

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: NORFOLK 2 SW, CT

1971-2000

COOP ID: 065445

Climate Division: CT 1

NWS Call Sign:

Elevation: 1,340 Feet Lat: 41° 58N

Lon: 73° 13W

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	29.1	11.9	20.5	62	1950	27	30.4	1990	-22	1957	16	11.7	1977	1381	0	.0	.0	1.4	19.5	30.1	5.7
Feb	31.3	13.4	22.4	66	1954	17	29.6	1984	-25+	1943	16	11.3	1979	1193	0	.0	.0	1.4	15.9	27.1	4.0
Mar	40.9	21.9	31.4	81	1945	29	37.6	2000	-11	1950	3	24.9	1984	1042	0	.0	.0	6.0	7.2	27.5	.7
Apr	53.1	32.8	43.0	88+	1976	20	47.5	1991	6	1954	4	37.2	1972	661	0	.0	.0	17.6	.5	15.5	.0
May	65.5	44.2	54.9	88+	1944	5	59.8	1991	25+	1947	10	51.1	1997	319	5	.0	.0	29.4	.0	2.0	.0
Jun	73.5	53.0	63.3	91+	1943	26	66.6	1999	32+	1964	5	59.2	1985	93	40	.0	.1	30.0	.0	@	.0
Jul	78.1	57.9	68.0	92+	1949	5	70.8	1994	41+	1943	1	64.5	2000	17	110	.0	.5	31.0	.0	.0	.0
Aug	76.3	56.4	66.4	93+	1944	13	69.4	1988	35	1965	31	63.9	1992	35	77	.0	.1	31.0	.0	.0	.0
Sep	68.3	48.6	58.5	93	1953	3	62.2	1998	26+	1947	27	55.6	1975	202	5	.0	.0	29.7	.0	.6	.0
Oct	56.9	37.5	47.2	81	1986	1	53.6	1971	17	1974	20	42.5	1974	552	0	.0	.0	23.2	.1	9.4	.0
Nov	45.1	29.3	37.2	75	1982	3	42.4	1975	4	1987	22	32.6	1976	835	0	.0	.0	9.1	3.1	20.6	.0
Dec	33.9	18.6	26.3	67	1998	8	34.5	1998	-20	1980	26	11.7	1989	1202	0	.0	.0	2.4	14.8	28.8	1.8
Ann	54.3	35.5	44.9	93+	Sep 1953	3	70.8	Jul 1994	-25+	Feb 1943	16	11.3	Feb 1979	7532	237	.0	.7	212.2	61.1	161.6	12.2

+ 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: 1942-2001

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

008-A

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NWS Call Sign:

Elevation: 1,340 Feet Lat: 41°58N

Lon: 73°13W

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	4.47	4.32	3.53	1949	1	11.88	1979	1.10	1981	15.2	7.6	3.2	1.0	1.25	1.67	2.31	2.87	3.42	3.99	4.63	5.38	6.35	7.88	9.30
Feb	3.53	3.22	2.37	1981	21	11.66	1981	.67	1987	12.8	7.0	2.2	.8	1.21	1.55	2.03	2.44	2.84	3.24	3.68	4.20	4.86	5.88	6.82
Mar	4.57	4.25	3.55	1980	22	8.97	1980	.68	1981	13.6	8.3	3.1	1.2	1.77	2.20	2.80	3.31	3.78	4.26	4.79	5.39	6.16	7.34	8.42
Apr	4.53	4.16	4.12	1987	5	10.79	1983	1.44	1999	13.9	8.0	3.4	.9	1.65	2.08	2.69	3.20	3.69	4.20	4.74	5.37	6.18	7.43	8.57
May	4.81	4.70	2.82	1999	20	12.16	1984	1.06	1993	13.9	9.0	3.0	1.2	1.52	1.97	2.65	3.23	3.79	4.37	5.01	5.76	6.72	8.22	9.61
Jun	4.49	4.56	4.90	1986	6	10.53	1986	.61	1988	13.3	7.4	2.9	1.0	.96	1.37	2.03	2.62	3.22	3.86	4.59	5.45	6.59	8.42	10.14
Jul	4.90	4.31	3.62	2000	16	11.48	1996	1.54	1983	11.6	7.9	3.7	1.4	1.75	2.21	2.88	3.44	3.97	4.52	5.12	5.82	6.71	8.08	9.35
Aug	4.74	5.00	10.67	1955	19	9.48	1976	.94	1998	12.2	7.3	3.1	1.1	1.55	2.00	2.67	3.23	3.77	4.33	4.95	5.66	6.59	8.02	9.34
Sep	4.47	3.41	5.80	1999	17	11.64	1999	1.16	1986	11.8	7.2	2.9	1.2	1.15	1.57	2.22	2.79	3.36	3.95	4.61	5.40	6.43	8.05	9.57
Oct	4.40	4.00	5.31	1955	16	11.13	1995	1.53	1994	11.5	6.9	2.8	1.2	1.62	2.03	2.62	3.12	3.59	4.07	4.60	5.21	5.99	7.18	8.28
Nov	4.65	4.34	4.96	1950	26	9.14	1988	1.27	1976	13.6	7.9	3.0	1.2	2.04	2.45	3.03	3.51	3.95	4.39	4.87	5.42	6.11	7.17	8.12
Dec	4.31	4.06	5.74	1948	31	11.03	1973	1.27	1980	15.1	7.9	3.1	1.2	1.35	1.76	2.37	2.89	3.39	3.91	4.49	5.16	6.02	7.37	8.61
Ann	53.87	53.10	10.67	Aug 1955	19	12.16	May 1984	.61	Jun 1988	158.5	92.4	36.4	13.4	41.94	44.33	47.35	49.61	51.60	53.51	55.46	57.60	60.17	63.87	67.03

+ 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: 1942-2001

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

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Climate Division: CT 1

NWS Call Sign:

Elevation: 1,340 Feet

Lat: 41°58N

Lon: 73°13W

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	21.0	20.5	8	6	14.0	1987	23	50.5	1987	39	1996	9	21	1996	11.6	5.9	2.3	1.2	.2	25.7	21.5	17.7	10.8
Feb	17.8	16.5	12	10	17.6	1983	12	39.9	1972	34	1978	8	25+	1994	9.6	4.9	2.0	.9	.2	24.8	22.6	19.8	14.3
Mar	15.9	12.7	8	6	25.0	1977	23	42.6	1993	37	1993	14	26	1971	8.1	4.4	1.5	.7	.1	20.1	16.1	13.4	9.2
Apr	7.7	4.6	2	#	21.0	1997	1	31.1	1997	26	1971	7	15	1971	3.4	2.0	.8	.3	.1	5.0	3.1	2.3	1.2
May	.7	.0	#	0	10.5	1977	10	20.0	1977	13	1977	10	1	1977	.2	.1	.1	.1	@	.1	.1	.1	@
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	.8	.0	#	0	6.5	1979	11	9.5	1987	10	1987	5	1	1987	.4	.2	.1	.1	.0	.3	.1	.1	@
Nov	5.8	4.3	1	#	10.5	1971	25	24.1	1971	15	1971	26	3	1971	3.7	1.5	.7	.3	.1	4.8	2.1	1.1	.2
Dec	17.2	16.9	4	3	16.5	1996	7	33.8	1996	29	1996	8	10	1995	9.6	5.1	2.0	1.0	.2	19.6	13.1	9.3	2.4
Ann	86.9	75.5	N/A	N/A	25.0	Mar 1977	23	50.5	Jan 1987	39	Jan 1996	9	26	Mar 1971	46.6	24.1	9.5	4.6	.9	100.4	78.7	63.8	38.1

+ 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

Complete documentation available from:

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Climate Division: CT 1

NWS Call Sign:

Elevation: 1,340 Feet

Lat: 41° 58N

Lon: 73° 13W

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	6/02	5/29	5/26	5/22	5/19	5/16	5/12	5/07
32	5/23	5/19	5/15	5/12	5/10	5/07	5/04	5/01	4/26
28	5/08	5/04	5/01	4/28	4/26	4/23	4/20	4/17	4/13
24	4/23	4/19	4/16	4/14	4/12	4/10	4/08	4/05	4/01
20	4/12	4/08	4/05	4/03	4/01	3/29	3/27	3/24	3/20
16	4/06	4/02	3/30	3/27	3/25	3/23	3/20	3/17	3/13
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	9/11	9/15	9/18	9/20	9/22	9/25	9/27	9/30	10/03
32	9/20	9/25	9/29	10/02	10/05	10/07	10/10	10/14	10/19
28	10/03	10/08	10/11	10/14	10/17	10/19	10/22	10/26	10/30
24	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/12	11/17
20	10/29	11/04	11/07	11/11	11/14	11/17	11/20	11/24	11/29
16	11/14	11/18	11/21	11/24	11/26	11/28	12/01	12/04	12/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	143	136	131	126	122	118	114	109	101
32	164	159	154	151	147	144	140	136	130
28	194	187	182	177	173	169	165	160	153
24	223	216	211	207	203	199	195	190	183
20	248	240	235	231	226	222	218	212	205
16	263	257	253	249	245	242	238	234	228

* 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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Climate Division: CT 1 NWS Call Sign: Elevation: 1,340 Feet Lat: 41°58N Lon: 73°13W

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	1381	1193	1042	661	319	93	17	35	202	552	835	1202	7532
60	1226	1053	887	512	187	27	1	3	88	401	685	1047	6117
57	1133	969	794	423	123	9	0	0	45	315	595	954	5360
55	1071	913	732	366	89	4	0	0	27	261	535	892	4890
50	916	773	577	233	32	0	0	0	5	148	387	737	3808
32	392	298	119	7	0	0	0	0	0	2	37	263	1118

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	34	29	100	336	709	938	1117	1065	793	473	192	84	5870
55	0	0	0	4	84	252	404	352	130	19	0	0	1245
57	0	0	0	2	57	197	342	290	88	11	0	0	987
60	0	0	0	0	27	124	249	200	41	4	0	0	645
65	0	0	0	0	5	40	110	77	5	0	0	0	237
70	0	0	0	0	0	6	26	14	0	0	0	0	46

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	1	3	35	153	464	701	869	816	549	244	72	9	1	4	39	192	656	1357	2226	3042	3591	3835	3907	3916
45	0	0	11	83	321	551	714	661	403	138	31	2	0	0	11	94	415	966	1680	2341	2744	2882	2913	2915
50	0	0	5	38	194	404	559	506	262	64	9	0	0	0	5	43	237	641	1200	1706	1968	2032	2041	2041
55	0	0	2	15	101	263	404	355	148	20	4	0	0	0	2	17	118	381	785	1140	1288	1308	1312	1312
60	0	0	0	4	40	145	256	211	71	1	0	0	0	0	0	4	44	189	445	656	727	728	728	728
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	24	96	264	423	564	515	310	125	38	3	0	1	25	121	385	808	1372	1887	2197	2322	2360	2363

(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.

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