

Climatography of the United States

No. 20

1971-2000

Station: MOHONK LAKE, NY

COOP ID: 305426

Climate Division: NY 5

NWS Call Sign:

Elevation: 1,245 Feet Lat: 41°46N

Lon: 74°09W

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	31.9	17.1	24.5	65	1950	26	33.4	1990	-19+	1994	27	16.1	1994	1256	0	.0	.0	1.7	16.4	28.6	2.6
Feb	35.2	18.9	27.1	70	1985	24	34.0	1981	-13+	1979	18	16.2	1979	1063	0	.0	.0	2.3	12.1	25.4	1.3
Mar	45.0	26.8	35.9	84	1998	31	42.1	2000	-3+	1980	1	28.5	1984	902	0	.0	.0	8.7	3.7	22.8	.2
Apr	57.7	37.6	47.7	91	1976	18	51.5	1991	1+	1965	20	42.6	1972	521	0	.0	@	22.7	.1	8.5	.0
May	68.9	49.0	59.0	92	2000	9	64.5	1991	25	1961	1	54.8	1973	214	27	.0	.1	30.4	.0	.3	.0
Jun	76.2	57.8	67.0	94	1988	14	71.2	1999	37	1980	9	62.3	1972	45	105	.0	.7	30.0	.0	.0	.0
Jul	80.5	62.9	71.7	98	1995	15	77.0	1999	46+	1978	4	68.4	1992	6	214	.0	2.0	31.0	.0	.0	.0
Aug	78.3	61.6	70.0	101	2001	9	72.9	1998	42+	1965	30	66.9	1982	10	164	.0	.6	31.0	.0	.0	.0
Sep	70.4	54.2	62.3	95	1953	2	66.6	1983	32	1963	23	58.4	1975	114	33	.0	.1	30.0	.0	.0	.0
Oct	59.6	43.7	51.7	85	1963	7	56.9	1995	21	1976	27	46.9	1988	417	3	.0	.0	26.9	.0	2.6	.0
Nov	47.4	33.7	40.6	78	1950	1	46.3	1975	8	1955	29	35.4	1972	734	0	.0	.0	11.8	1.7	14.4	.0
Dec	36.3	23.1	29.7	67	1998	7	36.8	1998	-12	1955	23	16.1	1989	1095	0	.0	.0	2.9	11.1	26.4	.5
Ann	57.3	40.5	48.9	101	Aug 2001	9	77.0	Jul 1999	-19+	Jan 1994	27	16.1+	Jan 1994	6377	546	.0	3.5	229.4	45.1	129.0	4.6

+ 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

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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: MOHONK LAKE, NY

COOP ID: 305426

Climate Division: NY 5

NWS Call Sign:

Elevation: 1,245 Feet Lat: 41°46N

Lon: 74°09W

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	3.86	3.36	2.91	1979	21	11.24	1979	.54	1981	11.1	7.2	2.7	.8	.89	1.25	1.82	2.32	2.83	3.36	3.96	4.68	5.61	7.10	8.51
Feb	3.15	3.04	2.14	1958	28	6.69	1981	.24	1987	9.2	6.2	2.2	.8	.98	1.28	1.72	2.10	2.47	2.85	3.27	3.77	4.40	5.39	6.31
Mar	4.33	4.01	2.82	1951	30	8.77	1977	.42	1981	10.9	7.6	3.0	1.2	1.43	1.84	2.44	2.95	3.45	3.95	4.51	5.16	5.99	7.29	8.49
Apr	4.21	3.49	4.13	1987	4	10.52	1983	1.18	1999	11.4	7.3	2.9	1.1	1.40	1.80	2.39	2.88	3.36	3.85	4.39	5.02	5.82	7.08	8.23
May	5.32	5.08	4.16	1968	29	14.12	1989	1.62	1980	12.6	8.4	3.5	1.4	1.74	2.24	2.99	3.62	4.23	4.86	5.55	6.35	7.39	9.00	10.49
Jun	4.32	3.73	3.56	1952	1	9.30	1972	.83	1988	11.3	7.5	3.0	1.2	1.10	1.51	2.14	2.69	3.24	3.82	4.46	5.23	6.22	7.80	9.28
Jul	4.69	4.66	5.06	1996	13	10.00	1996	1.35	1983	10.6	7.3	3.2	1.5	1.42	1.86	2.53	3.10	3.66	4.24	4.88	5.63	6.60	8.11	9.52
Aug	4.30	4.38	6.35	1955	19	10.19	1971	1.25	1972	10.0	6.9	2.5	1.3	1.27	1.68	2.29	2.82	3.33	3.87	4.46	5.16	6.07	7.48	8.79
Sep	4.74	4.49	4.83	1960	12	11.17	1987	.80	1986	10.1	6.6	2.8	1.6	1.11	1.55	2.25	2.87	3.48	4.14	4.87	5.74	6.89	8.71	10.42
Oct	4.10	3.67	5.33	1955	16	11.09	1995	1.12	1982	9.2	6.1	2.7	1.2	1.17	1.55	2.14	2.65	3.15	3.67	4.25	4.93	5.81	7.19	8.47
Nov	4.11	3.90	4.55	1977	8	9.32	1972	.81	1976	10.2	6.7	2.9	1.2	1.43	1.82	2.38	2.86	3.31	3.78	4.29	4.89	5.65	6.82	7.91
Dec	3.93	3.53	4.03	1948	30	9.22	1973	.77	1988	10.5	7.0	2.6	1.0	1.02	1.39	1.96	2.47	2.96	3.48	4.06	4.74	5.64	7.05	8.37
Ann	51.06	49.49	6.35	Aug 1955	19	14.12	May 1989	.24	Feb 1987	127.1	84.8	34.0	14.3	39.62	41.91	44.80	46.97	48.87	50.70	52.57	54.62	57.09	60.63	63.66

+ 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

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No. 20 1971-2000

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151 Patton Avenue
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Station: MOHONK LAKE, NY

COOP ID: 305426

Climate Division: NY 5

NWS Call Sign:

Elevation: 1,245 Feet

Lat: 41°46N

Lon: 74°09W

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	16.6	15.0	7	6	16.2	1996	8	39.8	1996	35	1996	12	20	1996	8.1	4.7	1.9	.8	.1	22.7	18.9	15.4	7.6
Feb	13.2	11.8	9	8	16.5	1972	19	35.9	1972	33	1978	7	29	1978	6.4	3.5	1.5	.7	.2	21.6	18.8	16.6	12.2
Mar	12.4	10.9	6	2	21.6	1984	29	39.7	1984	35	1993	15	25	1994	5.0	3.0	1.3	.6	.1	13.9	11.0	8.9	5.1
Apr	3.7	1.0	1	#	15.2	1982	6	18.0	1983	15	1982	6	4	1971	1.3	.7	.4	.3	@	1.8	1.4	1.0	.5
May	.5	.0	#	0	12.2	1977	9	13.2	1977	7	1977	9	#	1977	.1	.1	@	@	@	@	@	@	.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	.2	.0	#	0	2.0	1987	4	2.0	1987	2	1987	4	#+	2000	.1	.1	.0	.0	.0	@	.0	.0	.0
Nov	4.1	2.7	#	#	17.5	1971	25	18.7	1971	17	1971	25	2	1997	1.8	1.0	.5	.2	.1	3.2	1.4	.6	.1
Dec	12.8	9.4	3	2	19.0	2000	30	29.7	1981	22	2000	31	11	1995	5.8	3.3	1.4	.8	.2	14.3	9.5	6.1	2.1
Ann	63.5	50.8	N/A	N/A	21.6	Mar 1984	29	39.8	Jan 1996	35+	Jan 1996	12	29	Feb 1978	28.6	16.4	7.0	3.4	.7	77.5	61.0	48.6	27.6

+ 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:

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No. 20 1971-2000

Station: MOHONK LAKE, NY

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Climate Division: NY 5

NWS Call Sign:

Elevation: 1,245 Feet

Lat: 41° 46N

Lon: 74° 09W

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	5/14	5/10	5/07	5/05	5/02	4/30	4/27	4/24	4/20
32	5/04	5/01	4/28	4/26	4/24	4/21	4/19	4/16	4/13
28	4/24	4/21	4/18	4/16	4/14	4/11	4/09	4/06	4/03
24	4/16	4/12	4/09	4/06	4/04	4/01	3/30	3/27	3/22
20	4/09	4/05	4/01	3/29	3/27	3/24	3/21	3/18	3/13
16	4/04	3/31	3/27	3/24	3/22	3/19	3/16	3/13	3/09
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	9/27	10/01	10/05	10/07	10/10	10/12	10/15	10/18	10/23
32	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
28	10/26	10/29	11/01	11/02	11/04	11/06	11/08	11/10	11/13
24	10/31	11/05	11/09	11/12	11/15	11/18	11/21	11/24	11/29
20	11/12	11/17	11/20	11/23	11/25	11/28	11/30	12/04	12/08
16	11/20	11/25	11/28	12/02	12/04	12/07	12/10	12/14	12/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	173	168	164	160	156	152	147	140
32	199	193	188	184	180	177	173	168	162
28	219	214	210	207	204	201	198	194	189
24	247	239	234	229	224	220	215	209	201
20	262	255	251	247	243	239	235	230	224
16	276	269	265	261	257	253	249	244	238

* 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:

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Climate Division: NY 5

NWS Call Sign:

Elevation: 1,245 Feet Lat: 41°46N Lon: 74°09W

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	1256	1063	902	521	214	45	6	10	114	417	734	1095	6377
60	1101	923	747	374	111	10	0	0	40	275	584	940	5105
57	1008	839	654	289	66	3	0	0	17	201	495	847	4419
55	946	783	592	237	44	1	0	0	9	159	437	785	3993
50	791	643	442	127	12	0	0	0	1	76	299	633	3024
32	287	205	69	1	0	0	0	0	0	0	22	187	771

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	55	66	190	470	836	1050	1231	1177	909	609	277	115	6985
55	0	0	0	16	167	361	518	464	227	55	2	0	1810
57	0	0	0	8	127	303	456	402	176	36	1	0	1509
60	0	0	0	3	78	219	363	309	108	16	0	0	1096
65	0	0	0	0	27	105	214	164	33	3	0	0	546
70	0	0	0	0	6	33	93	59	4	0	0	0	195

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	8	13	69	254	590	812	984	934	670	375	121	19	8	21	90	344	934	1746	2730	3664	4334	4709	4830	4849
45	0	4	34	149	437	662	829	779	521	239	57	4	0	4	38	187	624	1286	2115	2894	3415	3654	3711	3715
50	0	0	14	77	289	512	674	624	372	131	21	1	0	0	14	91	380	892	1566	2190	2562	2693	2714	2715
55	0	0	4	34	167	363	519	469	239	57	6	0	0	0	4	38	205	568	1087	1556	1795	1852	1858	1858
60	0	0	0	12	82	224	364	315	128	15	0	0	0	0	0	12	94	318	682	997	1125	1140	1140	1140
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	4	43	140	332	513	666	622	394	179	49	4	0	4	47	187	519	1032	1698	2320	2714	2893	2942	2946

(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/normals/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