

# Climatology of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: UTICA FAA AP, NY

1971-2000

COOP ID: 308737

Climate Division: NY 6

NWS Call Sign: UCA

Elevation: 711 Feet

Lat: 43°09N

Lon: 75°23W

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	28.7	13.5	21.1	65+	1995	15	29.7	1990	-28	1957	15	10.9	1994	1362	0	.0	.0	1.2	19.0	28.7	5.5
Feb	31.1	15.4	23.3	64	1976	25	32.2	1984	-21	1979	11	11.6	1979	1170	0	.0	.0	1.5	15.4	25.8	3.9
Mar	40.8	24.4	32.6	85+	1998	31	40.6	1973	-12	1980	2	27.1	1992	1005	0	.0	.0	6.5	7.2	24.1	.7
Apr	54.1	35.5	44.8	91	1990	28	49.8	1987	7	1954	4	38.5	1975	605	0	.0	@	18.4	.4	11.4	.0
May	67.8	46.5	57.2	91	1999	31	63.3	1998	25+	1978	4	51.9	1997	267	23	.0	.2	29.6	.0	1.0	.0
Jun	75.8	55.1	65.5	98	1953	21	69.5	1999	33	1986	3	60.2	1980	75	88	.0	.9	30.0	.0	.0	.0
Jul	80.4	60.0	70.2	100	1953	18	74.1	1999	44+	1978	2	65.8	1992	12	174	.0	2.7	31.0	.0	.0	.0
Aug	78.3	58.6	68.5	95+	1987	17	74.8	1973	40+	1988	22	65.1	1992	25	132	.0	1.1	31.0	.0	.0	.0
Sep	69.7	50.8	60.3	98	1953	3	65.1	1999	25	1991	30	57.0	1978	166	24	.0	.3	29.9	.0	.4	.0
Oct	57.8	40.0	48.9	86	1951	5	56.5	1971	17	1969	23	43.9	1976	501	3	.0	.0	24.4	.0	5.9	.0
Nov	45.3	31.5	38.4	79	1982	3	44.8	1975	1	2000	24	32.8	1976	798	0	.0	.0	9.9	2.9	16.3	.0
Dec	33.9	20.1	27.0	70	1966	10	34.8	1998	-23	1980	25	12.0	1989	1178	0	.0	.0	2.5	12.8	27.1	2.0
Ann	55.3	37.6	46.5	100	Jul 1953	18	74.8	Aug 1973	-28	Jan 1957	15	10.9	Jan 1994	7164	444	.0	5.2	215.9	57.7	140.7	12.1

+ 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: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

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Elevation: 711 Feet Lat: 43°09N

Lon: 75°23W

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	3.73	3.61	1.84	1966	31	8.47	1978	1.52	1981	20.0	10.5	1.9	.3	1.67	2.00	2.46	2.83	3.18	3.53	3.91	4.34	4.88	5.70	6.44
Feb	2.96	3.01	2.38	1971	13	8.83	1971	.63	1987	15.9	7.6	1.6	.3	1.01	1.29	1.70	2.05	2.38	2.72	3.09	3.52	4.08	4.94	5.73
Mar	3.65	3.59	2.31	1994	3	6.67	1994	1.48	1981	15.7	8.9	1.8	.6	1.69	2.01	2.45	2.81	3.14	3.47	3.83	4.23	4.74	5.51	6.21
Apr	3.55	3.35	2.28	1977	23	6.89+	1993	1.39	1985	13.8	8.4	2.2	.5	1.43	1.76	2.22	2.60	2.96	3.32	3.72	4.17	4.74	5.62	6.42
May	3.82	3.26	2.75	2000	13	8.43	2000	1.37	1980	12.7	8.6	2.2	.4	1.25	1.61	2.15	2.60	3.03	3.48	3.98	4.55	5.30	6.45	7.51
Jun	4.05	4.02	3.30	1968	26	10.50	1972	.82	1995	12.2	8.2	2.8	.7	1.31	1.69	2.26	2.74	3.21	3.69	4.22	4.84	5.63	6.87	8.01
Jul	3.80	3.22	6.06	1965	5	7.74	1992	1.31	1979	10.3	6.7	2.9	.9	1.37	1.72	2.24	2.67	3.08	3.51	3.97	4.50	5.19	6.24	7.21
Aug	3.63	3.74	3.05	1975	29	6.86	1984	1.34	1982	10.7	6.8	2.3	.8	1.49	1.82	2.29	2.68	3.04	3.41	3.81	4.27	4.85	5.74	6.54
Sep	4.59	4.00	4.14	1985	27	11.09	1981	2.10	1997	11.6	7.9	3.0	1.2	1.80	2.23	2.83	3.33	3.81	4.29	4.81	5.41	6.18	7.35	8.42
Oct	3.47	3.28	3.06	1955	6	7.51	1976	1.57	1974	12.9	7.7	2.1	.6	1.58	1.89	2.31	2.65	2.97	3.29	3.64	4.03	4.53	5.28	5.95
Nov	4.06	4.24	2.35	1996	8	7.10	1972	1.34	1978	16.5	10.2	2.3	.5	1.91	2.27	2.75	3.14	3.50	3.87	4.26	4.70	5.26	6.10	6.85
Dec	3.94	3.39	2.16	1973	9	8.32	1973	1.74	1999	18.6	9.8	1.8	.5	1.66	2.02	2.52	2.93	3.32	3.71	4.12	4.61	5.22	6.14	6.99
Ann	45.25	43.72	6.06	Jul 1965	5	11.09	Sep 1981	.63	Feb 1987	170.9	101.3	26.9	7.3	33.91	36.15	38.99	41.13	43.02	44.84	46.70	48.76	51.24	54.82	57.89

+ 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: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:  
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**Climate Division: NY 6**

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**Elevation: 711 Feet**

**Lat: 43°09N**

**Lon: 75°23W**

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	26.7	23.3	6	4	25.3	1996	3	55.3	1994	33	1994	19	20	1994	15.9	8.8	2.5	1.1	.1	25.6	19.0	14.6	7.1
Feb	18.9	15.4	6	4	17.2	1998	24	40.6	1972	28+	1993	25	16	1971	11.9	5.8	2.0	.7	.1	23.1	18.0	13.9	6.6
Mar	16.4	11.7	3	2	22.0	1994	3	46.4	1971	33	1994	4	16	1994	9.0	4.4	1.4	.7	.3	14.8	9.1	6.6	2.8
Apr	3.9	2.4	#	1	11.2	1979	9	18.5	1979	7+	2000	9	1+	1994	2.9	1.4	.4	.1	@	2.6	.9	.3	.0
May	.1	#	#	0	.9	1973	18	1.5	1973	1	1973	18	#	2000	.1	.0	.0	.0	.0	@	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1973	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	1.0	1992	#	1995	15	#	1995	.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	#	1992	30	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.6	#	#	0	4.0	1987	11	4.0	1987	3	1987	11	#	1997	.6	.2	.1	.0	.0	.1	@	.0	.0
Nov	10.1	6.8	1	0	11.4	1997	14	39.1	1995	13	1993	1	4	1995	5.5	3.1	1.1	.5	.1	5.8	2.7	1.4	.1
Dec	21.0	19.5	3	2	16.8	1993	21	48.6	1995	20+	1992	5	9	1995	13.3	6.5	2.0	.8	.2	18.9	11.2	6.1	1.5
Ann	97.7	79.1	N/A	N/A	25.3	Jan 1996	3	55.3	Jan 1994	33+	Mar 1994	4	20	Jan 1994	59.2	30.2	9.5	3.9	.8	90.9	60.9	42.9	18.1

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

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**Lat: 43°09N**

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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	5/30	5/25	5/22	5/19	5/16	5/13	5/10	5/07	5/02
32	5/17	5/12	5/09	5/06	5/03	4/30	4/27	4/24	4/19
28	4/28	4/25	4/22	4/20	4/19	4/17	4/15	4/12	4/09
24	4/18	4/14	4/11	4/09	4/06	4/04	4/02	3/30	3/26
20	4/11	4/06	4/03	3/31	3/29	3/26	3/23	3/20	3/15
16	4/05	4/01	3/29	3/26	3/24	3/21	3/19	3/16	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	9/15	9/19	9/23	9/26	9/28	10/01	10/04	10/07	10/12
32	9/24	9/29	10/03	10/07	10/10	10/13	10/17	10/21	10/26
28	10/03	10/09	10/13	10/16	10/20	10/23	10/26	10/30	11/05
24	10/18	10/24	10/28	10/31	11/03	11/06	11/10	11/14	11/19
20	10/31	11/05	11/09	11/13	11/16	11/19	11/22	11/26	12/02
16	11/14	11/19	11/22	11/25	11/28	12/01	12/04	12/07	12/12
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	155	148	143	139	135	131	126	121	114
32	180	173	168	163	159	155	150	145	138
28	203	196	191	187	183	179	175	170	163
24	231	224	219	214	210	206	201	196	189
20	254	246	241	236	232	227	222	217	209
16	268	261	257	252	248	245	240	235	229

\* 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](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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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	1362	1170	1005	605	267	75	12	25	166	501	798	1178	7164
60	1207	1030	850	458	155	24	1	3	74	357	648	1023	5830
57	1114	946	757	372	103	10	0	0	40	278	558	930	5108
55	1052	890	695	318	75	5	0	0	25	230	499	868	4657
50	897	750	542	198	28	0	0	0	6	132	357	718	3628
32	380	299	123	6	0	0	0	0	0	2	38	258	1106

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	41	53	141	391	779	1003	1185	1130	848	527	231	103	6432
55	0	0	0	13	141	318	472	417	183	42	1	0	1587
57	0	0	0	7	107	263	410	355	138	27	0	0	1307
60	0	0	0	3	66	187	317	265	82	13	0	0	933
65	0	0	0	0	23	88	174	132	24	3	0	0	444
70	0	0	0	0	5	28	70	45	3	0	0	0	151

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	7	52	199	542	774	941	890	617	299	93	11	3	10	62	261	803	1577	2518	3408	4025	4324	4417	4428
45	1	0	20	114	391	624	786	735	469	184	48	4	1	1	21	135	526	1150	1936	2671	3140	3324	3372	3376
50	0	0	9	59	255	474	631	580	325	97	18	0	0	0	9	68	323	797	1428	2008	2333	2430	2448	2448
55	0	0	5	26	146	327	476	427	198	39	4	0	0	0	5	31	177	504	980	1407	1605	1644	1648	1648
60	0	0	1	8	72	197	322	278	102	10	0	0	0	0	1	9	81	278	600	878	980	990	990	990
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	2	36	114	316	485	628	584	363	154	45	5	0	2	38	152	468	953	1581	2165	2528	2682	2727	2732

(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.  
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)