	.0
Aug	58.6	49.9	54.3	85	1990	12	57.4	1997	39	1984	28	51.3	1973	334	0	.0	.8	31.0	.0	.0	.0
Sep	54.9	46.5	50.7	74+	1986	6	55.4	1995	30	1983	27	46.4	1992	429	0	.0	.3	28.2	.0	.1	.0
Oct	46.9	40.2	43.6	60	1977	8	47.7	1979	20	1984	30	40.5	1971	665	0	.0	.0	10.2	@	1.8	.0
Nov	39.3	33.5	36.4	54	1976	12	41.1	1976	5	1985	26	28.1	1985	859	0	.0	.0	.5	2.7	11.4	.0
Dec	36.0	30.5	33.3	50+	1999	27	38.2	1976	5+	1990	1	27.0	1971	984	0	.0	.0	.1	6.4	16.5	.0
Ann	46.2	38.4	42.3	85	Aug 1990	12	57.4	Aug 1997	-10	Feb 1975	14	22.3	Feb 1979	8255	0	.0	2.6	152.2	26.5	90.4	.1

\+ 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: 1975-2001

(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	9.88	9.36	3.30	1985	16	21.87	1985	2.49	1995
Feb	7.86	7.65	4.56	1997	23	14.68	1997	.79	1989
Mar	7.38	7.73	2.51	1987	28	12.49	1986	2.58	1974
Apr	5.95	5.32	2.98+	1999	15	12.21	1977	1.73	1979
May	4.76	4.56	2.32	1992	4	9.41	1992	1.98	1977
Jun	3.37	3.32	1.85	1985	17	6.98	1987	1.57	1982
Jul	4.32	4.21	1.75	2000	1	8.96	1997	.94	1996
Aug	6.37	6.53	2.22	1984	25	14.82	1983	2.24	1989
Sep	12.17	11.02	8.61	1996	25	19.92	1987	3.73	1986
Oct	16.16	14.72	7.20	1994	3	31.12	1978	3.32	1975
Nov	11.43	12.03	4.25	1976	2	18.74	1987	3.34	1983
Dec	11.39	11.26	3.60	1989	13	21.46	1997	2.67	1983
Ann	101.04	100.50	8.61	Sep 1996	25	31.12	Oct 1978	.79	Feb 1989

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	21.9	17.2	6.9	2.9
Feb	17.6	13.8	5.4	1.8
Mar	20.3	15.5	5.1	1.3
Apr	18.6	13.6	3.6	1.3
May	17.6	12.1	2.9	.5
Jun	16.6	9.7	1.5	.3
Jul	19.1	12.0	2.1	.4
Aug	18.8	13.0	4.5	1.4
Sep	21.7	17.8	9.2	3.3
Oct	25.7	21.8	12.1	5.3
Nov	22.2	18.1	9.0	3.0
Dec	23.0	18.4	8.3	3.2
Ann	243.1	183.0	70.6	24.7

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	3.94	4.85	6.14	7.21	8.22	9.24	10.35	11.63	13.25	15.73	18.00
Feb	2.15	2.90	4.03	5.02	5.99	7.01	8.14	9.47	11.20	13.93	16.47
Mar	3.40	4.05	4.94	5.67	6.34	7.01	7.74	8.56	9.60	11.17	12.58
Apr	2.01	2.57	3.40	4.09	4.76	5.45	6.20	7.08	8.21	9.96	11.57
May	2.22	2.64	3.21	3.67	4.10	4.53	4.99	5.51	6.17	7.17	8.06
Jun	1.66	1.95	2.34	2.65	2.94	3.23	3.53	3.88	4.32	4.97	5.56
Jul	1.75	2.14	2.71	3.17	3.61	4.05	4.53	5.08	5.78	6.86	7.83
Aug	2.19	2.79	3.67	4.41	5.12	5.85	6.65	7.58	8.77	10.62	12.31
Sep	6.21	7.22	8.59	9.69	10.69	11.69	12.75	13.96	15.46	17.72	19.73
Oct	7.43	8.85	10.81	12.40	13.88	15.36	16.95	18.76	21.04	24.49	27.60
Nov	4.70	5.75	7.22	8.43	9.57	10.73	11.97	13.41	15.23	18.01	20.53
Dec	4.55	5.60	7.09	8.32	9.48	10.66	11.94	13.41	15.28	18.14	20.74
Ann	79.82	84.10	89.48	93.50	97.03	100.41	103.87	107.66	112.20	118.71	124.28

\+ 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: 1975-2001
(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	28.4	26.8	9	10
Feb	19.6	14.1	8	2
Mar	11.9	8.9	4	1
Apr	1.8	.3	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	1.4	.0	#	0
Nov	13.6	6.9	1	0
Dec	23.3	21.2	4	2
Ann	100.0	78.2	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	29.0	1983	11	72.7	1994	49	1983	13	32	1980
Feb	22.0	1999	5	60.9	1990	49	1999	7	32	1999
Mar	19.0	1995	11	42.8	1995	39	1982	1	24	1982
Apr	4.5	1986	7	14.1	1986	12	1982	1	5	1982
May	.0	0	0	.0	0	0	0	0	0	0
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	6.0	1991	30	12.2	1991	10	1991	30	1	1991
Nov	20.0	1994	23	82.5	1994	41	1994	25	12	1994
Dec	21.0	1995	5	59.3	1979	35	1990	3	22	1994
Ann	29.0	Jan 1983	11	82.5	Nov 1994	49+	Feb 1999	7	32+	Feb 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	10.1	6.3	3.0	1.5	.6
Feb	8.0	4.4	2.4	1.3	.2
Mar	6.8	3.0	1.4	.7	.1
Apr	2.3	.5	.2	.0	.0
May	.0	.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	1.2	.4	.2	.1	.0
Nov	5.7	2.8	1.4	.8	.2
Dec	10.0	5.8	2.7	1.4	.3
Ann	44.1	23.2	11.3	5.8	1.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	21.3	19.4	16.7	12.5
Feb	16.3	14.3	12.2	9.7
Mar	12.6	9.5	7.5	5.7
Apr	1.6	1.0	.8	.2
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.4	.2	.1	.0
Nov	7.0	5.7	3.7	1.7
Dec	15.3	11.5	9.0	5.9
Ann	74.5	61.6	50.0	35.7

+ 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

Complete documentation available from:
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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	5/27	5/24	5/21	5/19	5/17	5/15	5/13	5/10	5/07
32	5/13	5/07	5/02	4/28	4/24	4/21	4/17	4/12	4/06
28	4/17	4/10	4/05	4/01	3/28	3/24	3/20	3/15	3/08
24	4/02	3/23	3/17	3/11	3/05	2/28	2/22	2/15	2/06
20	3/23	3/11	3/01	2/21	2/14	2/06	1/28	1/17	12/28
16	3/12	2/27	2/18	2/09	2/01	1/23	1/11	12/21	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	9/24	9/30	10/04	10/07	10/11	10/14	10/18	10/22	10/28
32	10/05	10/13	10/18	10/22	10/26	10/30	11/04	11/09	11/16
28	10/24	11/02	11/08	11/14	11/19	11/25	11/30	12/07	12/16
24	10/29	11/11	11/21	11/30	12/08	12/16	12/24	1/03	1/17
20	11/06	11/19	11/28	12/06	12/14	12/22	12/31	1/13	0/00
16	11/22	12/05	12/15	12/25	1/03	1/13	1/27	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	168	160	155	151	146	142	137	132	125
32	213	203	196	190	184	178	172	165	155
28	274	261	251	243	236	228	220	211	198
24	323	305	293	284	275	266	257	246	231
20	>365	>365	332	313	300	289	278	266	250
16	>365	>365	>365	>365	337	318	303	290	273

***** 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	1044	891	895	740	611	445	358	334	429	665	859	984	8255
60	889	751	755	590	456	295	203	183	280	510	709	829	6450
57	796	667	662	500	363	207	117	103	196	417	619	736	5383
55	734	611	600	440	301	152	69	64	145	355	559	674	4704
50	586	475	445	293	161	50	7	9	51	207	415	519	3218
32	160	99	30	5	0	0	0	0	0	2	53	95	444

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	139	132	142	254	413	545	665	689	561	359	184	135	4218
55	0	0	0	0	1	7	21	40	16	0	0	0	85
57	0	0	0	0	0	2	6	17	7	0	0	0	32
60	0	0	0	0	0	0	0	4	1	0	0	0	5
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	2	6	56	183	327	438	457	336	137	19	0	0	2	8	64	247	574	1012	1469	1805	1942	1961	1961
45	0	0	0	9	60	177	283	302	187	35	0	0	0	0	0	9	69	246	529	831	1018	1053	1053	1053
50	0	0	0	0	8	54	128	147	58	0	0	0	0	0	0	0	8	62	190	337	395	395	395	395
55	0	0	0	0	1	5	26	30	4	0	0	0	0	0	0	0	1	6	32	62	66	66	66	66
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	10	42	91	150	168	97	11	0	0	0	0	0	10	52	143	293	461	558	569	569	569

(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