

# Climatology of the United States

## No. 20

### 1971-2000

**Station: FARMINGTON, ME**

**COOP ID: 172765**

**Climate Division: ME 2**

**NWS Call Sign:**

**Elevation: 420 Feet**

**Lat: 44° 41N**

**Lon: 70° 09W**

### 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	25.9	2.9	14.4	62	1932	14	22.1	1990	-39	1994	20	4.9	1982	1569	0	.0	.0	.5	22.6	30.8	15.4
Feb	30.2	6.4	18.3	61	1994	21	28.5	1981	-37	1962	2	8.8	1993	1308	0	.0	.0	.7	17.0	27.9	12.3
Mar	39.0	17.5	28.3	77	1945	29	34.9	1977	-25+	1982	2	21.7	1984	1140	0	.0	.0	4.3	8.0	29.4	3.9
Apr	51.5	28.9	40.2	90	1990	28	45.8	1986	-2	1969	1	35.6	1975	744	0	.0	@	15.7	.8	21.8	@
May	65.4	38.2	51.8	96	1929	29	57.4	1998	20	1950	8	46.1	1974	411	2	.0	.3	28.6	.0	7.1	.0
Jun	73.7	47.9	60.8	100	1944	29	65.3	1999	27	1980	10	56.8	1982	143	17	.0	.6	30.0	.0	.4	.0
Jul	78.6	53.2	65.9	98	1952	14	69.4	1994	32	1969	8	61.8	1992	45	74	.0	1.2	31.0	.0	.0	.0
Aug	76.9	51.4	64.2	101	1975	3	68.3	1973	29	1982	30	60.7	1982	79	52	@	.6	31.0	.0	.2	.0
Sep	68.1	41.9	55.0	95+	1939	16	61.0	1999	20+	1980	30	51.0	1978	303	2	.0	.1	29.8	.0	5.7	.0
Oct	56.7	33.1	44.9	90	1930	13	50.2	1971	11	1959	22	39.5	1974	622	0	.0	.0	23.7	.0	17.3	.0
Nov	43.2	25.7	34.5	75	1931	10	38.4	1999	-14	1989	24	31.0	1986	917	0	.0	.0	7.6	3.7	24.8	.3
Dec	31.2	11.9	21.6	65+	2001	6	29.3	1998	-31	1933	30	7.3	1989	1347	0	.0	.0	1.1	16.5	30.2	8.1
Ann	53.4	29.9	41.7	101	Aug 1975	3	69.4	Jul 1994	-39	Jan 1994	20	4.9	Jan 1982	8628	147	@	2.8	204.0	68.6	195.6	40.0

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1926-2001

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

# 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: FARMINGTON, ME

COOP ID: 172765

Climate Division: ME 2

NWS Call Sign:

Elevation: 420 Feet Lat: 44° 41N

Lon: 70° 09W

### Precipitation (inches)

		Precipitation Totals								Mean Number of Days (3)				Precipitation Probabilities (1)											
														Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
Means/Medians(1)		Extremes								Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels											
														These values were determined from the incomplete gamma distribution											
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	3.73	3.39	2.81	1986	27	9.23	1979	.53	1981	11.0	6.6	2.5	1.0	.84	1.19	1.74	2.23	2.72	3.24	3.83	4.53	5.45	6.91	8.29	
Feb	2.81	2.56	2.40	1952	18	6.25	1972	.65	1987	8.8	5.4	1.7	.8	.94	1.20	1.59	1.93	2.25	2.57	2.94	3.36	3.90	4.74	5.51	
Mar	4.03	4.03	3.53	1936	12	7.40	1999	.90	1981	12.0	7.3	2.6	1.0	1.61	1.98	2.50	2.94	3.35	3.77	4.22	4.74	5.41	6.42	7.35	
Apr	4.10	3.74	4.17	1987	1	7.90	1987	.29	1999	11.6	7.3	2.7	.8	1.22	1.61	2.19	2.69	3.18	3.69	4.25	4.91	5.77	7.11	8.35	
May	3.97	3.63	2.82	1989	13	9.91	1989	.39	1992	12.2	7.8	2.6	.8	.83	1.20	1.78	2.31	2.84	3.41	4.06	4.83	5.85	7.48	9.02	
Jun	4.50	4.27	5.72	1998	14	13.94	1998	1.21	1995	13.2	8.7	2.8	.9	1.50	1.93	2.55	3.09	3.60	4.12	4.70	5.37	6.23	7.57	8.81	
Jul	3.65	3.25	3.48	1996	14	9.77	1996	.55	1989	12.1	7.5	2.3	.6	1.02	1.36	1.89	2.35	2.79	3.26	3.78	4.39	5.19	6.43	7.60	
Aug	3.94	4.00	3.07	1991	20	8.94	1991	.43	1996	11.5	7.2	2.5	.9	1.04	1.41	1.98	2.48	2.97	3.49	4.07	4.75	5.64	7.04	8.35	
Sep	3.73	3.55	4.36	1999	17	9.68	1999	.59	1978	10.7	6.2	2.4	1.0	1.17	1.52	2.05	2.50	2.94	3.39	3.89	4.47	5.22	6.39	7.47	
Oct	4.06	3.59	3.42	1930	25	8.93	1990	.89	1982	11.0	6.8	2.7	1.1	1.12	1.51	2.09	2.60	3.10	3.63	4.21	4.89	5.79	7.19	8.49	
Nov	4.20	3.82	3.51	1943	23	10.35	1983	2.07	1978	12.2	7.4	2.9	1.1	2.01	2.37	2.87	3.27	3.64	4.01	4.40	4.86	5.42	6.27	7.04	
Dec	3.94	3.46	5.99	1969	28	14.40	1973	1.28	1992	12.4	7.4	2.5	.8	1.01	1.38	1.95	2.46	2.96	3.48	4.07	4.76	5.67	7.10	8.44	
Ann	46.66	46.11	5.99	Dec 1969	28	14.40	Dec 1973	.29	Apr 1999	138.7	85.6	30.2	10.8	34.93	37.25	40.19	42.41	44.37	46.25	48.19	50.32	52.89	56.60	59.79	

+ 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: 1926-2001

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

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## No. 20 1971-2000

Station: FARMINGTON, ME

COOP ID: 172765

Climate Division: ME 2

NWS Call Sign:

Elevation: 420 Feet

Lat: 44° 41N

Lon: 70° 09W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	22.8	22.0	16	14	15.0	1994	18	44.0	1979	45	1978	22	39	1971	6.8	6.6	2.8	1.5	.5	28.0	26.7	25.5	18.2
Feb	17.4	14.0	21	18	17.0	1978	8	51.0	1993	55	1971	24	43	1971	5.0	5.0	2.4	1.3	.3	24.2	23.9	23.6	21.2
Mar	16.3	15.5	17	16	19.0	1976	17	46.0	1993	56+	1993	16	41	1971	4.5	4.4	2.1	1.2	.4	22.5	22.4	22.2	19.9
Apr	7.3	7.0	5	1	14.0	1975	4	23.0	1972	31	1975	5	18	1982	2.5	2.5	1.1	.5	.1	5.2	5.1	4.6	3.0
May	.0	.0	#	0	1.0	1986	5	1.0	1986	1	1986	5	#+	1999	@	@	.0	.0	.0	@	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	#	.0	0	0	#	1978	16	#	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	#	#	0	5.0	2000	29	5.0	2000	4	2000	29	#+	2000	.3	.3	.1	@	.0	.2	.1	.0	.0
Nov	5.9	5.0	1	#	9.0	1971	26	17.0	1971	13	1971	30	4	1986	2.4	2.3	1.0	.3	.0	5.1	3.1	2.0	.4
Dec	19.4	15.0	8	7	15.0	1972	1	52.0	1972	35	1972	31	22	1989	6.0	5.9	2.8	1.3	@	19.9	18.2	15.6	7.4
Ann	89.5	78.5	N/A	N/A	19.0	Mar 1976	17	52.0	Dec 1972	56+	Mar 1993	16	43	Feb 1971	27.5	27.0	12.3	6.1	1.3	105.1	99.5	93.5	70.1

+ 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

Complete documentation available from:

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Station: FARMINGTON, ME

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Climate Division: ME 2

NWS Call Sign:

Elevation: 420 Feet

Lat: 44° 41N

Lon: 70° 09W

<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	6/22	6/18	6/14	6/12	6/09	6/06	6/03	5/31	5/27
<b>32</b>	6/12	6/06	6/02	5/30	5/27	5/24	5/20	5/17	5/11
<b>28</b>	5/28	5/24	5/20	5/17	5/14	5/12	5/09	5/05	5/01
<b>24</b>	5/05	5/01	4/28	4/25	4/23	4/21	4/18	4/15	4/11
<b>20</b>	4/22	4/18	4/14	4/12	4/09	4/07	4/04	4/01	3/27
<b>16</b>	4/13	4/09	4/07	4/04	4/02	3/31	3/28	3/25	3/21
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	8/21	8/26	8/29	9/01	9/04	9/07	9/10	9/13	9/18
<b>32</b>	9/03	9/08	9/11	9/14	9/17	9/19	9/22	9/26	9/30
<b>28</b>	9/17	9/21	9/24	9/26	9/29	10/01	10/03	10/06	10/11
<b>24</b>	9/25	9/30	10/03	10/07	10/09	10/12	10/16	10/19	10/24
<b>20</b>	10/12	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/14
<b>16</b>	10/21	10/28	11/02	11/06	11/10	11/14	11/18	11/23	11/29
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	109	101	95	91	86	82	77	72	64
<b>32</b>	132	125	120	116	112	108	104	99	92
<b>28</b>	152	147	143	140	137	133	130	126	121
<b>24</b>	190	183	177	173	169	164	160	154	147
<b>20</b>	221	214	209	205	201	197	193	188	182
<b>16</b>	246	237	231	226	221	216	211	205	197

\* 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

Complete documentation available from:

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# Climatology of the United States

## No. 20 1971-2000

**Station: FARMINGTON, ME**

**COOP ID: 172765**

**Climate Division: ME 2**

**NWS Call Sign:**

**Elevation: 420 Feet**

**Lat: 44° 41N**

**Lon: 70° 09W**

<b>Degree Days to Selected Base Temperatures (°F)</b>													
<b>Base</b>	<b>Heating Degree Days (1)</b>												
<b>Below</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Ann</b>
<b>65</b>	1569	1308	1140	744	411	143	45	79	303	622	917	1347	8628
<b>60</b>	1414	1168	985	594	268	52	6	19	170	468	767	1192	7103
<b>57</b>	1321	1084	892	504	193	23	0	5	106	377	677	1099	6281
<b>55</b>	1259	1028	830	445	150	11	0	2	73	319	617	1037	5771
<b>50</b>	1104	888	675	301	67	1	0	0	22	187	467	882	4594
<b>32</b>	555	398	188	13	0	0	0	0	0	1	56	375	1586

<b>Base</b>	<b>Cooling Degree Days (1)</b>												
<b>Above</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Ann</b>
<b>32</b>	9	14	72	259	614	864	1052	997	689	402	129	51	5152
<b>55</b>	0	0	0	1	51	185	339	286	71	6	0	0	939
<b>57</b>	0	0	0	0	32	136	277	227	45	3	0	0	720
<b>60</b>	0	0	0	0	14	76	190	148	19	0	0	0	447
<b>65</b>	0	0	0	0	2	17	74	52	2	0	0	0	147
<b>70</b>	0	0	0	0	0	1	14	9	0	0	0	0	24

<b>Growing Degree Units (2)</b>																								
<b>Base</b>	<b>Growing Degree Units (Monthly)</b>												<b>Growing Degree Units (Accumulated Monthly)</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>40</b>	0	0	9	88	381	636	815	757	460	180	34	0	0	0	9	97	478	1114	1929	2686	3146	3326	3360	3360
<b>45</b>	0	0	3	35	243	486	660	603	312	92	10	0	0	0	3	38	281	767	1427	2030	2342	2434	2444	2444
<b>50</b>	0	0	1	14	133	343	505	449	191	32	1	0	0	0	1	15	148	491	996	1445	1636	1668	1669	1669
<b>55</b>	0	0	0	6	60	206	350	296	95	9	0	0	0	0	0	6	66	272	622	918	1013	1022	1022	1022
<b>60</b>	0	0	0	0	21	104	207	164	36	0	0	0	0	0	0	0	21	125	332	496	532	532	532	532
<b>Base</b>	<b>Growing Degree Units for Corn (Monthly)</b>												<b>Growing Degree Units for Corn (Accumulated Monthly)</b>											
<b>50/86</b>	0	0	12	77	248	393	524	480	295	129	25	1	0	0	12	89	337	730	1254	1734	2029	2158	2183	2184

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)