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: MILFORD 2 SE, DE **COOP ID: 075915**

Climate Division: DE 2 **NWS Call Sign:** **Elevation: 35 Feet** **Lat: 38˚54N** **Lon: 75˚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	42.8	24.4	33.6	75+	1950	25	41.8	1990	-7	1982	18	22.7	1977	974	0	.0	.0	7.1	3.8	23.3	.3
Feb	44.9	24.9	34.9	78	2000	26	42.7	1976	-4+	1961	2	23.1	1978	842	0	.0	.0	10.4	3.2	21.8	.2
Mar	54.2	33.4	43.8	84+	1979	31	50.3	1977	4	1960	11	38.6	1984	658	0	.0	.0	21.6	.3	13.2	.0
Apr	64.0	42.2	53.1	93	1957	27	57.6	1994	20	1969	1	48.2	1975	359	2	.0	.4	29.0	.0	2.8	.0
May	73.3	52.3	62.8	96	1963	4	68.4	1991	30+	1966	11	59.1	1992	119	50	.0	.7	31.0	.0	@	.0
Jun	81.7	61.8	71.8	102	1959	29	75.0	1994	40+	1967	1	67.7	1972	10	213	.1	4.5	30.0	.0	.0	.0
Jul	86.7	66.7	76.7	103	1949	5	78.9	1999	47	1979	6	73.3	2000	0	361	.3	9.3	31.0	.0	.0	.0
Aug	84.6	64.9	74.8	103	1975	26	78.6	1980	43+	1964	15	70.8	1992	2	304	.1	5.9	31.0	.0	.0	.0
Sep	78.3	57.1	67.7	99+	1970	23	72.3	1980	34+	1963	25	65.4	1984	30	111	.0	2.2	30.0	.0	.0	.0
Oct	68.0	45.8	56.9	91+	1954	4	62.7	1984	19	1969	24	51.9	1988	268	17	.0	@	30.8	.0	1.7	.0
Nov	57.5	36.4	47.0	86	1950	1	53.7	1985	13	1955	29	40.1	1976	542	0	.0	.0	24.1	.1	8.8	.0
Dec	47.9	29.4	38.7	76	2001	5	44.8	1984	2+	1958	16	25.5	1989	818	0	.0	.0	13.7	2.1	21.3	.0
Ann	65.3	44.9	55.2	103+	Aug 1975	26	78.9	Jul 1999	-7	Jan 1982	18	22.7	Jan 1977	4622	1058	.5	23.0	289.7	9.5	92.9	.5

\+ 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	4.08	3.74	2.22	1987	2	7.69	1987	.79	1981
Feb	3.17	2.74	1.82	1988	12	7.44	1979	1.14	1978
Mar	4.51	4.08	3.71	2000	22	9.04	1994	1.56	1986
Apr	3.50	3.27	2.14	1952	27	7.07	1983	.54	1985
May	4.03	4.13	2.91	1990	5	9.38	1990	.69	1986
Jun	3.31	2.99	4.41	1969	15	7.36	1972	.85	1976
Jul	3.69	3.15	4.00	1959	10	10.81	1975	1.05	1974
Aug	4.61	4.51	6.50	1958	25	9.62	1985	1.01	1987
Sep	4.08	3.84	7.23	1960	12	9.97	1999	.39	1986
Oct	3.48	3.13	4.08	1953	28	8.34	1976	.10	2000
Nov	3.32	3.54	3.03	1956	1	6.72	1997	.84	1974
Dec	3.59	3.03	2.78	1986	25	7.46	1996	.41	1988
Ann	45.37	43.58	7.23	Sep 1960	12	10.81	Jul 1975	.10	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.6	5.8	2.2	.8
Feb	9.2	6.0	2.2	.7
Mar	8.4	5.8	2.5	.9
Apr	11.1	6.9	2.8	.6
May	12.1	7.3	2.6	.9
Jun	7.6	5.1	1.6	.5
Jul	10.2	6.2	2.2	.9
Aug	9.9	6.5	2.9	1.4
Sep	9.1	5.8	2.5	1.2
Oct	6.5	4.1	1.8	.7
Nov	7.0	4.5	1.9	.6
Dec	7.9	4.8	1.8	.6
Ann	107.6	68.8	27.0	9.8

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	1.44	1.82	2.38	2.85	3.30	3.76	4.26	4.85	5.60	6.76	7.82
Feb	1.11	1.41	1.84	2.21	2.56	2.92	3.31	3.77	4.36	5.26	6.10
Mar	1.59	2.01	2.63	3.15	3.65	4.16	4.71	5.36	6.19	7.47	8.65
Apr	1.27	1.60	2.07	2.47	2.85	3.24	3.66	4.15	4.78	5.74	6.63
May	1.29	1.67	2.24	2.72	3.19	3.67	4.20	4.82	5.62	6.87	8.01
Jun	1.07	1.38	1.85	2.24	2.63	3.02	3.45	3.96	4.61	5.63	6.56
Jul	.95	1.30	1.84	2.31	2.77	3.26	3.81	4.45	5.30	6.63	7.87
Aug	1.56	2.00	2.64	3.18	3.70	4.23	4.81	5.49	6.37	7.72	8.97
Sep	1.19	1.58	2.16	2.67	3.16	3.67	4.24	4.91	5.77	7.12	8.38
Oct	.80	1.12	1.63	2.09	2.54	3.03	3.57	4.22	5.07	6.43	7.71
Nov	.93	1.25	1.73	2.14	2.55	2.97	3.44	4.00	4.72	5.85	6.91
Dec	.80	1.13	1.66	2.13	2.61	3.11	3.68	4.36	5.25	6.67	8.01
Ann	34.64	36.78	39.49	41.52	43.32	45.04	46.81	48.75	51.09	54.45	57.34

\+ 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

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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	5.6	5.0	1	#
Feb	6.9	3.3	1	#
Mar	1.2	.0	#	#
Apr	.3	.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	.0	#	0
Nov	.5	.0	#	0
Dec	1.8	.0	#	#
Ann	16.4	8.3	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	13.0	1987	26	19.5	1987	17	1987	26	3	1987
Feb	18.0	1979	19	31.3	1979	24	1979	19	7	1979
Mar	6.5	1978	3	11.5	1978	7	1980	2	2	1978
Apr	1.0	1982	7	2.0	1982	#+	2000	9	#+	2000
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	1.0	1979	10	1.0	1979	#	1979	10	#	1979
Nov	6.0	1989	23	6.0	1989	6	1989	23	#+	1989
Dec	8.0	1982	12	10.3	1989	8	1982	12	2	1989
Ann	18.0	Feb 1979	19	31.3	Feb 1979	24	Feb 1979	19	7	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.2	2.0	.8	.3	.1
Feb	2.0	1.8	.8	.4	.2
Mar	.4	.4	.1	.1	.0
Apr	.2	.2	.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	.2	.2	.1	.1	.0
Dec	.7	.6	.2	.1	.0
Ann	5.8	5.3	2.0	1.0	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	4.1	2.4	.9	.2
Feb	4.3	2.5	1.9	.6
Mar	.9	.4	.3	.0
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	.2	.1	.1	.0
Dec	1.8	.5	.3	.0
Ann	11.3	5.9	3.5	.8

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/08	5/01	4/26	4/22	4/18	4/14	4/10	4/05	3/29
32	4/25	4/19	4/15	4/12	4/09	4/06	4/02	3/29	3/24
28	4/13	4/08	4/04	4/01	3/29	3/26	3/22	3/18	3/13
24	4/01	3/26	3/22	3/18	3/15	3/12	3/08	3/04	2/26
20	3/26	3/18	3/12	3/07	3/02	2/25	2/20	2/13	2/03
16	3/13	3/05	2/27	2/22	2/17	2/12	2/06	1/31	1/21

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	9/30	10/06	10/10	10/13	10/16	10/19	10/23	10/27	11/01
32	10/09	10/15	10/19	10/22	10/25	10/28	11/01	11/04	11/10
28	10/21	10/27	10/31	11/04	11/07	11/11	11/14	11/19	11/25
24	11/01	11/11	11/18	11/25	12/01	12/07	12/13	12/21	12/31
20	11/21	11/29	12/05	12/10	12/15	12/20	12/25	1/01	1/11
16	11/29	12/09	12/16	12/22	12/28	1/03	1/09	1/17	1/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	201	193	187	181	174	168	160	150
32	227	217	210	204	199	193	187	180	170
28	250	241	234	228	223	218	212	206	196
24	293	282	273	266	260	254	247	238	227
20	335	314	303	294	286	279	271	261	249
16	>365	338	325	316	309	302	295	287	276

***** 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	974	842	658	359	119	10	0	2	30	268	542	818	4622
60	819	702	503	222	44	1	0	0	5	153	395	663	3507
57	726	618	413	152	20	0	0	0	1	101	313	575	2919
55	665	566	356	112	10	0	0	0	0	73	260	518	2560
50	522	436	224	43	1	0	0	0	0	27	149	378	1780
32	129	98	11	0	0	0	0	0	0	0	3	60	301

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	178	180	376	633	954	1193	1384	1326	1071	772	451	265	8783
55	1	4	8	55	251	503	671	613	381	132	18	10	2647
57	0	0	3	34	199	443	609	551	322	98	10	6	2275
60	0	0	0	14	131	354	516	458	236	57	3	0	1769
65	0	0	0	2	50	213	361	304	111	17	0	0	1058
70	0	0	0	0	12	100	208	165	32	3	0	0	520

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	51	78	210	426	750	979	1148	1101	871	570	288	104	51	129	339	765	1515	2494	3642	4743	5614	6184	6472	6576
45	22	38	116	282	595	829	993	946	721	418	177	47	22	60	176	458	1053	1882	2875	3821	4542	4960	5137	5184
50	7	17	61	156	440	679	838	791	571	273	98	23	7	24	85	241	681	1360	2198	2989	3560	3833	3931	3954
55	0	2	27	71	290	529	683	636	422	153	44	5	0	2	29	100	390	919	1602	2238	2660	2813	2857	2862
60	0	0	9	27	159	380	528	482	279	68	13	0	0	0	9	36	195	575	1103	1585	1864	1932	1945	1945
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	29	54	127	251	460	666	797	767	574	345	163	58	29	83	210	461	921	1587	2384	3151	3725	4070	4233	4291

(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 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