

Climatography of the United States

No. 20

1971-2000

Station: BRIDGEWATER, ME

COOP ID: 170833

Climate Division: ME 1

NWS Call Sign:

Elevation: 420 Feet Lat: 46° 25N Lon: 67° 51W

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	21.5	-.3	10.6	53	1995	15	19.1	1990	-43	1994	20	.5	1994	1689	0	.0	.0	.2	24.4	30.5	16.4
Feb	25.7	1.9	13.8	61	1994	20	25.7	1981	-42	1962	2	4.0	1993	1434	0	.0	.0	.3	19.6	27.6	13.9
Mar	36.2	14.8	25.5	74	1962	30	31.9	1979	-35	2001	2	19.4	1972	1223	0	.0	.0	3.0	9.4	28.7	5.5
Apr	49.2	28.0	38.6	86	1990	27	44.8	1987	-11	1969	1	33.8	1972	792	0	.0	.0	13.8	.7	22.6	.1
May	64.6	38.6	51.6	95	1992	22	57.3	1989	18+	1972	2	44.5	1974	419	3	.0	.2	29.3	.0	7.8	.0
Jun	73.8	48.3	61.1	94+	1988	15	65.3	1999	24	1997	2	57.6	1977	136	17	.0	.6	30.0	.0	.7	.0
Jul	78.3	53.2	65.8	95+	1991	20	69.0	1994	31	1969	7	61.1	1992	54	77	.0	1.1	31.0	.0	@	.0
Aug	75.9	51.2	63.6	96	1975	2	67.5	1984	28	1965	31	59.8	1982	87	43	.0	.7	31.0	.0	.3	.0
Sep	65.9	42.7	54.3	90+	2001	9	61.9	1999	19	1980	29	50.6	1978	324	2	.0	.0	29.8	.0	4.7	.0
Oct	53.3	33.4	43.4	81	1968	16	48.8	1995	12+	1978	30	39.2	1974	672	0	.0	.0	20.5	.0	15.0	.0
Nov	39.1	23.9	31.5	66	1982	5	36.5	1979	-9	1989	24	26.7	1986	1005	0	.0	.0	4.8	6.4	24.5	.6
Dec	26.5	7.7	17.1	56+	1982	4	26.5	1996	-38	1989	30	2.4	1989	1485	0	.0	.0	.5	20.6	30.1	10.0
Ann	50.8	28.6	39.7	96	Aug 1975	2	69.0	Jul 1994	-43	Jan 1994	20	.5	Jan 1994	9320	142	.0	2.6	194.2	81.1	192.5	46.5

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1957-2001

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

005-A

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: BRIDGEWATER, ME

COOP ID: 170833

Climate Division: ME 1

NWS Call Sign:

Elevation: 420 Feet Lat: 46°25N

Lon: 67°51W

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	3.62	3.32	2.30	1992	5	6.10	1979	1.37	1972	10.0	7.4	2.6	.8	1.42	1.75	2.23	2.62	3.00	3.38	3.79	4.26	4.87	5.80	6.64
Feb	2.50	2.74	1.83	1979	27	4.15	1971	.05	1987	7.2	5.5	1.8	.7	.52	.74	1.11	1.45	1.78	2.14	2.55	3.04	3.68	4.71	5.69
Mar	3.08	3.01	1.98	1981	18	5.96	1991	1.28	1988	9.0	7.1	2.1	.5	1.31	1.59	1.98	2.30	2.60	2.90	3.23	3.60	4.08	4.80	5.46
Apr	3.33	3.26	1.87	1973	28	6.67	1973	1.02	1985	10.3	7.7	2.4	.6	1.38	1.69	2.11	2.46	2.79	3.13	3.49	3.90	4.42	5.22	5.95
May	3.78	3.96	2.25	1961	27	7.41	1984	.41	1982	11.6	8.2	2.5	.6	1.20	1.56	2.09	2.54	2.98	3.44	3.94	4.53	5.28	6.46	7.55
Jun	3.62	3.34	2.00	1977	5	8.71	1993	1.58	1983	11.3	7.5	2.4	.5	1.42	1.75	2.23	2.62	3.00	3.38	3.79	4.26	4.86	5.79	6.63
Jul	3.74	3.24	4.10	1973	4	9.56	1996	1.11	1991	11.6	7.7	2.4	.8	1.45	1.80	2.29	2.70	3.09	3.48	3.91	4.41	5.04	6.01	6.89
Aug	3.85	3.88	2.73	1998	11	7.72	1988	1.43	1994	10.8	7.2	2.2	.9	1.58	1.93	2.43	2.84	3.22	3.61	4.03	4.52	5.13	6.07	6.92
Sep	3.59	3.68	3.62	1999	17	7.28	1999	1.51	1984	10.6	7.1	2.5	.7	1.73	2.04	2.46	2.80	3.12	3.43	3.77	4.15	4.63	5.36	6.01
Oct	3.46	2.93	3.78	1959	25	7.86	1990	.97	1994	10.5	7.2	2.1	.7	.88	1.21	1.71	2.16	2.59	3.06	3.57	4.19	4.99	6.25	7.44
Nov	3.83	3.49	2.65	1966	3	9.17	1983	1.96	1992	10.9	7.9	2.6	.8	1.85	2.18	2.63	2.99	3.33	3.66	4.02	4.43	4.94	5.71	6.40
Dec	3.49	3.02	2.43	1993	11	7.65	1973	1.30	1988	10.8	8.1	2.4	.5	1.42	1.74	2.19	2.56	2.91	3.27	3.65	4.10	4.66	5.51	6.29
Ann	41.89	40.31	4.10	Jul 1973	4	9.56	Jul 1996	.05	Feb 1987	124.6	88.6	28.0	8.1	31.86	33.85	36.38	38.27	39.95	41.55	43.20	45.01	47.20	50.34	53.04

+ 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: 1957-2001

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

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Station: BRIDGEWATER, ME

COOP ID: 170833

Climate Division: ME 1

NWS Call Sign:

Elevation: 420 Feet

Lat: 46°25N

Lon: 67°51W

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	23.2	22.0	13	12	16.0	1987	11	50.1	1994	39	1998	24	31	1998	7.8	6.8	2.8	1.4	.3	27.1	25.8	24.0	16.3
Feb	17.3	18.0	18	17	14.0	2000	14	31.5	1982	39	1982	24	32+	1998	5.9	4.9	2.4	1.1	.2	27.1	26.9	25.9	21.6
Mar	14.1	13.3	15	13	17.0	1984	14	30.5	1997	41	1982	5	30	1982	4.5	3.9	2.0	1.0	.2	26.5	25.1	23.8	19.4
Apr	6.3	4.9	2	1	18.0	1982	7	19.5	1982	21	1997	2	7	1997	1.9	1.6	.9	.5	@	6.8	4.7	3.1	1.1
May	.1	.0	#	0	1.0	1990	22	1.0	1990	1+	1995	7	#+	1995	.1	@	.0	.0	.0	.1	.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	.1	.0	0	0	2.0	1991	30	2.0	1991	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	0	4.5	1997	27	4.5	1997	5	1997	27	#+	2000	.2	.2	.1	.0	.0	.1	.1	@	.0
Nov	8.6	7.0	2	1	16.0	1986	21	22.8	1974	20	1986	22	7	1986	2.7	2.1	1.1	.6	.1	6.2	2.8	1.8	.7
Dec	19.6	15.0	6	5	18.0	1989	3	58.3	1972	32	1989	4	23	1989	6.8	5.9	2.6	1.1	.2	19.2	15.6	12.5	6.1
Ann	89.8	80.2	N/A	N/A	18.0+	Dec 1989	3	58.3	Dec 1972	41	Mar 1982	5	32+	Feb 1998	29.9	25.4	11.9	5.7	1.0	113.1	101.0	91.1	65.2

+ 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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Climate Division: ME 1

NWS Call Sign:

Elevation: 420 Feet

Lat: 46°25N

Lon: 67°51W

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	7/03	6/27	6/22	6/18	6/15	6/11	6/07	6/02	5/27
32	6/17	6/11	6/06	6/02	5/30	5/26	5/22	5/18	5/11
28	5/31	5/26	5/23	5/20	5/17	5/14	5/11	5/07	5/02
24	5/16	5/11	5/07	5/03	4/30	4/27	4/23	4/19	4/14
20	4/28	4/24	4/21	4/18	4/15	4/12	4/10	4/06	4/02
16	4/19	4/15	4/12	4/09	4/07	4/04	4/01	3/29	3/25
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	8/10	8/16	8/20	8/24	8/27	8/30	9/03	9/07	9/13
32	8/25	8/30	9/03	9/06	9/09	9/12	9/15	9/19	9/24
28	9/13	9/18	9/21	9/24	9/27	9/30	10/02	10/06	10/11
24	9/30	10/03	10/06	10/08	10/10	10/12	10/14	10/17	10/20
20	10/09	10/14	10/17	10/21	10/23	10/26	10/29	11/02	11/07
16	10/23	10/29	11/02	11/05	11/08	11/12	11/15	11/19	11/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	102	92	85	78	73	67	61	54	44
32	129	120	113	107	102	96	90	83	74
28	149	143	139	136	132	129	126	121	116
24	181	175	170	166	162	159	155	150	144
20	213	205	200	195	191	186	181	176	168
16	237	230	224	220	215	211	206	201	193

* 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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NWS Call Sign:

Elevation: 420 Feet Lat: 46° 25N Lon: 67° 51W

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	1689	1434	1223	792	419	136	54	87	324	672	1005	1485	9320
60	1534	1294	1068	642	277	47	9	22	189	517	855	1330	7784
57	1441	1210	975	552	204	20	1	6	123	424	765	1237	6958
55	1379	1154	913	493	161	9	0	2	87	364	705	1175	6442
50	1224	1014	758	347	78	1	0	0	28	222	555	1020	5247
32	667	515	244	23	0	0	0	0	0	2	103	494	2048

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1	5	44	221	607	871	1046	979	668	353	89	31	4915
55	0	0	0	1	55	190	333	268	65	2	0	0	914
57	0	0	0	0	36	141	273	210	41	1	0	0	702
60	0	0	0	0	16	78	187	133	17	0	0	0	431
65	0	0	0	0	3	17	77	43	2	0	0	0	142
70	0	0	0	0	0	1	17	6	0	0	0	0	24

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	8	71	375	644	805	746	442	155	28	0	0	0	8	79	454	1098	1903	2649	3091	3246	3274	3274
45	0	0	0	23	232	494	650	591	298	76	9	0	0	0	0	23	255	749	1399	1990	2288	2364	2373	2373
50	0	0	0	6	129	348	495	436	172	28	1	0	0	0	0	6	135	483	978	1414	1586	1614	1615	1615
55	0	0	0	2	57	211	340	284	85	6	0	0	0	0	0	2	59	270	610	894	979	985	985	985
60	0	0	0	0	18	106	195	154	31	0	0	0	0	0	0	0	18	124	319	473	504	504	504	504
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	7	64	246	407	514	476	268	91	12	0	0	0	7	71	317	724	1238	1714	1982	2073	2085	2085

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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 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.

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| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
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References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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