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: NEW YORK CITY CENTRAL PK, NY **COOP ID: 305801**

Climate Division: NY 4 **NWS Call Sign: NYC** **Elevation: 130 Feet** **Lat: 40˚47N** **Lon: 73˚58W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	38.0	26.2	32.1	72	1950	26	40.8	1990	-6	1882	24	21.7	1977	1009	0	.0	.0	5.0	9.2	22.0	.3
Feb	41.0	28.1	34.6	75+	1985	24	40.6	1998	-15	1934	9	25.1	1979	853	0	.0	.0	6.4	5.5	18.4	@
Mar	49.8	35.1	42.5	86+	1998	31	47.2	2000	5	1884	1	36.2	1984	695	2	.0	.0	15.6	.8	10.5	.0
Apr	60.7	44.2	52.5	96	1976	18	55.7	1981	12	1923	1	47.4	1975	372	10	.0	.2	26.4	@	1.2	.0
May	70.9	54.2	62.6	99	1962	19	68.0	1991	28	1907	22	59.0	1973	127	63	.0	1.0	30.8	.0	.0	.0
Jun	79.0	63.3	71.2	101+	1966	27	74.3	1994	44	1945	1	67.4	1972	16	214	.0	3.1	30.0	.0	.0	.0
Jul	84.2	68.8	76.5	106	1936	9	81.4	1999	52	1943	1	72.3	2000	7	379	.5	7.7	31.0	.0	.0	.0
Aug	82.4	67.7	75.1	104	1918	7	79.7	1980	50+	1986	29	72.0	1992	2	331	.0	5.0	31.0	.0	.0	.0
Sep	74.7	60.3	67.5	102	1953	2	71.1	1983	39	1912	30	63.5	1975	43	134	.0	1.1	30.0	.0	.0	.0
Oct	63.5	49.6	56.6	94	1941	5	62.1	1971	28	1936	27	52.2	1988	261	16	.0	.0	30.5	.0	.3	.0
Nov	53.1	41.0	47.1	84	1950	1	52.0	1979	12+	1932	27	41.2	1976	525	2	.0	.0	20.1	.1	4.0	.0
Dec	42.9	31.6	37.3	75	1998	7	43.4	1984	-13	1917	30	25.2	1989	844	0	.0	.0	8.2	4.1	15.1	@
Ann	61.7	47.5	54.6	106	Jul 1936	9	81.4	Jul 1999	-15	Feb 1934	9	21.7	Jan 1977	4754	1151	.5	18.1	265.0	19.7	71.5	.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: 1876-2001

(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	4.13	3.70	3.45	1979	21	10.52	1979	.58	1981
Feb	3.15	2.95	3.07	1898	20	6.04	1981	1.01	1987
Mar	4.37	4.05	4.25	1876	25	10.41	1980	1.19	1981
Apr	4.28	3.79	3.42	1980	9	10.67	1983	1.41	1985
May	4.69	4.25	3.99	1968	29	10.24	1989	1.45	1987
Jun	3.84	3.72	4.29	1884	26	9.30	1972	.19	1999
Jul	4.62	4.52	3.75	1997	24	11.77	1975	.44	1999
Aug	4.22	3.66	4.80	1909	16	12.36	1990	.18	1995
Sep	4.23	3.58	8.28	1882	23	9.32	1975	1.33	1972
Oct	3.85	3.67	7.33	1903	9	8.63	1983	.67	2000
Nov	4.36	3.49	7.40	1977	8	12.41	1972	.34	1976
Dec	3.95	3.45	3.03	1909	13	9.98	1973	.58	1980
Ann	49.69	46.92	8.28	Sep 1882	23	12.41	Nov 1972	.18	Aug 1995

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	7.0	3.1	1.0
Feb	9.4	6.1	2.1	.9
Mar	10.7	7.1	3.1	1.0
Apr	11.1	6.9	2.7	1.2
May	11.4	7.7	3.4	1.1
Jun	10.8	6.5	2.5	.9
Jul	10.2	7.0	2.9	1.3
Aug	9.5	6.1	2.4	1.1
Sep	9.1	6.1	2.7	1.2
Oct	8.3	5.5	2.5	1.0
Nov	9.3	6.0	2.9	1.2
Dec	10.6	6.6	2.6	1.2
Ann	120.7	78.6	32.9	13.1

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	1.13	1.53	2.12	2.64	3.15	3.69	4.28	4.98	5.89	7.31	8.65
Feb	1.17	1.47	1.89	2.24	2.58	2.92	3.30	3.73	4.28	5.14	5.91
Mar	1.45	1.86	2.47	2.99	3.48	4.00	4.56	5.21	6.05	7.36	8.57
Apr	1.47	1.87	2.46	2.96	3.44	3.93	4.47	5.09	5.89	7.13	8.27
May	1.40	1.85	2.52	3.09	3.65	4.23	4.87	5.63	6.60	8.13	9.54
Jun	.85	1.21	1.77	2.28	2.78	3.32	3.93	4.66	5.61	7.13	8.57
Jul	1.00	1.43	2.11	2.72	3.33	3.99	4.73	5.61	6.77	8.63	10.39
Aug	.72	1.09	1.70	2.28	2.87	3.52	4.25	5.14	6.33	8.26	10.10
Sep	1.42	1.82	2.40	2.90	3.38	3.87	4.41	5.04	5.85	7.10	8.26
Oct	.99	1.36	1.92	2.41	2.90	3.41	3.98	4.65	5.53	6.92	8.23
Nov	.83	1.22	1.86	2.45	3.05	3.69	4.42	5.31	6.48	8.36	10.16
Dec	.76	1.11	1.69	2.22	2.77	3.35	4.01	4.81	5.87	7.57	9.18
Ann	36.42	39.01	42.33	44.83	47.04	49.18	51.38	53.81	56.74	60.98	64.63

\+ 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: 1876-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Climate Division: NY 4 **NWS Call Sign: NYC** **Elevation: 130 Feet** **Lat: 40°47N** **Lon: 73°58W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	8.3	6.6	1	0
Feb	7.1	5.0	1	1
Mar	3.4	2.1	#	0
Apr	.4	.0	#	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	#	.0	0	0
Nov	.4	.0	#	0
Dec	2.6	1.5	#	0
Ann	22.2	15.2	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	13.7	1978	18	34.0	1978	15+	1978	22	3+	1994
Feb	15.5	1978	6	26.4	1994	22	1994	12	7	1994
Mar	10.2	1993	13	11.9+	1993	8+	1993	15	1+	1994
Apr	9.6	1982	6	9.6	1982	9	1982	7	1	1982
May	#	1977	9	#	1977	0	0	0	#	1995
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	#	2000	29	#+	2000	0	0	0	0	0
Nov	4.4	1989	23	4.7	1989	5+	1989	24	#	1995
Dec	12.0	2000	30	13.4	2000	7+	1995	22	1	1995
Ann	15.5	Feb 1978	6	34.0	Jan 1978	22	Feb 1994	12	7	Feb 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.1	2.4	.9	.4	.1
Feb	2.9	1.8	.8	.3	.1
Mar	1.6	1.0	.4	.2	@
Apr	.2	.1	@	@	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.3	.1	@	.0	.0
Dec	1.8	.7	.2	.1	@
Ann	10.9	6.1	2.3	1.0	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	8.4	4.2	2.2	.2
Feb	8.6	4.6	2.5	.9
Mar	2.6	1.3	.5	.0
Apr	.2	.2	.1	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.3	.1	.1	.0
Dec	1.8	.5	.2	.0
Ann	21.9	10.9	5.6	1.1

+ 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

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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	4/24	4/21	4/18	4/16	4/14	4/12	4/10	4/08	4/04
32	4/13	4/09	4/06	4/03	4/01	3/30	3/27	3/24	3/20
28	4/09	4/04	3/31	3/28	3/25	3/22	3/19	3/16	3/11
24	3/30	3/25	3/21	3/18	3/15	3/12	3/09	3/05	2/28
20	3/22	3/17	3/13	3/09	3/06	3/03	2/27	2/23	2/17
16	3/13	3/05	2/28	2/23	2/18	2/14	2/09	2/03	1/27

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	10/21	10/25	10/28	10/30	11/02	11/04	11/06	11/09	11/13
32	10/29	11/04	11/08	11/12	11/15	11/18	11/22	11/26	12/02
28	11/14	11/19	11/22	11/25	11/28	12/01	12/04	12/08	12/13
24	11/19	11/26	12/01	12/05	12/09	12/13	12/17	12/22	12/28
20	12/03	12/08	12/12	12/15	12/18	12/21	12/24	12/28	1/02
16	12/11	12/18	12/23	12/28	1/01	1/05	1/10	1/15	1/22

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	215	210	206	203	201	198	195	191	187
32	251	243	237	232	227	222	217	211	203
28	269	262	256	252	247	243	239	233	226
24	294	285	279	273	268	263	258	251	243
20	308	300	295	291	286	282	278	272	265
16	346	336	328	322	316	310	304	296	286

***** 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	1009	853	695	372	127	16	7	2	43	261	525	844	4754
60	866	713	545	233	49	1	0	0	8	158	390	705	3668
57	773	629	452	157	22	0	0	0	2	103	307	613	3058
55	711	573	392	114	11	0	0	0	1	74	253	557	2686
50	566	440	252	38	1	0	0	0	0	26	140	414	1877
32	151	84	11	0	0	0	0	0	0	0	2	75	323

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	132	153	349	626	960	1188	1396	1353	1083	778	468	224	8710
55	0	1	14	68	259	498	683	640	394	127	27	3	2714
57	0	1	10	49	207	438	621	578	336	93	18	2	2353
60	0	0	5	28	140	350	528	485	253	54	9	1	1853
65	0	0	2	10	63	214	379	331	134	16	2	0	1151
70	0	0	0	3	24	102	225	188	59	3	0	0	604

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	41	55	161	401	721	956	1156	1115	851	539	257	82	41	96	257	658	1379	2335	3491	4606	5457	5996	6253	6335
45	14	23	83	262	567	806	1001	960	701	386	147	35	14	37	120	382	949	1755	2756	3716	4417	4803	4950	4985
50	1	5	40	147	412	656	846	805	551	245	74	10	1	6	46	193	605	1261	2107	2912	3463	3708	3782	3792
55	0	0	12	73	267	506	691	650	403	134	26	3	0	0	12	85	352	858	1549	2199	2602	2736	2762	2765
60	0	0	4	30	146	360	536	495	260	58	9	0	0	0	4	34	180	540	1076	1571	1831	1889	1898	1898
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	14	23	77	199	422	645	811	783	551	279	105	30	14	37	114	313	735	1380	2191	2974	3525	3804	3909	3939

(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

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