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: GOUVERNEUR 3 NW, NY **COOP ID: 303346**

Climate Division: NY 8 **NWS Call Sign:** **Elevation: 420 Feet** **Lat: 44˚21N** **Lon: 75˚31W**

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	25.5	3.6	14.6	65	1995	16	27.5	1990	-45	1981	4	.5	1994	1565	0	.0	.0	1.0	19.6	29.9	11.6
Feb	28.3	5.1	16.7	64	1981	22	29.3	1981	-37+	1993	7	3.8	1979	1354	0	.0	.0	1.4	16.3	26.5	9.5
Mar	39.2	17.2	28.2	81+	1990	16	38.4	1973	-28	1950	3	18.2	1984	1140	0	.0	.0	6.9	7.4	26.3	3.5
Apr	52.9	31.2	42.1	87+	1990	28	48.6	1987	-2+	1972	7	35.3	1972	688	0	.0	.0	19.4	.5	16.5	@
May	65.8	41.9	53.9	90+	1978	30	59.2	1975	20	1974	2	47.6	1997	351	6	.0	.1	30.2	.0	3.2	.0
Jun	74.8	51.8	63.3	96	1994	18	68.3	1995	29+	1986	3	58.4	1985	109	57	.0	.4	30.0	.0	.2	.0
Jul	79.6	56.2	67.9	96	1949	3	72.2	1995	36	1992	2	63.8	1992	29	118	.0	1.6	31.0	.0	.0	.0
Aug	77.4	54.0	65.7	98	1988	3	71.4	1973	30	1957	28	60.8	1982	61	82	.0	1.0	31.0	.0	@	.0
Sep	68.7	45.1	56.9	94	1999	5	62.8	1999	22	1991	30	53.7	1978	252	9	.0	.3	29.9	.0	2.3	.0
Oct	57.2	34.7	46.0	84	1951	3	53.8	1971	14+	1974	19	40.8	1981	590	0	.0	.0	24.9	.0	10.9	.0
Nov	43.9	25.9	34.9	78	1975	10	43.4	1999	-12	1949	27	28.6	1996	902	0	.0	.0	9.8	3.1	20.4	.2
Dec	31.3	12.5	21.9	70	2001	6	31.6	1998	-37	1993	27	2.1	1989	1336	0	.0	.0	2.1	14.2	28.5	6.1
Ann	53.7	31.6	42.7	98	Aug 1988	3	72.2	Jul 1995	-45	Jan 1981	4	.5	Jan 1994	8377	272	.0	3.4	217.6	61.1	164.7	30.9

\+ 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	2.53	2.40	1.57	1978	9	5.76	1998	.46	1981
Feb	2.03	1.92	1.77	1954	16	5.38	1971	.25	1978
Mar	2.52	2.67	1.68	1991	4	4.07	1999	.60	1996
Apr	3.10	2.72	1.95	2000	9	5.97+	1993	.27	1999
May	3.15	2.73	1.92	1953	15	7.18	1976	.36	1980
Jun	3.18	2.80	2.95	1972	22	7.48	1972	.82	1988
Jul	3.17	2.66	3.29	1951	4	5.36	1998	.98	1978
Aug	3.79	3.89	2.62	1964	23	7.15	1977	1.62	1973
Sep	4.16	3.82	4.06	1975	26	7.30	1975	1.75	1984
Oct	3.32	3.38	2.51	1952	2	6.81	1995	.69	1994
Nov	3.63	3.80	2.92	1950	4	6.08	1982	1.27	1976
Dec	2.89	2.54	1.73	1954	15	7.54	1973	.67	1989
Ann	37.47	37.66	4.06	Sep 1975	26	7.54	Dec 1973	.25	Feb 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.5	6.8	1.3	.2
Feb	11.1	5.4	1.2	.2
Mar	12.4	7.0	1.3	.2
Apr	11.9	7.5	1.9	.3
May	12.5	7.7	2.0	.4
Jun	11.3	6.9	2.1	.4
Jul	10.5	6.9	2.2	.5
Aug	10.8	7.0	2.4	.9
Sep	12.3	8.2	2.4	.8
Oct	12.3	7.6	2.0	.6
Nov	14.9	9.0	2.3	.5
Dec	16.0	7.3	1.4	.4
Ann	151.5	87.3	22.5	5.4

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	.74	.98	1.34	1.65	1.96	2.27	2.62	3.04	3.57	4.40	5.18
Feb	.50	.69	.99	1.25	1.51	1.78	2.09	2.45	2.93	3.68	4.39
Mar	.94	1.17	1.51	1.79	2.06	2.34	2.64	2.99	3.43	4.11	4.74
Apr	.91	1.20	1.64	2.02	2.40	2.79	3.21	3.72	4.37	5.40	6.35
May	1.00	1.30	1.74	2.12	2.49	2.87	3.28	3.77	4.40	5.38	6.29
Jun	1.07	1.37	1.81	2.18	2.54	2.91	3.32	3.79	4.40	5.34	6.21
Jul	1.32	1.60	2.01	2.35	2.66	2.98	3.32	3.72	4.22	4.98	5.67
Aug	1.62	1.97	2.45	2.84	3.21	3.58	3.98	4.44	5.02	5.90	6.70
Sep	1.94	2.30	2.80	3.21	3.58	3.96	4.36	4.82	5.40	6.27	7.05
Oct	1.23	1.55	1.99	2.36	2.72	3.08	3.47	3.93	4.51	5.41	6.23
Nov	1.72	2.03	2.46	2.81	3.13	3.46	3.80	4.20	4.69	5.44	6.11
Dec	.84	1.12	1.53	1.89	2.24	2.60	3.00	3.47	4.08	5.04	5.93
Ann	30.31	31.77	33.59	34.95	36.14	37.28	38.44	39.71	41.23	43.40	45.24

\+ 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	18.4	17.0	7	7	20.0	1995	4	40.5	1995	30	1999	16	22	1994	10.9	7.6	2.6	.9	.2	25.5	20.7	16.2	8.8
Feb	17.3	13.8	9	8	17.0	1972	4	47.3	1972	38	1971	24	27	1971	7.4	5.3	2.0	1.1	.1	23.5	18.8	15.5	9.1
Mar	13.5	13.5	6	4	18.0	1993	14	31.1	1974	42	1971	5	29	1971	6.2	5.0	1.9	.8	.1	16.6	12.6	10.3	5.4
Apr	3.6	2.3	1	#	9.0	1975	4	14.0	1975	19	1971	1	5	1971	2.1	1.5	.5	.2	.0	3.0	2.0	1.3	.4
May	.1	.0	#	0	2.0	1976	19	2.0	1976	1	1976	19	#+	1996	.1	@	.0	.0	.0	@	.0	.0	.0
Jun	#	.0	0	0	#	1980	10	#	1980	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	.5	.0	#	0	5.0	1988	22	8.0	1988	4	1988	23	#+	2000	.3	.1	.1	@	.0	.1	.1	.0	.0
Nov	8.2	8.0	1	1	8.0	1986	21	24.0	1995	12	1995	19	4	1995	3.9	3.0	1.0	.3	.0	5.5	2.5	1.2	.1
Dec	18.3	16.6	4	3	13.0	1977	6	49.0	1977	20	1973	24	11	1985	9.6	6.4	2.1	.9	.2	19.2	13.0	8.0	3.6
Ann	79.9	71.2	N/A	N/A	20.0	Jan 1995	4	49.0	Dec 1977	42	Mar 1971	5	29	Mar 1971	40.5	28.9	10.2	4.2	.6	93.4	69.7	52.5	27.4

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

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	8/23	8/28	9/02	9/05	9/08	9/12	9/15	9/20	9/25
32	9/07	9/11	9/15	9/18	9/21	9/23	9/26	9/30	10/04
28	9/20	9/25	9/28	10/01	10/04	10/06	10/09	10/12	10/17
24	9/29	10/05	10/09	10/13	10/16	10/20	10/24	10/28	11/03
20	10/13	10/19	10/23	10/26	10/30	11/02	11/05	11/09	11/15
16	10/21	10/27	10/31	11/04	11/07	11/11	11/14	11/18	11/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	122	113	106	101	96	90	85	78	69
32	141	135	131	127	123	119	116	111	105
28	167	161	157	153	150	147	143	139	133
24	202	194	188	182	178	173	167	161	153
20	223	215	210	205	201	196	191	186	178
16	243	236	231	226	222	217	213	208	200

***** 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	1565	1354	1140	688	351	109	29	61	252	590	902	1336	8377
60	1410	1214	985	539	217	41	4	14	134	439	752	1181	6930
57	1317	1130	892	451	151	18	0	4	82	352	662	1088	6147
55	1255	1074	830	394	114	10	0	1	56	297	602	1026	5659
50	1100	934	680	263	47	1	0	0	17	178	454	877	4551
32	571	459	232	20	0	0	0	0	0	4	73	395	1754

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	29	29	115	321	678	938	1112	1045	747	437	161	82	5694
55	0	0	0	6	79	258	399	333	113	17	0	0	1205
57	0	0	0	3	54	207	337	274	79	10	0	0	964
60	0	0	0	0	28	139	249	191	41	4	0	0	652
65	0	0	0	0	6	57	118	82	9	0	0	0	272
70	0	0	0	0	0	14	37	21	1	0	0	0	73

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	3	8	44	167	484	727	891	827	554	254	72	8	3	11	55	222	706	1433	2324	3151	3705	3959	4031	4039
45	0	0	20	91	338	577	736	672	407	147	32	3	0	0	20	111	449	1026	1762	2434	2841	2988	3020	3023
50	0	0	6	43	208	428	581	517	272	74	14	0	0	0	6	49	257	685	1266	1783	2055	2129	2143	2143
55	0	0	3	17	113	285	426	367	156	31	1	0	0	0	3	20	133	418	844	1211	1367	1398	1399	1399
60	0	0	0	7	47	161	277	226	77	5	0	0	0	0	0	7	54	215	492	718	795	800	800	800
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	35	113	304	464	590	539	345	153	39	3	0	0	35	148	452	916	1506	2045	2390	2543	2582	2585

(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