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: TULLY HEIBERG FOREST, NY **COOP ID: 308627**

Climate Division: NY 2 **NWS Call Sign:** **Elevation: 1,899 Feet** **Lat: 42˚46N** **Lon: 76˚05W**

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	26.0	10.2	18.1	63	1967	25	28.9	1990	-21	1968	9	8.2	1977	1454	0	.0	.0	1.1	22.0	29.8	6.5
Feb	28.4	11.5	20.0	58+	1997	28	29.3	1998	-22	1979	17	7.6	1979	1262	0	.0	.0	1.4	18.2	26.9	5.2
Mar	37.3	20.4	28.9	80	1998	31	37.3	1973	-11	1984	12	20.9	1984	1120	0	.0	.0	5.4	10.6	26.3	1.1
Apr	49.9	31.7	40.8	85	1990	29	45.6	1987	5+	1982	8	34.0	1975	726	0	.0	.0	15.5	1.7	16.3	.0
May	62.9	43.0	53.0	88	1996	21	60.1	1998	17	1978	2	47.2	1997	384	9	.0	.0	28.3	@	3.5	.0
Jun	71.1	51.8	61.5	90	1969	27	65.3	1999	30	1986	3	56.7	1985	136	30	.0	.0	29.7	.0	.2	.0
Jul	75.7	56.1	65.9	93	1995	15	70.0	1999	37	1977	27	61.6	1992	49	77	.0	.2	31.0	.0	.0	.0
Aug	74.1	54.9	64.5	92	2001	10	68.3	1995	33	1982	29	60.7	1982	75	59	.0	.1	31.0	.0	.0	.0
Sep	66.0	47.1	56.6	89+	1991	17	60.6	1999	22	1973	22	53.1	1978	257	3	.0	.0	29.4	.0	.9	.0
Oct	54.7	36.7	45.7	80	1990	7	53.1	1971	14+	1976	27	40.3	1972	599	0	.0	.0	21.1	.2	9.7	.0
Nov	42.1	27.4	34.8	74	1982	3	41.2	1975	0	1967	16	28.1	1976	908	0	.0	.0	8.4	5.6	21.3	.0
Dec	31.1	16.8	24.0	65	1998	7	32.2	1998	-29	1980	25	10.2	1989	1272	0	.0	.0	2.0	16.5	29.1	2.3
Ann	51.6	34.0	42.8	93	Jul 1995	15	70.0	Jul 1999	-29	Dec 1980	25	7.6	Feb 1979	8242	178	.0	.3	204.3	74.8	164.0	15.1

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1967-2001

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Issue Date: February 2004

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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	2.96	2.63	1.91	1996	20	6.43	1979	1.47	1981
Feb	2.93	2.55	2.68	1972	4	6.47	1972	.66	1987
Mar	3.42	3.41	2.22	1984	30	5.55	1997	1.69	1995
Apr	3.89	3.49	2.53	1976	16	8.18	1983	1.83	1989
May	4.08	3.87	1.85	1986	17	8.61	2000	1.26	1980
Jun	4.71	4.67	2.21	1972	22	11.27	1972	1.77	1999
Jul	3.98	3.55	2.85	1974	3	9.95	1992	1.46	1983
Aug	3.81	3.29	4.24	1994	18	8.93	1994	1.80	1982
Sep	4.81	4.58	4.98	2001	25	8.41	1981	2.15	1980
Oct	3.73	3.25	3.56	1981	28	9.19	1981	1.05	1994
Nov	3.91	3.74	3.56	1996	9	6.13	1996	1.41	1976
Dec	3.58	3.09	2.68	1996	14	6.52	1978	1.67	1989
Ann	45.81	46.24	4.98	Sep 2001	25	11.27	Jun 1972	.66	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.1	8.8	1.2	.2
Feb	15.1	7.6	1.4	.3
Mar	16.8	9.0	1.8	.4
Apr	15.4	9.1	2.3	.6
May	16.1	9.2	2.9	.6
Jun	15.0	9.4	3.2	1.0
Jul	12.6	7.3	2.5	.9
Aug	13.4	7.8	2.5	.7
Sep	15.7	8.6	3.1	1.2
Oct	16.4	8.4	1.8	.6
Nov	17.3	9.3	2.4	.6
Dec	19.0	9.3	1.8	.3
Ann	190.9	103.8	26.9	7.4

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	1.26	1.53	1.90	2.21	2.50	2.79	3.10	3.46	3.91	4.60	5.23
Feb	1.04	1.32	1.72	2.05	2.38	2.71	3.07	3.49	4.02	4.85	5.61
Mar	1.69	1.98	2.37	2.69	2.98	3.27	3.58	3.94	4.38	5.04	5.63
Apr	1.85	2.19	2.65	3.02	3.36	3.71	4.08	4.50	5.02	5.82	6.53
May	1.55	1.93	2.48	2.93	3.36	3.80	4.27	4.82	5.52	6.60	7.58
Jun	1.85	2.29	2.91	3.42	3.91	4.40	4.94	5.55	6.34	7.54	8.64
Jul	1.61	1.98	2.49	2.92	3.32	3.73	4.17	4.68	5.33	6.32	7.21
Aug	1.56	1.91	2.40	2.81	3.19	3.58	4.00	4.48	5.09	6.02	6.87
Sep	2.40	2.81	3.36	3.80	4.21	4.62	5.05	5.54	6.15	7.07	7.90
Oct	1.38	1.73	2.23	2.65	3.05	3.46	3.90	4.42	5.07	6.08	7.01
Nov	2.01	2.33	2.77	3.12	3.44	3.76	4.09	4.48	4.95	5.67	6.31
Dec	1.54	1.86	2.31	2.68	3.03	3.38	3.75	4.18	4.73	5.55	6.30
Ann	35.32	37.42	40.07	42.05	43.80	45.48	47.20	49.09	51.36	54.63	57.43

\+ 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: 1967-2001
(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	27.3	22.5	12	9	18.3	1994	5	64.2	1978	58+	1977	31	43	1977	15.5	9.5	2.8	.7	.2	28.2	25.5	21.8	15.1
Feb	24.2	21.3	17	12	16.1	1972	4	53.2	1972	67	1977	5	51	1977	12.5	7.6	2.7	.9	.1	27.3	25.3	23.2	18.4
Mar	22.4	18.6	12	9	29.0	1993	14	56.3	1993	60	1993	15	47	1994	10.5	6.4	2.3	1.0	.1	25.4	22.3	19.4	12.9
Apr	8.6	7.0	3	3	15.6	1993	23	29.0	1983	36+	1994	1	15	1971	4.0	2.8	.8	.3	@	8.2	6.2	4.6	2.6
May	.6	#	#	0	10.2	1977	9	10.2	1977	9	1977	9	#	2000	.2	.1	.1	.1	.0	.2	.1	.1	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1996	.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	#	1974	23	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.7	.3	#	0	7.2	1988	23	13.0	1988	9	1988	23	1	1988	1.1	.7	.2	.0	.0	1.0	.2	@	.0
Nov	12.8	12.3	2	1	10.1	1990	13	27.2	1995	17	1993	2	7	1995	6.3	4.4	1.4	.6	.0	10.8	6.1	3.5	1.1
Dec	25.5	27.0	6	4	12.0	1997	30	43.3	1989	34+	1995	30	17	1995	13.3	8.2	2.6	.8	.1	24.2	18.4	13.2	6.3
Ann	123.1	109.0	N/A	N/A	29.0	Mar 1993	14	64.2	Jan 1978	67	Feb 1977	5	51	Feb 1977	63.4	39.7	12.9	4.4	.5	125.3	104.1	85.8	56.4

+ 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	6/17	6/11	6/06	6/03	5/30	5/27	5/23	5/18	5/12
32	6/03	5/28	5/24	5/21	5/18	5/15	5/12	5/08	5/02
28	5/17	5/13	5/09	5/07	5/04	5/01	4/29	4/25	4/21
24	5/01	4/27	4/24	4/22	4/20	4/18	4/15	4/12	4/08
20	4/23	4/19	4/16	4/13	4/10	4/08	4/05	4/02	3/28
16	4/13	4/09	4/06	4/03	4/01	3/30	3/27	3/24	3/20

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	131	123	118	114	110	105	101	96	89
32	158	150	144	139	135	130	125	120	112
28	184	176	170	165	160	156	151	145	137
24	208	201	196	191	187	183	179	174	166
20	234	226	221	216	211	207	202	197	189
16	253	245	240	235	230	226	221	215	207

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1454	1262	1120	726	384	136	49	75	257	599	908	1272	8242
60	1299	1122	965	577	252	55	8	17	131	449	758	1117	6750
57	1206	1038	872	489	186	26	1	5	76	364	668	1024	5955
55	1144	982	810	432	148	14	0	1	50	310	608	962	5461
50	989	842	656	298	74	2	0	0	13	194	460	807	4335
32	461	370	198	25	0	0	0	0	0	8	69	305	1436

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	30	32	101	288	649	884	1050	1007	736	433	152	57	5419
55	0	0	0	5	84	208	337	296	96	21	0	0	1047
57	0	0	0	3	60	160	276	237	62	13	0	0	811
60	0	0	0	1	33	99	190	156	27	5	0	0	511
65	0	0	0	0	9	30	77	59	3	0	0	0	178
70	0	0	0	0	1	5	16	12	0	0	0	0	34

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	4	5	41	140	424	657	819	778	520	238	66	9	4	9	50	190	614	1271	2090	2868	3388	3626	3692	3701
45	0	0	19	78	286	507	664	623	375	136	27	3	0	0	19	97	383	890	1554	2177	2552	2688	2715	2718
50	0	0	7	42	177	363	509	469	240	67	8	0	0	0	7	49	226	589	1098	1567	1807	1874	1882	1882
55	0	0	1	20	93	231	355	317	136	24	1	0	0	0	1	21	114	345	700	1017	1153	1177	1178	1178
60	0	0	0	4	41	123	213	180	59	2	0	0	0	0	0	4	45	168	381	561	620	622	622	622
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	23	83	238	395	517	482	289	122	32	4	0	1	24	107	345	740	1257	1739	2028	2150	2182	2186

(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