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: COUNCIL, ID **COOP ID: 102187**

Climate Division: ID 5 **NWS Call Sign:** **Elevation: 2,950 Feet** **Lat: 44˚44N** **Lon: 116˚26W**

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 >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	33.7	16.8	25.3	54	1953	31	32.7	1981	-26	1979	31	12.7	1979	1232	0	.0	.0	.2	12.5	29.4	4.8
Feb	40.1	20.9	30.5	62+	1992	26	39.8	1991	-27+	1989	7	17.1	1989	966	0	.0	.0	3.0	4.1	25.4	2.1
Mar	51.1	29.1	40.1	77	1978	29	46.8	1992	-12	1993	1	29.7	1976	772	0	.0	.0	18.0	.3	22.3	.1
Apr	62.0	35.1	48.6	90+	1987	28	55.1	1987	15+	1993	19	42.0	1975	492	0	.0	.1	28.1	.0	10.7	.0
May	71.5	41.9	56.7	98+	1986	31	61.9	1992	21	1985	12	51.5	1977	273	15	.0	.9	30.8	.0	3.1	.0
Jun	80.7	48.6	64.7	104+	1974	15	71.2	1977	30+	1976	26	58.0	1993	110	99	.3	5.6	30.0	.0	.2	.0
Jul	90.9	55.1	73.0	107	1999	29	79.0	1985	35	1986	18	64.2	1993	22	270	3.4	18.9	31.0	.0	.0	.0
Aug	90.8	54.3	72.6	109	1961	3	77.9	1971	30	1992	25	67.0	1993	23	258	3.1	18.8	31.0	.0	@	.0
Sep	80.3	44.8	62.6	102+	1955	6	68.9	1990	21	1954	30	56.1	1985	149	75	.1	5.6	30.0	.0	1.8	.0
Oct	65.9	34.9	50.4	93	1992	2	58.4	1988	15	1991	31	45.7	1985	454	2	.0	.1	29.7	.0	13.7	.0
Nov	47.0	26.7	36.9	73	1962	1	42.1	1999	-20	1985	23	27.3	1985	846	0	.0	.0	9.8	1.5	22.2	.4
Dec	35.2	18.3	26.8	59+	1995	13	33.7	1977	-38	1983	27	13.8	1985	1186	0	.0	.0	.8	10.4	29.4	2.7
Ann	62.4	35.5	49.0	109	Aug 1961	3	79.0	Jul 1985	-38	Dec 1983	27	12.7	Jan 1979	6525	719	6.9	50.0	242.4	28.8	158.2	10.1

\+ 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: 1948-2001

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

Issue Date: February 2004

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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	3.03	3.41	2.40	1954	17	5.58	1995	.09	1991
Feb	2.88	3.29	4.10	1982	16	6.30	1982	.10	1997
Mar	2.56	2.37	1.29	1983	30	7.09	1983	.11	1994
Apr	1.95	2.16	1.50	1996	23	5.55	1978	.00	1999
May	2.05	1.77	1.00	1952	8	5.08	1996	.18	1997
Jun	1.49	1.30	1.77	1958	9	4.46	1993	.33	1994
Jul	.67	.47	1.97	1976	18	2.35	1976	.00+	1999
Aug	.58	.42	1.09	1975	23	2.19	1975	.00+	2000
Sep	1.11	.74	1.56	1998	9	3.72	1985	.00+	1999
Oct	1.57	1.31	1.69	1975	7	5.83	1975	.00+	1987
Nov	3.28	2.80	2.30	1953	22	9.85	1973	.06	1976
Dec	3.19	2.65	1.87	1982	22	7.84	1996	.05	2000
Ann	24.36	22.36	4.10	Feb 1982	16	9.85	Nov 1973	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	7.3	1.9	.5
Feb	8.0	5.3	1.2	.3
Mar	9.4	5.9	1.1	.1
Apr	7.9	4.7	.8	.1
May	8.1	5.2	1.2	.0
Jun	6.9	3.9	.7	.1
Jul	3.3	1.5	.3	@
Aug	3.8	1.6	.3	@
Sep	4.6	2.6	.6	.1
Oct	5.9	3.9	1.0	.2
Nov	11.0	7.5	1.5	.3
Dec	9.2	6.6	1.9	.4
Ann	88.8	56.0	12.5	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	.38	.62	1.05	1.47	1.92	2.41	2.99	3.70	4.67	6.25	7.78
Feb	.42	.66	1.07	1.47	1.89	2.34	2.87	3.52	4.38	5.80	7.16
Mar	.60	.84	1.21	1.55	1.88	2.24	2.63	3.11	3.73	4.71	5.64
Apr	.13	.33	.63	.92	1.22	1.56	1.94	2.41	3.05	4.09	5.10
May	.35	.53	.83	1.11	1.40	1.71	2.07	2.50	3.07	4.00	4.88
Jun	.34	.48	.70	.90	1.09	1.30	1.53	1.81	2.17	2.75	3.30
Jul	.00	.00	.07	.21	.34	.49	.65	.86	1.14	1.59	2.06
Aug	.00	.00	.06	.16	.26	.38	.53	.72	.99	1.43	1.87
Sep	.00	.00	.06	.24	.44	.69	.98	1.36	1.89	2.79	3.72
Oct	.00	.12	.38	.62	.89	1.18	1.53	1.95	2.54	3.51	4.47
Nov	.55	.84	1.32	1.76	2.23	2.73	3.30	4.00	4.93	6.43	7.87
Dec	.28	.50	.93	1.37	1.86	2.41	3.06	3.88	5.01	6.89	8.74
Ann	15.40	17.06	19.22	20.89	22.40	23.87	25.40	27.11	29.21	32.29	34.99

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete 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	19.1	18.8	10	7
Feb	8.2	5.8	7	3
Mar	2.1	.0	2	0
Apr	.1	.0	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	6.8	.5	1	0
Dec	10.8	7.8	4	1
Ann	47.2	32.9	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	12.0	1976	5	49.8	1976	33	1989	23	30	1993
Feb	9.0	1976	16	22.5	1975	34+	1989	17	26	1985
Mar	6.0	1975	17	9.0+	1985	31	1985	7	18+	1989
Apr	.5	1975	2	.5	1975	2	1985	1	#+	1985
May	#	1978	25	#	1978	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	2.5	1985	22	2.5	1985	3	1985	22	#	1985
Nov	12.0	1975	30	35.0	1973	28	1973	25	5	1973
Dec	15.0	1992	17	35.0	1974	27	1971	14	17	1988
Ann	15.0	Dec 1992	17	49.8	Jan 1976	34+	Feb 1989	17	30	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.0	5.2	2.5	1.3	.2
Feb	3.6	3.2	1.0	.3	.0
Mar	.8	.8	.3	.1	.0
Apr	.1	.0	.0	.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	.1	.0	.0	.0
Nov	1.3	1.2	.9	.7	.1
Dec	4.1	3.7	1.9	1.1	.1
Ann	16.0	14.2	6.6	3.5	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	12.2	10.9	9.5	6.4
Mar	1.9	1.5	1.2	.6
Apr	.0	.0	.0	.0
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	.1	.1	.0	.0
Nov	1.3	1.1	.9	.6
Dec	8.2	7.8	6.7	2.5
Ann	-9.9	-9.9	-9.9	-9.9

+ 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

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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	7/05	6/27	6/22	6/18	6/13	6/09	6/05	5/30	5/23
32	6/12	6/04	5/30	5/25	5/21	5/16	5/11	5/06	4/28
28	5/16	5/10	5/05	5/01	4/27	4/24	4/20	4/15	4/08
24	5/05	4/26	4/20	4/15	4/10	4/06	3/31	3/26	3/17
20	4/14	4/04	3/29	3/23	3/18	3/12	3/07	2/28	2/19
16	3/25	3/16	3/10	3/04	2/27	2/22	2/16	2/10	2/01

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	9/01	9/06	9/09	9/12	9/15	9/17	9/20	9/23	9/28
32	9/12	9/17	9/21	9/24	9/27	9/30	10/03	10/07	10/12
28	9/19	9/25	9/29	10/02	10/05	10/09	10/12	10/16	10/22
24	10/05	10/10	10/13	10/17	10/20	10/23	10/26	10/30	11/04
20	10/14	10/20	10/25	10/28	11/01	11/04	11/08	11/12	11/18
16	11/02	11/08	11/13	11/17	11/20	11/24	11/28	12/03	12/09

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	118	109	103	97	92	87	82	75	67
32	151	143	138	133	129	125	120	115	107
28	182	175	169	165	160	156	151	146	138
24	220	210	203	197	192	186	180	173	163
20	260	248	241	234	227	221	214	206	195
16	298	287	279	272	266	259	252	245	234

***** 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	1232	966	772	492	273	110	22	23	149	454	846	1186	6525
60	1077	826	617	350	154	47	5	5	73	308	696	1031	5189
57	984	742	530	270	100	24	1	2	42	229	606	938	4468
55	922	688	472	221	70	15	0	1	28	182	546	876	4021
50	768	558	335	123	23	3	0	0	7	88	404	721	3030
32	288	180	44	1	0	0	0	0	0	0	61	247	821

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	80	138	295	499	765	979	1271	1258	916	571	205	84	7061
55	0	2	10	29	123	304	559	545	253	40	0	0	1865
57	0	0	6	17	90	253	498	484	208	25	0	0	1581
60	0	0	0	8	51	186	409	395	149	10	0	0	1208
65	0	0	0	0	15	99	270	258	75	2	0	0	719
70	0	0	0	0	3	41	158	147	30	0	0	0	379

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	8	87	282	527	746	1021	1006	669	316	46	0	0	8	95	377	904	1650	2671	3677	4346	4662	4708	4708
45	0	1	28	156	374	596	866	851	520	188	12	0	0	1	29	185	559	1155	2021	2872	3392	3580	3592	3592
50	0	0	1	71	239	450	711	696	375	90	0	0	0	0	1	72	311	761	1472	2168	2543	2633	2633	2633
55	0	0	0	26	128	308	556	541	247	30	0	0	0	0	0	26	154	462	1018	1559	1806	1836	1836	1836
60	0	0	0	5	56	187	404	388	134	11	0	0	0	0	0	5	61	248	652	1040	1174	1185	1185	1185
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	9	71	199	343	472	630	620	449	252	30	0	0	9	80	279	622	1094	1724	2344	2793	3045	3075	3075

(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 and precipitation were calculated from a serially complete daily data set .
Documentation of the serially complete data set is available from the link below:

g. Snowfall and snow depth statistics were derived from 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 difference 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.

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. Snow Climatology
   2. 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
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf