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: CAMBRIDGE, ID **COOP ID: 101408**

Climate Division: ID 5 **NWS Call Sign:** **Elevation: 2,650 Feet** **Lat: 44˚34N** **Lon: 116˚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 >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	30.8	15.1	23.0	54+	1953	8	31.7	1990	-34	1937	21	10.0	1985	1304	0	.0	.0	@	15.2	30.3	5.1
Feb	38.1	19.6	28.9	65	1992	28	36.6	1978	-31	1989	7	13.2	1989	1012	0	.0	.0	2.3	6.6	26.1	2.3
Mar	51.7	29.2	40.5	78+	1978	29	47.7	1992	-11	1993	1	29.1	1976	761	0	.0	.0	18.3	.5	21.6	.1
Apr	63.0	35.5	49.3	92	1939	29	54.4	1990	10	1936	1	43.1	1975	473	0	.0	@	28.5	.0	11.7	.0
May	72.0	42.4	57.2	99	1934	28	62.7	1992	22+	1974	16	53.0	1977	254	11	.0	.9	30.7	.0	3.5	.0
Jun	81.0	49.3	65.2	109+	1940	20	71.0	1977	28	1984	1	60.6	1993	92	97	.3	6.0	30.0	.0	.4	.0
Jul	90.6	54.5	72.6	117	1934	29	77.3	1985	32+	1981	8	63.9	1993	19	253	3.1	19.3	31.0	.0	@	.0
Aug	89.8	52.7	71.3	110	1934	16	75.7	1986	28+	1964	29	66.6	1993	27	221	2.2	18.1	31.0	.0	@	.0
Sep	79.5	43.1	61.3	103+	1998	4	68.5	1990	18	1961	24	55.5	1985	174	63	.1	5.2	30.0	.0	2.6	.0
Oct	65.0	33.8	49.4	95	1997	1	56.7	1988	10	1935	21	45.8	1995	484	1	.0	.1	29.3	.0	14.9	.0
Nov	45.1	26.5	35.8	73	1931	2	40.6	1999	-16	1985	23	26.6	1985	876	0	.0	.0	9.1	1.8	22.8	.5
Dec	32.6	16.8	24.7	65	1939	11	32.8	1977	-28	1948	24	10.5	1985	1250	0	.0	.0	.6	13.0	30.0	3.2
Ann	61.6	34.9	48.3	117	Jul 1934	29	77.3	Jul 1985	-34	Jan 1937	21	10.0	Jan 1985	6726	646	5.7	49.6	240.8	37.1	163.9	11.2

\+ 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: 1931-2001

(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	2.88	2.91	2.30	1952	10	5.32	1995	.41	1985
Feb	2.68	2.42	1.50+	2000	23	8.73	1999	.66	1977
Mar	2.18	1.80	1.66	1950	16	5.10	1983	.19	1994
Apr	1.35	1.39	1.01	1937	6	3.34	1978	.20	1977
May	1.52	1.20	1.25	1958	12	7.27	1998	.27	1974
Jun	1.04	.86	2.60	1956	4	3.45	1993	.05	1973
Jul	.44	.29	.88	1976	18	2.13	1997	.00+	1979
Aug	.46	.24	1.03	1995	16	2.16	1976	.00+	1991
Sep	.83	.60	1.61	1989	17	3.14	1986	.00+	1999
Oct	1.17	1.07	1.49	1956	30	4.16	1975	.00+	1988
Nov	2.75	2.33	1.77	1963	8	7.25	1973	.02	1976
Dec	3.20	2.93	1.45+	1945	27	9.39	1996	.02	1976
Ann	20.50	18.70	2.60	Jun 1956	4	9.39	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.2	7.9	1.7	.1
Feb	9.9	7.3	1.6	.1
Mar	9.9	6.6	1.1	.0
Apr	7.1	4.5	.5	.0
May	7.6	4.4	.8	.0
Jun	5.8	3.3	.3	@
Jul	2.9	1.4	.1	.0
Aug	3.1	1.3	.2	@
Sep	3.9	2.3	.3	.1
Oct	5.3	3.3	.7	@
Nov	10.9	7.7	1.4	.3
Dec	10.6	7.9	2.1	.4
Ann	87.2	57.9	10.8	1.0

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	.92	1.19	1.60	1.94	2.27	2.62	3.00	3.44	4.01	4.89	5.71
Feb	.67	.93	1.32	1.66	2.00	2.36	2.76	3.24	3.86	4.85	5.77
Mar	.49	.69	1.01	1.30	1.58	1.89	2.23	2.64	3.18	4.03	4.84
Apr	.31	.44	.63	.81	.99	1.18	1.39	1.64	1.97	2.49	2.98
May	.26	.40	.62	.82	1.04	1.27	1.53	1.85	2.27	2.96	3.62
Jun	.13	.21	.36	.51	.66	.83	1.03	1.27	1.61	2.15	2.68
Jul	.00	.00	.07	.14	.22	.31	.41	.55	.73	1.05	1.36
Aug	.00	.00	.02	.06	.13	.22	.34	.51	.77	1.23	1.72
Sep	.00	.00	.05	.20	.36	.54	.76	1.04	1.42	2.06	2.73
Oct	.00	.00	.28	.49	.69	.91	1.17	1.48	1.90	2.58	3.25
Nov	.39	.62	1.02	1.40	1.80	2.24	2.74	3.37	4.20	5.57	6.88
Dec	.35	.59	1.03	1.48	1.96	2.49	3.12	3.91	4.97	6.74	8.46
Ann	13.77	15.04	16.69	17.95	19.08	20.17	21.31	22.57	24.11	26.36	28.31

\+ 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: 1931-2001
(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	14.6	12.5	13	14
Feb	5.8	5.5	9	5
Mar	2.1	.0	1	0
Apr	#	.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	#	.0	0	0
Nov	8.4	4.1	#	0
Dec	12.0	11.4	6	4
Ann	42.9	33.5	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	14.0	1982	23	34.5	1989	31	1982	23	28	1982
Feb	7.5	1984	16	13.0	1986	30	1982	13	29	1984
Mar	6.0	1972	2	10.0	1976	11	1982	1	10	1982
Apr	#	1982	15	#+	1982	0	0	0	0	0
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	#	1991	29	#+	1991	0	0	0	0	0
Nov	11.0	1984	30	29.0	1984	18	1973	27	4	1979
Dec	10.0	1971	5	29.0	1971	30	1984	29	30	1984
Ann	14.0	Jan 1982	23	34.5	Jan 1989	31	Jan 1982	23	30	Dec 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.1	3.1	1.9	1.0	.2
Feb	2.0	2.0	1.0	.4	.0
Mar	.8	.8	.4	.1	.0
Apr	.0	.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	.0	.0	.0	.0	.0
Nov	2.1	2.0	1.3	.6	@
Dec	4.0	3.8	2.3	.9	.2
Ann	12.0	11.7	6.9	3.0	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
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	.0	.0	.0	.0
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
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	6/30	6/24	6/19	6/15	6/12	6/09	6/05	5/31	5/25
32	6/18	6/10	6/04	5/31	5/26	5/22	5/17	5/11	5/03
28	5/19	5/13	5/09	5/06	5/02	4/29	4/25	4/21	4/15
24	5/07	4/28	4/22	4/17	4/12	4/07	4/02	3/27	3/18
20	4/10	4/02	3/27	3/22	3/17	3/13	3/08	3/02	2/22
16	3/19	3/11	3/06	3/01	2/25	2/20	2/15	2/10	2/02

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	8/26	8/31	9/04	9/07	9/10	9/13	9/16	9/20	9/25
32	9/10	9/14	9/18	9/21	9/23	9/26	9/29	10/02	10/07
28	9/15	9/21	9/25	9/29	10/03	10/06	10/10	10/14	10/20
24	9/28	10/03	10/07	10/10	10/13	10/16	10/20	10/24	10/29
20	10/14	10/19	10/23	10/26	10/28	10/31	11/03	11/07	11/11
16	10/30	11/06	11/10	11/15	11/19	11/22	11/27	12/02	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	115	106	100	94	89	84	79	72	64
32	145	137	130	125	119	114	109	102	94
28	175	167	162	157	153	148	144	138	131
24	212	202	195	189	184	178	172	165	155
20	253	243	236	230	224	219	212	205	196
16	295	285	278	272	266	261	254	247	237

***** 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	1304	1012	761	473	254	92	19	27	174	484	876	1250	6726
60	1149	872	609	329	134	34	3	6	90	333	726	1095	5380
57	1056	788	523	247	80	15	0	2	54	247	636	1002	4650
55	994	734	465	198	53	8	0	1	36	195	576	940	4200
50	840	603	332	101	13	0	0	0	10	90	434	785	3208
32	350	211	51	1	0	0	0	0	0	0	78	301	992

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	69	123	312	517	781	995	1257	1217	879	540	192	74	6956
55	0	2	14	25	120	314	544	505	225	22	0	0	1771
57	0	0	10	14	86	261	483	444	183	12	0	0	1493
60	0	0	2	6	46	189	393	355	129	4	0	0	1124
65	0	0	0	0	11	97	253	221	63	1	0	0	646
70	0	0	0	0	1	38	140	117	24	0	0	0	320

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	95	280	529	755	1007	968	640	304	43	1	0	8	103	383	912	1667	2674	3642	4282	4586	4629	4630
45	0	0	28	158	376	605	852	813	490	177	6	0	0	0	28	186	562	1167	2019	2832	3322	3499	3505	3505
50	0	0	1	72	239	455	697	658	346	82	0	0	0	0	1	73	312	767	1464	2122	2468	2550	2550	2550
55	0	0	0	20	128	312	542	504	220	28	0	0	0	0	0	20	148	460	1002	1506	1726	1754	1754	1754
60	0	0	0	3	50	188	392	354	111	6	0	0	0	0	0	3	53	241	633	987	1098	1104	1104	1104
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	8	74	207	352	480	620	599	442	248	22	0	0	8	82	289	641	1121	1741	2340	2782	3030	3052	3052

(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