

Climatology of the United States

No. 20

1971-2000

Station: NORTHWAY AP, AK

COOP ID: 506586

Climate Division: AK 8

NWS Call Sign: ORT

Elevation: 1,713 Feet Lat: 62° 58N

Lon: 141° 56W

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	-9.0	-23.6	-16.3	35	1991	21	1.8+	1985	-72	1952	20	-34.3	1971	2523	0	.0	.0	.0	30.9	31.0	29.2
Feb	2.6	-18.3	-7.9	41	2000	2	7.6	2000	-71	1979	9	-35.0	1979	2041	0	.0	.0	.0	28.1	28.3	25.1
Mar	24.6	-6.0	9.3	53	1980	31	18.3	1984	-56	1956	2	-3.4	1972	1729	0	.0	.0	@	22.0	31.0	21.0
Apr	43.0	16.7	29.9	70	1979	30	38.1	1995	-34	1986	9	17.4	1986	1054	0	.0	@	7.6	4.0	29.3	3.2
May	57.2	33.5	45.4	85+	1983	30	51.9	1995	2	1964	9	40.3	1992	610	0	.0	1.9	25.7	@	15.7	.0
Jun	66.8	44.4	55.6	91	1969	15	60.2	1995	28	1997	2	51.1	1985	282	0	.0	10.8	29.6	.0	.5	.0
Jul	69.9	48.9	59.4	88	1955	26	61.5	1994	32	1981	1	57.3	1984	174	1	.0	16.1	31.0	.0	@	.0
Aug	65.0	43.8	54.4	88+	1994	5	60.2	1994	12	1987	31	49.0	2000	333	4	.0	8.7	29.8	.0	1.7	.0
Sep	52.5	32.0	42.3	79	1982	15	48.3	1995	-6	1983	27	29.8	1992	682	0	.0	.6	19.6	1.1	18.1	.1
Oct	28.9	13.3	21.1	67	1986	10	28.7	1993	-36	1975	31	9.6	1996	1360	0	.0	.0	.8	19.7	30.7	4.9
Nov	5.0	-10.4	-2.7	42	1979	9	8.8	1979	-55	1989	12	-13.9	1990	2032	0	.0	.0	.0	29.8	30.0	23.4
Dec	-5.5	-20.1	-12.8	51	1999	22	.2	1985	-64	1956	11	-36.0	1980	2415	0	.0	.0	@	30.8	31.0	29.2
Ann	33.4	12.9	23.1	91	Jun 1969	15	61.5	Jul 1994	-72	Jan 1952	20	-36.0	Dec 1980	15235	5	.0	38.1	144.1	166.4	247.3	136.1

+ 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/normal/usnormals.html

Issue Date: May 2005

(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

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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: NORTHWAY AP, AK

COOP ID: 506586

Climate Division: AK 8

NWS Call Sign: ORT

Elevation: 1,713 Feet Lat: 62°58N

Lon: 141°56W

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	.24	.22	.47	1950	23	.57	1983	.03	1971	6.0	.6	.0	.0	.06	.08	.12	.15	.18	.21	.25	.29	.35	.44	.53	
Feb	.22	.20	.61	1960	22	.71	1982	.00+	2000	4.5	.7	.0	.0	.00	.00	.05	.09	.13	.17	.22	.28	.36	.48	.60	
Mar	.20	.13	.37	1994	9	.95	1996	.00	1992	3.5	.5	.0	.0	.01	.02	.05	.07	.11	.14	.19	.24	.32	.44	.57	
Apr	.20	.16	.49	1951	30	.70	1977	.00	1991	2.9	.7	.0	.0	.00	.02	.04	.07	.10	.14	.19	.24	.33	.46	.60	
May	.99	.88	1.04	1968	27	2.59	1975	.05	1980	7.4	2.8	.4	.0	.11	.19	.33	.46	.61	.78	.97	1.21	1.54	2.08	2.60	
Jun	1.90	1.80	1.57	1968	26	4.42	2000	.43	1976	11.1	5.3	1.0	.1	.68	.86	1.12	1.33	1.54	1.75	1.99	2.26	2.60	3.13	3.62	
Jul	2.30	2.07	2.79	2001	23	4.53	1992	.44	1990	13.0	6.6	1.0	.1	.62	.84	1.17	1.46	1.75	2.05	2.38	2.77	3.28	4.08	4.83	
Aug	1.38	1.42	1.24	1958	16	2.96	2000	.32	1978	11.3	4.7	.4	.0	.42	.55	.75	.91	1.08	1.25	1.44	1.66	1.95	2.39	2.81	
Sep	.89	.84	1.12	1977	22	3.52	2000	.02	1986	8.1	3.2	.1	.0	.07	.12	.24	.36	.50	.65	.84	1.08	1.41	1.97	2.52	
Oct	.49	.48	.70	1965	29	1.32	1981	.06	1979	8.0	1.5	.1	.0	.10	.14	.22	.28	.35	.42	.50	.59	.72	.92	1.11	
Nov	.31	.27	.53	1981	27	1.05	1993	.03	1997	6.9	.7	.0	.0	.06	.09	.13	.18	.22	.26	.31	.38	.46	.59	.72	
Dec	.25	.23	.39	1963	10	.77	1971	.06	1995	6.1	.7	.0	.0	.07	.09	.13	.16	.19	.23	.26	.31	.36	.45	.53	
Ann	9.37	9.31	2.79	Jul 2001	23	4.53	Jul 1992	.00+	Feb 2000	88.8	28.0	3.0	.2	6.24	6.83	7.59	8.18	8.71	9.22	9.75	10.34	11.05	12.11	13.02	

+ 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

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

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1971-2000

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Station: NORTHWAY AP, AK

COOP ID: 506586

Climate Division: AK 8

NWS Call Sign: ORT

Elevation: 1,713 Feet

Lat: 62° 58N

Lon: 141° 56W

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	4.4	3.8	14	14	8.0	1978	21	13.8	1986	50	1972	21	42	1972	6.0	1.2	.2	.1	.0	27.8	27.8	27.6	22.2
Feb	3.4	2.0	15	16	4.4	1985	5	10.0	1985	32	1972	4	27	1972	5.0	.8	.2	.0	.0	26.0	26.0	26.0	22.7
Mar	3.4	2.4	15	15	5.5	1994	9	9.7	1996	29+	1984	13	24	1982	3.9	1.1	.2	@	.0	28.6	28.6	28.4	24.5
Apr	1.8	.9	6	6	4.0	1987	17	8.4	1987	23	1982	5	17	1982	1.9	.7	.1	.0	.0	20.3	17.9	14.1	8.9
May	1.0	.0	#	0	5.7	1999	1	6.1	1989	10	1982	1	2	1972	.5	.3	.1	.1	.0	1.0	.5	.3	@
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	.1	.0	0	0	3.0	1974	23	4.0	1974	0	0	0	0	0	.1	.1	@	.0	.0	.0	.0	.0	.0
Sep	1.5	.3	#	0	4.0+	1992	18	15.0	1992	9	1992	23	3	1992	1.5	.6	.1	.0	.0	1.1	.5	.3	.0
Oct	6.4	5.3	1	2	8.3	1996	30	17.1	1982	15	1988	31	8	1992	6.1	2.4	.3	.1	.0	14.7	8.0	2.4	.4
Nov	5.8	5.1	6	6	8.1	1981	27	16.7	1991	18	1988	13	15	1988	7.6	2.0	.2	.1	.0	26.7	21.9	16.6	8.4
Dec	4.4	4.2	10	10	5.0	1999	20	8.3	1999	21	1991	26	19	1994	6.3	1.6	.1	.0	.0	28.1	28.0	26.7	14.3
Ann	32.2	24.0	N/A	N/A	8.3	Oct 1996	30	17.1	Oct 1982	50	Jan 1972	21	42	Jan 1972	38.9	10.8	1.5	.4	.0	174.3	159.2	142.4	101.4

+ 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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Elevation: 1,713 Feet

Lat: 62° 58N

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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	6/26	6/22	6/18	6/14	6/10	6/06	6/01	5/26
32	6/11	6/07	6/03	6/01	5/29	5/27	5/24	5/21	5/16
28	5/24	5/21	5/18	5/16	5/14	5/12	5/10	5/08	5/05
24	5/14	5/11	5/09	5/08	5/06	5/04	5/02	4/30	4/27
20	5/07	5/03	4/30	4/28	4/26	4/24	4/21	4/19	4/15
16	5/01	4/27	4/24	4/22	4/20	4/18	4/16	4/13	4/10
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	8/10	8/13	8/15	8/17	8/19	8/20	8/22	8/24	8/27
32	8/18	8/21	8/24	8/26	8/28	8/30	9/02	9/04	9/08
28	8/24	8/29	9/01	9/03	9/06	9/08	9/11	9/14	9/18
24	9/04	9/09	9/12	9/15	9/18	9/21	9/24	9/27	10/02
20	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/06	10/11
16	9/18	9/23	9/26	9/29	10/02	10/05	10/08	10/11	10/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	88	80	74	70	65	60	56	50	42
32	108	102	98	94	91	87	83	79	73
28	128	123	120	117	114	111	108	104	99
24	153	146	142	138	134	131	127	122	116
20	172	165	160	156	152	148	144	139	132
16	184	177	172	168	164	160	156	151	145

* 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:
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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	2523	2041	1729	1054	610	282	174	333	682	1360	2032	2415	15235
60	2368	1901	1574	904	456	146	50	198	535	1205	1882	2260	13479
57	2275	1817	1481	814	366	84	12	134	449	1112	1792	2167	12503
55	2213	1761	1419	757	310	54	4	100	394	1050	1732	2105	11899
50	2058	1621	1264	614	186	12	0	40	270	895	1582	1950	10492
32	1500	1117	713	200	9	0	0	0	26	382	1042	1392	6381

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	7	136	421	708	850	694	334	45	0	0	3195
55	0	0	0	2	10	72	141	81	12	0	0	0	318
57	0	0	0	0	4	42	87	53	7	0	0	0	193
60	0	0	0	0	0	14	32	24	3	0	0	0	73
65	0	0	0	0	0	0	1	4	0	0	0	0	5
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	9	187	470	598	441	125	0	0	0	0	0	0	9	196	666	1264	1705	1830	1830	1830	1830
45	0	0	0	1	81	324	443	290	45	0	0	0	0	0	0	1	82	406	849	1139	1184	1184	1184	1184
50	0	0	0	0	29	184	290	158	8	0	0	0	0	0	0	0	29	213	503	661	669	669	669	669
55	0	0	0	0	4	78	145	61	1	0	0	0	0	0	0	0	4	82	227	288	289	289	289	289
60	0	0	0	0	0	23	43	20	0	0	0	0	0	0	0	0	0	23	66	86	86	86	86	86
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	0	17	130	267	331	250	87	0	0	0	0	0	0	17	147	414	745	995	1082	1082	1082	1082

(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