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: WEST THOMPSON LAKE, CT **COOP ID: 069388**

Climate Division: CT 2 **NWS Call Sign:** **Elevation: 360 Feet** **Lat: 41˚57N** **Lon: 71˚54W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	35.4	12.6	24.0	65+	1966	1	32.3	1990	-23	1984	22	13.9	1981	1272	0	.0	.0	3.2	11.9	29.9	5.0
Feb	37.7	14.6	26.2	70	1985	25	33.5	1998	-21+	1967	13	16.6	1979	1089	0	.0	.0	3.9	8.9	26.5	3.5
Mar	46.5	24.0	35.3	84+	1977	31	40.6	2000	-15	1967	19	29.3	1984	923	0	.0	.0	11.5	2.2	25.0	.1
Apr	57.7	33.2	45.5	94	1976	20	49.6	1976	2	1982	8	40.2	1972	587	0	.0	.2	23.2	.1	13.3	.0
May	69.4	43.4	56.4	96	1992	24	61.0	1991	24	1968	8	52.8	1990	272	6	.0	.7	30.4	.0	2.0	.0
Jun	77.3	52.7	65.0	97	1967	12	68.6	1976	32	1980	12	61.8	1982	63	63	.0	1.6	30.0	.0	@	.0
Jul	82.4	58.3	70.4	100	1982	19	74.9	1994	40+	1979	7	66.2	1992	8	173	@	3.6	31.0	.0	.0	.0
Aug	80.4	57.1	68.8	100	1975	3	72.3	1984	35	1986	29	65.8	1992	18	134	@	1.8	31.0	.0	.0	.0
Sep	72.6	48.3	60.5	97	1983	12	64.1	1971	29+	1966	27	57.3	1978	151	14	.0	.4	30.0	.0	.8	.0
Oct	62.0	36.0	49.0	85+	1968	3	55.1	1971	14	1966	31	44.7	1974	496	0	.0	.0	29.1	.0	11.9	.0
Nov	51.1	29.6	40.4	80	1982	3	45.3	1979	-2	1989	25	35.9	1976	739	0	.0	.0	16.0	.7	20.4	.1
Dec	39.8	19.4	29.6	74	1998	8	36.3	1998	-20	1980	26	15.4	1989	1099	0	.0	.0	5.4	6.7	28.3	1.2
Ann	59.4	35.8	47.6	100+	Jul 1982	19	74.9	Jul 1994	-23	Jan 1984	22	13.9	Jan 1981	6717	390	.0	8.3	244.7	30.5	158.1	9.9

\+ 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: 1965-2001

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

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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	4.68	4.48	3.30	1978	26	12.89	1979	.67	1981
Feb	3.32	3.25	2.35	1970	4	7.59	1981	.51	1978
Mar	4.44	3.93	3.60	1980	22	7.85	1980	.75	1981
Apr	4.40	4.39	3.15	1996	17	10.74	1987	1.44	1999
May	3.94	3.73	2.30	1972	4	7.93	1984	.85	1993
Jun	4.00	3.27	3.90	2001	18	11.24	1982	.24	1999
Jul	4.55	4.11	4.95	1980	30	9.81	1988	1.53	1983
Aug	4.47	3.91	4.78	1991	20	9.48	1991	.38	1984
Sep	4.00	3.40	3.75	1999	11	9.43	1999	.65	1986
Oct	4.43	3.85	4.62	1990	14	11.84	1990	.66	1994
Nov	4.70	4.97	2.65	1988	21	8.61	1988	.88	1976
Dec	4.32	3.91	2.15	1996	2	9.22	1996	1.02	1980
Ann	51.25	50.75	4.95	Jul 1980	30	12.89	Jan 1979	.24	Jun 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.2	3.2	1.3
Feb	9.0	6.1	2.4	.7
Mar	10.6	7.3	3.1	1.0
Apr	10.7	7.2	2.8	1.3
May	12.2	7.8	2.5	.9
Jun	11.0	6.5	2.5	1.1
Jul	9.9	6.6	3.1	1.4
Aug	9.4	6.5	2.8	1.4
Sep	8.7	6.2	2.7	1.0
Oct	8.4	5.7	2.7	1.4
Nov	9.8	6.7	3.1	1.4
Dec	10.5	7.3	2.7	1.1
Ann	120.8	81.1	33.6	14.0

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	1.17	1.61	2.29	2.89	3.49	4.12	4.82	5.66	6.75	8.48	10.11
Feb	1.09	1.40	1.87	2.26	2.64	3.03	3.46	3.97	4.61	5.62	6.54
Mar	1.80	2.20	2.78	3.26	3.71	4.16	4.66	5.22	5.95	7.05	8.05
Apr	1.46	1.87	2.49	3.01	3.51	4.02	4.59	5.25	6.10	7.42	8.63
May	1.51	1.88	2.40	2.83	3.25	3.67	4.12	4.65	5.32	6.34	7.28
Jun	.66	1.01	1.59	2.14	2.70	3.32	4.02	4.88	6.02	7.88	9.65
Jul	1.95	2.36	2.94	3.41	3.85	4.29	4.77	5.31	6.00	7.06	8.01
Aug	1.12	1.54	2.19	2.77	3.34	3.94	4.61	5.41	6.45	8.10	9.64
Sep	.99	1.36	1.94	2.46	2.97	3.51	4.12	4.83	5.77	7.26	8.65
Oct	1.15	1.57	2.22	2.78	3.34	3.93	4.58	5.35	6.36	7.96	9.45
Nov	1.58	2.03	2.68	3.23	3.76	4.31	4.91	5.61	6.50	7.89	9.18
Dec	1.12	1.53	2.16	2.71	3.25	3.82	4.46	5.22	6.20	7.76	9.21
Ann	41.29	43.32	45.85	47.75	49.40	50.99	52.60	54.37	56.49	59.52	62.10

\+ 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: 1965-2001
(3) Derived from 1971-2000 serially complete daily data

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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	11.1	8.8	4	2	12.0	1983	16	28.5	1978	24	1978	23	13	1996	3.8	3.4	1.3	.8	.1	12.7	8.4	6.7	3.8
Feb	8.2	6.8	3	2	20.0	1978	7	24.0	1978	30	1978	9	15	1978	3.2	2.9	1.2	.6	@	11.5	8.6	6.5	2.5
Mar	5.8	3.5	1	#	10.0	1972	15	18.0	1972	17	1978	17	11	1978	2.1	1.9	.8	.4	@	4.0	2.1	1.3	.8
Apr	1.2	.0	#	#	13.0	1982	7	14.0	1982	14	1982	8	2	1982	.3	.3	.1	.1	@	.5	.2	.1	.1
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	.1	.0	#	0	2.0	1979	11	2.0	1979	2	1979	11	#+	1979	@	@	.0	.0	.0	@	.0	.0	.0
Nov	1.8	.0	#	#	8.0	1986	19	10.0	1986	8	1986	19	1	1997	.7	.6	.2	.1	.0	1.5	.5	.2	.0
Dec	6.0	6.0	1	1	11.0	1981	6	17.0	1981	17	1976	30	6	1995	2.9	2.5	.9	.4	@	6.6	2.8	1.5	.2
Ann	34.2	25.1	N/A	N/A	20.0	Feb 1978	7	28.5	Jan 1978	30	Feb 1978	9	15	Feb 1978	13.0	11.6	4.5	2.4	.1	36.8	22.6	16.3	7.4

+ 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	6/06	6/01	5/28	5/24	5/21	5/18	5/15	5/11	5/05
32	5/25	5/20	5/17	5/14	5/11	5/08	5/05	5/02	4/27
28	5/07	5/03	5/01	4/29	4/27	4/25	4/23	4/20	4/17
24	4/24	4/19	4/16	4/12	4/09	4/07	4/03	3/31	3/26
20	4/11	4/06	4/03	3/31	3/28	3/26	3/23	3/19	3/15
16	4/01	3/28	3/24	3/22	3/19	3/17	3/14	3/11	3/06

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	9/05	9/10	9/14	9/17	9/19	9/22	9/25	9/29	10/04
32	9/21	9/25	9/28	9/30	10/02	10/04	10/07	10/10	10/13
28	10/02	10/06	10/09	10/11	10/13	10/16	10/18	10/21	10/25
24	10/11	10/17	10/22	10/26	10/29	11/01	11/05	11/10	11/16
20	10/21	10/28	11/01	11/05	11/09	11/13	11/17	11/22	11/28
16	11/09	11/15	11/19	11/23	11/26	11/30	12/03	12/08	12/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	139	132	128	124	121	117	113	109	102
32	158	153	149	146	144	141	138	134	129
28	187	180	176	172	169	165	162	157	151
24	222	215	210	206	202	198	194	188	182
20	250	241	235	230	225	220	215	209	201
16	274	266	261	256	251	247	242	236	229

***** 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	1272	1089	923	587	272	63	8	18	151	496	739	1099	6717
60	1117	949	768	437	145	14	0	1	56	345	589	944	5365
57	1024	865	675	349	87	4	0	0	26	261	499	851	4641
55	962	809	613	292	58	1	0	0	14	210	439	789	4187
50	807	669	459	166	15	0	0	0	2	107	297	638	3160
32	308	217	62	1	0	0	0	0	0	0	16	194	798

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	59	52	162	404	757	990	1188	1139	853	527	267	119	6517
55	0	0	0	5	102	301	475	426	177	24	0	0	1510
57	0	0	0	2	69	244	413	364	129	13	0	0	1234
60	0	0	0	0	34	164	320	272	69	4	0	0	863
65	0	0	0	0	6	63	173	134	14	0	0	0	390
70	0	0	0	0	0	13	65	43	1	0	0	0	122

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	7	10	60	205	532	767	954	905	624	303	111	25	7	17	77	282	814	1581	2535	3440	4064	4367	4478	4503
45	0	1	24	107	379	617	799	750	474	178	52	5	0	1	25	132	511	1128	1927	2677	3151	3329	3381	3386
50	0	0	8	53	240	468	644	595	332	90	24	0	0	0	8	61	301	769	1413	2008	2340	2430	2454	2454
55	0	0	3	20	129	322	489	441	200	38	6	0	0	0	3	23	152	474	963	1404	1604	1642	1648	1648
60	0	0	0	5	57	192	336	292	103	9	1	0	0	0	0	5	62	254	590	882	985	994	995	995
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	6	11	46	141	326	489	630	596	387	208	78	21	6	17	63	204	530	1019	1649	2245	2632	2840	2918	2939

(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:
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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