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: YORKTOWN HEIGHTS 1 W, NY **COOP ID: 309670**

Climate Division: NY 5 **NWS Call Sign:** **Elevation: 670 Feet** **Lat: 41˚16N** **Lon: 73˚48W**

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	33.9	17.6	25.8	63	1974	28	34.8	1990	-15	1994	27	17.1	1977	1216	0	.0	.0	2.6	13.0	28.4	1.9
Feb	37.0	19.3	28.2	73	1985	25	36.3	1998	-10+	1979	14	16.4	1979	1032	0	.0	.0	3.9	9.8	24.9	1.1
Mar	46.5	28.1	37.3	85	1998	31	43.0	2000	0	1984	10	30.9	1984	860	0	.0	.0	12.0	2.4	20.9	@
Apr	58.0	38.4	48.2	93	1976	19	51.9	1991	14+	1982	8	42.7	1975	503	0	.0	.1	23.7	.1	6.4	.0
May	69.2	48.8	59.0	94	1996	21	64.2	1991	30	1970	7	54.7	1990	206	20	.0	.3	30.7	.0	.1	.0
Jun	77.1	57.6	67.4	94+	1984	11	70.8	1999	38	1972	11	63.9	1985	33	103	.0	1.3	30.0	.0	.0	.0
Jul	81.9	62.7	72.3	100	1995	16	77.1	1999	46	1979	5	68.9	2000	3	230	@	3.3	31.0	.0	.0	.0
Aug	80.2	61.1	70.7	100	2001	10	73.7	1988	39	1982	29	67.4	1982	7	182	.0	1.5	31.0	.0	.0	.0
Sep	72.7	53.4	63.1	95+	1983	12	66.5	1998	32	2000	28	59.4	1975	95	37	.0	.5	30.0	.0	@	.0
Oct	61.8	42.2	52.0	85+	1986	1	57.8	1971	20	1976	28	47.5	1976	407	4	.0	.0	28.9	.0	3.5	.0
Nov	50.0	33.6	41.8	79	1974	2	46.3+	1999	11	1976	30	35.7	1976	696	0	.0	.0	15.3	.6	13.6	.0
Dec	38.8	23.8	31.3	73	1998	8	38.1	1998	-9+	1980	26	18.5	1989	1045	0	.0	.0	4.5	7.6	25.8	.3
Ann	58.9	40.6	49.8	100+	Aug 2001	10	77.1	Jul 1999	-15	Jan 1994	27	16.4	Feb 1979	6103	576	@	7.0	243.6	33.5	123.6	3.3

\+ 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

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

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	4.06	3.87	2.84	1979	21	11.29	1979	.62	1981
Feb	3.09	3.15	2.97	1973	3	7.60	1981	.37	1987
Mar	4.20	3.94	4.60	1980	22	8.63	1980	.67	1981
Apr	4.39	4.18	2.96	1980	10	10.23	1983	1.23	1985
May	4.84	4.46	3.35	1989	17	11.04	1989	.75	1993
Jun	4.21	3.43	4.95	2001	18	13.62	1972	.47	1988
Jul	4.63	4.48	3.44	1984	7	10.60	1984	1.77	1993
Aug	4.55	4.26	6.86	1971	28	10.12	1990	.45	1981
Sep	4.75	3.53	10.95	1999	17	18.00	1999	1.04	1972
Oct	4.09	3.78	3.90	1996	20	9.16	1995	.88	2000
Nov	4.51	4.06	2.97	1994	22	9.02	1988	1.06	1976
Dec	3.81	3.55	2.80	1983	13	9.18	1973	.69	1980
Ann	51.13	48.00	10.95	Sep 1999	17	18.00	Sep 1999	.37	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	7.1	2.9	1.0
Feb	9.1	6.2	1.9	.5
Mar	11.0	6.8	3.1	1.2
Apr	12.0	7.7	3.1	1.2
May	12.4	8.1	2.8	1.5
Jun	11.3	7.0	2.8	1.3
Jul	10.2	7.0	3.3	1.4
Aug	10.1	7.0	2.8	1.5
Sep	9.6	6.2	3.0	1.5
Oct	9.3	5.7	2.7	1.3
Nov	10.7	6.5	3.1	1.6
Dec	11.4	6.7	2.9	.8
Ann	128.3	82.0	34.4	14.8

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	1.05	1.44	2.02	2.54	3.06	3.59	4.19	4.90	5.83	7.29	8.66
Feb	1.05	1.34	1.77	2.13	2.48	2.84	3.23	3.68	4.27	5.17	6.00
Mar	1.49	1.88	2.46	2.94	3.40	3.87	4.39	4.99	5.75	6.94	8.03
Apr	1.48	1.90	2.51	3.02	3.51	4.02	4.58	5.23	6.06	7.35	8.54
May	1.32	1.78	2.48	3.09	3.69	4.32	5.01	5.83	6.90	8.58	10.15
Jun	.95	1.35	1.96	2.52	3.07	3.66	4.32	5.11	6.15	7.80	9.35
Jul	1.52	1.96	2.61	3.15	3.68	4.23	4.82	5.52	6.42	7.81	9.10
Aug	1.21	1.64	2.30	2.88	3.44	4.04	4.70	5.49	6.51	8.12	9.62
Sep	.93	1.36	2.06	2.70	3.35	4.04	4.83	5.78	7.04	9.06	10.98
Oct	1.19	1.58	2.16	2.67	3.16	3.67	4.24	4.91	5.77	7.13	8.39
Nov	1.49	1.92	2.55	3.08	3.59	4.12	4.70	5.38	6.25	7.60	8.84
Dec	.94	1.30	1.85	2.34	2.83	3.35	3.93	4.61	5.51	6.93	8.26
Ann	38.79	41.24	44.34	46.67	48.73	50.71	52.74	54.97	57.66	61.53	64.85

\+ 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	10.6	9.5	3	1	14.0	1996	8	32.0	1987	29	1996	8	14	1996	5.0	3.4	1.3	.6	.1	17.0	10.9	8.6	2.6
Feb	10.0	8.3	4	3	25.0	1983	12	31.5	1983	29	1983	12	12	1994	4.4	2.8	1.1	.6	.1	16.0	12.6	9.5	3.5
Mar	7.1	7.2	1	2	12.0	1993	14	24.0	1984	19	1993	14	8	1993	3.2	2.1	.9	.4	@	7.6	5.0	3.6	1.3
Apr	2.2	.3	#	0	17.0	1997	1	18.0	1997	17	1997	1	1+	1997	.8	.5	.3	.2	@	.9	.5	.3	.1
May	.1	#	#	0	2.0	1977	9	2.0	1977	2	1977	9	#	2000	.0	.0	.0	.0	.0	@	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1977	.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	.3	#	#	0	5.5	1979	11	6.5	1979	5	1979	11	#	1979	.1	.1	.0	.0	.0	.1	.1	@	.0
Nov	1.5	.4	#	0	4.0	1989	23	5.5	1987	5	1987	12	#	1997	1.0	.6	.2	.0	.0	1.3	.4	@	.0
Dec	6.2	5.0	1	1	9.0	2000	31	18.0	1992	15	1992	13	6	1995	3.7	2.0	.7	.4	.1	9.0	3.8	2.4	.5
Ann	38.0	30.7	N/A	N/A	25.0	Feb 1983	12	32.0	Jan 1987	29+	Jan 1996	8	14	Jan 1996	18.2	11.5	4.5	2.2	.3	51.9	33.3	24.4	8.0

+ 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	5/16	5/11	5/08	5/05	5/02	4/30	4/27	4/23	4/19
32	4/29	4/26	4/23	4/21	4/19	4/16	4/14	4/11	4/08
28	4/18	4/15	4/13	4/11	4/09	4/07	4/05	4/03	3/30
24	4/09	4/05	4/02	3/31	3/28	3/26	3/24	3/21	3/17
20	4/02	3/29	3/27	3/24	3/22	3/19	3/17	3/14	3/10
16	3/28	3/22	3/19	3/15	3/12	3/09	3/06	3/02	2/25

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

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	172	167	163	159	155	151	146	139
32	203	196	191	186	182	178	174	169	162
28	223	218	214	211	207	204	201	197	192
24	257	248	242	237	233	228	223	217	209
20	271	264	259	255	251	246	242	237	230
16	297	289	282	277	272	267	262	256	247

***** 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	1216	1032	860	503	206	33	3	7	95	407	696	1045	6103
60	1061	892	705	355	101	5	0	0	30	268	546	890	4853
57	968	808	612	271	58	1	0	0	12	196	457	797	4180
55	906	752	550	218	37	0	0	0	6	154	399	735	3757
50	751	612	401	109	8	0	0	0	1	74	262	587	2805
32	265	188	49	0	0	0	0	0	0	0	12	162	676

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	73	80	212	487	837	1061	1250	1198	932	620	306	140	7196
55	0	0	0	15	161	371	537	485	247	61	2	0	1879
57	0	0	0	8	120	312	475	423	194	40	1	0	1573
60	0	0	0	2	70	226	382	330	122	19	0	0	1151
65	0	0	0	0	20	103	230	182	37	4	0	0	576
70	0	0	0	0	3	29	100	70	4	0	0	0	206

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	15	20	85	277	600	833	1011	962	704	393	147	31	15	35	120	397	997	1830	2841	3803	4507	4900	5047	5078
45	1	2	39	164	447	683	856	807	555	254	74	8	1	3	42	206	653	1336	2192	2999	3554	3808	3882	3890
50	0	0	18	82	300	533	701	652	406	141	29	2	0	0	18	100	400	933	1634	2286	2692	2833	2862	2864
55	0	0	6	36	176	385	546	497	268	61	9	0	0	0	6	42	218	603	1149	1646	1914	1975	1984	1984
60	0	0	2	13	85	245	391	345	144	21	2	0	0	0	2	15	100	345	736	1081	1225	1246	1248	1248
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	2	9	52	155	342	531	688	647	423	213	71	10	2	11	63	218	560	1091	1779	2426	2849	3062	3133	3143

(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