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: SHEPAUG DAM, CT **COOP ID: 067373**

Climate Division: CT 1 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 41˚43N** **Lon: 73˚18W**

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	33.9	11.9	22.9	62	1973	19	31.1	1998	-27	1961	22	13.9	1982	1305	0	.0	.0	2.2	14.1	29.9	4.6
Feb	36.4	13.6	25.0	70	1985	25	33.1	1984	-20	1971	1	14.8	1979	1120	0	.0	.0	3.3	10.4	26.5	3.3
Mar	45.4	22.0	33.7	85	1998	31	39.6	1973	-11	1967	19	28.1	1984	971	0	.0	.0	10.7	3.5	26.2	.5
Apr	56.9	31.9	44.4	91	1976	20	47.9	1985	8	1970	1	39.6	1972	617	0	.0	.1	23.5	.1	13.9	.0
May	68.4	43.2	55.8	91	1962	20	60.0	1998	23	2001	1	52.8	1995	289	5	.0	.2	30.7	.0	1.3	.0
Jun	75.5	51.9	63.7	92+	1957	19	66.9	1976	33	1980	9	59.7	1985	84	45	.0	.6	30.0	.0	.0	.0
Jul	79.8	57.4	68.6	95+	1988	11	73.8	1999	42	1979	6	64.3	1996	24	135	.0	2.2	31.0	.0	.0	.0
Aug	78.2	55.9	67.1	96+	1955	6	70.6	1988	33	1953	6	64.1	1982	33	97	.0	.7	31.0	.0	.0	.0
Sep	70.5	48.4	59.5	95	1953	3	63.5	1971	27	1962	22	56.8	1975	174	7	.0	.3	30.0	.0	.4	.0
Oct	60.7	37.3	49.0	85+	1959	7	56.1	1971	20+	1966	31	44.6	1988	496	0	.0	.0	28.4	.0	7.7	.0
Nov	49.7	29.0	39.4	79	1982	3	45.3	1975	5	1989	24	33.8	1976	769	0	.0	.0	14.5	.7	18.5	.0
Dec	38.5	18.4	28.5	68	1984	30	35.5	1998	-17	1980	26	13.8	1989	1132	0	.0	.0	4.2	7.5	28.0	1.3
Ann	57.8	35.1	46.5	96+	Aug 1955	6	73.8	Jul 1999	-27	Jan 1961	22	13.8	Dec 1989	7014	289	.0	4.1	239.5	36.3	152.4	9.7

\+ 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

(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

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: SHEPAUG DAM, CT **COOP ID: 067373**

Climate Division: CT 1 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 41˚43N** **Lon: 73˚18W**

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	3.94	3.56	2.70	1978	26	10.50	1979	.75	1981
Feb	3.10	2.85	2.46	1973	3	10.15	1981	.25	1987
Mar	4.42	3.72	3.45	1980	22	9.20	1980	.55	1981
Apr	4.20	3.66	4.05	1987	5	9.45	1983	.55	1999
May	4.51	4.20	3.00	1979	25	11.85	1984	.90	1993
Jun	4.15	3.85	3.85	1982	6	10.95	1982	.45+	1999
Jul	4.82	4.60	4.30	2000	16	8.77	1975	1.85	1999
Aug	4.66	4.61	8.58	1955	19	10.85	1990	.90	1996
Sep	4.60	3.96	5.35	1999	17	11.90	1999	1.10	1984
Oct	4.12	3.68	4.22	1955	15	10.00	1995	.80	1997
Nov	4.19	4.06	2.88	1950	26	9.55	1988	1.45	1976
Dec	3.86	3.83	3.89	1948	31	10.16	1973	.70	1989
Ann	50.57	50.34	8.58	Aug 1955	19	11.90	Sep 1999	.25	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.7	2.8	1.0
Feb	8.0	6.7	2.1	.7
Mar	9.8	8.0	3.0	1.4
Apr	10.6	8.2	2.7	1.1
May	11.0	8.8	2.9	1.1
Jun	9.6	7.7	2.5	1.2
Jul	9.5	8.0	3.6	1.5
Aug	8.5	6.8	3.3	1.5
Sep	8.8	6.8	2.8	1.5
Oct	8.4	6.7	2.8	1.4
Nov	9.2	7.4	3.3	1.3
Dec	10.0	7.2	2.9	1.0
Ann	113.4	90.0	34.7	14.7

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	1.05	1.42	1.99	2.50	2.99	3.50	4.08	4.76	5.65	7.04	8.34
Feb	.82	1.11	1.56	1.95	2.34	2.75	3.20	3.74	4.43	5.54	6.57
Mar	1.57	1.98	2.58	3.09	3.58	4.07	4.61	5.24	6.05	7.29	8.44
Apr	1.38	1.78	2.37	2.87	3.35	3.84	4.38	5.02	5.83	7.10	8.27
May	1.26	1.68	2.33	2.90	3.45	4.03	4.67	5.43	6.41	7.95	9.39
Jun	.64	.99	1.59	2.17	2.76	3.41	4.16	5.07	6.30	8.29	10.20
Jul	1.98	2.43	3.05	3.56	4.04	4.52	5.05	5.66	6.42	7.59	8.66
Aug	1.59	2.04	2.68	3.22	3.74	4.28	4.87	5.55	6.43	7.78	9.03
Sep	.98	1.41	2.08	2.69	3.31	3.96	4.70	5.59	6.76	8.62	10.39
Oct	1.25	1.64	2.22	2.73	3.22	3.73	4.29	4.94	5.80	7.13	8.36
Nov	1.53	1.92	2.49	2.96	3.42	3.88	4.38	4.97	5.72	6.87	7.93
Dec	1.01	1.37	1.93	2.42	2.91	3.42	3.98	4.65	5.53	6.91	8.20
Ann	38.23	40.68	43.78	46.12	48.17	50.15	52.19	54.42	57.12	61.00	64.33

\+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: SHEPAUG DAM, CT **COOP ID: 067373**

Climate Division: CT 1 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 41°43N** **Lon: 73°18W**

Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	16.5	14.5	#	0	17.0	1996	8	41.0	1996	5	1993	15	2	1993	4.9	4.9	1.9	.9	.2	-9.9	-9.9	-9.9	-9.9
Feb	11.4	10.0	1	0	20.0	1983	12	29.0	1983	9	1988	12	4	1988	3.6	3.6	1.4	.5	.1	-9.9	-9.9	-9.9	-9.9
Mar	8.8	6.0	1	0	15.0	1993	14	35.0	1993	13	1993	15	7	1993	3.0	3.0	1.1	.5	.1	-9.9	-9.9	-9.9	-9.9
Apr	2.9	.0	#	0	16.0	1997	1	19.0	1997	#	1986	24	#	1986	.9	.9	.4	.2	.1	-9.9	-9.9	-9.9	-9.9
May	.1	.0	0	0	2.0	1977	9	2.0	1977	0	0	0	0	0	@	@	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Oct	.2	.0	0	0	4.0	1979	11	6.0	1979	0	0	0	0	0	.1	.1	@	.0	.0	-9.9	-9.9	-9.9	-9.9
Nov	2.7	1.0	#	0	13.0	1971	25	15.6	1971	2	1994	28	#	1994	.9	.9	.4	.1	@	-9.9	-9.9	-9.9	-9.9
Dec	8.8	8.3	#	0	10.0	1992	12	25.0	1992	20	1992	13	5	1992	3.2	3.2	1.3	.5	@	-9.9	-9.9	-9.9	-9.9
Ann	51.4	39.8	N/A	N/A	20.0	Feb 1983	12	41.0	Jan 1996	20	Dec 1992	13	7	Mar 1993	16.6	16.6	6.5	2.7	.5	-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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: SHEPAUG DAM, CT **COOP ID: 067373**

Climate Division: CT 1 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 41˚43N** **Lon: 73˚18W**

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	6/07	6/01	5/28	5/24	5/20	5/17	5/13	5/09	5/03
32	5/18	5/14	5/11	5/08	5/06	5/04	5/01	4/28	4/24
28	5/02	4/28	4/26	4/23	4/21	4/19	4/16	4/14	4/10
24	4/20	4/15	4/12	4/10	4/07	4/05	4/02	3/30	3/26
20	4/13	4/08	4/05	4/02	3/30	3/27	3/25	3/21	3/17
16	4/04	3/30	3/27	3/24	3/21	3/19	3/16	3/12	3/08

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	9/17	9/21	9/23	9/26	9/28	9/30	10/02	10/05	10/08
32	9/22	9/27	9/30	10/03	10/05	10/08	10/11	10/14	10/19
28	10/01	10/06	10/10	10/13	10/16	10/19	10/22	10/26	10/31
24	10/16	10/22	10/26	10/29	11/01	11/04	11/08	11/12	11/17
20	10/29	11/04	11/08	11/12	11/16	11/19	11/23	11/28	12/04
16	11/14	11/19	11/23	11/26	11/29	12/02	12/06	12/09	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	150	143	138	134	129	125	121	116	109
32	168	162	158	155	152	149	145	141	136
28	198	191	186	181	177	173	168	163	156
24	228	221	216	211	207	203	199	194	187
20	255	246	240	235	230	225	220	213	205
16	277	269	262	257	252	247	242	236	227

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: SHEPAUG DAM, CT **COOP ID: 067373**

Climate Division: CT 1 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 41˚43N** **Lon: 73˚18W**

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	1305	1120	971	617	289	84	24	33	174	496	769	1132	7014
60	1150	980	816	468	159	21	3	4	68	347	619	977	5612
57	1057	896	723	380	99	6	0	0	32	264	529	884	4870
55	995	840	661	323	68	2	0	0	18	214	470	822	4413
50	840	700	507	196	21	0	0	0	3	113	327	670	3377
32	327	240	83	4	0	0	0	0	0	0	25	217	896

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	45	44	135	377	739	951	1135	1087	823	527	245	108	6216
55	0	0	0	6	94	263	422	374	151	28	0	0	1338
57	0	0	0	3	62	207	360	312	105	16	0	0	1065
60	0	0	0	0	30	132	270	223	51	6	0	0	712
65	0	0	0	0	5	45	135	97	7	0	0	0	289
70	0	0	0	0	0	8	48	26	0	0	0	0	82

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	4	8	53	203	528	739	925	870	612	317	110	18	4	12	65	268	796	1535	2460	3330	3942	4259	4369	4387
45	0	0	19	110	374	589	770	715	462	192	52	2	0	0	19	129	503	1092	1862	2577	3039	3231	3283	3285
50	0	0	8	53	235	439	615	560	318	96	21	0	0	0	8	61	296	735	1350	1910	2228	2324	2345	2345
55	0	0	2	21	123	295	460	405	189	42	5	0	0	0	2	23	146	441	901	1306	1495	1537	1542	1542
60	0	0	1	6	52	170	309	258	94	10	0	0	0	0	1	7	59	229	538	796	890	900	900	900
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	5	44	133	308	460	607	566	367	186	61	7	1	6	50	183	491	951	1558	2124	2491	2677	2738	2745

(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