

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: BRASSUA DAM, ME

1971-2000

COOP ID: 170814

Climate Division: ME 1

NWS Call Sign:

Elevation: 1,060 Feet Lat: 45°40N

Lon: 69°49W

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	20.9	-2.3	9.3	55	1973	20	18.3	1990	-37+	1995	12	-.6	1994	1728	0	.0	.0	.3	24.8	30.7	18.0
Feb	24.6	-.9	11.9	58	1994	21	23.2	1981	-39+	1962	3	1.1	1993	1490	0	.0	.0	.4	20.6	28.0	15.7
Mar	34.2	10.6	22.4	70	1977	31	29.0	1973	-30	1984	9	15.1	1984	1320	0	.0	.0	2.7	12.2	30.1	7.9
Apr	45.8	25.5	35.7	80	1990	28	41.4	1987	-8	1964	2	30.6	1975	882	0	.0	.0	10.7	1.7	25.5	.2
May	60.6	37.3	49.0	88	1978	29	56.4	1998	19+	1974	3	42.0	1974	499	2	.0	.0	26.4	@	9.4	.0
Jun	70.2	48.3	59.3	92	1994	18	64.9	1999	28	1971	1	55.3	1986	184	11	.0	.2	29.8	.0	.3	.0
Jul	74.9	53.7	64.3	93	1988	10	67.1+	1999	34+	1979	5	59.6	1992	70	48	.0	.1	31.0	.0	.0	.0
Aug	73.3	51.4	62.4	97	1975	3	66.0	1973	29	1965	31	58.0	1982	111	29	.0	.1	31.0	.0	@	.0
Sep	64.2	42.8	53.5	91	1999	4	61.1	1999	20+	1980	30	48.4	1978	347	2	.0	@	29.3	.0	3.2	.0
Oct	51.7	32.7	42.2	80	1979	23	48.1	1971	15	1978	30	37.3	1974	707	0	.0	.0	18.5	.2	15.2	.0
Nov	38.5	23.1	30.8	67	1975	8	35.5	1999	-7+	1995	30	26.4	1976	1025	0	.0	.0	4.6	7.5	25.1	.3
Dec	26.2	7.3	16.8	60	1966	11	26.2	1996	-30+	1989	31	1.2	1989	1496	0	.0	.0	.4	21.1	30.4	9.6
Ann	48.8	27.5	38.1	97	Aug 1975	3	67.1+	Jul 1999	-39+	Feb 1962	3	-.6	Jan 1994	9859	92	.0	.4	185.1	88.1	197.9	51.7

+ 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

Issue Date: February 2004

(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

004-A

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NWS Call Sign:

Elevation: 1,060 Feet Lat: 45°40N

Lon: 69°49W

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	3.02	3.03	2.21	1996	28	6.62	1979	.89	1981	11.8	6.7	2.1	.5	.96	1.24	1.67	2.03	2.38	2.74	3.14	3.61	4.21	5.15	6.02
Feb	2.23	2.31	1.82	1998	19	4.04	1971	.51	1987	9.5	5.4	1.3	.2	.83	1.04	1.34	1.59	1.82	2.07	2.33	2.64	3.03	3.63	4.18
Mar	2.91	2.96	1.58	1984	15	6.18	1984	1.05	1981	12.5	7.0	2.1	.4	1.35	1.60	1.95	2.24	2.51	2.77	3.06	3.38	3.79	4.41	4.97
Apr	3.41	2.86	2.05	1987	1	8.12	1983	.91	1999	12.7	7.8	2.0	.5	1.15	1.47	1.94	2.34	2.73	3.13	3.56	4.07	4.72	5.73	6.66
May	3.80	4.05	2.58	1986	20	7.45	1986	.63	1980	13.6	8.0	2.6	.6	1.17	1.53	2.07	2.53	2.98	3.44	3.96	4.56	5.33	6.54	7.66
Jun	4.10	4.08	1.94	1960	25	7.61	1984	1.65	1971	14.0	9.0	2.6	.8	1.94	2.29	2.78	3.18	3.55	3.91	4.30	4.75	5.31	6.16	6.92
Jul	4.19	4.25	2.90	1986	7	8.43	1996	.87	1982	13.3	8.6	2.5	.8	1.45	1.84	2.42	2.91	3.37	3.86	4.38	4.99	5.77	6.99	8.10
Aug	3.78	3.43	2.82	1991	20	8.00	1991	1.05	1987	12.4	7.8	2.6	.6	1.26	1.62	2.14	2.59	3.01	3.46	3.94	4.50	5.23	6.35	7.39
Sep	3.86	3.35	4.21	1999	11	9.75	1999	1.23	1984	12.8	7.3	2.4	.8	1.40	1.76	2.28	2.72	3.14	3.57	4.04	4.58	5.27	6.34	7.32
Oct	3.56	3.35	2.28	1970	4	9.68	1990	.91	1997	12.8	7.3	2.5	.8	.98	1.32	1.83	2.28	2.72	3.18	3.69	4.29	5.08	6.31	7.45
Nov	3.48	3.21	2.50	1969	6	8.09	1983	1.65	1996	12.9	7.4	2.6	.6	1.56	1.87	2.30	2.65	2.97	3.30	3.64	4.04	4.55	5.31	6.00
Dec	3.05	2.83	2.32	1969	27	7.05	1973	1.22	1988	12.7	7.0	1.8	.5	1.08	1.37	1.78	2.13	2.47	2.81	3.18	3.62	4.18	5.03	5.82
Ann	41.39	41.02	4.21	Sep 1999	11	9.75	Sep 1999	.51	Feb 1987	151.0	89.3	27.1	7.1	32.35	34.17	36.46	38.18	39.68	41.13	42.61	44.23	46.18	48.97	51.36

+ 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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Station: BRASSUA DAM, ME

COOP ID: 170814

Climate Division: ME 1

NWS Call Sign:

Elevation: 1,060 Feet

Lat: 45° 40N

Lon: 69° 49W

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	24.4	23.1	14	15	17.5	1986	4	42.7	1994	37	1990	31	25	1998	10.9	6.5	3.1	1.5	.3	-9.9	-9.9	-9.9	-9.9
Feb	20.6	19.6	21	19	15.5	1971	24	38.5	1971	37	1982	8	36	1982	9.2	5.4	2.4	1.2	.2	-9.9	-9.9	-9.9	-9.9
Mar	20.5	18.9	23	21	17.0	1984	15	53.8	1984	44+	1997	26	39	1997	8.5	5.3	2.3	1.2	.2	-9.9	-9.9	-9.9	-9.9
Apr	10.1	7.9	9	7	13.0	1987	29	24.8	1996	39	1997	1	24	1997	4.4	3.0	1.3	.5	.1	-9.9	-9.9	-9.9	-9.9
May	.2	.0	#	0	2.5	1997	8	2.5	1997	8	1997	1	1	1997	.1	.1	.0	.0	.0	.1	.0	.0	.0
Jun	#	.0	0	0	#	1980	9	#	1980	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	#	1980	27	#	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.8	.0	#	0	11.0	2000	30	25.7	2000	14	2000	30	1+	2000	.8	.4	.2	.1	@	.8	.8	.3	.1
Nov	9.3	8.7	1	#	11.6	1971	26	20.5	1974	13	1997	29	4	1997	5.0	2.9	1.1	.6	@	-9.9	-9.9	-9.9	-9.9
Dec	22.8	18.9	8	5	12.0	1995	16	57.5	1995	32	1995	21	19+	1995	10.7	6.5	2.4	1.4	.2	-9.9	-9.9	-9.9	-9.9
Ann	109.7	97.1	N/A	N/A	17.5	Jan 1986	4	57.5	Dec 1995	44+	Mar 1997	26	39	Mar 1997	49.6	30.1	12.8	6.5	1.0	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:

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No. 20 1971-2000

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COOP ID: 170814

Climate Division: ME 1

NWS Call Sign:

Elevation: 1,060 Feet

Lat: 45° 40N

Lon: 69° 49W

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	6/23	6/18	6/14	6/12	6/09	6/06	6/03	5/31	5/26
32	6/06	6/02	5/30	5/28	5/26	5/23	5/21	5/18	5/14
28	5/26	5/22	5/19	5/17	5/15	5/12	5/10	5/07	5/03
24	5/10	5/06	5/03	5/01	4/29	4/26	4/24	4/21	4/17
20	4/28	4/24	4/21	4/18	4/16	4/14	4/11	4/08	4/04
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	8/25	8/29	9/02	9/05	9/07	9/10	9/13	9/16	9/21
32	9/08	9/13	9/16	9/20	9/22	9/25	9/28	10/02	10/07
28	9/22	9/26	9/28	10/01	10/03	10/06	10/08	10/11	10/15
24	10/07	10/11	10/14	10/16	10/19	10/21	10/23	10/26	10/30
20	10/18	10/24	10/29	11/01	11/05	11/08	11/12	11/16	11/22
16	11/02	11/05	11/08	11/11	11/13	11/15	11/18	11/20	11/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	107	101	97	93	90	86	83	78	72
32	134	129	125	122	119	116	113	109	104
28	158	152	148	144	141	138	134	130	124
24	189	184	179	176	172	169	165	161	155
20	220	214	209	206	202	198	194	190	184
16	238	231	227	223	220	216	212	208	201

* 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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No. 20
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Station: BRASSUA DAM, ME

COOP ID: 170814

Climate Division: ME 1

NWS Call Sign:

Elevation: 1,060 Feet Lat: 45° 40N Lon: 69° 49W

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	1728	1490	1320	882	499	184	70	111	347	707	1025	1496	9859
60	1573	1350	1165	732	353	80	12	32	210	552	875	1341	8275
57	1480	1266	1072	642	273	41	3	11	142	460	785	1248	7423
55	1418	1210	1010	582	224	25	0	4	104	400	725	1186	6888
50	1263	1070	855	433	123	5	0	0	40	258	575	1031	5653
32	707	570	329	45	1	0	0	0	0	6	108	503	2269

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1	4	32	153	526	818	1001	941	645	322	72	30	4545
55	0	0	0	0	37	152	288	232	59	3	0	0	771
57	0	0	0	0	23	109	229	177	37	1	0	0	576
60	0	0	0	0	10	58	145	105	15	0	0	0	333
65	0	0	0	0	2	11	48	29	2	0	0	0	92
70	0	0	0	0	0	0	7	3	0	0	0	0	10

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	6	41	307	594	774	715	429	148	23	0	0	0	6	47	354	948	1722	2437	2866	3014	3037	3037
45	0	0	1	15	185	445	619	560	288	67	4	0	0	0	1	16	201	646	1265	1825	2113	2180	2184	2184
50	0	0	0	3	95	305	464	407	165	24	2	0	0	0	0	3	98	403	867	1274	1439	1463	1465	1465
55	0	0	0	0	41	181	311	255	79	6	0	0	0	0	0	0	41	222	533	788	867	873	873	873
60	0	0	0	0	13	84	172	132	30	0	0	0	0	0	0	0	13	97	269	401	431	431	431	431
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	6	44	199	353	477	433	244	85	8	0	0	0	6	50	249	602	1079	1512	1756	1841	1849	1849

(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.
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.

- 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
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