

Climatology of the United States

No. 20

1971-2000

Station: MOUNT MORRIS 2 W, NY

COOP ID: 305597

Climate Division: NY10

NWS Call Sign:

Elevation: 880 Feet

Lat: 42°44N

Lon: 77°54W

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	31.4	15.7	23.6	73	1950	25	33.9	1990	-22	1957	15	13.5	1977	1284	0	.0	.0	1.9	16.8	29.0	3.2
Feb	33.6	16.5	25.1	71	1997	22	32.9	1984	-19	1979	18	14.0	1979	1119	0	.0	.0	3.1	13.6	26.2	2.8
Mar	42.6	24.4	33.5	83+	1990	16	41.1	1973	-7	1950	4	25.6	1984	978	0	.0	.0	8.2	6.6	25.1	.4
Apr	55.1	35.0	45.1	93	1990	29	49.1	1991	10	1982	7	37.9	1975	599	0	.0	@	19.1	.7	12.7	.0
May	68.0	45.6	56.8	92+	1977	22	64.1	1991	27+	1978	1	51.2	1997	275	22	.0	.4	29.7	.0	1.3	.0
Jun	76.9	54.4	65.7	95	1953	21	69.1	1999	34+	1988	10	61.3	1985	62	80	.0	1.2	30.0	.0	.0	.0
Jul	81.2	59.1	70.2	99	1988	9	73.6	1999	41	1963	9	66.4	1992	10	169	.0	2.3	31.0	.0	.0	.0
Aug	79.2	57.3	68.3	97	2001	10	71.7	1980	36+	1982	29	64.7	1982	22	123	.0	1.2	31.0	.0	.0	.0
Sep	71.5	50.0	60.8	98	1953	3	64.6	1971	28	1991	30	57.6	1975	142	15	.0	.3	30.0	.0	.2	.0
Oct	60.0	40.1	50.1	88	1951	5	57.1	1971	20+	1988	31	45.7	1972	465	1	.0	.0	25.4	.0	6.5	.0
Nov	47.3	32.2	39.8	80	1950	2	46.3	1975	4+	1976	30	33.9	1996	757	0	.0	.0	11.7	2.1	18.0	.0
Dec	36.4	22.3	29.4	72	1982	4	37.1	1982	-15+	1980	26	16.2	1989	1106	0	.0	.0	3.3	10.9	27.3	.9
Ann	56.9	37.7	47.4	99	Jul 1988	9	73.6	Jul 1999	-22	Jan 1957	15	13.5	Jan 1977	6819	410	.0	5.4	224.4	50.7	146.3	7.3

+ 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/normal/usnormals.html

Issue Date: February 2004

(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

059-A

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: MOUNT MORRIS 2 W, NY

COOP ID: 305597

Climate Division: NY10

NWS Call Sign:

Elevation: 880 Feet Lat: 42°44N

Lon: 77°54W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.55	1.34	1.91	1998	8	4.36	1998	.50+	1986	13.2	4.4	.5	.1	.38	.52	.75	.95	1.15	1.36	1.60	1.88	2.25	2.83	3.38
Feb	1.41	1.29	2.45	1961	26	3.56	1979	.15	1987	10.6	3.9	.6	.1	.29	.42	.63	.81	1.00	1.21	1.44	1.71	2.07	2.66	3.21
Mar	1.91	1.88	1.60	1993	14	3.27	1974	.58	1981	10.3	5.3	.8	.1	.79	.97	1.21	1.41	1.60	1.79	2.00	2.24	2.54	3.00	3.42
Apr	2.45	2.40	2.02	1969	19	4.90	1987	.33	1982	12.1	5.9	1.7	.4	.71	.94	1.29	1.60	1.89	2.20	2.55	2.95	3.47	4.29	5.05
May	2.72	2.63	1.49	1957	20	5.56	1989	.58	1993	12.0	7.2	1.7	.3	.90	1.16	1.54	1.86	2.17	2.49	2.83	3.24	3.77	4.58	5.33
Jun	3.68	3.20	3.13	1982	6	9.11	1972	.96	1991	11.7	7.6	2.5	.7	.97	1.32	1.85	2.32	2.78	3.27	3.81	4.45	5.28	6.59	7.82
Jul	3.17	2.37	2.27	1977	7	11.73	1992	.88	1994	10.9	6.8	1.9	.6	.78	1.08	1.54	1.95	2.35	2.78	3.26	3.83	4.57	5.75	6.86
Aug	3.11	2.98	3.70	1983	12	7.28	1977	.82	1995	10.8	6.3	2.1	.5	1.05	1.34	1.77	2.13	2.49	2.85	3.24	3.70	4.29	5.21	6.05
Sep	3.40	3.43	2.85	1967	29	9.11	1977	1.67	1991	12.4	7.7	2.1	.8	1.50	1.80	2.23	2.57	2.90	3.22	3.57	3.97	4.47	5.24	5.93
Oct	2.54	2.22	4.25	1959	1	6.43	1995	.66	1994	12.3	6.3	1.4	.3	.71	.95	1.31	1.63	1.94	2.27	2.63	3.05	3.61	4.47	5.28
Nov	2.48	2.26	1.70	1993	28	7.66	1985	.76+	1984	12.6	6.6	1.2	.3	.74	.98	1.33	1.64	1.93	2.24	2.58	2.98	3.49	4.30	5.05
Dec	2.02	1.72	1.60	1979	25	4.45	1977	.53	1976	13.3	6.0	1.0	.2	.75	.94	1.21	1.44	1.65	1.87	2.11	2.39	2.74	3.28	3.78
Ann	30.44	29.29	4.25	Oct 1959	1	11.73	Jul 1992	.15	Feb 1987	142.2	74.0	17.5	4.4	22.73	24.25	26.19	27.64	28.93	30.17	31.44	32.84	34.53	36.97	39.07

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: MOUNT MORRIS 2 W, NY

COOP ID: 305597

Climate Division: NY10

NWS Call Sign:

Elevation: 880 Feet

Lat: 42° 44N

Lon: 77° 54W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	12.6	9.8	4	2	20.0	1978	18	48.0	1978	40	1978	21	15	1978	4.1	3.9	.9	.5	.2	-9.9	-9.9	-9.9	-9.9
Feb	10.8	9.0	4	3	23.0	1979	26	23.0	1979	29	1978	9	18	1978	3.5	3.1	1.2	.6	.2	19.7	16.4	10.5	3.4
Mar	7.6	8.0	2	1	12.0	1971	4	16.0	1971	24	1979	1	9	1993	2.2	1.8	.8	.4	.1	8.2	5.1	3.2	1.1
Apr	1.3	#	#	#	5.0	1979	10	7.0	1979	6	1994	7	1	1982	.6	.5	.1	@	.0	.9	.5	.2	.0
May	.2	.0	#	0	4.0	1989	7	4.0	1989	#	1977	10	#	1977	@	@	@	.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	#	1979	26	#+	1979	1	1988	22	#+	1988	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	4.4	4.0	1	#	13.5	1995	15	14.5	1995	14	1995	17	3	1997	1.9	1.6	.7	.2	@	3.0	2.0	.9	.2
Dec	11.9	11.5	2	2	15.0	1977	6	21.6	1975	17	1977	13	8	1977	4.1	3.6	1.3	.4	.1	16.3	8.8	4.7	.9
Ann	48.8	42.3	N/A	N/A	23.0	Feb 1979	26	48.0	Jan 1978	40	Jan 1978	21	18	Feb 1978	16.4	14.5	5.0	2.1	.6	-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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: MOUNT MORRIS 2 W, NY

COOP ID: 305597

Climate Division: NY10

NWS Call Sign:

Elevation: 880 Feet

Lat: 42° 44N

Lon: 77° 54W

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	5/28	5/24	5/21	5/18	5/15	5/12	5/08	5/02
32	5/16	5/12	5/09	5/06	5/04	5/01	4/28	4/25	4/21
28	4/30	4/27	4/24	4/22	4/20	4/18	4/16	4/14	4/10
24	4/18	4/14	4/12	4/09	4/07	4/05	4/03	3/31	3/27
20	4/10	4/06	4/03	4/01	3/29	3/27	3/25	3/22	3/18
16	4/04	3/31	3/28	3/25	3/23	3/21	3/18	3/15	3/11
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	9/17	9/20	9/23	9/25	9/28	9/30	10/02	10/05	10/08
32	9/27	10/01	10/05	10/08	10/10	10/13	10/16	10/19	10/24
28	10/12	10/16	10/20	10/23	10/25	10/28	10/31	11/03	11/08
24	10/21	10/27	11/01	11/05	11/08	11/12	11/16	11/20	11/26
20	11/04	11/10	11/14	11/18	11/21	11/24	11/27	12/02	12/07
16	11/15	11/20	11/24	11/27	11/30	12/04	12/07	12/11	12/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	150	144	139	135	132	128	125	120	114
32	176	170	166	162	159	155	152	147	141
28	206	200	195	191	187	183	179	175	168
24	240	231	225	219	214	209	204	197	189
20	255	249	244	239	236	232	228	223	216
16	273	266	260	256	252	248	243	238	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.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: MOUNT MORRIS 2 W, NY

COOP ID: 305597

Climate Division: NY10

NWS Call Sign:

Elevation: 880 Feet Lat: 42°44N Lon: 77°54W

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	1284	1119	978	599	275	62	10	22	142	465	757	1106	6819
60	1129	979	823	451	163	17	0	2	49	319	607	951	5490
57	1036	895	730	365	110	6	0	0	22	240	517	858	4779
55	974	839	668	310	81	3	0	0	11	193	458	796	4333
50	819	699	519	188	32	0	0	0	1	100	318	645	3321
32	317	258	114	5	0	0	0	0	0	0	25	198	917

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	56	63	160	396	770	1008	1182	1124	863	559	258	115	6554
55	0	0	0	11	138	321	469	411	184	39	1	0	1574
57	0	0	0	6	105	264	407	349	135	24	0	0	1290
60	0	0	0	2	65	185	314	257	73	10	0	0	906
65	0	0	0	0	22	80	169	123	15	1	0	0	410
70	0	0	0	0	5	21	64	39	1	0	0	0	130

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	7	14	62	211	531	775	943	882	626	322	104	20	7	21	83	294	825	1600	2543	3425	4051	4373	4477	4497
45	0	2	32	121	381	625	788	727	477	196	53	7	0	2	34	155	536	1161	1949	2676	3153	3349	3402	3409
50	0	0	14	64	249	478	633	572	335	110	21	2	0	0	14	78	327	805	1438	2010	2345	2455	2476	2478
55	0	0	5	34	147	334	478	418	208	47	5	0	0	0	5	39	186	520	998	1416	1624	1671	1676	1676
60	0	0	1	14	77	201	323	270	107	13	0	0	0	0	1	15	92	293	616	886	993	1006	1006	1006
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	3	10	44	125	314	490	623	572	376	179	57	8	3	13	57	182	496	986	1609	2181	2557	2736	2793	2801

(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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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