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: CAMDEN 2 NW, NY **COOP ID: 301110**

Climate Division: NY 6 **NWS Call Sign:** **Elevation: 530 Feet** **Lat: 43˚21N** **Lon: 75˚46W**

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	28.2	8.1	18.2	62	1995	16	27.4	1990	-38	1976	23	7.0	1994	1452	0	.0	.0	.8	20.1	29.8	8.3
Feb	30.4	8.5	19.5	60+	1984	24	28.1	1998	-41	1979	11	7.4	1979	1276	0	.0	.0	1.3	16.0	26.6	8.3
Mar	39.8	19.7	29.8	82+	1986	31	39.0	1973	-32	1980	2	22.3	1984	1093	0	.0	.0	6.5	7.2	26.4	2.9
Apr	52.9	31.8	42.4	89	1962	29	48.9	1987	0	1972	7	34.5	1975	679	0	.0	.0	18.0	.7	17.2	@
May	66.6	42.2	54.4	93	1977	22	60.0	1998	19+	1978	2	49.3	1997	336	7	.0	.3	29.3	.0	4.5	.0
Jun	74.8	50.7	62.8	93	1988	16	66.4	1999	27	1978	6	58.2	1985	112	45	.0	.6	30.0	.0	.5	.0
Jul	79.7	54.9	67.3	96	1964	29	70.3	1995	30	1978	1	62.4	1992	28	100	.0	1.3	31.0	.0	@	.0
Aug	77.9	54.3	66.1	94+	1995	4	70.2	1973	32	1982	29	62.6	1982	47	82	.0	.9	31.0	.0	@	.0
Sep	69.9	46.4	58.2	92	1973	5	62.2	1971	24	1978	26	55.4	1984	211	5	.0	.2	29.8	.0	2.2	.0
Oct	58.2	36.2	47.2	85+	1979	23	53.9	1971	13	1972	21	42.6	1992	553	0	.0	.0	25.5	.1	11.3	.0
Nov	45.6	28.9	37.3	74+	2001	3	42.8	1975	0	1967	15	32.5+	1996	832	0	.0	.0	9.7	2.8	20.0	@
Dec	33.7	17.5	25.6	68	1966	11	32.3	1998	-27	1989	27	9.3	1989	1221	0	.0	.0	1.5	12.4	28.9	3.5
Ann	54.8	33.3	44.1	96	Jul 1964	29	70.3	Jul 1995	-41	Feb 1979	11	7.0	Jan 1994	7840	239	.0	3.3	214.4	59.3	167.4	23.0

\+ 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

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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	4.55	4.23	1.57	1978	9	8.88	1978	1.67	1981
Feb	3.22	3.17	3.00	1966	1	6.91	1971	1.25	1987
Mar	3.97	3.90	1.97	1964	5	6.02	1976	2.01	1981
Apr	4.14	3.64	2.05	1992	12	7.75	1993	1.86	1971
May	4.30	3.90	3.55	1991	27	8.37	2000	.67	1977
Jun	4.37	4.27	5.37	1972	22	14.44	1972	1.55	1979
Jul	4.51	3.83	3.94	1977	13	10.01	1977	1.53	1979
Aug	4.36	4.33	3.06	1949	29	6.65	1977	1.78	1995
Sep	5.13	5.24	3.64	1975	26	8.86	1975	2.42	1988
Oct	4.27	3.99	2.96	1981	28	9.46	1981	.87	1994
Nov	4.98	4.88	2.72	1967	3	7.42	1977	2.47	1991
Dec	4.49	4.06	1.93	1983	13	8.76	1983	1.94	1989
Ann	52.29	51.45	5.37	Jun 1972	22	14.44	Jun 1972	.67	May 1977

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.7	11.4	2.5	.4
Feb	15.7	8.3	1.6	.3
Mar	15.8	10.3	2.3	.3
Apr	15.2	9.3	2.6	.6
May	15.0	9.3	2.9	.5
Jun	14.0	8.6	2.9	.8
Jul	12.3	7.4	2.6	.9
Aug	13.5	7.6	2.8	1.1
Sep	15.3	8.9	3.3	1.3
Oct	16.0	9.0	2.7	.8
Nov	17.5	11.7	3.0	.8
Dec	19.1	10.9	2.4	.7
Ann	189.1	112.7	31.6	8.5

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	1.83	2.25	2.84	3.33	3.79	4.26	4.76	5.35	6.09	7.22	8.25
Feb	1.40	1.69	2.09	2.42	2.73	3.04	3.38	3.76	4.25	4.99	5.66
Mar	2.23	2.54	2.95	3.27	3.56	3.85	4.15	4.49	4.91	5.54	6.10
Apr	1.87	2.24	2.74	3.16	3.54	3.93	4.34	4.82	5.41	6.32	7.13
May	1.40	1.81	2.41	2.92	3.41	3.92	4.48	5.13	5.97	7.27	8.48
Jun	1.56	1.97	2.56	3.06	3.54	4.03	4.57	5.19	5.99	7.21	8.34
Jul	1.52	1.94	2.57	3.10	3.60	4.13	4.70	5.37	6.23	7.56	8.79
Aug	2.22	2.58	3.07	3.47	3.83	4.19	4.57	5.01	5.55	6.36	7.09
Sep	2.64	3.07	3.64	4.10	4.52	4.94	5.38	5.88	6.51	7.45	8.28
Oct	1.52	1.92	2.50	2.99	3.46	3.94	4.46	5.06	5.84	7.04	8.14
Nov	2.72	3.11	3.64	4.06	4.44	4.82	5.22	5.67	6.23	7.07	7.81
Dec	1.90	2.31	2.88	3.35	3.79	4.23	4.71	5.26	5.95	7.01	7.96
Ann	41.76	43.89	46.57	48.56	50.31	51.99	53.70	55.57	57.82	61.03	63.77

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	39.7	33.0	12	9
Feb	27.6	25.7	16	13
Mar	15.0	12.8	9	6
Apr	2.9	2.0	1	#
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	8.2	6.6	#	#
Dec	27.3	26.3	5	3
Ann	120.8	106.4	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	23.0	1976	15	112.3	1978	60	1978	23	37	1978
Feb	19.0	1972	5	60.0	1972	43	1986	17	36	1978
Mar	12.0	1976	17	34.5	1984	42	1978	12	37	1978
Apr	5.8	1987	2	7.3+	1987	14	1972	7	11	1972
May	#	1989	8	#+	1989	#+	1989	8	#+	1989
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	.8	1976	28	.8	1976	1	1980	29	#+	1988
Nov	11.0	1976	23	34.3	1976	13	1976	24	3+	1995
Dec	25.0	1978	25	63.6	1978	40	1978	27	11+	1995
Ann	25.0	Dec 1978	25	112.3	Jan 1978	60	Jan 1978	23	37+	Mar 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	13.3	10.1	4.6	2.6	.4
Feb	9.8	7.7	3.1	1.5	.4
Mar	6.3	4.8	2.0	1.0	.1
Apr	1.9	1.4	.3	.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	.1	.0	.0	.0	.0
Nov	3.6	2.7	1.0	.5	.1
Dec	10.0	7.5	3.4	1.5	.3
Ann	45.0	34.2	14.4	7.2	1.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	26.2	23.7	19.4	13.1
Feb	26.1	25.5	23.1	16.5
Mar	14.5	12.5	10.6	7.3
Apr	2.0	.6	.3	.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
Nov	4.7	2.7	1.0	.2
Dec	19.6	15.3	8.6	4.2
Ann	93.1	80.3	63.0	41.3

+ 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	6/18	6/13	6/09	6/06	6/02	5/29	5/25	5/18
32	6/14	6/07	6/02	5/29	5/25	5/21	5/17	5/12	5/05
28	5/23	5/18	5/14	5/11	5/08	5/04	5/01	4/27	4/22
24	5/09	5/04	5/01	4/27	4/25	4/22	4/19	4/15	4/10
20	4/26	4/20	4/16	4/12	4/09	4/06	4/02	3/29	3/23
16	4/13	4/08	4/04	4/01	3/30	3/27	3/24	3/20	3/16

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	8/25	8/31	9/03	9/07	9/10	9/13	9/16	9/20	9/25
32	9/05	9/12	9/17	9/21	9/25	9/29	10/03	10/08	10/15
28	9/20	9/26	10/01	10/04	10/08	10/11	10/15	10/20	10/26
24	10/06	10/12	10/16	10/20	10/23	10/27	10/30	11/04	11/09
20	10/16	10/23	10/27	10/31	11/04	11/07	11/11	11/16	11/22
16	10/29	11/05	11/09	11/13	11/17	11/21	11/25	11/29	12/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	123	114	107	101	95	90	84	77	67
32	155	143	136	129	122	116	109	101	90
28	180	171	164	158	153	147	141	135	125
24	206	198	191	186	181	176	171	164	156
20	237	227	220	214	208	202	196	189	179
16	257	248	242	237	232	227	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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1452	1276	1093	679	336	112	28	47	211	553	832	1221	7840
60	1297	1136	938	530	206	41	2	8	95	401	682	1066	6402
57	1204	1052	845	444	142	18	0	1	49	315	592	973	5635
55	1142	996	783	388	107	9	0	0	30	262	532	911	5160
50	987	856	630	260	45	1	0	0	6	148	385	756	4074
32	458	385	180	19	0	0	0	0	0	2	38	280	1362

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	29	33	110	330	694	923	1095	1058	784	472	196	82	5806
55	0	0	0	9	88	242	382	345	124	19	0	0	1209
57	0	0	0	5	62	191	320	284	83	10	0	0	955
60	0	0	0	1	32	124	229	197	39	4	0	0	626
65	0	0	0	0	7	45	100	82	5	0	0	0	239
70	0	0	0	0	0	9	24	19	0	0	0	0	52

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	1	36	156	459	700	847	808	547	255	80	5	1	2	38	194	653	1353	2200	3008	3555	3810	3890	3895
45	0	0	15	86	318	550	692	653	405	147	38	0	0	0	15	101	419	969	1661	2314	2719	2866	2904	2904
50	0	0	3	45	199	403	537	500	268	74	13	0	0	0	3	48	247	650	1187	1687	1955	2029	2042	2042
55	0	0	0	20	108	265	382	349	158	30	3	0	0	0	0	20	128	393	775	1124	1282	1312	1315	1315
60	0	0	0	4	47	147	235	209	75	5	0	0	0	0	0	4	51	198	433	642	717	722	722	722
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	26	104	287	444	545	523	336	159	42	0	0	1	27	131	418	862	1407	1930	2266	2425	2467	2467

(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