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: CHAZY, NY **COOP ID: 301401**

Climate Division: NY 7 **NWS Call Sign:** **Elevation: 170 Feet** **Lat: 44˚53N** **Lon: 73˚26W**

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	26.7	5.4	16.1	62	1950	5	28.2	1990	-44	1994	27	4.2	1994	1518	0	.0	.0	.5	20.2	29.6	11.2
Feb	29.4	7.7	18.6	60	1981	22	30.8	1981	-41	1993	7	8.5	1979	1300	0	.0	.0	.8	16.2	26.6	9.0
Mar	39.8	19.2	29.5	83	1945	28	37.1	2000	-41	1938	4	21.6	1984	1100	0	.0	.0	6.0	7.5	26.1	2.5
Apr	53.9	32.3	43.1	90	1990	27	48.5	1987	5	1943	7	36.2	1972	657	0	.0	@	19.5	.4	14.9	.0
May	68.0	44.0	56.0	94	1979	9	62.6	1998	16	1963	2	49.9	1974	292	13	.0	.2	30.5	.0	2.3	.0
Jun	76.0	53.3	64.7	98	1933	28	69.7	1999	30+	1986	3	61.1	1982	76	66	.0	1.0	30.0	.0	.1	.0
Jul	80.4	58.0	69.2	100	1949	28	72.5	1999	38+	1992	2	64.8	1992	10	141	.0	1.7	31.0	.0	.0	.0
Aug	78.0	55.9	67.0	100	1975	1	71.2	1973	32	1976	31	63.7	1982	39	99	@	.9	31.0	.0	@	.0
Sep	68.8	47.7	58.3	97	1945	8	63.9	1999	22	1980	29	53.8	1978	218	14	.0	.1	29.8	.0	1.3	.0
Oct	56.8	37.3	47.1	85+	1990	6	52.9	1995	14+	1972	20	42.1	1974	558	0	.0	.0	24.6	.0	9.8	.0
Nov	44.2	27.8	36.0	74	1990	3	41.5	1999	-2+	1989	24	32.1+	1980	871	0	.0	.0	8.6	3.1	20.2	.1
Dec	32.3	13.8	23.1	66	1998	7	31.7	1996	-30	1940	5	4.1	1989	1299	0	.0	.0	1.3	14.2	28.4	5.2
Ann	54.5	33.5	44.1	100+	Aug 1975	1	72.5	Jul 1999	-44	Jan 1994	27	4.1	Dec 1989	7938	333	@	3.9	213.6	61.6	159.3	28.0

+ 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: 1926-2001

(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	1.24	.93	2.10	1944	6	5.16	1998	.03	1984
Feb	.98	.69	1.40	1981	11	4.32	1981	.11	1995
Mar	1.54	1.62	1.80	1980	18	3.55	1980	.20+	1996
Apr	2.40	2.31	2.10	1993	23	6.04	1983	.36	1986
May	2.90	2.76	2.50	1940	19	5.62	1983	.62	1988
Jun	3.15	3.08	3.50	1942	14	9.70	1973	.46	1979
Jul	3.56	3.32	2.45	1941	28	5.39	1996	.85	1991
Aug	3.86	3.41	2.98	1986	21	7.94	1997	.96	1999
Sep	3.41	3.48	2.80	1999	17	7.55	1977	.78	1984
Oct	2.94	2.98	2.85	1995	6	5.98	1977	.49	1994
Nov	2.76	2.91	4.27	1996	9	5.08	1996	.68	1998
Dec	1.51	1.34	1.74	1959	7	5.35	1973	.00	1995
Ann	30.25	29.08	4.27	Nov 1996	9	9.70	Jun 1973	.00	Dec 1995

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.6	4.3	.5	.1
Feb	7.6	4.2	.6	@
Mar	8.1	4.5	.6	.1
Apr	7.7	5.9	1.5	.3
May	9.5	7.0	1.8	.3
Jun	8.8	7.1	2.1	.4
Jul	9.7	7.6	2.6	.6
Aug	9.4	7.3	2.8	1.0
Sep	8.4	6.8	2.3	.7
Oct	7.5	6.3	1.8	.6
Nov	8.3	6.0	1.6	.3
Dec	8.3	4.4	.7	.1
Ann	101.9	71.4	18.9	4.5

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	.10	.18	.34	.51	.70	.92	1.18	1.51	1.97	2.74	3.50
Feb	.14	.22	.36	.50	.64	.80	.98	1.20	1.50	1.98	2.44
Mar	.21	.34	.56	.77	1.00	1.24	1.53	1.88	2.35	3.12	3.86
Apr	.71	.94	1.28	1.58	1.86	2.16	2.50	2.89	3.39	4.18	4.92
May	.84	1.11	1.53	1.89	2.24	2.61	3.01	3.49	4.11	5.07	5.97
Jun	.73	1.02	1.49	1.90	2.31	2.74	3.23	3.82	4.58	5.80	6.94
Jul	1.86	2.15	2.54	2.86	3.15	3.43	3.73	4.08	4.50	5.14	5.71
Aug	1.52	1.87	2.38	2.80	3.20	3.60	4.04	4.54	5.19	6.17	7.07
Sep	1.22	1.54	2.00	2.40	2.77	3.15	3.57	4.05	4.67	5.62	6.50
Oct	.92	1.20	1.61	1.97	2.31	2.67	3.06	3.52	4.11	5.03	5.88
Nov	.96	1.22	1.60	1.92	2.23	2.54	2.88	3.28	3.79	4.58	5.30
Dec	.09	.23	.46	.69	.92	1.18	1.49	1.86	2.37	3.21	4.03
Ann	21.09	22.85	25.11	26.84	28.37	29.85	31.39	33.09	35.16	38.17	40.77

\+ 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: 1926-2001
(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	5.3	-99.9	6	4
Feb	2.5	-99.9	10	7
Mar	1.5	-99.9	5	2
Apr	1.1	.0	#	#
May	.1	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.4	.0	#	0
Nov	2.4	2.0	1	#
Dec	.7	-99.9	3	2
Ann	14.0	-9.9	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	8.0	1998	23	21.0	1998	30	1987	31	16	1987
Feb	6.0	1971	13	10.0	1973	39	1971	23	32	1971
Mar	6.0	1975	8	6.0	1975	50	1993	15	30	1993
Apr	6.0	1983	19	6.0	1983	17	1975	7	4	1975
May	3.0	1996	12	3.0	1996	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	4.0	1979	9	4.0	1979	4	1979	9	#	1979
Nov	6.5	1972	20	6.5	1972	14	1971	30	2	1997
Dec	2.0	1987	16	2.0	1987	20	1978	25	11	1977
Ann	8.0	Jan 1998	23	21.0	Jan 1998	50	Mar 1993	15	32	Feb 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.7	.7	.2	.2	.0
Feb	1.0	1.0	.3	.1	.0
Mar	.3	.2	.1	.1	.0
Apr	.4	.4	.1	.1	.0
May	.1	.1	.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	.1	.1	.1	.0	.0
Nov	.4	.3	.1	.1	.0
Dec	.4	.2	.0	.0	.0
Ann	3.4	3.0	1.0	.6	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	.3	.1	.0	.0
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	.1	@	.0	.0
Nov	1.1	.2	.2	.0
Dec	-9.9	-9.9	-9.9	-9.9
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	6/10	6/05	6/01	5/29	5/25	5/22	5/19	5/15	5/09
32	5/29	5/24	5/20	5/17	5/13	5/10	5/07	5/03	4/28
28	5/08	5/04	5/01	4/28	4/26	4/23	4/21	4/18	4/14
24	4/26	4/22	4/20	4/18	4/16	4/14	4/12	4/09	4/06
20	4/18	4/13	4/10	4/08	4/05	4/03	3/31	3/28	3/24
16	4/10	4/06	4/03	4/01	3/30	3/27	3/25	3/22	3/19

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	9/03	9/07	9/10	9/13	9/15	9/17	9/20	9/23	9/27
32	9/14	9/19	9/22	9/25	9/28	9/30	10/03	10/07	10/11
28	9/25	9/29	10/01	10/04	10/06	10/08	10/11	10/13	10/17
24	10/02	10/08	10/12	10/16	10/19	10/23	10/26	10/31	11/05
20	10/19	10/24	10/28	10/31	11/03	11/06	11/10	11/14	11/19
16	11/02	11/06	11/10	11/13	11/15	11/18	11/20	11/24	11/28

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	133	126	120	116	112	107	103	98	90
32	155	148	144	140	137	133	129	125	119
28	180	174	169	166	163	159	156	151	145
24	204	198	193	189	186	182	178	173	167
20	231	224	219	215	212	208	204	199	193
16	247	241	237	233	230	226	223	219	213

***** 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	1518	1300	1100	657	292	76	10	39	218	558	871	1299	7938
60	1363	1160	945	508	171	22	0	6	110	407	721	1144	6557
57	1270	1076	852	421	114	8	0	1	65	321	631	1051	5810
55	1208	1020	790	365	83	4	0	0	43	267	571	989	5340
50	1053	880	637	238	32	0	0	0	11	152	421	834	4258
32	519	404	188	14	0	0	0	0	0	1	48	353	1527

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	24	28	111	347	743	980	1154	1083	787	466	167	76	5966
55	0	0	0	8	114	294	441	370	140	20	0	0	1387
57	0	0	0	4	82	238	379	310	101	11	0	0	1125
60	0	0	0	1	46	162	286	221	56	4	0	0	776
65	0	0	0	0	13	66	141	99	14	0	0	0	333
70	0	0	0	0	2	15	43	26	1	0	0	0	87

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	2	35	169	512	756	916	851	560	249	62	7	1	3	38	207	719	1475	2391	3242	3802	4051	4113	4120
45	0	0	9	91	362	607	761	696	411	141	29	0	0	0	9	100	462	1069	1830	2526	2937	3078	3107	3107
50	0	0	4	40	227	457	606	541	274	64	8	0	0	0	4	44	271	728	1334	1875	2149	2213	2221	2221
55	0	0	0	15	120	309	451	387	159	24	2	0	0	0	0	15	135	444	895	1282	1441	1465	1467	1467
60	0	0	0	7	52	177	299	241	75	3	0	0	0	0	0	7	59	236	535	776	851	854	854	854
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	19	105	312	474	606	549	334	134	31	2	0	0	19	124	436	910	1516	2065	2399	2533	2564	2566

(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