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: STAMFORD 5 N, CT **COOP ID: 067970**

Climate Division: CT 3 **NWS Call Sign:** **Elevation: 190 Feet** **Lat: 41˚07N** **Lon: 73˚33W**

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	38.2	19.2	28.7	68	1974	27	37.1	1998	-18+	1961	22	18.3	1977	1125	0	.0	.0	3.8	8.2	27.9	2.0
Feb	41.3	21.0	31.2	74	1985	24	38.1	1998	-14	1979	11	21.4	1979	948	0	.0	.0	5.4	4.9	24.9	.8
Mar	50.4	28.7	39.6	85	1998	31	44.5	2000	-6	1967	19	34.0	1984	788	0	.0	.0	16.0	.6	20.7	.0
Apr	62.1	37.6	49.9	93+	1990	27	52.9	1994	16+	1964	1	45.1	1972	455	0	.0	.1	27.9	@	8.7	.0
May	72.8	47.4	60.1	97	1996	20	65.4	1991	28+	1956	9	56.4	1973	176	24	.0	1.0	31.0	.0	.7	.0
Jun	80.7	56.2	68.5	97+	1957	16	71.4	1994	35+	1964	5	64.8	1985	24	128	.0	2.6	30.0	.0	.0	.0
Jul	85.4	61.6	73.5	102	1995	15	77.5	1994	43	1979	6	70.4	2000	1	265	.2	6.5	31.0	.0	.0	.0
Aug	83.3	60.6	72.0	104	2001	9	75.2	1980	37	1965	31	68.9	1982	3	218	.0	3.9	31.0	.0	.0	.0
Sep	75.5	53.2	64.4	97	1983	11	67.6	1980	28	1957	28	60.4	1975	72	53	.0	.9	30.0	.0	@	.0
Oct	64.7	41.6	53.2	86	1979	22	59.1	1971	16	1976	28	48.6	1974	370	4	.0	.0	30.3	.0	5.2	.0
Nov	53.3	33.5	43.4	80	1974	1	48.0	1975	7	1989	24	37.0	1976	648	0	.0	.0	20.1	.1	15.1	.0
Dec	42.5	24.8	33.7	76	1998	7	39.0	1990	-13	1980	26	22.6	1989	972	0	.0	.0	6.5	3.7	24.7	.3
Ann	62.5	40.5	51.5	104	Aug 2001	9	77.5	Jul 1994	-18+	Jan 1961	22	18.3	Jan 1977	5582	692	.2	15.0	263.0	17.5	127.9	3.1

\+ 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: 1955-2001

(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	4.50	4.25	4.12	1979	21	11.52	1979	.67	1981
Feb	3.32	3.26	2.82	1981	20	6.98	1981	.69	1987
Mar	4.70	4.36	3.77	1979	6	9.21	1983	.84	1981
Apr	4.51	4.00	3.82	1987	4	12.71	1983	1.05	1985
May	4.97	4.66	4.53	1968	29	13.81	1989	.87	1993
Jun	4.33	3.93	6.12	1972	19	16.27	1972	.56	1988
Jul	4.09	3.88	4.04	1996	13	8.72	1984	1.24	1974
Aug	4.26	4.59	3.62	1991	19	8.44	1991	.44	1995
Sep	4.82	3.99	5.02	1999	16	12.95	1999	1.35	1986
Oct	4.42	3.95	4.16	1972	7	9.71	1990	.73	2000
Nov	4.58	4.09	3.36	1977	8	9.35	1988	.37	1976
Dec	4.29	4.05	3.02	1986	3	9.73	1973	.57	1980
Ann	52.79	51.53	6.12	Jun 1972	19	16.27	Jun 1972	.37	Nov 1976

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.3	2.9	1.2
Feb	9.7	6.3	2.2	.9
Mar	10.9	7.5	3.3	1.3
Apr	12.5	7.3	2.8	1.0
May	12.5	7.9	3.3	1.4
Jun	11.7	7.0	3.2	1.2
Jul	10.2	6.2	2.9	1.2
Aug	9.7	6.6	2.8	1.4
Sep	9.8	6.3	2.9	1.5
Oct	9.2	5.9	2.6	1.2
Nov	10.6	6.3	3.2	1.6
Dec	11.3	7.2	2.9	1.1
Ann	128.6	81.8	35.0	15.0

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	1.14	1.57	2.22	2.80	3.37	3.97	4.64	5.44	6.48	8.13	9.67
Feb	1.30	1.61	2.04	2.41	2.75	3.10	3.48	3.91	4.47	5.32	6.10
Mar	1.63	2.07	2.72	3.26	3.79	4.32	4.91	5.59	6.47	7.82	9.06
Apr	1.47	1.89	2.53	3.06	3.58	4.11	4.70	5.39	6.27	7.64	8.91
May	1.28	1.75	2.48	3.11	3.74	4.40	5.13	6.01	7.14	8.94	10.61
Jun	.93	1.33	1.97	2.54	3.12	3.74	4.43	5.26	6.35	8.10	9.75
Jul	1.31	1.70	2.27	2.76	3.23	3.72	4.26	4.89	5.70	6.96	8.13
Aug	.91	1.30	1.93	2.50	3.07	3.67	4.36	5.18	6.26	7.98	9.61
Sep	1.03	1.47	2.18	2.82	3.46	4.15	4.93	5.86	7.09	9.05	10.90
Oct	1.13	1.55	2.19	2.76	3.32	3.91	4.56	5.34	6.35	7.96	9.46
Nov	1.45	1.88	2.52	3.08	3.61	4.16	4.76	5.47	6.39	7.81	9.13
Dec	1.02	1.42	2.05	2.61	3.16	3.75	4.41	5.19	6.22	7.85	9.38
Ann	39.77	42.34	45.62	48.08	50.25	52.34	54.49	56.85	59.70	63.81	67.33

\+ 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: 1955-2001
(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	9.3	7.4	3	2
Feb	8.3	7.1	2	2
Mar	4.9	3.8	1	#
Apr	.8	.0	#	0
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
Nov	.7	.0	#	0
Dec	4.6	4.0	1	#
Ann	28.6	22.3	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	13.0	1996	8	27.8	1996	20	1996	10	9	1996
Feb	16.0	1983	12	21.0	1983	21	1994	11	11	1994
Mar	14.0	1993	13	19.4	1993	15	1994	3	8	1994
Apr	10.0	1982	6	11.0	1982	10	1982	6	#+	2000
May	#	1977	9	#	1977	0	0	0	0	0
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	.8	1979	10	.8	1979	#	2000	29	#	2000
Nov	5.0	1989	23	5.0	1989	4	1989	23	#+	1999
Dec	13.0	2000	30	17.1	2000	13	2000	30	5	1976
Ann	16.0	Feb 1983	12	27.8	Jan 1996	21	Feb 1994	11	11	Feb 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.8	3.1	1.1	.4	.1
Feb	4.3	2.4	1.0	.5	.1
Mar	2.5	1.5	.6	.3	@
Apr	.4	.3	.1	@	@
May	.0	.0	.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	.0	.0
Nov	.4	.2	.1	@	.0
Dec	2.7	1.4	.4	.1	@
Ann	15.1	8.9	3.3	1.3	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	4.3	1.5	.4	.0
Feb	-9.9	-9.9	-9.9	-9.9
Mar	1.6	.6	.3	.0
Apr	@	@	@	@
May	.0	.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	.2	.1	.0	.0
Dec	2.1	.8	.3	.0
Ann	-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

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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	5/25	5/20	5/17	5/15	5/12	5/09	5/07	5/04	4/29
32	5/11	5/07	5/04	5/01	4/29	4/26	4/23	4/20	4/16
28	4/26	4/22	4/19	4/16	4/14	4/11	4/09	4/06	4/02
24	4/11	4/06	4/03	4/01	3/29	3/27	3/24	3/21	3/17
20	3/31	3/27	3/25	3/22	3/20	3/18	3/16	3/13	3/10
16	3/25	3/19	3/15	3/12	3/08	3/05	3/01	2/25	2/19

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	9/21	9/24	9/27	9/29	10/01	10/03	10/06	10/08	10/12
32	10/01	10/04	10/07	10/10	10/12	10/14	10/16	10/19	10/23
28	10/12	10/16	10/20	10/23	10/26	10/28	10/31	11/04	11/08
24	10/22	10/28	11/01	11/05	11/08	11/12	11/15	11/19	11/25
20	11/06	11/12	11/17	11/20	11/24	11/27	12/01	12/05	12/11
16	11/19	11/26	12/01	12/06	12/10	12/14	12/19	12/24	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	157	152	148	145	142	139	135	131	126
32	182	176	172	169	166	162	159	155	149
28	213	207	202	198	194	190	186	181	175
24	245	237	232	228	223	219	215	209	202
20	269	262	257	252	248	243	239	234	226
16	307	296	289	282	276	270	264	256	246

***** 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	1125	948	788	455	176	24	1	3	72	370	648	972	5582
60	970	808	633	307	77	3	0	0	20	233	498	817	4366
57	877	724	540	224	39	1	0	0	7	163	409	724	3708
55	815	668	478	173	23	0	0	0	3	124	350	662	3296
50	662	528	331	74	4	0	0	0	0	52	216	514	2381
32	211	134	23	0	0	0	0	0	0	0	5	111	484

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	109	110	258	535	871	1094	1287	1238	971	656	347	162	7638
55	0	0	0	18	180	404	574	525	284	67	2	0	2054
57	0	0	0	9	135	345	512	463	228	44	1	0	1737
60	0	0	0	2	80	257	419	370	151	21	0	0	1300
65	0	0	0	0	24	128	265	218	53	4	0	0	692
70	0	0	0	0	4	42	127	91	8	0	0	0	272

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	13	26	97	308	636	857	1047	999	743	423	162	38	13	39	136	444	1080	1937	2984	3983	4726	5149	5311	5349
45	0	6	42	181	481	707	892	844	593	277	83	11	0	6	48	229	710	1417	2309	3153	3746	4023	4106	4117
50	0	0	13	89	326	557	737	689	443	158	35	2	0	0	13	102	428	985	1722	2411	2854	3012	3047	3049
55	0	0	4	36	188	408	582	534	300	70	9	0	0	0	4	40	228	636	1218	1752	2052	2122	2131	2131
60	0	0	0	11	92	264	427	380	174	25	1	0	0	0	0	11	103	367	794	1174	1348	1373	1374	1374
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	7	15	65	196	385	559	711	678	471	255	93	21	7	22	87	283	668	1227	1938	2616	3087	3342	3435	3456

(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