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: RUMFORD 1 SSE, ME **COOP ID: 177325**

Climate Division: ME 2 **NWS Call Sign:** **Elevation: 630 Feet** **Lat: 44˚32N** **Lon: 70˚32W**

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	27.1	7.0	17.1	61+	1950	5	25.0	1990	-36	1994	20	8.0	1994	1488	0	.0	.0	.6	20.2	30.4	10.3
Feb	31.0	9.6	20.3	61	1989	1	30.4	1981	-34	1962	2	13.3	1979	1252	0	.0	.0	1.1	15.1	27.2	7.5
Mar	40.1	20.3	30.2	81	1998	31	36.2	1977	-23	1972	10	24.0	1984	1079	0	.0	.0	5.8	6.3	27.1	1.8
Apr	52.2	32.3	42.3	90	1990	27	47.0	1986	-1	1964	1	36.5	1972	682	0	.0	@	17.0	.4	15.9	.0
May	66.2	43.0	54.6	96	1977	22	60.6	1998	23+	1956	25	48.1	1974	330	7	.0	.6	29.0	.0	2.4	.0
Jun	74.5	52.1	63.3	98+	1995	19	67.3	1999	31	1958	7	59.4	1982	96	44	.0	1.2	30.0	.0	.0	.0
Jul	79.3	57.1	68.2	98	1977	20	72.0	1994	38+	1962	3	62.8	1992	26	125	.0	1.9	31.0	.0	.0	.0
Aug	77.4	55.8	66.6	100	1975	2	70.1	1995	34	1965	31	63.8	1982	40	88	@	1.2	31.0	.0	.0	.0
Sep	68.9	47.1	58.0	92	1999	3	64.0	1999	25	1980	29	54.7	1978	218	8	.0	.2	29.7	.0	.7	.0
Oct	57.3	36.8	47.1	86	1963	7	52.1	1971	15	1959	22	42.2	1974	558	0	.0	.0	24.2	.0	10.3	.0
Nov	43.7	28.3	36.0	75	1950	2	40.6	1979	-2	1989	24	31.4	1986	870	0	.0	.0	7.6	2.9	21.4	@
Dec	31.8	14.6	23.2	67	1998	7	30.0	1998	-29	1951	17	7.4	1989	1296	0	.0	.0	1.2	15.5	29.6	4.5
Ann	54.1	33.7	43.9	100	Aug 1975	2	72.0	Jul 1994	-36	Jan 1994	20	7.4	Dec 1989	7935	272	@	5.1	208.2	60.4	165.0	24.1

\+ 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	3.39	3.18	3.27	1978	9	8.43	1978	.31	1981
Feb	2.31	2.17	2.51	1951	7	5.44	1981	.14	1987
Mar	3.71	3.49	4.42	1987	31	7.23	1999	.95	1988
Apr	3.82	3.61	2.59	1980	10	7.82	1983	.56	1999
May	3.94	3.61	2.67	1989	11	9.93	1989	.37	1992
Jun	4.38	3.91	3.89	1998	14	15.34	1998	1.64	1979
Jul	3.88	3.82	2.64	1995	17	8.55	1996	1.15	1989
Aug	4.25	4.27	3.47	1989	5	10.75	1991	.89	1996
Sep	3.64	3.17	4.27	1960	12	10.91	1999	.43	1978
Oct	3.98	3.77	3.40	1959	24	8.47	1990	.80	1994
Nov	4.24	3.86	3.69	1950	26	10.22	1983	1.58	1976
Dec	3.37	2.72	3.85	1969	27	12.66	1973	.74	1998
Ann	44.91	43.85	4.42	Mar 1987	31	15.34	Jun 1998	.14	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.1	6.2	2.5	.8
Feb	6.9	4.7	1.7	.5
Mar	9.2	6.3	2.3	1.0
Apr	10.8	7.3	2.4	1.0
May	12.0	7.9	2.5	.9
Jun	12.0	8.5	2.8	1.0
Jul	11.3	7.8	2.5	1.0
Aug	10.5	7.0	2.9	1.2
Sep	9.8	6.0	2.3	1.0
Oct	10.4	6.4	2.4	1.0
Nov	9.9	6.7	2.9	1.1
Dec	9.3	6.4	1.9	.6
Ann	121.2	81.2	29.1	11.1

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	.74	1.05	1.55	2.00	2.45	2.93	3.47	4.11	4.96	6.32	7.60
Feb	.57	.79	1.12	1.42	1.72	2.03	2.38	2.79	3.34	4.20	5.00
Mar	1.27	1.62	2.14	2.57	2.98	3.40	3.87	4.41	5.10	6.18	7.16
Apr	1.40	1.75	2.27	2.70	3.12	3.54	4.00	4.53	5.21	6.26	7.22
May	.85	1.21	1.79	2.31	2.84	3.40	4.03	4.79	5.79	7.38	8.89
Jun	1.60	2.01	2.60	3.10	3.57	4.05	4.58	5.19	5.97	7.17	8.27
Jul	1.41	1.77	2.30	2.74	3.16	3.59	4.05	4.60	5.29	6.36	7.34
Aug	1.44	1.84	2.43	2.93	3.40	3.90	4.43	5.06	5.86	7.10	8.25
Sep	.94	1.29	1.81	2.28	2.74	3.22	3.76	4.39	5.22	6.53	7.75
Oct	1.24	1.62	2.18	2.66	3.13	3.61	4.14	4.77	5.57	6.83	7.99
Nov	1.92	2.30	2.82	3.24	3.63	4.02	4.44	4.93	5.53	6.45	7.28
Dec	.78	1.09	1.58	2.02	2.47	2.93	3.46	4.08	4.91	6.22	7.45
Ann	34.19	36.31	39.01	41.04	42.82	44.54	46.30	48.23	50.57	53.92	56.80

\+ 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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Climate Division: ME 2 **NWS Call Sign:** **Elevation: 630 Feet** **Lat: 44°32N** **Lon: 70°32W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	23.3	22.0	14	13
Feb	15.9	13.8	18	18
Mar	14.3	14.5	13	11
Apr	6.7	4.0	2	1
May	#	.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	6.2	5.5	1	#
Dec	17.8	15.2	6	4
Ann	84.4	75.0	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	1977	10	53.0	1979	44	1987	31	36	1971
Feb	22.0	1978	7	38.0	1972	46	1978	8	40	1987
Mar	16.7	1984	14	30.0	1971	49	1971	12	37	1971
Apr	19.0	1975	3	22.0	1972	28	1975	5	11	1975
May	#	1978	1	#+	1978	#	1978	1	#	1978
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	4.0	1979	9	5.0	1979	1+	2000	29	#+	2000
Nov	13.0	1980	18	19.2	1971	13	1980	18	2	1995
Dec	14.0	1991	18	50.0	1972	35	1972	31	21	1972
Ann	22.0	Feb 1978	7	53.0	Jan 1979	49	Mar 1971	12	40	Feb 1987

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.8	6.1	3.1	1.9	.5
Feb	4.7	4.2	2.2	1.3	.1
Mar	4.3	4.1	1.8	1.1	.2
Apr	1.9	1.7	.9	.6	.1
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	.1	@	.0	.0
Nov	2.2	1.9	.6	.5	.1
Dec	5.9	5.2	2.4	1.3	.4
Ann	26.0	23.3	11.0	6.7	1.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	27.2	24.4	19.8	12.4
Feb	26.1	24.0	22.7	18.2
Mar	27.3	22.3	19.1	13.9
Apr	7.5	4.5	3.4	1.8
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	.0
Nov	5.3	2.8	1.6	.2
Dec	21.0	15.2	12.1	4.4
Ann	114.5	93.2	78.7	50.9

+ 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	6/05	6/01	5/28	5/25	5/22	5/20	5/17	5/13	5/08
32	5/21	5/17	5/14	5/12	5/10	5/07	5/05	5/02	4/28
28	5/03	4/29	4/26	4/24	4/21	4/19	4/17	4/14	4/10
24	4/22	4/18	4/15	4/12	4/09	4/07	4/04	4/01	3/28
20	4/15	4/10	4/07	4/04	4/02	3/30	3/27	3/24	3/19
16	4/11	4/06	4/02	3/30	3/27	3/24	3/20	3/17	3/11

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	9/13	9/16	9/19	9/21	9/23	9/25	9/28	9/30	10/04
32	9/23	9/27	9/29	10/02	10/04	10/06	10/08	10/11	10/14
28	10/02	10/06	10/10	10/12	10/15	10/17	10/20	10/23	10/28
24	10/11	10/17	10/22	10/26	10/29	11/02	11/06	11/10	11/17
20	10/29	11/04	11/08	11/11	11/15	11/18	11/21	11/25	12/01
16	11/10	11/15	11/19	11/22	11/25	11/28	12/01	12/04	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	139	134	130	126	123	120	117	113	107
32	164	158	154	150	146	143	139	135	129
28	195	188	183	179	176	172	168	163	157
24	223	216	211	206	202	198	194	189	182
20	248	241	235	231	226	222	217	212	205
16	268	259	253	247	242	237	232	226	217

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1488	1252	1079	682	330	96	26	40	218	558	870	1296	7935
60	1333	1112	924	532	200	30	3	6	105	405	720	1141	6511
57	1240	1028	831	443	137	11	0	1	59	317	630	1048	5745
55	1178	972	769	385	102	5	0	0	37	262	570	986	5266
50	1023	832	614	248	40	0	0	0	8	143	420	831	4159
32	478	344	149	8	0	0	0	0	0	0	45	336	1360

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	13	16	93	316	700	938	1122	1071	780	466	165	63	5743
55	0	0	0	3	89	253	409	358	127	14	0	0	1253
57	0	0	0	1	62	199	347	297	89	7	0	0	1002
60	0	0	0	0	32	128	257	209	45	2	0	0	673
65	0	0	0	0	7	44	125	88	8	0	0	0	272
70	0	0	0	0	0	8	41	21	0	0	0	0	70

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	20	134	465	708	890	840	549	238	51	2	0	0	20	154	619	1327	2217	3057	3606	3844	3895	3897
45	0	0	5	62	318	558	735	685	399	128	18	0	0	0	5	67	385	943	1678	2363	2762	2890	2908	2908
50	0	0	1	23	185	410	580	530	257	55	5	0	0	0	1	24	209	619	1199	1729	1986	2041	2046	2046
55	0	0	0	9	92	270	425	379	142	18	0	0	0	0	0	9	101	371	796	1175	1317	1335	1335	1335
60	0	0	0	0	34	149	274	231	64	2	0	0	0	0	0	0	34	183	457	688	752	754	754	754
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	16	88	277	435	577	536	324	136	30	1	0	0	16	104	381	816	1393	1929	2253	2389	2419	2420

(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