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 AVE V BROOKLYN, NY **COOP ID: 305796**

Climate Division: NY 4 **NWS Call Sign:** **Elevation: 20 Feet** **Lat: 40˚36N** **Lon: 73˚59W**

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	38.9	26.4	32.7	68	1967	24	40.9	1990	-4	1985	21	23.0	1977	1003	0	.0	.0	4.5	8.2	21.9	.2
Feb	41.9	28.5	35.2	73	1985	24	41.0	1976	-2	1963	8	25.0	1979	835	0	.0	.0	6.1	5.0	18.2	.0
Mar	49.9	35.4	42.7	83	1990	13	47.0	2000	10+	1980	1	36.8	1984	692	0	.0	.0	15.5	.8	10.5	.0
Apr	60.2	44.5	52.4	89+	1977	12	56.0	1976	19	1982	7	48.4	1975	381	1	.0	.0	27.1	@	1.2	.0
May	70.7	54.6	62.7	98	1969	29	68.4	1991	36	1966	10	59.4	1997	126	52	.0	.9	30.9	.0	.0	.0
Jun	79.3	63.9	71.6	99	1964	30	74.2	1984	46	1972	11	67.6	1972	7	205	.0	2.7	30.0	.0	.0	.0
Jul	84.7	69.8	77.3	105	1966	3	80.6	1999	54	1979	6	73.3	2000	0	379	.2	6.0	31.0	.0	.0	.0
Aug	83.2	68.6	75.9	101+	2001	9	79.3	1980	50	1965	29	73.0	1992	0	338	@	3.8	31.0	.0	.0	.0
Sep	76.0	61.3	68.7	98	1983	10	71.4+	1983	41	1963	24	65.5	1975	21	130	.0	1.0	30.0	.0	.0	.0
Oct	64.9	50.2	57.6	86+	1997	6	63.0	1971	30	1976	27	53.2	1976	250	18	.0	.0	30.6	.0	.2	.0
Nov	54.2	41.1	47.7	80	1974	1	53.1	1975	17	1976	30	41.6	1976	522	0	.0	.0	20.6	.1	3.7	.0
Dec	43.8	31.8	37.8	75	1998	7	43.6	1984	-1	1980	25	26.4	1989	844	0	.0	.0	8.1	3.8	14.9	@
Ann	62.3	48.0	55.2	105	Jul 1966	3	80.6	Jul 1999	-4	Jan 1985	21	23.0	Jan 1977	4681	1123	.2	14.4	265.4	17.9	70.6	.2

+ 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: 1948-2001

(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	3.88	3.72	3.13	1999	3	8.30	1979	.80	1981
Feb	2.96	2.86	2.39	1966	13	5.42	1971	1.09	1987
Mar	4.04	3.97	2.92	1993	13	8.63	1980	1.20	1981
Apr	3.93	3.41	4.20	1980	28	10.12	1983	1.35	1985
May	4.43	3.87	3.73	1968	29	10.13	1989	1.12	1986
Jun	3.51	2.99	6.54	1962	24	8.12	1972	.80	1999
Jul	4.53	4.04	4.62	1996	31	9.81	1996	.86	1998
Aug	4.13	4.14	5.50	1955	12	11.12	1971	.28	1995
Sep	3.98	3.50	5.60	1966	21	9.73	1975	1.28	1972
Oct	3.39	3.30	4.29	1996	19	7.19	1996	.58	2000
Nov	3.80	3.05	5.03	1977	8	10.25	1972	.30	1976
Dec	3.60	3.40	2.81	1974	16	8.09	1973	.59	1985
Ann	46.18	43.50	6.54	Jun 1962	24	11.12	Aug 1971	.28	Aug 1995

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.8	7.0	3.0	.7
Feb	9.4	6.1	2.1	.7
Mar	11.0	7.1	2.9	.8
Apr	11.0	6.5	2.4	1.1
May	11.6	7.3	3.2	1.3
Jun	10.3	6.7	2.4	.9
Jul	9.9	6.5	2.7	1.4
Aug	9.4	6.2	2.8	1.1
Sep	8.8	6.2	2.5	1.4
Oct	8.3	5.5	2.2	.8
Nov	9.3	5.9	2.5	1.0
Dec	10.6	6.3	2.5	.9
Ann	120.4	77.3	31.2	12.1

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	1.16	1.53	2.08	2.56	3.02	3.50	4.03	4.66	5.46	6.72	7.89
Feb	1.21	1.48	1.86	2.18	2.47	2.78	3.10	3.48	3.95	4.68	5.35
Mar	1.42	1.80	2.35	2.82	3.26	3.72	4.22	4.81	5.55	6.71	7.77
Apr	1.31	1.69	2.23	2.70	3.14	3.60	4.10	4.69	5.44	6.61	7.69
May	1.65	2.06	2.66	3.15	3.62	4.11	4.63	5.24	6.01	7.21	8.30
Jun	1.07	1.41	1.91	2.33	2.75	3.18	3.65	4.21	4.93	6.05	7.09
Jul	1.26	1.69	2.34	2.91	3.47	4.05	4.69	5.45	6.44	7.99	9.44
Aug	.71	1.07	1.67	2.24	2.82	3.45	4.17	5.04	6.21	8.09	9.89
Sep	1.37	1.75	2.29	2.76	3.20	3.65	4.15	4.73	5.47	6.62	7.68
Oct	.92	1.24	1.73	2.16	2.58	3.02	3.51	4.09	4.84	6.02	7.12
Nov	.75	1.09	1.65	2.16	2.68	3.23	3.86	4.62	5.63	7.24	8.77
Dec	.76	1.10	1.62	2.10	2.59	3.10	3.68	4.38	5.30	6.77	8.15
Ann	33.66	36.11	39.23	41.59	43.69	45.71	47.79	50.08	52.86	56.87	60.33

\+ 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: 1948-2001
(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	7.2	5.2	1	#	16.3	1996	7	26.7	1996	23	1996	8	7	1996	4.3	2.1	.8	.3	.1	7.0	3.4	1.7	.6
Feb	7.7	5.7	1	#	16.6	1978	6	25.1	1978	20+	1994	11	12	1978	3.4	1.9	.9	.5	.1	6.9	4.2	2.6	1.1
Mar	3.4	2.4	#	#	11.1	1993	13	13.1	1984	10	1993	13	2	1993	1.7	.9	.5	.2	@	2.7	1.4	.7	@
Apr	.5	.0	#	0	8.8	1982	6	9.0	1982	9	1982	6	1	1982	.3	.1	@	@	.0	.2	.1	.1	.0
May	#	.0	0	0	#	1977	9	#	1977	0	0	0	0	0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	0	0	#	2000	29	#+	2000	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	#	#	0	4.5	1989	23	4.8	1989	4	1989	23	#+	1996	.3	.1	@	.0	.0	.2	.1	.0	.0
Dec	2.6	1.3	#	#	12.7	2000	30	14.4	2000	12	2000	31	1+	2000	1.9	.7	.3	.1	@	1.6	.4	.1	.1
Ann	21.8	14.6	N/A	N/A	16.6	Feb 1978	6	26.7	Jan 1996	23	Jan 1996	8	12	Feb 1978	11.9	5.8	2.5	1.1	.2	18.6	9.6	5.2	1.8

+ 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	4/21	4/18	4/15	4/13	4/11	4/09	4/07	4/05	4/01
32	4/13	4/09	4/06	4/04	4/01	3/30	3/28	3/25	3/21
28	4/07	4/02	3/30	3/27	3/24	3/21	3/18	3/15	3/10
24	3/29	3/23	3/19	3/16	3/13	3/10	3/06	3/02	2/25
20	3/25	3/18	3/13	3/09	3/05	3/01	2/25	2/20	2/13
16	3/14	3/06	2/28	2/23	2/19	2/14	2/09	2/04	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	10/26	10/30	11/02	11/05	11/08	11/12	11/16	11/21
32	11/02	11/07	11/11	11/14	11/18	11/21	11/24	11/28	12/03
28	11/14	11/19	11/23	11/26	11/29	12/01	12/04	12/08	12/13
24	11/22	11/29	12/03	12/07	12/11	12/14	12/18	12/23	12/29
20	12/04	12/09	12/13	12/16	12/20	12/23	12/26	12/30	1/05
16	12/09	12/16	12/21	12/26	12/30	1/03	1/08	1/13	1/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	227	220	215	211	207	203	199	194	187
32	253	245	239	234	229	225	220	214	206
28	271	264	258	253	249	244	240	234	226
24	296	288	282	277	272	267	262	257	248
20	316	306	300	294	289	283	278	271	262
16	342	332	325	319	314	308	302	295	285

***** 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	1003	835	692	381	126	7	0	0	21	250	522	844	4681
60	848	695	537	237	49	1	0	0	3	137	374	689	3570
57	755	611	444	160	23	0	0	0	1	87	289	597	2967
55	693	555	383	116	12	0	0	0	0	62	237	540	2598
50	547	422	242	39	2	0	0	0	0	20	126	398	1796
32	138	72	8	0	0	0	0	0	0	0	1	66	285

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	158	162	339	609	950	1189	1402	1361	1099	791	470	245	8775
55	0	0	1	35	249	499	689	648	409	139	15	7	2691
57	0	0	0	20	198	439	627	586	350	103	8	1	2332
60	0	0	0	6	131	349	534	493	262	60	2	0	1837
65	0	0	0	1	52	205	379	338	130	18	0	0	1123
70	0	0	0	0	13	88	227	188	37	3	0	0	556

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	39	55	148	375	708	951	1159	1117	868	550	257	79	39	94	242	617	1325	2276	3435	4552	5420	5970	6227	6306
45	9	20	70	235	553	801	1004	962	718	395	143	34	9	29	99	334	887	1688	2692	3654	4372	4767	4910	4944
50	0	4	28	125	398	651	849	807	568	252	67	6	0	4	32	157	555	1206	2055	2862	3430	3682	3749	3755
55	0	0	5	52	249	501	694	652	418	136	23	1	0	0	5	57	306	807	1501	2153	2571	2707	2730	2731
60	0	0	3	22	132	351	539	498	273	56	6	0	0	0	3	25	157	508	1047	1545	1818	1874	1880	1880
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	10	21	65	177	403	644	822	794	565	283	103	28	10	31	96	273	676	1320	2142	2936	3501	3784	3887	3915

(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