

Climatology of the United States

No. 20

1971-2000

Station: EDGARTOWN, MA

COOP ID: 192501

Climate Division: MA 3

NWS Call Sign:

Elevation: 20 Feet

Lat: 41° 23N

Lon: 70° 31W

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	38.9	22.4	30.7	65	1967	25	37.6	1995	-5	1970	23	20.7	1981	1065	0	.0	.0	4.5	7.6	26.4	.3
Feb	39.6	23.2	31.4	64	1976	28	37.7	1998	-9+	1961	2	21.9	1979	941	0	.0	.0	3.6	6.4	23.4	.2
Mar	45.8	29.8	37.8	74	1985	29	41.8	2000	-7	1950	4	33.1	1984	843	0	.0	.0	9.6	1.1	19.4	.0
Apr	54.2	37.7	46.0	90	1990	29	49.6	1976	12	1954	4	41.3	1972	571	0	.0	.0	22.8	@	6.7	.0
May	64.0	47.1	55.6	90	1996	21	59.2	1991	28+	1952	2	53.1	1992	293	1	.0	@	30.3	.0	.4	.0
Jun	72.9	56.2	64.6	93+	1987	1	67.9	1999	38	1958	5	59.5	1982	64	51	.0	.2	30.0	.0	.0	.0
Jul	78.8	62.2	70.5	95+	1964	2	75.1	1994	45	1988	1	67.5	1992	7	178	.0	.7	31.0	.0	.0	.0
Aug	78.1	62.0	70.1	99	1948	27	72.7	1980	41	1986	30	65.9	1982	6	163	.0	.3	31.0	.0	.0	.0
Sep	72.0	55.5	63.8	91	1953	1	67.6	1999	34	1991	29	60.6	1986	80	41	.0	.0	30.0	.0	.0	.0
Oct	62.5	45.1	53.8	88	1959	7	59.1	1971	0	1953	11	50.2	1988	349	2	.0	.0	30.0	.0	1.5	.0
Nov	53.4	37.2	45.3	74+	1956	2	50.2	1994	14+	1951	22	40.6	1976	592	0	.0	.0	20.4	.2	9.6	.0
Dec	44.0	27.8	35.9	67	1998	5	41.2	1984	-5	1950	28	23.4	1989	902	0	.0	.0	9.3	3.4	21.8	.1
Ann	58.7	42.2	50.5	99	Aug 1948	27	75.1	Jul 1994	-9+	Feb 1961	2	20.7	Jan 1981	5713	436	.0	1.2	252.5	18.7	109.2	.6

+ 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: 1948-2001

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

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No. 20

1971-2000

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

Station: EDGARTOWN, MA

COOP ID: 192501

Climate Division: MA 3

NWS Call Sign:

Elevation: 20 Feet

Lat: 41°23N

Lon: 70°31W

Precipitation (inches)

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	4.09	3.52	2.84	1962	7	8.69	1978	1.40	1989	11.8	7.5	2.8	1.1	1.43	1.82	2.38	2.85	3.30	3.76	4.27	4.86	5.61	6.77	7.85
Feb	3.29	2.96	3.68	1969	25	5.75	1971	1.12	1980	9.4	6.2	2.6	.7	1.33	1.64	2.06	2.42	2.75	3.08	3.45	3.87	4.40	5.21	5.95
Mar	4.48	3.78	3.29	2000	17	8.22	1983	1.15	1981	11.3	7.4	3.2	1.2	1.86	2.27	2.85	3.32	3.76	4.21	4.70	5.25	5.96	7.04	8.01
Apr	4.25	4.01	2.83	1973	27	9.93	1987	1.49	1985	11.5	6.9	2.9	1.3	1.52	1.92	2.50	2.98	3.45	3.92	4.44	5.05	5.82	7.01	8.10
May	3.55	3.22	3.10	1963	30	6.80	1971	1.10	1986	11.9	7.1	2.4	.8	1.24	1.58	2.07	2.48	2.87	3.27	3.71	4.22	4.88	5.89	6.82
Jun	3.51	2.64	4.62	1981	21	7.92	1981	.26	1971	9.3	5.2	2.2	1.0	.57	.88	1.39	1.87	2.37	2.91	3.53	4.29	5.30	6.94	8.51
Jul	3.10	2.68	3.74	1986	30	9.73	1984	.78	1974	7.9	4.7	2.0	.9	.69	.98	1.43	1.84	2.25	2.69	3.18	3.77	4.54	5.76	6.92
Aug	3.96	3.27	6.04	1985	31	11.70	1985	.41	1984	8.9	5.8	2.7	1.1	.73	1.08	1.66	2.19	2.74	3.34	4.01	4.82	5.91	7.65	9.31
Sep	3.48	2.64	7.02	1972	3	12.60	1996	.60	1971	9.1	4.9	2.3	.9	.65	.96	1.47	1.94	2.42	2.94	3.53	4.24	5.19	6.72	8.17
Oct	3.95	4.06	2.92	1996	9	8.83	1996	1.58	1971	9.9	6.6	2.7	1.1	1.65	2.01	2.52	2.93	3.32	3.72	4.14	4.63	5.25	6.19	7.05
Nov	4.12	3.59	3.44	1970	3	8.71	1988	1.08	1996	11.9	7.2	3.1	1.0	1.21	1.60	2.19	2.69	3.19	3.70	4.27	4.94	5.81	7.17	8.43
Dec	4.28	3.87	3.60	1969	27	9.38	1992	.93	1989	11.9	8.0	3.1	1.1	1.16	1.57	2.19	2.73	3.26	3.81	4.43	5.16	6.11	7.60	8.99
Ann	46.06	45.42	7.02	Sep 1972	3	12.60	Sep 1996	.26	Jun 1971	124.8	77.5	32.0	12.2	34.98	37.18	39.97	42.07	43.92	45.69	47.51	49.52	51.93	55.41	58.39

+ 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: EDGARTOWN, MA

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Climate Division: MA 3

NWS Call Sign:

Elevation: 20 Feet

Lat: 41°23N

Lon: 70°31W

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	5.2	3.1	1	#	11.0	1996	8	21.3	1987	16	1987	27	4	1996	2.5	1.6	.5	.2	.1	5.0	1.6	.6	.2
Feb	9.1	8.0	2	2	14.0	1978	7	26.0	1994	15	1999	26	9	1978	2.6	1.9	1.0	.8	.2	6.4	4.9	3.7	.8
Mar	3.4	2.0	#	#	8.0	1984	10	12.8	1984	8	1984	10	1	1999	1.5	.9	.5	.1	.0	2.0	.9	.3	.0
Apr	.4	.0	#	0	2.8	1996	8	3.0	1997	3	1996	8	#+	2000	.2	.2	.0	.0	.0	.2	.1	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	#	0	#	2000	30	#	2000	#	2000	30	#	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.5	.0	#	0	6.5	1989	23	7.5	1989	7	1989	25	1	1989	.3	.1	.1	.1	.0	.3	.1	.1	.0
Dec	3.3	.9	#	#	11.0	1982	13	15.5	1982	11	1982	13	1	1998	1.5	.9	.4	.2	.1	2.3	1.4	.5	.1
Ann	21.9	14.0	N/A	N/A	14.0	Feb 1978	7	26.0	Feb 1994	16	Jan 1987	27	9	Feb 1978	8.6	5.6	2.5	1.4	.4	16.2	9.0	5.2	1.1

+ 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

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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	5/21	5/17	5/14	5/11	5/08	5/06	5/03	4/30	4/25
32	5/12	5/07	5/03	4/30	4/27	4/24	4/21	4/17	4/12
28	4/26	4/20	4/16	4/12	4/09	4/05	4/02	3/28	3/22
24	4/08	4/03	3/30	3/28	3/25	3/22	3/19	3/16	3/11
20	3/30	3/25	3/21	3/18	3/15	3/12	3/09	3/05	2/28
16	3/25	3/18	3/14	3/10	3/06	3/02	2/26	2/21	2/15
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	10/01	10/05	10/08	10/11	10/14	10/17	10/19	10/23	10/27
32	10/11	10/16	10/20	10/23	10/26	10/28	10/31	11/04	11/09
28	10/21	10/26	10/30	11/02	11/05	11/08	11/11	11/15	11/20
24	11/08	11/13	11/17	11/20	11/24	11/27	11/30	12/04	12/09
20	11/23	11/28	12/01	12/04	12/06	12/09	12/12	12/15	12/19
16	12/02	12/07	12/11	12/14	12/17	12/20	12/23	12/26	12/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	178	171	166	162	158	154	150	145	138
32	204	196	190	185	181	176	171	166	158
28	232	224	219	214	210	206	201	196	188
24	266	258	253	248	243	238	234	228	220
20	286	279	274	270	266	262	257	252	245
16	308	300	295	290	285	281	276	270	262

* 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	1065	941	843	571	293	64	7	6	80	349	592	902	5713
60	910	801	688	421	151	12	0	0	21	208	442	747	4401
57	817	717	595	332	85	2	0	0	7	138	354	654	3701
55	755	661	533	274	52	1	0	0	3	99	296	592	3266
50	602	521	378	145	10	0	0	0	0	34	168	448	2306
32	160	110	19	0	0	0	0	0	0	0	2	80	371

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	118	93	199	419	731	977	1194	1180	952	676	400	201	7140
55	0	0	0	3	70	287	481	467	264	63	4	0	1639
57	0	0	0	1	41	229	419	405	208	39	1	0	1343
60	0	0	0	0	14	148	326	312	132	16	0	0	948
65	0	0	0	0	1	51	178	163	41	2	0	0	436
70	0	0	0	0	0	9	66	54	5	0	0	0	134

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	25	17	58	199	494	748	949	940	719	441	198	54	25	42	100	299	793	1541	2490	3430	4149	4590	4788	4842
45	0	0	14	91	342	598	794	785	569	293	99	15	0	0	14	105	447	1045	1839	2624	3193	3486	3585	3600
50	0	0	1	26	195	448	639	630	419	165	43	0	0	0	1	27	222	670	1309	1939	2358	2523	2566	2566
55	0	0	0	3	88	300	484	475	274	73	9	0	0	0	0	3	91	391	875	1350	1624	1697	1706	1706
60	0	0	0	0	26	163	329	320	148	20	0	0	0	0	0	0	26	189	518	838	986	1006	1006	1006
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	3	26	87	244	454	637	631	437	224	86	23	1	4	30	117	361	815	1452	2083	2520	2744	2830	2853

(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.

- | | |
|---|---|
| <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 |
|---|---|

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