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: GLOVERSVILLE, NY **COOP ID: 303319**

Climate Division: NY 6 **NWS Call Sign:** **Elevation: 810 Feet** **Lat: 43˚03N** **Lon: 74˚22W**

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	28.0	9.2	18.6	68	1950	4	29.4	1990	-29	1996	6	8.9	1994	1438	0	.0	.0	.7	19.6	29.7	7.4
Feb	31.2	10.5	20.9	62	1997	23	28.2+	1998	-26	1979	18	10.0	1979	1236	0	.0	.0	1.3	14.9	26.7	6.0
Mar	40.9	20.8	30.9	83	1998	31	38.5	1973	-14	1980	2	24.7	1984	1059	0	.0	.0	6.6	5.9	26.7	1.3
Apr	54.7	32.8	43.8	90	1962	28	48.1	1987	5	1965	1	38.6+	1975	638	0	.0	.0	20.1	.3	15.0	.0
May	67.7	44.3	56.0	90+	1979	10	61.0	1998	24	1966	10	50.5	1997	293	14	.0	.1	30.1	.0	1.8	.0
Jun	75.6	53.6	64.6	94+	1999	28	68.0	1976	34	2001	1	60.5	1985	70	57	.0	.7	30.0	.0	.0	.0
Jul	79.9	58.2	69.1	98	1953	18	72.1	1988	40	1963	9	64.5	2000	13	139	.0	1.5	31.0	.0	.0	.0
Aug	78.0	56.5	67.3	96	1948	26	70.6	1973	34	1965	30	64.6	1992	29	99	.0	.7	31.0	.0	.0	.0
Sep	69.7	48.0	58.9	99	1953	3	62.9+	1999	25	1963	24	56.4	1995	193	9	.0	.1	30.0	.0	.8	.0
Oct	58.4	36.3	47.4	87+	1963	7	54.0	1971	17	1972	20	43.6	1974	548	0	.0	.0	25.4	.0	10.0	.0
Nov	44.6	28.0	36.3	77	1950	1	40.7	1999	0	1951	28	31.2	1976	861	0	.0	.0	9.2	2.5	20.4	.0
Dec	33.1	16.8	25.0	66	2001	7	31.1	1998	-23	1980	25	10.0	1989	1242	0	.0	.0	1.6	13.1	28.9	2.8
Ann	55.2	34.6	44.9	99	Sep 1953	3	72.1	Jul 1988	-29	Jan 1996	6	8.9	Jan 1994	7620	318	.0	3.1	217.0	56.3	160.0	17.5

\+ 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	3.30	3.05	2.00	2001	16	7.11	1979	.88	1981
Feb	2.71	2.61	2.42	1990	16	5.05	1990	.20	1987
Mar	3.61	3.42	2.76	1977	14	7.25	1977	.88	1981
Apr	3.75	3.28	2.05	1968	25	7.71	2000	1.33	1999
May	4.05	3.55	2.31	1952	12	9.11	1990	1.09	1993
Jun	4.21	3.90	2.88	1977	26	9.16	1972	1.25	1979
Jul	4.16	3.81	2.40	2000	15	9.44	2000	.88	1982
Aug	4.24	4.07	3.30	2000	12	8.20	2000	1.47	1973
Sep	4.03	3.92	2.94	1999	17	9.01	1977	1.52	2000
Oct	3.64	3.32	2.85	1995	22	9.64	1995	.57	1994
Nov	3.63	3.61	2.29	1954	3	10.27	1972	.94	2000
Dec	3.41	3.30	2.79	1948	31	8.00	1973	1.11	1979
Ann	44.74	43.10	3.30	Aug 2000	12	10.27	Nov 1972	.20	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.9	7.4	2.1	.6
Feb	10.8	6.4	1.8	.4
Mar	11.7	7.1	2.5	.8
Apr	11.4	7.6	2.6	.8
May	12.7	7.9	3.0	.9
Jun	12.0	8.0	3.1	.9
Jul	10.9	7.3	2.8	1.2
Aug	10.7	7.2	3.1	1.0
Sep	11.1	7.5	2.9	1.0
Oct	11.6	7.2	2.2	.8
Nov	12.0	7.8	2.4	.7
Dec	12.9	7.7	2.2	.5
Ann	141.7	89.1	30.7	9.6

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	1.19	1.50	1.95	2.33	2.69	3.05	3.45	3.92	4.51	5.43	6.26
Feb	.69	.94	1.34	1.69	2.03	2.39	2.80	3.27	3.90	4.89	5.82
Mar	1.47	1.80	2.27	2.65	3.02	3.38	3.78	4.24	4.82	5.71	6.52
Apr	1.42	1.77	2.27	2.69	3.09	3.49	3.93	4.43	5.08	6.07	6.97
May	1.26	1.65	2.22	2.71	3.18	3.67	4.22	4.85	5.67	6.94	8.12
Jun	1.37	1.77	2.36	2.86	3.34	3.84	4.38	5.02	5.84	7.12	8.30
Jul	1.24	1.63	2.23	2.74	3.23	3.75	4.32	4.99	5.85	7.20	8.46
Aug	1.82	2.20	2.74	3.18	3.59	4.00	4.45	4.96	5.61	6.59	7.48
Sep	1.57	1.95	2.48	2.92	3.34	3.76	4.22	4.75	5.43	6.47	7.41
Oct	1.05	1.39	1.91	2.37	2.81	3.27	3.78	4.38	5.16	6.38	7.51
Nov	1.42	1.76	2.24	2.63	3.01	3.39	3.80	4.28	4.88	5.81	6.65
Dec	1.22	1.54	2.00	2.39	2.77	3.15	3.56	4.04	4.66	5.61	6.49
Ann	33.29	35.55	38.42	40.58	42.49	44.33	46.22	48.30	50.82	54.45	57.57

\+ 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

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(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	19.9	19.2	10	8	18.5	2000	31	34.9	1996	34	1994	31	23	1994	10.6	6.0	2.3	1.2	.3	26.2	25.2	22.5	16.2
Feb	15.1	12.7	14	12	13.0	1971	8	36.5	1993	50	1994	19	39	1994	8.3	5.1	1.7	.8	.1	27.0	25.7	23.4	17.8
Mar	14.4	11.6	8	6	21.5	1994	4	35.3	1994	61	1994	4	38	1994	6.1	3.6	1.6	.8	.1	20.2	17.2	15.0	9.3
Apr	3.2	1.4	1	#	9.2	1974	9	14.6	1979	14	1982	7	5	1982	1.5	1.0	.3	.2	.0	3.8	2.5	1.6	.5
May	.0	.0	#	0	.5	1976	19	.5	1976	1	1976	19	#+	1977	@	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	#	0	1.0	1997	23	1.0	1997	1+	1997	23	#+	1997	.1	@	.0	.0	.0	.1	.0	.0	.0
Nov	5.0	3.5	1	#	9.0	1971	26	16.8	1971	14	1971	27	4	1997	3.1	1.7	.5	.2	.0	4.8	2.3	1.1	.2
Dec	17.8	19.4	4	4	12.0	1978	25	30.7	1995	20+	1978	26	12	1977	8.2	5.1	2.0	1.0	.1	21.4	16.1	10.6	3.7
Ann	75.4	67.8	N/A	N/A	21.5	Mar 1994	4	36.5	Feb 1993	61	Mar 1994	4	39	Feb 1994	37.9	22.5	8.4	4.2	.6	103.5	89.0	74.2	47.7

+ 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	6/03	5/29	5/26	5/23	5/21	5/18	5/15	5/12	5/08
32	5/20	5/16	5/13	5/11	5/08	5/06	5/03	5/01	4/26
28	5/07	5/03	4/30	4/28	4/26	4/23	4/21	4/18	4/14
24	4/23	4/19	4/17	4/14	4/12	4/10	4/08	4/05	4/01
20	4/15	4/11	4/08	4/05	4/03	3/31	3/28	3/25	3/21
16	4/09	4/04	4/01	3/29	3/27	3/24	3/21	3/18	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	9/11	9/15	9/17	9/20	9/22	9/24	9/26	9/29	10/03
32	9/21	9/25	9/28	10/01	10/03	10/05	10/08	10/11	10/15
28	9/30	10/05	10/09	10/12	10/15	10/18	10/22	10/25	10/31
24	10/15	10/19	10/22	10/25	10/28	10/30	11/02	11/05	11/09
20	10/28	11/03	11/06	11/10	11/13	11/16	11/19	11/23	11/28
16	11/12	11/16	11/19	11/22	11/24	11/27	11/29	12/02	12/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	138	133	130	126	123	120	117	114	108
32	160	156	152	150	147	145	142	139	134
28	190	184	179	176	172	168	165	160	154
24	215	209	205	201	198	194	191	186	180
20	244	237	232	227	223	219	215	210	203
16	261	254	250	246	242	238	234	230	223

***** 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	1438	1236	1059	638	293	70	13	29	193	548	861	1242	7620
60	1283	1096	904	489	174	18	0	3	85	397	711	1087	6247
57	1190	1012	811	402	117	6	0	0	45	311	621	994	5509
55	1128	956	749	345	87	3	0	0	27	257	561	932	5045
50	973	816	595	218	34	0	0	0	5	144	412	777	3974
32	444	336	141	7	0	0	0	0	0	1	42	284	1255

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	28	24	104	359	744	978	1149	1094	805	476	172	66	5999
55	0	0	0	8	118	290	436	381	142	19	0	0	1394
57	0	0	0	4	87	233	374	319	100	11	0	0	1128
60	0	0	0	1	50	155	281	228	51	4	0	0	770
65	0	0	0	0	14	57	139	99	9	0	0	0	318
70	0	0	0	0	2	10	45	25	0	0	0	0	82

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	0	1	35	181	522	753	914	861	594	272	67	8	0	1	36	217	739	1492	2406	3267	3861	4133	4200	4208
45	0	0	11	98	374	603	759	706	445	155	26	2	0	0	11	109	483	1086	1845	2551	2996	3151	3177	3179
50	0	0	4	47	238	454	604	551	301	75	7	0	0	0	4	51	289	743	1347	1898	2199	2274	2281	2281
55	0	0	0	19	131	309	450	396	177	27	2	0	0	0	0	19	150	459	909	1305	1482	1509	1511	1511
60	0	0	0	3	58	182	295	249	89	4	0	0	0	0	0	3	61	243	538	787	876	880	880	880
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	26	122	316	476	602	555	352	162	37	2	0	0	26	148	464	940	1542	2097	2449	2611	2648	2650

(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