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: TAUNTON, MA **COOP ID: 198367**

Climate Division: MA 3 **NWS Call Sign:** **Elevation: 20 Feet** **Lat: 41˚54N** **Lon: 71˚04W**

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	37.0	17.8	27.4	65+	1995	16	35.4	1990	-21+	1957	18	17.0	1981	1167	0	.0	.0	3.9	9.9	28.6	2.2
Feb	39.0	19.7	29.4	69	1976	25	36.5	1998	-14	1967	13	20.3	1979	999	0	.0	.0	4.4	7.0	25.2	1.2
Mar	47.5	28.5	38.0	86	1977	30	42.4	1977	-8	1967	19	33.2	1984	838	0	.0	.0	12.7	1.3	22.4	@
Apr	58.0	37.1	47.6	94	1990	29	52.4	1976	14	1982	7	42.9	1972	522	0	.0	.2	24.6	.1	10.8	.0
May	69.2	46.8	58.0	96+	1987	31	62.5	1991	23	1974	5	54.4	1974	226	9	.0	.7	30.6	.0	1.5	.0
Jun	77.8	55.9	66.9	99	1952	26	70.6	1999	33	1972	12	62.6	1985	39	95	.0	2.0	30.0	.0	.0	.0
Jul	83.0	61.4	72.2	100+	1949	4	76.3	1994	40	1973	25	69.2	1992	2	225	.1	4.5	31.0	.0	.0	.0
Aug	81.3	60.5	70.9	102	1975	2	74.6	1988	32	1965	31	66.8	1982	6	190	@	3.0	31.0	.0	.0	.0
Sep	73.7	52.0	62.9	98	1953	2	67.0	1999	25	1951	30	59.1	1978	102	38	.0	.4	30.0	.0	.5	.0
Oct	62.5	40.4	51.5	86+	1949	10	57.0	1971	17	1966	31	46.5	1974	422	1	.0	.0	29.6	.0	7.9	.0
Nov	52.0	32.7	42.4	80	1950	2	47.7	1999	5	1989	25	37.3	1976	680	0	.0	.0	17.6	.3	17.5	.0
Dec	41.6	23.4	32.5	76	1998	8	38.5	1998	-15	1963	31	18.9	1989	1009	0	.0	.0	6.7	4.9	26.5	.4
Ann	60.2	39.7	50.0	102	Aug 1975	2	76.3	Jul 1994	-21+	Jan 1957	18	17.0	Jan 1981	6012	558	.1	10.8	252.1	23.5	140.9	3.8

\+ 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	4.30	3.99	3.25	1986	26	8.66	1979	1.29	1981
Feb	3.63	3.33	3.40	1979	26	7.01	1984	.81	1987
Mar	4.42	3.85	3.43	1988	27	9.61	1983	.57	1981
Apr	4.12	3.69	3.40	1997	1	8.65	1987	1.35	1999
May	3.91	3.40	5.49	1984	31	8.90	1984	.87	1992
Jun	3.41	3.07	4.56	1998	14	11.27	1998	.14	1999
Jul	3.95	3.54	4.67	1990	25	8.04	1990	1.54	1995
Aug	3.97	3.77	6.17	1955	19	8.83	1976	1.36	1999
Sep	4.03	3.75	4.03	1961	21	8.99	1987	.66	1997
Oct	3.93	3.50	3.96	1996	21	9.10	1996	.93	1994
Nov	4.48	4.15	3.83	1953	23	8.19	1988	1.00	1976
Dec	4.19	3.51	3.29	1973	17	9.46	1992	.72	1989
Ann	48.34	46.79	6.17	Aug 1955	19	11.27	Jun 1998	.14	Jun 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.1	3.0	1.4
Feb	9.0	6.2	2.5	.7
Mar	10.4	7.4	3.3	1.1
Apr	10.8	7.0	2.9	1.3
May	11.0	7.3	2.6	.9
Jun	9.8	5.9	2.3	.9
Jul	8.8	5.7	2.4	1.1
Aug	9.0	6.5	2.7	1.1
Sep	8.9	6.1	2.6	1.3
Oct	8.6	6.1	2.8	1.2
Nov	10.1	7.1	3.2	1.3
Dec	11.2	7.8	2.8	.9
Ann	118.2	80.2	33.1	13.2

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	1.28	1.69	2.30	2.83	3.34	3.88	4.47	5.16	6.05	7.45	8.75
Feb	1.24	1.59	2.09	2.51	2.92	3.33	3.79	4.32	5.00	6.06	7.03
Mar	1.43	1.85	2.47	3.00	3.51	4.03	4.61	5.28	6.15	7.50	8.75
Apr	1.44	1.83	2.39	2.87	3.33	3.79	4.31	4.90	5.67	6.85	7.93
May	1.18	1.56	2.11	2.59	3.05	3.53	4.06	4.68	5.49	6.74	7.91
Jun	.47	.75	1.24	1.71	2.21	2.76	3.39	4.17	5.22	6.94	8.60
Jul	1.75	2.10	2.59	2.99	3.36	3.74	4.14	4.60	5.18	6.06	6.85
Aug	1.40	1.78	2.32	2.77	3.21	3.66	4.14	4.71	5.44	6.56	7.59
Sep	.84	1.21	1.80	2.34	2.88	3.46	4.12	4.90	5.94	7.60	9.17
Oct	1.47	1.83	2.36	2.80	3.22	3.64	4.11	4.64	5.33	6.38	7.34
Nov	1.31	1.73	2.37	2.93	3.47	4.03	4.65	5.38	6.32	7.80	9.18
Dec	.92	1.30	1.92	2.48	3.03	3.63	4.29	5.09	6.14	7.82	9.41
Ann	36.03	38.46	41.54	43.87	45.92	47.90	49.93	52.17	54.87	58.77	62.12

\+ 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

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	10.1	6.8	3	1
Feb	8.2	6.3	3	2
Mar	4.0	1.2	1	#
Apr	1.2	.0	#	0
May	.1	.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	1.3	.0	#	0
Dec	5.2	3.3	1	#
Ann	30.2	17.6	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	17.0	1996	9	29.5	1996	27	1996	11	11	1996
Feb	21.5	1978	6	38.5	1978	38	1978	7	23	1978
Mar	8.0	1976	9	15.3	1993	23	1978	7	16	1978
Apr	17.0	1997	1	17.0	1997	17	1997	1	2	1997
May	2.0	1977	9	2.0	1977	2	1977	9	#	1977
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	3.0	1979	10	3.0	1979	0	0	0	0	0
Nov	11.0	1987	11	11.0	1987	8	1989	24	1	1989
Dec	14.0	1981	6	17.0	1981	15	1981	7	6	1981
Ann	21.5	Feb 1978	6	38.5	Feb 1978	38	Feb 1978	7	23	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.6	2.9	1.2	.4	.1
Feb	3.3	2.3	1.0	.5	.1
Mar	1.6	1.3	.6	.2	.0
Apr	.5	.3	.1	.1	@
May	@	@	.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	@	@	@	.0	.0
Nov	.5	.3	.1	.1	@
Dec	2.0	1.5	.7	.3	.1
Ann	11.5	8.6	3.7	1.6	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	11.5	8.4	4.7	.6
Feb	10.4	5.8	3.2	1.3
Mar	3.1	1.7	1.2	.8
Apr	.5	.3	.1	.1
May	@	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.4	.2	.1	.0
Dec	4.4	2.3	1.4	.3
Ann	30.3	18.7	10.7	3.1

+ 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	6/05	5/30	5/25	5/22	5/18	5/15	5/11	5/07	5/01
32	5/19	5/14	5/11	5/08	5/05	5/02	4/29	4/26	4/21
28	5/04	4/30	4/27	4/24	4/22	4/19	4/16	4/13	4/09
24	4/22	4/17	4/13	4/10	4/06	4/03	3/31	3/27	3/22
20	4/03	3/30	3/27	3/24	3/22	3/20	3/17	3/14	3/10
16	3/27	3/22	3/19	3/16	3/13	3/10	3/07	3/03	2/26

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	9/10	9/14	9/17	9/20	9/22	9/25	9/27	10/01	10/05
32	9/21	9/26	9/29	10/02	10/05	10/08	10/11	10/15	10/20
28	10/05	10/10	10/14	10/17	10/20	10/23	10/26	10/30	11/04
24	10/16	10/23	10/27	10/31	11/04	11/07	11/11	11/16	11/22
20	10/29	11/05	11/10	11/15	11/19	11/23	11/27	12/02	12/09
16	11/17	11/22	11/26	11/29	12/02	12/06	12/09	12/13	12/18

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	148	141	135	131	126	122	118	112	105
32	174	167	161	157	152	148	144	138	131
28	203	195	190	185	180	176	171	166	158
24	239	229	222	216	210	205	199	192	182
20	268	259	252	246	241	236	230	223	214
16	286	279	273	268	264	260	255	249	242

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1167	999	838	522	226	39	2	6	102	422	680	1009	6012
60	1012	859	683	373	108	6	0	0	33	277	530	854	4735
57	919	775	590	287	59	1	0	0	14	200	440	761	4046
55	857	719	528	232	36	0	0	0	7	156	382	699	3616
50	702	579	375	117	7	0	0	0	1	71	246	550	2648
32	230	158	29	0	0	0	0	0	0	0	9	133	559

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	86	83	214	468	806	1046	1246	1207	926	603	320	148	7153
55	0	0	0	10	129	357	533	494	242	45	2	0	1812
57	0	0	0	4	90	298	471	432	189	28	1	0	1513
60	0	0	0	1	46	213	378	339	119	11	0	0	1107
65	0	0	0	0	9	95	225	190	38	1	0	0	558
70	0	0	0	0	1	26	96	73	5	0	0	0	201

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	16	19	74	231	546	798	989	948	671	354	143	35	16	35	109	340	886	1684	2673	3621	4292	4646	4789	4824
45	4	2	33	124	394	648	834	793	521	219	71	9	4	6	39	163	557	1205	2039	2832	3353	3572	3643	3652
50	0	0	7	58	254	498	679	638	374	117	31	0	0	0	7	65	319	817	1496	2134	2508	2625	2656	2656
55	0	0	3	19	133	349	524	483	239	51	8	0	0	0	3	22	155	504	1028	1511	1750	1801	1809	1809
60	0	0	0	7	60	216	369	332	131	16	1	0	0	0	0	7	67	283	652	984	1115	1131	1132	1132
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	11	11	50	146	326	510	665	634	427	215	78	24	11	22	72	218	544	1054	1719	2353	2780	2995	3073	3097

(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