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: DANBURY, CT **COOP ID: 061762**

Climate Division: CT 2 **NWS Call Sign:** **Elevation: 405 Feet** **Lat: 41˚24N** **Lon: 73˚25W**

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	35.4	17.6	26.5	71	1950	26	35.0	1990	-18	1994	27	17.6	1994	1194	0	.0	.0	2.8	12.1	28.5	2.1
Feb	38.6	19.3	29.0	77	1954	16	35.6	1998	-10+	1967	13	19.2	1979	1010	0	.0	.0	4.4	7.9	24.9	1.1
Mar	48.1	27.4	37.8	92	1998	31	44.0	2000	-9	1967	19	31.5	1984	844	0	.0	@	13.3	1.7	21.9	.1
Apr	59.6	36.4	48.0	94	1976	18	53.2	1991	14	1982	7	43.4	1975	509	0	.0	.2	25.6	@	9.1	.0
May	70.9	46.7	58.8	97	1986	19	66.8	1991	26	1996	14	55.1	1996	220	29	.0	1.1	30.9	.0	.8	.0
Jun	79.3	55.7	67.5	98+	1991	28	72.5	1999	36+	1957	10	62.8	1985	46	121	.0	2.7	30.0	.0	.0	.0
Jul	83.9	61.0	72.5	106	1995	15	78.2	1999	40	1978	3	69.1	1976	11	242	.5	5.4	31.0	.0	.0	.0
Aug	81.4	59.2	70.3	103	2001	9	74.4	1998	38+	1965	30	66.8	1982	9	173	.0	2.9	31.0	.0	.0	.0
Sep	73.0	51.2	62.1	100	1953	2	66.8	1998	28+	1951	30	58.6	1984	119	31	.0	.6	30.0	.0	.1	.0
Oct	62.0	39.7	50.9	89	1949	10	56.9	1971	19+	1948	19	46.9	1988	439	1	.0	.0	29.5	.0	6.6	.0
Nov	50.7	32.0	41.4	82	1950	2	47.6	1975	10+	1993	26	34.7	1996	711	0	.0	.0	16.6	.5	15.6	.0
Dec	39.6	22.8	31.2	76	1998	7	36.7	1982	-11	1980	26	18.1	1989	1047	0	.0	.0	5.0	6.1	26.1	.3
Ann	60.2	39.1	49.7	106	Jul 1995	15	78.2	Jul 1999	-18	Jan 1994	27	17.6	Jan 1994	6159	597	.5	12.9	250.1	28.3	133.6	3.6

\+ 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

	Means/ Medians(1)		Extremes							Mean Number of Days (3)				Precipitation Probabilities (1)									
										Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution									
Month	Mean	Median	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	4.22	4.18	3.75	1986	26	11.34	1979	.51	1981	11.1	7.6	2.7	1.0	.97	1.36	1.97	2.53	3.08	3.67	4.33	5.11	6.15	7.79	9.34
Feb	3.08	2.82	3.26	1973	2	8.38	1981	.42	1987	9.6	6.4	2.0	.7	1.00	1.29	1.72	2.09	2.45	2.81	3.21	3.68	4.29	5.23	6.10
Mar	4.45	4.13	3.29	1983	19	11.28	1983	.51	1981	11.3	7.6	2.9	1.1	1.31	1.73	2.37	2.92	3.45	4.01	4.62	5.34	6.28	7.74	9.10
Apr	4.27	3.44	3.46	1984	5	11.69	1983	.93	1985	11.7	7.6	2.9	.9	1.39	1.79	2.39	2.90	3.39	3.90	4.45	5.10	5.94	7.24	8.45
May	4.69	4.46	3.62	1999	19	12.69	1984	.67	1986	12.3	8.2	3.3	1.1	1.15	1.59	2.27	2.88	3.49	4.12	4.83	5.68	6.79	8.54	10.18
Jun	4.26	3.51	4.44	2001	17	11.65	1972	.92	1988	11.1	7.8	2.7	1.0	1.12	1.52	2.14	2.68	3.22	3.78	4.40	5.14	6.11	7.63	9.05
Jul	4.61	4.19	5.81	1992	16	9.33	1996	1.56	1979	10.1	6.5	2.7	1.3	1.61	2.05	2.68	3.21	3.72	4.25	4.82	5.48	6.34	7.65	8.87
Aug	4.49	4.18	4.53	1955	19	9.95	1976	.43	1981	9.2	6.6	2.9	1.3	1.30	1.73	2.37	2.93	3.47	4.04	4.66	5.40	6.36	7.85	9.24
Sep	4.99	4.06	9.55	1999	16	14.99	1999	.99	1972	9.2	6.1	2.9	1.4	1.03	1.48	2.21	2.88	3.56	4.28	5.09	6.07	7.37	9.44	11.40
Oct	4.18	3.64	6.10	1955	16	10.81	1995	.98	2000	8.5	6.1	2.8	1.2	1.14	1.53	2.14	2.66	3.18	3.72	4.32	5.03	5.96	7.41	8.76
Nov	4.45	4.26	4.00	1992	23	8.22	1992	.86	1976	9.7	6.8	3.0	1.6	1.59	2.01	2.61	3.12	3.61	4.11	4.65	5.29	6.10	7.35	8.50
Dec	4.08	3.75	4.12	1983	13	10.21	1973	.52	1980	11.3	7.1	2.8	1.2	.99	1.37	1.96	2.49	3.02	3.57	4.20	4.93	5.90	7.44	8.88
Ann	51.77	50.43	9.55	Sep 1999	16	14.99	Sep 1999	.42	Feb 1987	125.1	84.4	33.6	13.8	39.61	42.04	45.10	47.41	49.43	51.38	53.38	55.58	58.22	62.02	65.28

\+ 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

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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	11.9	10.0	3	2
Feb	11.0	9.2	3	3
Mar	6.7	5.8	1	#
Apr	1.8	.1	#	#
May	.0	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	#	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.2	.0	#	0
Nov	1.1	.1	#	#
Dec	6.1	5.0	1	#
Ann	38.8	30.2	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	14.5	1996	8	38.3	1996	36	1996	12	17	1996
Feb	24.0	1983	12	30.0	1983	28	1983	12	17	1978
Mar	17.0	1993	14	28.7	1993	19	1993	15	7	1978
Apr	10.0	1982	6	10.2	1996	10	1982	7	1	1982
May	1.0	1977	9	1.0	1977	#	1998	31	#	1998
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	#	1996	9	#	1996
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	3	1979	10	#	1979
Nov	5.5	1971	25	5.5	1971	5	1971	25	1	1971
Dec	13.4	2000	30	17.6	2000	18	1995	21	6	1995
Ann	24.0	Feb 1983	12	38.3	Jan 1996	36	Jan 1996	12	17+	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.2	3.8	1.4	.4	.1
Feb	4.3	3.0	1.2	.6	.2
Mar	3.2	2.3	.9	.3	@
Apr	.8	.4	.2	.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	.1	.1	@	.0	.0
Nov	.8	.5	.1	@	.0
Dec	3.4	2.2	.7	.3	@
Ann	17.8	12.3	4.5	1.7	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	13.9	9.7	7.5	1.6
Feb	12.7	8.7	5.8	1.7
Mar	5.0	2.8	1.3	.2
Apr	.5	.2	.2	.1
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
Nov	.9	.3	@	.0
Dec	7.1	2.9	1.5	.6
Ann	40.1	24.6	16.3	4.2

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

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	9/15	9/19	9/22	9/24	9/26	9/28	9/30	10/03	10/07
32	9/26	10/01	10/04	10/06	10/09	10/11	10/14	10/17	10/22
28	10/05	10/11	10/15	10/18	10/22	10/25	10/29	11/02	11/08
24	10/16	10/23	10/27	10/31	11/04	11/08	11/12	11/16	11/23
20	10/30	11/06	11/11	11/15	11/19	11/23	11/27	12/02	12/09
16	11/19	11/24	11/28	12/01	12/04	12/07	12/10	12/14	12/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	152	147	142	139	136	132	129	125	119
32	181	174	169	165	160	156	152	147	140
28	213	205	199	194	189	184	179	173	164
24	239	231	225	220	215	211	206	200	192
20	262	254	248	243	238	233	228	222	214
16	291	282	276	271	266	261	256	250	241

***** 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	1194	1010	844	509	220	46	11	9	119	439	711	1047	6159
60	1039	870	689	361	117	11	0	0	43	294	561	892	4877
57	946	786	596	276	71	3	0	0	19	217	471	799	4184
55	884	730	534	222	48	1	0	0	10	171	413	737	3750
50	729	590	386	111	14	0	0	0	1	83	276	585	2775
32	249	171	43	0	0	0	0	0	0	0	16	153	632

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	78	85	222	481	832	1065	1254	1187	902	586	295	129	7116
55	0	0	0	13	167	377	541	474	223	44	2	0	1841
57	0	0	0	6	128	319	479	412	172	27	1	0	1544
60	0	0	0	2	80	237	386	319	105	12	0	0	1141
65	0	0	0	0	29	121	242	173	31	1	0	0	597
70	0	0	0	0	7	46	124	65	4	0	0	0	246

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	10	19	85	278	609	845	1024	967	689	369	146	32	10	29	114	392	1001	1846	2870	3837	4526	4895	5041	5073
45	1	5	40	156	454	695	869	812	539	230	73	9	1	6	46	202	656	1351	2220	3032	3571	3801	3874	3883
50	0	0	14	75	305	545	714	657	390	124	32	2	0	0	14	89	394	939	1653	2310	2700	2824	2856	2858
55	0	0	4	30	172	395	559	502	252	55	10	0	0	0	4	34	206	601	1160	1662	1914	1969	1979	1979
60	0	0	3	14	84	255	405	348	138	16	1	0	0	0	3	17	101	356	761	1109	1247	1263	1264	1264
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	4	13	59	169	363	547	689	651	426	215	79	14	4	17	76	245	608	1155	1844	2495	2921	3136	3215	3229

(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