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: DANSVILLE, NY **COOP ID: 301974**

Climate Division: NY10 **NWS Call Sign:** **Elevation: 660 Feet** **Lat: 42˚34N** **Lon: 77˚43W**

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	33.0	14.8	23.9	74	1950	26	33.2	1990	-22	1994	16	13.8	1977	1275	0	.0	.0	2.5	15.3	28.5	3.6
Feb	35.5	15.7	25.6	71	1997	22	33.5	1998	-18	1979	18	14.5	1979	1103	0	.0	.0	4.0	12.3	25.9	3.0
Mar	44.7	23.6	34.2	85+	1986	31	41.6	1973	-8	1999	8	26.1	1984	958	0	.0	.0	10.2	5.2	24.1	.6
Apr	56.7	33.7	45.2	91	1990	29	49.8	1991	11	1969	1	37.5	1975	594	0	.0	@	20.6	.5	14.4	.0
May	69.5	44.2	56.9	95	1950	6	62.8	1991	22+	1977	9	51.5	1997	274	22	.0	.6	30.0	.0	2.5	.0
Jun	78.3	53.3	65.8	99+	1953	21	69.0	1973	30	1972	11	60.9	1985	64	88	.0	2.0	30.0	.0	.1	.0
Jul	82.6	58.1	70.4	103	1955	23	73.7	1993	40	1963	9	66.6	2000	9	175	@	4.9	31.0	.0	.0	.0
Aug	80.7	56.3	68.5	101	1955	6	72.3	1980	33	1982	29	64.4	1982	25	133	.0	2.4	31.0	.0	.0	.0
Sep	72.9	48.9	60.9	101+	1953	3	65.3	1971	28+	1991	30	56.7	1975	142	19	.0	.7	30.0	.0	.6	.0
Oct	61.6	38.1	49.9	93	1949	11	56.9	1971	16+	1974	21	45.1	1976	471	1	.0	.0	26.9	.0	7.5	.0
Nov	48.8	30.4	39.6	83	1950	2	45.5	1975	-1	1958	30	33.6	1976	762	0	.0	.0	13.2	1.4	17.3	.0
Dec	38.1	21.0	29.6	73	1982	4	36.6	1982	-17	1980	25	15.8	1989	1099	0	.0	.0	4.4	8.8	26.4	1.0
Ann	58.5	36.5	47.5	103	Jul 1955	23	73.7	Jul 1993	-22	Jan 1994	16	13.8	Jan 1977	6776	438	@	10.6	233.8	43.5	147.3	8.2

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1941-2001

(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	1.55	1.48	1.50	1987	3	3.97	1979	.19	1988
Feb	1.33	1.21	1.89	1961	26	2.59	1976	.38+	1991
Mar	1.85	1.85	1.83	1953	24	3.64	1976	.18	1990
Apr	2.65	2.70	2.35	1961	25	4.15	1984	.97	1995
May	2.90	2.68	1.67	1959	21	6.89	1984	1.02	1993
Jun	3.74	3.32	3.00	1972	23	10.58	1972	.39	1991
Jul	3.21	2.94	2.25	1989	20	7.48	1992	.83	1974
Aug	3.32	3.27	2.54	1956	29	7.13	1984	1.33	1995
Sep	3.61	3.54	2.60	1967	29	7.58	1977	1.43	1994
Oct	2.75	2.60	2.72	1955	15	5.90	1976	.51	1994
Nov	2.59	2.36	2.05	1982	4	5.91	1985	.44	1998
Dec	1.98	1.90	2.00	1978	25	4.09	1978	.59	1993
Ann	31.48	30.20	3.00	Jun 1972	23	10.58	Jun 1972	.18	Mar 1990

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.5	4.4	.7	.1
Feb	10.0	4.1	.6	.1
Mar	12.2	5.3	.9	.1
Apr	12.6	7.4	1.3	.3
May	12.0	7.6	1.7	.1
Jun	11.8	8.3	2.2	.8
Jul	10.7	7.3	2.0	.7
Aug	10.7	7.1	2.0	.9
Sep	11.9	7.8	2.3	.7
Oct	11.8	6.9	1.3	.5
Nov	12.2	6.3	1.5	.4
Dec	12.6	5.8	.9	.2
Ann	141.0	78.3	17.4	4.9

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	.31	.45	.68	.89	1.10	1.33	1.58	1.89	2.30	2.95	3.57
Feb	.40	.52	.71	.88	1.03	1.20	1.38	1.59	1.87	2.30	2.70
Mar	.59	.77	1.03	1.25	1.47	1.69	1.93	2.21	2.58	3.15	3.67
Apr	1.19	1.42	1.75	2.01	2.26	2.51	2.78	3.08	3.47	4.05	4.57
May	1.06	1.33	1.72	2.05	2.36	2.68	3.03	3.43	3.95	4.74	5.47
Jun	1.15	1.51	2.04	2.49	2.93	3.39	3.89	4.48	5.23	6.42	7.52
Jul	1.15	1.45	1.89	2.25	2.60	2.96	3.35	3.80	4.38	5.28	6.10
Aug	1.23	1.54	1.99	2.36	2.72	3.08	3.48	3.94	4.52	5.42	6.25
Sep	1.69	2.00	2.44	2.79	3.11	3.43	3.78	4.18	4.68	5.43	6.11
Oct	.86	1.12	1.51	1.84	2.17	2.50	2.86	3.29	3.85	4.71	5.50
Nov	.84	1.09	1.45	1.76	2.05	2.36	2.70	3.09	3.60	4.39	5.12
Dec	.68	.87	1.14	1.38	1.60	1.82	2.07	2.36	2.73	3.30	3.83
Ann	23.43	25.01	27.03	28.55	29.90	31.19	32.52	33.99	35.76	38.31	40.51

\+ 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: 1941-2001
(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	13.9	9.5	2	2
Feb	12.7	14.2	3	2
Mar	8.6	7.7	2	#
Apr	3.0	1.0	#	#
May	.3	.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	4.1	2.4	#	#
Dec	12.6	12.4	1	1
Ann	55.2	47.2	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	13.0	1978	18	45.7	1978	22	1978	21	7	1978
Feb	12.0	1978	7	26.8	1978	24	1978	9	14	1978
Mar	13.6	1971	4	19.9+	1999	20	1993	14	20	1993
Apr	7.9	1982	6	12.7	1983	10	1982	7	1	1982
May	3.5	1977	10	3.6	1977	#	1973	17	#	1973
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	.1	1974	4	.1	1974	0	0	0	0	0
Nov	7.2	1985	28	16.3	1972	8	1997	15	2	1972
Dec	17.0	1978	25	29.5	1978	14	1978	25	5	1995
Ann	17.0	Dec 1978	25	45.7	Jan 1978	24	Feb 1978	9	20	Mar 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	9.0	4.7	1.1	.5	.1
Feb	6.5	3.7	1.2	.4	.1
Mar	4.4	2.5	.7	.4	@
Apr	2.0	.8	.3	.1	.0
May	.2	.1	@	.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	2.5	1.4	.4	.2	.0
Dec	6.5	3.5	.9	.3	.1
Ann	31.1	16.7	4.6	1.9	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	17.0	11.8	5.2	.4
Feb	15.2	11.3	6.7	1.5
Mar	5.4	3.4	1.9	.6
Apr	.9	.5	.2	@
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	1.8	1.0	.4	.0
Dec	7.8	4.5	1.3	.3
Ann	48.1	32.5	15.7	2.8

+ 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	6/08	6/03	5/30	5/27	5/24	5/21	5/17	5/13	5/08
32	5/28	5/22	5/19	5/15	5/12	5/09	5/05	5/02	4/26
28	5/09	5/05	5/01	4/28	4/26	4/23	4/20	4/16	4/12
24	4/27	4/22	4/19	4/15	4/13	4/10	4/06	4/03	3/29
20	4/17	4/12	4/09	4/06	4/03	4/01	3/29	3/25	3/21
16	4/09	4/04	4/01	3/29	3/26	3/23	3/20	3/17	3/12

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	9/10	9/15	9/18	9/20	9/23	9/26	9/28	10/01	10/06
32	9/23	9/28	10/01	10/04	10/06	10/09	10/12	10/15	10/20
28	10/03	10/09	10/13	10/16	10/19	10/22	10/26	10/30	11/04
24	10/22	10/26	10/29	11/01	11/03	11/06	11/08	11/11	11/16
20	10/31	11/05	11/09	11/12	11/15	11/18	11/22	11/26	12/01
16	11/10	11/16	11/21	11/25	11/28	12/02	12/06	12/10	12/17

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	142	135	130	126	122	118	113	108	101
32	167	160	155	151	147	143	138	133	126
28	197	190	184	180	176	172	167	162	155
24	223	217	212	208	204	200	196	191	185
20	247	240	234	230	226	221	217	212	204
16	269	261	256	251	247	242	237	232	224

***** 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	1275	1103	958	594	274	64	9	25	142	471	762	1099	6776
60	1120	963	803	446	162	18	0	3	52	326	612	944	5449
57	1027	879	710	360	109	7	0	0	24	247	522	851	4736
55	965	823	648	306	81	3	0	0	13	201	463	789	4292
50	810	683	500	185	31	0	0	0	2	107	323	639	3280
32	311	248	104	4	0	0	0	0	0	1	27	196	891

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	59	68	169	400	771	1014	1189	1131	867	554	255	120	6597
55	0	0	0	12	138	328	476	418	190	41	1	0	1604
57	0	0	0	6	105	271	414	356	141	25	0	0	1318
60	0	0	0	2	65	193	321	265	79	11	0	0	936
65	0	0	0	0	22	88	175	133	19	1	0	0	438
70	0	0	0	0	5	25	67	47	2	0	0	0	146

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	22	78	220	538	787	955	893	645	340	123	27	13	35	113	333	871	1658	2613	3506	4151	4491	4614	4641
45	1	8	41	131	391	637	800	738	499	211	65	9	1	9	50	181	572	1209	2009	2747	3246	3457	3522	3531
50	0	0	18	71	260	487	645	583	354	117	28	3	0	0	18	89	349	836	1481	2064	2418	2535	2563	2566
55	0	0	7	38	152	344	490	429	227	55	8	0	0	0	7	45	197	541	1031	1460	1687	1742	1750	1750
60	0	0	1	16	78	215	337	282	128	16	1	0	0	0	1	17	95	310	647	929	1057	1073	1074	1074
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	5	15	55	143	334	507	632	584	405	201	67	12	5	20	75	218	552	1059	1691	2275	2680	2881	2948	2960

(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