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: BATAVIA, NY **COOP ID: 300443**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 913 Feet** **Lat: 43˚02N** **Lon: 78˚10W**

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	31.8	16.0	23.9	72	1950	25	33.8	1990	-24	1957	15	13.0	1977	1274	0	.0	.0	2.0	16.1	28.8	3.0
Feb	34.3	16.9	25.6	72	1997	21	34.2	1984	-25	1979	18	13.6	1979	1104	0	.0	.0	3.3	13.7	25.7	2.6
Mar	44.3	25.4	34.9	81	1990	15	43.4	1973	-15	1980	2	25.7	1984	935	0	.0	.0	9.4	5.8	23.7	.6
Apr	56.5	36.0	46.3	92	1990	29	51.0	1985	6	1982	7	39.3	1975	563	0	.0	.1	21.0	.3	11.8	.0
May	68.9	47.1	58.0	92+	1977	22	64.0	1998	24	1978	1	51.2	1997	247	30	.0	.1	30.4	.0	1.3	.0
Jun	77.7	56.3	67.0	95	1988	26	70.2+	1999	32	1983	9	62.8	1982	45	105	.0	.6	30.0	.0	@	.0
Jul	81.5	61.1	71.3	96+	1988	10	74.8	1999	42+	1968	30	66.3	1992	8	203	.0	2.2	31.0	.0	.0	.0
Aug	79.5	59.4	69.5	96+	1948	28	72.7	1973	33	1982	29	64.9	1982	17	155	.0	.9	31.0	.0	.0	.0
Sep	72.2	52.6	62.4	96	1959	9	66.7	1971	28	1957	28	59.2	1975	106	29	.0	.2	30.0	.0	.3	.0
Oct	61.3	41.8	51.6	88	1951	5	59.4	1971	19	1965	29	46.6	1988	420	4	.0	.0	26.6	.0	5.3	.0
Nov	48.2	32.8	40.5	78	1950	1	47.6	1975	2	1971	23	34.3	1976	735	0	.0	.0	12.3	1.7	16.2	.0
Dec	36.7	22.0	29.4	73+	1982	4	38.0	1982	-18	1980	25	15.9	1989	1105	0	.0	.0	3.6	10.3	26.2	1.0
Ann	57.7	39.0	48.4	96+	Jul 1988	10	74.8	Jul 1999	-25	Feb 1979	18	13.0	Jan 1977	6559	526	.0	4.1	230.6	47.9	139.3	7.2

\+ 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: 1948-2001

(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	1.96	1.50	2.25	1998	8	7.74	1999	.33	1988
Feb	1.86	1.64	3.40	1981	19	6.26	1981	.19	1987
Mar	2.32	2.08	1.85	1991	4	4.70	1976	.84	1981
Apr	3.09	3.06	4.10	1982	5	5.31	1982	1.08	1985
May	3.34	3.18	2.90	1979	13	6.11	1989	.81	1977
Jun	4.00	3.81	3.21	1974	21	8.01	1980	1.04	1991
Jul	3.31	3.01	2.43	1977	7	8.32	1992	.67	1989
Aug	3.51	3.27	2.58	1975	30	9.50	1977	.58	1996
Sep	4.01	3.51	4.60	1979	14	9.66	1977	1.68	1973
Oct	2.95	2.99	2.43	1955	14	5.73	1995	.72	1994
Nov	2.81	2.71	2.00	1997	22	6.43	1985	.55	1976
Dec	2.42	2.26	2.00	1995	21	4.95	1977	.77	1989
Ann	35.58	34.57	4.60	Sep 1979	14	9.66	Sep 1977	.19	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.4	5.5	.9	.2
Feb	10.8	4.9	.7	.2
Mar	11.3	6.0	1.3	.3
Apr	12.6	7.5	1.7	.5
May	12.2	7.9	2.1	.5
Jun	11.4	7.8	2.7	.9
Jul	9.5	6.4	2.2	.7
Aug	10.7	7.2	2.4	.9
Sep	12.4	7.9	2.6	.9
Oct	12.8	7.3	1.4	.5
Nov	13.2	7.5	1.4	.4
Dec	14.1	7.3	1.1	.2
Ann	144.4	83.2	20.5	6.2

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	.37	.55	.83	1.10	1.37	1.66	1.99	2.39	2.92	3.78	4.59
Feb	.45	.63	.90	1.14	1.38	1.63	1.92	2.25	2.69	3.39	4.05
Mar	.85	1.07	1.38	1.64	1.89	2.15	2.43	2.75	3.17	3.81	4.39
Apr	1.27	1.55	1.95	2.28	2.58	2.90	3.24	3.63	4.12	4.87	5.56
May	1.13	1.45	1.91	2.30	2.68	3.06	3.48	3.98	4.61	5.59	6.50
Jun	1.23	1.61	2.17	2.66	3.13	3.62	4.15	4.79	5.60	6.87	8.05
Jul	1.13	1.44	1.90	2.28	2.66	3.04	3.46	3.94	4.57	5.53	6.43
Aug	1.13	1.47	1.96	2.38	2.78	3.20	3.66	4.19	4.88	5.96	6.95
Sep	1.67	2.03	2.55	2.97	3.37	3.77	4.20	4.70	5.34	6.30	7.18
Oct	1.04	1.32	1.72	2.06	2.39	2.72	3.09	3.51	4.05	4.89	5.67
Nov	.98	1.25	1.63	1.96	2.27	2.59	2.94	3.34	3.87	4.67	5.41
Dec	1.06	1.27	1.58	1.82	2.05	2.29	2.54	2.82	3.18	3.73	4.23
Ann	27.93	29.47	31.41	32.87	34.14	35.36	36.62	37.99	39.63	42.00	44.01

\+ 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	19.1	17.6	5	3
Feb	18.1	19.2	5	3
Mar	9.8	8.5	2	1
Apr	4.2	3.0	#	#
May	.4	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.2	.0	#	0
Nov	6.8	4.1	#	#
Dec	16.4	13.9	3	2
Ann	75.0	66.3	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	10.5	1978	18	56.0	1978	47	1978	23	28	1977
Feb	20.0	1978	7	33.5	1972	52	1977	3	31	1978
Mar	15.0	1992	11	34.0	1993	33	1984	3	11	1978
Apr	14.0	1975	4	28.0	1975	23	1975	5	4	1975
May	9.0	1989	7	9.0	1989	6	1989	7	#+	1989
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	2.5	1993	31	2.5	1993	10	1987	11	1	1987
Nov	20.0	1983	30	28.0	1983	20	1983	30	1+	2000
Dec	10.0	1992	11	37.0	1976	27	1977	12	10	1977
Ann	20.0+	Nov 1983	30	56.0	Jan 1978	52	Feb 1977	3	31	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	10.5	7.0	2.2	.9	.1
Feb	6.9	4.7	1.7	.8	.1
Mar	4.7	3.6	1.5	.4	.1
Apr	1.6	1.2	.5	.2	.1
May	.1	.1	@	@	.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	.0
Nov	2.4	1.8	.7	.2	.1
Dec	7.9	5.8	2.1	.8	@
Ann	34.2	24.3	8.7	3.3	.5

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	17.8	10.1	6.9	3.9
Feb	17.6	11.9	8.5	3.8
Mar	7.0	3.8	1.7	.4
Apr	1.7	.9	.3	.2
May	.1	.1	@	.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	2.4	.6	.1	.1
Dec	12.8	7.1	4.3	1.5
Ann	59.4	34.5	21.8	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	6/02	5/27	5/23	5/20	5/17	5/13	5/10	5/06	5/01
32	5/17	5/12	5/09	5/06	5/04	5/01	4/29	4/25	4/21
28	4/28	4/25	4/23	4/21	4/19	4/17	4/15	4/13	4/10
24	4/20	4/16	4/13	4/10	4/08	4/05	4/03	3/31	3/26
20	4/12	4/08	4/05	4/02	3/31	3/28	3/26	3/23	3/19
16	4/04	3/31	3/28	3/26	3/24	3/22	3/19	3/17	3/13

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	9/14	9/18	9/21	9/24	9/26	9/28	10/01	10/04	10/08
32	9/25	9/30	10/04	10/07	10/10	10/13	10/16	10/20	10/25
28	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/09
24	10/19	10/25	10/29	11/01	11/05	11/08	11/11	11/15	11/21
20	11/03	11/08	11/12	11/15	11/18	11/21	11/24	11/28	12/03
16	11/14	11/19	11/23	11/26	11/29	12/02	12/05	12/09	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	151	145	140	136	132	128	124	119	112
32	178	171	167	162	159	155	150	146	139
28	208	202	197	193	189	186	182	177	171
24	235	227	220	215	210	205	200	194	185
20	252	245	240	235	231	227	223	217	210
16	268	262	257	253	250	246	242	237	231

***** 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.

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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	1274	1104	935	563	247	45	8	17	106	420	735	1105	6559
60	1119	964	780	417	142	10	0	1	33	280	585	950	5281
57	1026	880	687	333	94	3	0	0	13	208	496	857	4597
55	964	824	627	282	69	1	0	0	6	166	437	795	4171
50	809	686	484	168	26	0	0	0	1	84	300	646	3204
32	307	255	111	5	0	0	0	0	0	0	23	205	906

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	56	74	199	432	806	1050	1219	1161	913	607	278	123	6918
55	0	0	3	19	162	361	506	448	229	59	2	0	1789
57	0	0	0	11	126	303	444	386	176	40	1	0	1487
60	0	0	0	4	81	220	351	294	106	19	0	0	1075
65	0	0	0	0	30	105	203	155	29	4	0	0	526
70	0	0	0	0	8	32	88	59	3	0	0	0	190

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	11	15	81	238	557	811	973	912	669	363	122	27	11	26	107	345	902	1713	2686	3598	4267	4630	4752	4779
45	1	4	44	138	406	661	818	757	519	233	64	8	1	5	49	187	593	1254	2072	2829	3348	3581	3645	3653
50	0	0	20	77	274	511	663	602	373	136	28	3	0	0	20	97	371	882	1545	2147	2520	2656	2684	2687
55	0	0	7	39	163	365	508	448	240	63	7	0	0	0	7	46	209	574	1082	1530	1770	1833	1840	1840
60	0	0	2	15	86	230	353	295	129	27	0	0	0	0	2	17	103	333	686	981	1110	1137	1137	1137
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	11	55	145	335	525	650	605	411	203	58	8	1	12	67	212	547	1072	1722	2327	2738	2941	2999	3007

(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