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: BIG MOOSE 3 SE, NY **COOP ID: 300668**

Climate Division: NY 3 **NWS Call Sign:** **Elevation: 1,760 Feet** **Lat: 43˚48N** **Lon: 74˚52W**

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	.0	.0	.0	59	1995	15	.0	0	-45	1994	16	.0	0	0	0	.0	.0	.8	20.8	30.3	11.9
Feb	.0	.0	.0	59	2000	27	.0	0	-38	1995	7	.0	0	0	0	.0	.0	1.3	16.5	27.2	9.6
Mar	.0	.0	.0	78	1998	31	.0	0	-27	1993	15	.0	0	0	0	.0	.0	6.1	7.3	30.8	2.5
Apr	.0	.0	.0	78	1980	23	.0	0	-1	1995	6	.0	0	0	0	.0	.0	18.9	.4	24.9	.1
May	.0	.0	.0	90+	1980	24	.0	0	17	1995	7	.0	0	0	0	.0	.1	30.2	.0	9.6	.0
Jun	.0	.0	.0	92+	1999	26	.0	0	25	1996	1	.0	0	0	0	.0	.4	30.0	.0	.5	.0
Jul	.0	.0	.0	91	1997	15	.0	0	32	1992	2	.0	0	0	0	.0	1.3	31.0	.0	@	.0
Aug	.0	.0	.0	89+	1995	17	.0	0	30+	1995	28	.0	0	0	0	.0	.6	31.0	.0	.2	.0
Sep	.0	.0	.0	91	1999	4	.0	0	18	2000	29	.0	0	0	0	.0	.1	29.8	.0	3.6	.0
Oct	.0	.0	.0	80	1995	13	.0	0	12	1994	12	.0	0	0	0	.0	.0	24.4	.0	27.4	.0
Nov	.0	.0	.0	69	2001	4	.0	0	-10+	2000	24	.0	0	0	0	.0	.0	8.4	3.6	23.0	.4
Dec	.0	.0	.0	60+	2001	6	.0	0	-38	1993	27	.0	0	0	0	.0	.0	1.6	14.8	29.4	6.8
Ann	.0	.0	.0	92+	Jun 1999	26	-99.9	0	-45	Jan 1994	16	99.9	0	0	0	.0	2.5	213.5	63.4	206.9	31.3

\+ 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

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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	4.30	4.22	2.95	1998	8	8.44	1998	.93	1981
Feb	3.00	2.95	2.12	1951	7	6.21	1971	1.04	1978
Mar	3.68	3.28	1.79	1971	4	6.75	1971	1.48	1995
Apr	3.91	4.01	1.86	1970	2	6.50	2000	1.33	1999
May	4.12	3.82	2.10	1957	20	8.37	2000	1.24	1980
Jun	4.39	4.19	2.39	1982	2	10.11	1972	1.24	1995
Jul	4.88	4.93	2.50	1952	10	9.07	1992	1.51	1979
Aug	4.76	4.70	3.90	1998	24	9.78	1998	1.73	1996
Sep	4.89	4.81	2.53	1961	2	8.34	1975	2.57	1983
Oct	4.27	3.92	3.25	1995	21	9.06	1995	1.08	1994
Nov	4.68	4.39	2.10	1996	8	7.48	1989	2.46	1981
Dec	4.48	3.89	4.55	1984	29	8.86	1984	1.76	1989
Ann	51.36	49.79	4.55	Dec 1984	29	10.11	Jun 1972	.93	Jan 1981

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.6	11.4	2.5	.3
Feb	14.9	8.8	1.4	.2
Mar	15.0	9.4	2.2	.5
Apr	14.0	9.8	2.5	.6
May	14.5	9.5	2.8	.5
Jun	14.8	10.2	2.6	.7
Jul	13.1	9.2	3.4	1.2
Aug	13.4	9.0	3.3	1.2
Sep	13.6	9.4	3.4	1.2
Oct	15.0	9.4	2.6	.9
Nov	16.4	11.1	3.0	.7
Dec	18.2	11.6	2.3	.6
Ann	182.5	118.8	32.0	8.6

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	1.65	2.05	2.62	3.09	3.54	4.00	4.50	5.08	5.81	6.94	7.96
Feb	1.11	1.39	1.80	2.13	2.46	2.78	3.14	3.56	4.09	4.90	5.65
Mar	1.42	1.76	2.25	2.65	3.03	3.43	3.85	4.34	4.96	5.91	6.78
Apr	1.65	2.00	2.50	2.91	3.29	3.68	4.09	4.57	5.18	6.10	6.94
May	1.58	1.97	2.51	2.97	3.40	3.84	4.31	4.86	5.56	6.64	7.62
Jun	1.58	1.99	2.59	3.09	3.57	4.06	4.59	5.21	6.00	7.22	8.34
Jul	2.32	2.74	3.32	3.79	4.22	4.66	5.12	5.65	6.31	7.31	8.21
Aug	2.38	2.78	3.32	3.76	4.16	4.56	4.99	5.47	6.07	6.98	7.80
Sep	2.94	3.30	3.76	4.12	4.45	4.77	5.11	5.49	5.95	6.64	7.24
Oct	1.62	2.02	2.59	3.06	3.51	3.97	4.47	5.04	5.78	6.90	7.93
Nov	2.44	2.82	3.34	3.75	4.13	4.51	4.91	5.36	5.93	6.77	7.52
Dec	1.74	2.16	2.75	3.24	3.71	4.18	4.69	5.28	6.03	7.19	8.24
Ann	41.03	43.12	45.75	47.71	49.43	51.07	52.75	54.59	56.79	59.94	62.63

+ 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)

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	50.5	47.8	13	12	18.0	1971	6	97.0	1978	37	1994	22	28	1994	15.2	14.5	6.4	3.0	.8	27.6	26.2	24.1	18.3
Feb	33.7	27.5	17	16	19.0	1972	4	84.0	1975	38	1994	25	30	1994	11.2	10.7	4.9	1.9	.4	26.6	25.9	25.5	22.4
Mar	28.6	25.5	12	11	29.0	1971	4	102.0	1971	42+	1994	19	36	1994	8.3	8.0	3.6	1.5	.4	26.8	23.3	21.0	15.1
Apr	8.6	7.0	1	#	20.0	1979	7	39.0	1979	31	1994	1	13	1994	2.9	2.9	1.1	.5	.1	4.8	3.1	2.3	1.4
May	.1	.0	#	0	2.0	1974	7	2.0+	1996	2	1996	12	#+	1996	.1	.1	.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	#	1992	30	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.4	.0	#	0	8.0	1976	22	13.0	1988	5	1997	24	1	1997	.6	.5	.2	.1	.0	.3	.2	.1	.0
Nov	18.3	16.5	2	1	14.0	1977	18	36.0+	1977	20	1989	30	6	1989	6.4	6.3	2.4	.6	.2	9.8	4.9	2.8	.3
Dec	39.6	36.5	8	6	20.0	1978	17	91.5	1978	26	1989	28	21	1989	12.7	12.1	4.9	2.3	.5	23.8	20.2	15.9	6.8
Ann	180.8	160.8	N/A	N/A	29.0	Mar 1971	4	102.0	Mar 1971	42+	Mar 1994	19	36	Mar 1994	57.4	55.1	23.5	9.9	2.4	119.7	103.8	91.7	64.3

+ 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	7/03	6/26	6/21	6/17	6/13	6/09	6/05	5/31	5/24
32	6/11	6/07	6/04	6/02	5/30	5/28	5/25	5/22	5/18
28	5/29	5/23	5/19	5/15	5/12	5/08	5/05	5/01	4/25
24	5/18	5/12	5/09	5/05	5/02	4/29	4/26	4/23	4/17
20	5/05	4/30	4/27	4/24	4/22	4/20	4/17	4/14	4/09
16	4/25	4/21	4/18	4/15	4/13	4/11	4/08	4/05	4/01

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	8/09	8/16	8/21	8/25	8/29	9/02	9/06	9/11	9/18
32	8/30	9/05	9/09	9/13	9/16	9/19	9/23	9/27	10/03
28	9/15	9/18	9/21	9/23	9/25	9/27	9/29	10/02	10/05
24	9/29	10/05	10/08	10/12	10/15	10/18	10/21	10/25	10/31
20	10/10	10/17	10/23	10/28	11/01	11/06	11/10	11/16	11/23
16	10/20	10/27	11/01	11/05	11/09	11/13	11/17	11/22	11/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	109	98	90	83	76	70	63	55	43
32	131	123	117	113	108	103	99	93	85
28	159	151	145	140	135	131	126	120	112
24	191	182	176	170	165	159	154	147	138
20	222	212	205	198	192	186	180	173	163
16	235	226	220	215	209	204	199	192	183

***** 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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	1	6	101	376	689	851	716	517	136	54	6	1	2	8	109	485	1174	2025	2741	3258	3394	3448	3454
45	0	0	3	47	235	539	696	561	371	51	24	1	0	0	3	50	285	824	1520	2081	2452	2503	2527	2528
50	0	0	0	18	121	390	541	406	237	9	7	0	0	0	0	18	139	529	1070	1476	1713	1722	1729	1729
55	0	0	0	5	44	250	386	255	126	0	1	0	0	0	0	5	49	299	685	940	1066	1066	1067	1067
60	0	0	0	0	11	130	237	118	54	0	0	0	0	0	0	0	11	141	378	496	550	550	550	550
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	28	104	285	436	555	457	323	142	31	3	0	0	28	132	417	853	1408	1865	2188	2330	2361	2364

(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