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: MORRISVILLE 6 SW, NY **COOP ID: 305512**

Climate Division: NY 2 **NWS Call Sign:** **Elevation: 1,300 Feet** **Lat: 42˚50N** **Lon: 75˚44W**

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	27.7	8.8	18.3	69	1932	12	28.0	1990	-35	1957	15	9.0	1994	1450	0	.0	.0	1.3	19.4	29.8	6.8
Feb	30.2	9.4	19.8	60	1981	19	28.3	1984	-34	1934	9	8.3	1979	1267	0	.0	.0	1.7	16.0	26.5	5.6
Mar	39.6	19.1	29.4	82	1986	30	37.1	1973	-21	1993	19	22.1	1984	1105	0	.0	.0	6.5	7.6	26.6	1.5
Apr	52.3	31.2	41.8	88	1932	29	46.3+	1991	6	1982	7	35.1	1975	698	0	.0	.0	17.7	.8	16.8	.0
May	65.0	42.1	53.6	90	1962	19	58.7	1991	20	1963	6	48.4	1997	361	5	.0	.0	29.5	.0	3.2	.0
Jun	73.8	51.2	62.5	96	1933	28	65.2	1976	29+	1945	1	58.9	1985	108	34	.0	.1	30.0	.0	.1	.0
Jul	78.0	55.4	66.7	100	1936	9	69.5	1988	33	1942	10	62.1	1992	37	90	.0	.5	31.0	.0	.0	.0
Aug	75.8	54.1	65.0	95	1933	1	68.6	1980	28	1966	17	61.3	1992	62	61	.0	.2	31.0	.0	@	.0
Sep	67.8	46.3	57.1	95	1931	13	61.0	1999	22	1947	28	53.8	1975	242	2	.0	.0	29.7	.0	1.2	.0
Oct	57.0	35.4	46.2	86+	1951	6	53.8	1971	4	1928	30	41.7	1992	583	0	.0	.0	24.3	@	9.5	.0
Nov	44.3	27.1	35.7	78	1950	2	41.2	1975	-12	1933	16	30.8	1997	880	0	.0	.0	10.0	3.2	20.5	.0
Dec	32.8	16.2	24.5	65	1941	5	34.3	1996	-30+	1980	25	9.2	1989	1256	0	.0	.0	2.1	14.0	28.2	2.9
Ann	53.7	33.0	43.4	100	Jul 1936	9	69.5	Jul 1988	-35	Jan 1957	15	8.3	Feb 1979	8049	192	.0	.8	214.8	61.0	162.4	16.8

\+ 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: 1926-2001

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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	2.98	2.56	1.65	1996	20	6.01	1978	1.15	1980
Feb	2.62	2.41	2.65	1961	4	5.28	1984	.86	1992
Mar	2.96	2.92	1.84	1964	5	5.10	1980	1.11	1988
Apr	3.47	3.56	1.60	1993	10	7.56	1983	.77	1988
May	4.20	4.09	3.39	2000	11	10.37	2000	1.42	1988
Jun	4.24	4.01	3.86	1972	22	12.30	1972	1.70	1999
Jul	3.52	2.93	4.00	1952	10	10.69	1992	1.41	1995
Aug	3.29	3.23	3.00	1957	4	6.90	1994	1.21	1985
Sep	4.52	4.24	4.11	1999	17	8.87	1977	2.31	1971
Oct	3.55	2.89	3.49	1932	6	8.25	1990	1.01	1994
Nov	3.71	3.41	2.89	1996	9	6.16	1972	1.34	1978
Dec	3.61	3.52	1.67	1996	2	7.49	1983	1.46	1989
Ann	42.67	41.90	4.11	Sep 1999	17	12.30	Jun 1972	.77	Apr 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.4	8.5	1.1	.1
Feb	13.7	6.4	1.2	.2
Mar	15.1	8.3	1.4	.2
Apr	13.0	8.3	2.2	.5
May	12.9	8.7	2.5	.8
Jun	13.1	8.7	2.8	.8
Jul	10.5	6.7	2.2	.8
Aug	11.0	7.0	2.1	.6
Sep	12.6	8.2	2.9	1.1
Oct	13.1	8.0	2.0	.5
Nov	15.5	9.6	2.0	.4
Dec	18.2	9.5	1.9	.3
Ann	167.1	97.9	24.3	6.3

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	1.03	1.31	1.72	2.06	2.40	2.74	3.11	3.54	4.09	4.95	5.74
Feb	.95	1.20	1.55	1.85	2.13	2.42	2.74	3.10	3.57	4.29	4.95
Mar	1.23	1.50	1.88	2.19	2.49	2.78	3.10	3.47	3.94	4.66	5.31
Apr	1.24	1.57	2.04	2.44	2.82	3.20	3.63	4.12	4.75	5.72	6.62
May	1.64	2.03	2.58	3.04	3.47	3.92	4.39	4.94	5.65	6.72	7.70
Jun	1.71	2.10	2.65	3.11	3.54	3.97	4.44	4.98	5.67	6.73	7.69
Jul	1.24	1.57	2.05	2.46	2.84	3.24	3.67	4.18	4.82	5.82	6.74
Aug	1.59	1.87	2.26	2.57	2.86	3.14	3.45	3.80	4.24	4.90	5.50
Sep	2.00	2.40	2.96	3.42	3.85	4.28	4.74	5.27	5.94	6.96	7.87
Oct	1.15	1.49	1.99	2.41	2.82	3.24	3.70	4.24	4.94	6.02	7.02
Nov	1.77	2.09	2.53	2.89	3.21	3.54	3.89	4.29	4.78	5.54	6.21
Dec	1.68	2.00	2.43	2.78	3.11	3.44	3.79	4.19	4.70	5.46	6.14
Ann	32.49	34.51	37.08	39.00	40.70	42.33	44.00	45.84	48.06	51.25	53.99

\+ 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: 1926-2001
(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	30.0	27.7	11	9	11.0	1987	23	56.5	1987	45	1985	31	26	1981	14.4	9.5	2.7	1.0	.1	27.7	24.2	20.2	13.5
Feb	21.3	21.7	15	12	24.8	1998	25	33.2	1998	51	1985	10	34	1987	9.7	6.6	2.2	1.0	.2	24.3	22.9	20.0	16.3
Mar	15.5	12.0	9	6	27.0	1993	14	45.4	1984	44	1993	15	29	1977	8.3	5.4	2.0	.8	.2	18.4	14.3	11.1	5.4
Apr	4.8	2.7	1	#	8.5	1983	19	17.4	1997	23	1994	1	7	1994	2.6	1.8	.7	.3	.0	3.2	1.8	1.3	.2
May	.0	.0	#	0	.2	1997	7	.2	1997	12	1977	9	#+	1997	@	.0	.0	.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	#	1992	30	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	0	4.0	1988	22	5.0	1988	4	1988	22	#+	2000	.4	.2	.1	.0	.0	.4	.1	.0	.0
Nov	11.5	11.1	1	1	11.0	1995	9	23.5	1996	16	1995	16	8	1995	4.8	3.0	1.5	.6	.1	7.9	4.9	2.7	.4
Dec	26.0	22.7	5	3	14.0	1997	30	54.7	1995	30+	1995	23	16	1995	11.9	7.9	2.7	1.0	.2	22.4	15.8	10.2	4.8
Ann	109.6	97.9	N/A	N/A	27.0	Mar 1993	14	56.5	Jan 1987	51	Feb 1985	10	34	Feb 1987	52.1	34.4	11.9	4.7	.8	104.3	84.0	65.5	40.6

+ 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

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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	6/24	6/16	6/11	6/06	6/02	5/29	5/24	5/18	5/11
32	5/30	5/25	5/21	5/18	5/15	5/12	5/09	5/05	4/30
28	5/12	5/08	5/05	5/02	4/30	4/28	4/25	4/22	4/18
24	5/01	4/27	4/24	4/21	4/19	4/16	4/14	4/11	4/07
20	4/21	4/17	4/14	4/11	4/08	4/06	4/03	3/31	3/26
16	4/09	4/05	4/02	3/30	3/27	3/25	3/22	3/19	3/15

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	9/02	9/06	9/09	9/12	9/14	9/17	9/19	9/22	9/27
32	9/13	9/18	9/21	9/24	9/26	9/29	10/02	10/05	10/09
28	9/27	10/03	10/07	10/11	10/15	10/18	10/22	10/26	11/01
24	10/10	10/15	10/19	10/23	10/26	10/29	11/02	11/06	11/12
20	10/22	10/29	11/03	11/07	11/11	11/14	11/18	11/23	11/30
16	11/01	11/08	11/13	11/17	11/21	11/25	11/29	12/04	12/10

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	121	115	109	104	99	93	86	77
32	156	148	143	138	134	129	125	119	112
28	189	181	176	171	167	163	158	153	145
24	209	203	198	193	190	186	181	176	170
20	242	233	227	221	216	210	205	198	189
16	263	254	248	243	238	233	227	221	213

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1450	1267	1105	698	361	108	37	62	242	583	880	1256	8049
60	1295	1127	950	548	226	35	5	11	117	432	730	1101	6577
57	1202	1043	857	460	159	14	0	2	64	346	640	1008	5795
55	1140	987	795	402	121	6	0	0	41	292	580	946	5310
50	985	847	640	268	52	1	0	0	10	175	431	791	4200
32	450	370	181	15	0	0	0	0	0	5	54	305	1380

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	23	27	99	307	667	916	1077	1021	751	444	164	73	5569
55	0	0	0	4	75	232	364	308	101	19	0	0	1103
57	0	0	0	2	51	179	302	248	65	11	0	0	858
60	0	0	0	0	25	111	213	164	27	4	0	0	544
65	0	0	0	0	5	34	90	61	2	0	0	0	192
70	0	0	0	0	0	5	21	11	0	0	0	0	37

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	1	7	42	157	460	686	847	802	549	259	75	10	1	8	50	207	667	1353	2200	3002	3551	3810	3885	3895
45	0	0	15	88	317	536	692	647	401	149	28	2	0	0	15	103	420	956	1648	2295	2696	2845	2873	2875
50	0	0	8	41	197	389	537	492	265	71	9	0	0	0	8	49	246	635	1172	1664	1929	2000	2009	2009
55	0	0	2	16	99	250	382	340	148	30	3	0	0	0	2	18	117	367	749	1089	1237	1267	1270	1270
60	0	0	0	3	40	130	233	195	70	3	0	0	0	0	0	3	43	173	406	601	671	674	674	674
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	29	107	277	427	542	505	324	151	41	2	0	1	30	137	414	841	1383	1888	2212	2363	2404	2406

(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