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: MILLINOCKET, ME **COOP ID: 175304**

Climate Division: ME 1 **NWS Call Sign:** **Elevation: 360 Feet** **Lat: 45˚39N** **Lon: 68˚42W**

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	23.4	2.1	12.8	57	1950	5	21.0	1990	-35+	1994	21	2.1	1994	1620	0	.0	.0	.4	24.0	30.5	14.5
Feb	27.2	4.2	15.7	62	1994	21	25.0	1981	-42	1962	2	5.1	1993	1382	0	.0	.0	.4	19.4	27.8	11.5
Mar	37.1	15.8	26.5	70+	1977	31	33.2	1977	-23	2001	3	20.4	1972	1194	0	.0	.0	3.2	9.7	28.7	3.4
Apr	49.4	29.7	39.6	87	1990	28	44.6	1987	-3	1964	1	35.0	1972	764	0	.0	.0	14.1	1.0	19.8	.0
May	63.9	41.3	52.6	96	1977	24	58.1	1998	20	1950	8	45.9	1974	390	5	.0	.3	28.6	.0	3.5	.0
Jun	73.3	51.6	62.5	96+	1994	18	67.2	1999	32	1958	7	59.2	1980	107	30	.0	.9	30.0	.0	.0	.0
Jul	78.5	57.3	67.9	97+	1955	10	70.9	1994	40+	1965	2	63.0	1992	26	114	.0	1.4	31.0	.0	.0	.0
Aug	76.7	54.9	65.8	100	1975	3	69.2	1984	32+	1986	29	61.9	1982	51	75	@	1.0	31.0	.0	@	.0
Sep	66.8	45.5	56.2	92	1999	4	63.7	1999	22+	1980	30	52.5	1978	273	7	.0	.1	29.7	.0	1.3	.0
Oct	54.4	34.3	44.4	81	1970	10	49.5	1995	15+	1972	21	39.4	1974	641	0	.0	.0	21.4	.0	12.8	.0
Nov	41.5	25.8	33.7	71	1956	1	38.2	1999	-5	1989	25	30.2	1986	940	0	.0	.0	6.4	4.9	22.9	.1
Dec	29.0	11.1	20.1	61+	1982	5	28.8	1996	-26+	1989	31	5.2	1989	1394	0	.0	.0	.8	18.3	29.8	7.2
Ann	51.8	31.1	41.5	100	Aug 1975	3	70.9	Jul 1994	-42	Feb 1962	2	2.1	Jan 1994	8782	231	@	3.7	197.0	77.3	177.1	36.7

\+ 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	3.37	3.02	1.96	1958	8	7.11	1979	.74	1985
Feb	2.39	2.14	2.97	1970	4	4.43	1996	.49	1987
Mar	3.08	3.05	2.44	1979	26	6.05	1972	1.11	1981
Apr	3.54	3.26	2.30	1983	25	8.72	1983	.90	1999
May	3.78	3.83	2.73	1989	12	9.38	1989	.39	1982
Jun	3.94	3.66	2.92	1972	2	8.60	1977	.93	1971
Jul	3.80	3.54	3.50	1996	14	7.38	1972	1.19	1991
Aug	3.95	3.60	4.16	1958	19	9.42	1991	.73	1987
Sep	3.67	3.45	4.48	1954	12	8.02	1981	1.37	1988
Oct	3.70	3.57	2.80	1981	24	8.77	1990	.86	1997
Nov	3.67	3.42	3.55	1950	26	9.33	1983	1.12	1996
Dec	3.45	2.66	3.48	1973	18	10.41	1973	.78	1989
Ann	42.34	40.07	4.48	Sep 1954	12	10.41	Dec 1973	.39	May 1982

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	6.7	2.4	.7
Feb	8.1	5.5	1.3	.4
Mar	10.3	6.8	2.0	.5
Apr	10.6	7.2	2.5	.6
May	12.0	7.8	2.5	.7
Jun	12.4	8.0	2.7	.7
Jul	12.2	7.6	2.5	.6
Aug	11.5	7.4	2.6	.9
Sep	11.1	6.8	2.3	.9
Oct	11.5	6.9	2.5	.9
Nov	11.3	7.5	2.5	.7
Dec	10.9	7.3	2.1	.7
Ann	131.9	85.5	27.9	8.3

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	1.09	1.41	1.88	2.28	2.67	3.07	3.51	4.03	4.69	5.72	6.67
Feb	.74	.97	1.31	1.60	1.88	2.17	2.49	2.86	3.35	4.10	4.80
Mar	1.36	1.64	2.02	2.33	2.63	2.92	3.23	3.60	4.05	4.74	5.37
Apr	.95	1.29	1.80	2.25	2.69	3.15	3.66	4.27	5.07	6.30	7.46
May	.88	1.23	1.79	2.28	2.77	3.29	3.88	4.58	5.49	6.94	8.31
Jun	1.46	1.83	2.36	2.80	3.22	3.65	4.12	4.66	5.36	6.42	7.40
Jul	1.36	1.72	2.23	2.67	3.08	3.51	3.97	4.51	5.19	6.25	7.23
Aug	1.12	1.50	2.07	2.56	3.04	3.54	4.10	4.75	5.60	6.94	8.18
Sep	1.63	1.96	2.42	2.79	3.13	3.48	3.85	4.28	4.82	5.63	6.37
Oct	1.13	1.48	2.01	2.46	2.90	3.35	3.85	4.44	5.20	6.38	7.48
Nov	1.45	1.79	2.27	2.67	3.05	3.43	3.85	4.33	4.94	5.88	6.73
Dec	.89	1.22	1.72	2.16	2.60	3.06	3.57	4.17	4.96	6.20	7.36
Ann	31.13	33.33	36.13	38.25	40.13	41.93	43.79	45.85	48.32	51.91	54.99

\+ 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

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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	23.1	23.8	9	0
Feb	16.4	13.3	12	0
Mar	16.9	15.0	6	0
Apr	7.2	7.0	1	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.4	.0	#	0
Nov	5.9	4.0	#	0
Dec	19.5	14.5	2	0
Ann	89.4	77.6	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	17.0	1986	4	46.0	1994	25+	1998	28	18	1998
Feb	16.0	1971	24	40.5	1971	28+	2000	18	20+	2000
Mar	19.0	1976	17	39.0	1971	30	1997	26	24	1997
Apr	10.0	1996	11	19.0	1974	19+	1997	2	6	1997
May	#	1972	2	#	1972	0	0	0	#	2000
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	3.5	1989	18	3.5	1989	3	1989	18	#	2000
Nov	8.0	1986	22	19.0	1974	10	1997	27	2	1997
Dec	12.0	1972	1	60.5	1972	18+	1995	27	11	1995
Ann	19.0	Mar 1976	17	60.5	Dec 1972	30	Mar 1997	26	24	Mar 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.2	6.1	3.1	1.6	.3
Feb	5.5	4.3	2.4	1.1	.2
Mar	5.6	4.6	2.2	1.3	.3
Apr	2.5	2.1	.9	.4	@
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	.2	.2	@	.0	.0
Nov	2.6	2.0	.9	.5	.0
Dec	6.8	5.7	2.6	1.2	.1
Ann	30.4	25.0	12.1	6.1	.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	@	@
Feb	@	@	@	@
Mar	@	@	@	@
Apr	2.3	1.7	1.5	.9
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	.2	@	.0	.0
Nov	2.6	.8	.6	.1
Dec	@	@	@	@
Ann	5.1	2.5	2.1	1.0

+ 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	6/07	6/03	5/30	5/27	5/25	5/22	5/19	5/16	5/11
32	5/25	5/21	5/18	5/16	5/14	5/11	5/09	5/06	5/02
28	5/07	5/03	5/01	4/29	4/27	4/25	4/23	4/20	4/17
24	4/27	4/22	4/19	4/16	4/13	4/11	4/08	4/05	3/31
20	4/18	4/14	4/11	4/08	4/06	4/03	4/01	3/29	3/24
16	4/12	4/07	4/04	4/02	3/30	3/28	3/25	3/22	3/18

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	9/09	9/14	9/17	9/19	9/22	9/24	9/27	9/30	10/04
32	9/16	9/21	9/24	9/27	9/29	10/02	10/05	10/08	10/12
28	9/30	10/04	10/06	10/08	10/10	10/12	10/14	10/17	10/20
24	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/02	11/07
20	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/18	11/23
16	11/07	11/11	11/14	11/17	11/19	11/22	11/25	11/28	12/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	141	134	128	124	120	115	111	106	98
32	155	149	145	141	138	135	131	127	121
28	179	175	171	168	166	163	160	157	152
24	214	207	202	197	193	189	184	179	172
20	236	229	224	220	216	212	208	204	197
16	253	247	242	237	233	229	225	220	213

***** 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.

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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	1620	1382	1194	764	390	107	26	51	273	641	940	1394	8782
60	1465	1242	1039	614	252	34	3	9	151	486	790	1239	7324
57	1372	1158	946	524	182	13	0	2	95	396	700	1146	6534
55	1310	1102	884	464	141	6	0	1	67	336	640	1084	6035
50	1155	962	729	318	64	1	0	0	22	202	490	929	4872
32	600	465	227	15	0	0	0	0	0	1	66	418	1792

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	3	7	56	241	638	913	1112	1047	724	383	116	48	5288
55	0	0	0	1	65	229	399	334	101	6	0	0	1135
57	0	0	0	0	44	176	337	274	70	3	0	0	904
60	0	0	0	0	21	107	246	188	36	1	0	0	599
65	0	0	0	0	5	30	114	75	7	0	0	0	231
70	0	0	0	0	0	3	34	16	0	0	0	0	53

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	9	85	404	684	871	813	500	186	39	0	0	0	9	94	498	1182	2053	2866	3366	3552	3591	3591
45	0	0	1	31	262	534	716	658	352	91	11	0	0	0	1	32	294	828	1544	2202	2554	2645	2656	2656
50	0	0	0	10	146	387	561	503	218	33	1	0	0	0	0	10	156	543	1104	1607	1825	1858	1859	1859
55	0	0	0	2	69	251	406	350	110	6	0	0	0	0	0	2	71	322	728	1078	1188	1194	1194	1194
60	0	0	0	0	25	133	254	203	45	0	0	0	0	0	0	0	25	158	412	615	660	660	660	660
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	8	64	235	411	558	510	284	104	19	0	0	0	8	72	307	718	1276	1786	2070	2174	2193	2193

(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