

Climatology of the United States

No. 20

1971-2000

Station: COLLEGE 5 NW, AK

COOP ID: 502112

Climate Division: AK 8

NWS Call Sign:

Elevation: 950 Feet

Lat: 64° 56N

Lon: 147° 53W

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	6.8	-7.5	-4	48+	1981	16	25.8	1981	-55+	1989	29	-20.3	1971	2028	0	.0	.0	.0	28.4	30.8	18.6
Feb	13.0	-4.4	4.3	54	1977	21	19.9	1997	-48	1999	6	-16.5	1990	1700	0	.0	.0	.1	23.5	28.1	16.8
Mar	25.8	5.2	15.5	56	1998	20	31.5	1981	-31+	1995	14	1.6	1972	1534	0	.0	.0	.4	19.5	30.7	10.6
Apr	42.5	21.7	32.1	69	1995	30	40.5	1993	-17	1986	7	21.0	1985	987	0	.0	.0	9.0	5.3	25.2	1.9
May	59.3	37.3	48.3	84	1995	11	54.3	1981	9+	1992	4	39.0	1992	518	0	.0	3.9	27.1	.2	6.9	.0
Jun	69.1	47.3	58.2	93	1983	25	61.1	1971	33+	1999	1	54.0	1978	207	2	.1	14.5	29.8	.0	.0	.0
Jul	71.3	50.5	60.9	91	1977	31	64.3	1993	36	2000	28	56.4	1981	140	13	@	19.4	30.9	.0	.0	.0
Aug	65.3	45.3	55.3	89+	1994	5	60.8	1977	26	1987	30	49.9	2000	312	11	.0	9.2	30.2	.0	.8	.0
Sep	53.7	35.1	44.4	77	1995	21	52.3	1995	7	1992	24	31.9	1992	620	2	.0	1.1	20.4	.7	9.2	.0
Oct	31.8	17.8	24.8	62	1979	2	34.4	1987	-18	1996	26	13.5	1996	1246	0	.0	.0	1.6	16.9	28.8	2.0
Nov	15.4	2.2	8.8	51	1976	13	24.5	1979	-40	1990	30	-3.0	1975	1687	0	.0	.0	@	27.1	29.6	13.0
Dec	9.3	-4.4	2.5	47	1986	10	17.9	1985	-43	1999	31	-15.2	1980	1942	0	.0	.0	.0	29.0	30.9	19.4
Ann	38.6	20.5	29.6	93	Jun 1983	25	64.3	Jul 1993	-55+	Jan 1989	29	-20.3	Jan 1971	12921	28	.1	48.1	149.5	150.6	221.0	82.3

+ 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/normal/usnormals.html

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1976-2001

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

013-A

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: COLLEGE 5 NW, AK

COOP ID: 502112

Climate Division: AK 8

NWS Call Sign:

Elevation: 950 Feet Lat: 64°56N

Lon: 147°53W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.65	.45	.91	1993	14	3.24	1993	.12	1998	8.3	2.4	.1	.0	.09	.14	.23	.32	.42	.52	.64	.79	.99	1.31	1.63
Feb	.44	.28	.60	1980	2	1.71	1996	.02	2000	5.7	1.4	.1	.0	.03	.06	.11	.17	.24	.32	.41	.53	.70	.98	1.27
Mar	.31	.19	.85	1991	25	2.61	1991	.00+	1987	4.9	1.0	.0	.0	.00	.00	.05	.09	.15	.21	.29	.38	.51	.74	.96
Apr	.21	.10	.42	1992	6	1.01	1992	.00+	2000	3.0	.7	.0	.0	.00	.00	.01	.04	.08	.12	.18	.26	.36	.54	.72
May	.77	.64	.72	1977	31	2.23	1988	.13+	1994	7.5	2.6	.2	.0	.12	.18	.29	.40	.51	.63	.77	.93	1.16	1.53	1.88
Jun	2.09	1.92	2.31	1988	16	4.73	1988	.30	1997	12.7	5.6	1.2	.1	.73	.93	1.22	1.46	1.69	1.92	2.18	2.48	2.86	3.46	4.00
Jul	2.15	2.08	1.64	1986	20	4.59	1990	.46	1993	13.6	5.6	1.0	.2	.66	.86	1.16	1.42	1.68	1.94	2.23	2.57	3.01	3.70	4.33
Aug	2.08	1.93	1.21	1990	26	4.65	1983	.49	1977	14.2	6.8	.7	.1	.74	.93	1.22	1.45	1.68	1.91	2.17	2.46	2.84	3.42	3.96
Sep	1.46	1.36	1.04	1990	6	3.46	1993	.16	1979	11.4	4.6	.5	.0	.38	.52	.73	.91	1.10	1.29	1.51	1.76	2.09	2.62	3.11
Oct	.93	.88	.95	1986	11	2.05	1983	.31+	1998	10.6	3.1	.1	.0	.32	.40	.53	.64	.75	.86	.97	1.11	1.29	1.57	1.82
Nov	.76	.77	.67	1982	6	2.37	1994	.08	1983	9.6	2.4	.2	.0	.11	.17	.28	.38	.49	.61	.75	.92	1.15	1.53	1.89
Dec	.74	.47	.98	1990	28	3.32	1990	.05	1995	9.7	2.5	.1	.0	.08	.13	.23	.34	.45	.57	.72	.90	1.15	1.56	1.96
Ann	12.59	11.78	2.31	Jun 1988	16	4.73	Jun 1988	.00+	Apr 2000	111.2	38.7	4.2	.4	8.56	9.32	10.30	11.05	11.73	12.38	13.05	13.80	14.71	16.04	17.19

+ 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: 1976-2001

(3) Derived from 1971-2000 daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: COLLEGE 5 NW, AK

COOP ID: 502112

Climate Division: AK 8

NWS Call Sign:

Elevation: 950 Feet

Lat: 64° 56N

Lon: 147° 53W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	10.5	7.5	17	15	14.3	1993	14	49.7	1993	48	1993	15	39	1993	9.0	3.1	.7	.2	.0	28.8	28.8	28.5	24.7
Feb	7.4	5.1	19	18	8.5	1996	18	27.8	1996	40	1993	4	38	1993	7.1	2.0	.7	.2	.0	26.5	26.5	26.5	26.1
Mar	4.4	2.5	20	20	8.2	1991	23	29.8	1991	52	1991	27	40	1991	5.0	1.2	.2	.1	.0	29.4	29.4	29.4	28.6
Apr	2.0	.7	10	8	4.6	1992	6	10.2	1992	49	1991	1	34	1991	2.0	.7	.1	.0	.0	20.2	19.5	18.7	14.4
May	.8	.0	#	0	6.7	1992	12	12.0	1992	14	1992	12	5	1992	.7	.4	@	@	.0	1.4	1.0	.9	.5
Jun	#	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	2.3	.0	#	0	5.6	1992	14	22.4	1992	12	1992	15	5	1992	1.4	.8	.2	.1	.0	1.8	1.0	.7	.2
Oct	11.2	9.7	3	2	12.0	1982	19	29.8	1982	18	1982	19	9+	1992	9.7	4.2	.8	.2	@	19.3	13.3	8.0	1.8
Nov	13.4	12.9	8	8	8.5	1992	22	37.7	1994	24+	1994	22	19	1982	11.8	4.8	1.1	.2	.0	29.7	28.1	23.6	10.8
Dec	11.6	9.6	13	13	7.5	1984	17	38.8	1984	44	1990	29	24	1992	10.5	4.0	.9	.2	.0	29.9	29.9	28.8	19.8
Ann	63.6	48.0	N/A	N/A	14.3	Jan 1993	14	49.7	Jan 1993	52	Mar 1991	27	40	Mar 1991	57.2	21.2	4.7	1.2	@	187.0	177.5	165.1	126.9

+ 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:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: COLLEGE 5 NW, AK

COOP ID: 502112

Climate Division: AK 8

NWS Call Sign:

Elevation: 950 Feet

Lat: 64° 56N

Lon: 147° 53W

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	6/18	6/12	6/08	6/05	6/01	5/29	5/25	5/21	5/15
32	5/27	5/24	5/22	5/20	5/18	5/16	5/14	5/12	5/09
28	5/20	5/15	5/12	5/09	5/06	5/03	4/30	4/27	4/22
24	5/09	5/05	5/01	4/28	4/26	4/23	4/20	4/16	4/12
20	5/04	4/29	4/25	4/22	4/20	4/17	4/14	4/10	4/05
16	4/27	4/22	4/19	4/16	4/14	4/11	4/09	4/05	4/01
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	8/18	8/21	8/24	8/26	8/29	8/31	9/03	9/08
32	8/24	8/29	9/02	9/05	9/08	9/11	9/14	9/18	9/23
28	9/04	9/09	9/12	9/15	9/18	9/21	9/24	9/28	10/03
24	9/13	9/17	9/21	9/23	9/26	9/29	10/02	10/05	10/09
20	9/20	9/24	9/28	10/01	10/03	10/06	10/09	10/13	10/17
16	9/29	10/03	10/06	10/09	10/11	10/14	10/16	10/19	10/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	108	100	95	90	85	81	76	70	62
32	129	123	119	116	112	109	106	101	96
28	157	149	144	139	135	130	125	120	112
24	172	165	161	157	153	149	145	140	134
20	185	178	174	170	166	162	159	154	148
16	200	193	188	184	180	176	171	166	159

* 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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: COLLEGE 5 NW, AK

COOP ID: 502112

Climate Division: AK 8

NWS Call Sign:

Elevation: 950 Feet Lat: 64°56N Lon: 147°53W

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	2028	1700	1534	987	518	207	140	312	620	1246	1687	1942	12921
60	1873	1560	1379	837	370	86	45	186	477	1091	1537	1787	11228
57	1780	1476	1286	748	288	40	15	128	396	998	1447	1694	10296
55	1718	1420	1224	691	238	21	7	96	345	936	1387	1632	9715
50	1569	1280	1069	551	137	3	0	40	232	783	1237	1477	8378
32	1053	814	558	167	6	0	0	0	21	301	718	933	4571

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	48	38	47	171	512	785	896	722	392	78	22	14	3725
55	0	0	0	5	31	116	190	105	26	0	0	0	473
57	0	0	0	2	18	75	136	75	17	0	0	0	323
60	0	0	0	0	7	31	73	40	8	0	0	0	159
65	0	0	0	0	0	2	13	11	2	0	0	0	28
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	36	288	561	654	484	191	6	0	0	0	0	0	36	324	885	1539	2023	2214	2220	2220	2220
45	0	0	0	8	160	411	499	333	92	0	0	0	0	0	0	8	168	579	1078	1411	1503	1503	1503	1503
50	0	0	0	0	74	270	347	193	32	0	0	0	0	0	0	0	74	344	691	884	916	916	916	916
55	0	0	0	0	24	139	203	91	4	0	0	0	0	0	0	0	24	163	366	457	461	461	461	461
60	0	0	0	0	3	56	86	27	0	0	0	0	0	0	0	0	3	59	145	172	172	172	172	172
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	0	24	172	316	372	255	96	1	0	0	0	0	0	24	196	512	884	1139	1235	1236	1236	1236

(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.

Complete 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 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

c. Snow Tables

1. Cooperative Summary of the Day

d. Freeze Data Table

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

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