

# Climatography of the United States

No. 20

1971-2000

Station: SODUS CENTER, NY

COOP ID: 307842

Climate Division: NY 9

NWS Call Sign:

Elevation: 420 Feet Lat: 43° 12N Lon: 77° 01W

## 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	32.0	17.1	24.6	72+	1950	25	33.4	1990	-27	1963	28	14.8	1977	1254	0	.0	.0	1.7	15.5	28.2	2.6
Feb	34.2	17.9	26.1	67	1976	26	33.0	1984	-24	1979	18	14.5	1979	1090	0	.0	.0	2.8	13.2	25.2	2.2
Mar	43.6	26.0	34.8	85+	1986	30	42.3	1973	-7	1960	9	26.1	1984	937	0	.0	.0	8.1	5.1	23.4	.3
Apr	55.5	36.2	45.9	92+	1990	29	50.1	1974	13	1982	7	39.9	1975	574	0	.0	.1	20.2	.4	10.6	.0
May	68.4	46.3	57.4	92	1987	30	63.2	1998	25	1958	10	51.7	1997	258	21	.0	.1	30.3	.0	.9	.0
Jun	77.4	55.2	66.3	98	1953	21	70.5	1976	34	1964	5	61.5	1980	56	95	.0	1.6	30.0	.0	.0	.0
Jul	81.7	60.5	71.1	100	1966	11	74.2	1999	42	1969	2	66.8	2000	6	195	.0	3.8	31.0	.0	.0	.0
Aug	79.8	59.1	69.5	101	1953	27	74.0	1973	37	1957	22	66.5	1982	14	153	.0	1.9	31.0	.0	.0	.0
Sep	72.2	52.2	62.2	96	1953	4	66.8	1971	26	1963	24	59.3	1975	110	26	.0	.5	30.0	.0	.2	.0
Oct	60.6	41.7	51.2	88	1963	7	58.0	1971	21+	1988	31	46.4	1976	432	1	.0	.0	26.7	.0	4.2	.0
Nov	47.9	33.2	40.6	82	1950	1	47.5	1975	8	1957	27	34.8	1976	733	0	.0	.0	12.2	1.0	14.7	.0
Dec	36.8	23.3	30.1	70+	1998	7	37.4	1998	-12	1960	24	17.4	1989	1083	0	.0	.0	3.3	8.8	25.7	.6
Ann	57.5	39.1	48.3	101	Aug 1953	27	74.2	Jul 1999	-27	Jan 1963	28	14.5	Feb 1979	6547	491	.0	8.0	227.3	44.0	133.1	5.7

+ 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](http://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

078-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: SODUS CENTER, NY**

**COOP ID: 307842**

**Climate Division: NY 9**

**NWS Call Sign:**

**Elevation: 420 Feet Lat: 43°12N**

**Lon: 77°01W**

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	2.54	2.22	2.25	1998	8	6.50	1998	1.00	1988	15.9	7.7	.9	.2	.93	1.17	1.51	1.80	2.07	2.35	2.65	3.01	3.46	4.15	4.79
Feb	2.04	1.92	1.63	1961	26	5.50	1971	.63	1987	12.6	5.8	.7	.2	.75	.94	1.21	1.44	1.66	1.89	2.13	2.41	2.78	3.33	3.84
Mar	2.58	2.41	1.86	1991	4	4.88	1991	.67	1981	12.5	6.8	1.4	.2	1.09	1.33	1.65	1.92	2.17	2.43	2.70	3.02	3.42	4.02	4.57
Apr	3.18	3.13	2.50	1976	16	8.28	1976	1.00	1985	12.1	7.7	2.0	.3	.97	1.27	1.72	2.11	2.48	2.87	3.30	3.81	4.46	5.48	6.42
May	3.18	2.94	1.62	1964	14	5.95	2000	.52	1977	11.8	7.6	2.2	.4	1.03	1.33	1.77	2.15	2.52	2.90	3.31	3.80	4.42	5.39	6.29
Jun	3.70	3.29	2.55	1986	7	8.19	1986	1.11	1991	10.8	7.3	2.6	.7	1.19	1.54	2.06	2.50	2.93	3.37	3.86	4.43	5.16	6.29	7.34
Jul	3.08	2.78	2.95	1992	18	12.58	1992	1.06	1994	9.1	6.6	2.0	.7	.83	1.12	1.57	1.96	2.34	2.74	3.19	3.71	4.40	5.48	6.49
Aug	3.31	3.51	2.80	1953	26	6.57	1992	1.03	1973	10.2	7.1	2.2	.5	1.60	1.88	2.27	2.59	2.88	3.17	3.48	3.83	4.27	4.93	5.53
Sep	4.04	3.78	3.10	1986	29	6.65	1986	1.92	1983	11.9	8.3	2.6	.9	2.05	2.38	2.84	3.21	3.54	3.88	4.23	4.64	5.14	5.90	6.57
Oct	3.77	3.57	3.30	1967	19	7.38	1990	1.20	1982	12.7	8.5	2.2	.6	1.48	1.83	2.32	2.73	3.12	3.52	3.95	4.45	5.08	6.04	6.92
Nov	3.92	3.71	2.10	1985	5	7.45	1985	.77	1976	15.1	10.1	2.1	.4	1.74	2.09	2.58	2.97	3.34	3.71	4.11	4.57	5.15	6.02	6.81
Dec	3.01	2.72	2.05	1959	7	6.05	1973	1.35	1994	16.0	8.0	1.4	.2	1.46	1.72	2.07	2.35	2.61	2.87	3.15	3.47	3.87	4.46	5.00
Ann	38.35	37.47	3.30	Oct 1967	19	12.58	Jul 1992	.52	May 1977	150.7	91.5	22.3	5.3	29.72	31.44	33.62	35.26	36.70	38.08	39.49	41.04	42.90	45.58	47.88

+ 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](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

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**NWS Call Sign:**

**Elevation: 420 Feet**

**Lat: 43°12N**

**Lon: 77°01W**

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	26.5	24.5	6	4	14.0	1996	3	62.0	1978	32	1978	21	18	1994	11.0	9.3	2.9	1.1	.2	23.5	19.4	15.0	7.1
Feb	17.1	15.5	8	6	20.0	1971	14	44.0	1971	51	1971	14	32	1971	7.6	6.3	2.2	.9	@	22.1	19.0	15.2	8.7
Mar	12.6	11.3	4	2	12.0	1984	29	43.0	1992	36	1971	5	22	1971	5.0	4.4	1.5	.6	.1	12.7	9.6	7.0	4.9
Apr	3.2	1.5	#	1	9.0	1979	9	15.0	1983	8+	1979	10	1+	1993	1.5	1.3	.3	.1	.0	1.4	.8	.4	.0
May	.1	#	#	0	2.0	1996	12	2.0	1996	#+	1996	12	#	2000	.1	.1	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1974	.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	.1	#	0	0	1.0	1997	23	1.0	1997	#+	1997	22	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	7.0	5.3	#	0	8.0	1997	14	26.5	1996	9+	1997	16	3	1972	3.1	2.6	1.0	.4	.0	4.1	1.8	.9	.0
Dec	23.1	21.0	3	2	19.0	1978	25	64.5	2000	21+	1978	29	7	1989	8.5	7.1	2.6	1.3	.3	16.0	11.4	7.1	2.1
Ann	89.7	79.1	N/A	N/A	20.0	Feb 1971	14	64.5	Dec 2000	51	Feb 1971	14	32	Feb 1971	36.9	31.2	10.5	4.4	.6	79.8	62.0	45.6	22.8

+ 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	6/05	5/30	5/26	5/23	5/20	5/17	5/13	5/09	5/04
32	5/14	5/11	5/08	5/06	5/03	5/01	4/29	4/26	4/22
28	4/27	4/24	4/21	4/19	4/17	4/15	4/13	4/10	4/07
24	4/18	4/14	4/11	4/09	4/06	4/04	4/01	3/29	3/25
20	4/08	4/04	4/01	3/29	3/27	3/24	3/22	3/19	3/15
16	4/01	3/27	3/24	3/21	3/18	3/15	3/12	3/08	3/04
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	9/21	9/24	9/26	9/29	9/30	10/02	10/04	10/07	10/10
32	9/26	10/01	10/05	10/09	10/12	10/15	10/19	10/23	10/28
28	10/10	10/15	10/18	10/21	10/24	10/26	10/29	11/02	11/06
24	10/23	10/29	11/02	11/06	11/09	11/13	11/17	11/21	11/27
20	11/10	11/14	11/18	11/21	11/24	11/26	11/29	12/03	12/08
16	11/16	11/22	11/27	11/30	12/04	12/07	12/11	12/15	12/21
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	137	133	129	125	121	115
32	183	175	170	165	161	157	152	146	139
28	207	201	196	192	189	185	181	177	170
24	243	234	227	222	217	211	206	199	190
20	263	255	250	245	241	237	232	227	219
16	283	275	269	265	260	256	251	245	237

\* 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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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	1254	1090	937	574	258	56	6	14	110	432	733	1083	6547
60	1099	950	782	427	147	15	0	0	34	288	583	928	5253
57	1006	866	689	342	96	5	0	0	14	212	493	835	4558
55	944	810	628	289	69	2	0	0	6	167	434	773	4122
50	789	670	482	173	24	0	0	0	1	81	296	622	3138
32	292	227	100	5	0	0	0	0	0	0	20	183	827

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	61	61	185	421	786	1029	1212	1162	905	592	277	123	6814
55	0	0	1	15	141	341	499	449	222	46	2	0	1716
57	0	0	0	8	106	284	437	387	169	29	0	0	1420
60	0	0	0	3	64	204	344	294	100	12	0	0	1021
65	0	0	0	0	21	95	195	153	26	1	0	0	491
70	0	0	0	0	4	29	78	54	2	0	0	0	167

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	12	12	72	227	545	794	973	923	675	359	120	24	12	24	96	323	868	1662	2635	3558	4233	4592	4712	4736
45	0	3	37	134	393	644	818	768	525	225	57	7	0	3	40	174	567	1211	2029	2797	3322	3547	3604	3611
50	0	0	21	70	260	494	663	613	378	127	25	2	0	0	21	91	351	845	1508	2121	2499	2626	2651	2653
55	0	0	6	37	150	350	508	458	238	55	6	0	0	0	6	43	193	543	1051	1509	1747	1802	1808	1808
60	0	0	4	18	73	217	354	307	134	18	1	0	0	0	4	22	95	312	666	973	1107	1125	1126	1126
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	9	46	131	322	507	649	611	411	190	56	7	1	10	56	187	509	1016	1665	2276	2687	2877	2933	2940

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)