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: JAMESTOWN 4 ENE, NY **COOP ID: 304207**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 1,250 Feet** **Lat: 42˚07N** **Lon: 79˚09W**

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	30.5	14.1	22.3	62	1998	8	33.4	1990	-25+	1984	23	9.2	1977	1324	0	.0	.0	1.8	17.1	29.4	5.5
Feb	33.5	15.1	24.3	69	1997	22	35.5	1998	-30	1979	12	11.9	1979	1140	0	.0	.0	2.9	13.9	26.3	4.9
Mar	43.2	24.6	33.9	82+	1998	31	41.7	1973	-23	1980	2	27.1	1978	964	0	.0	.0	9.8	6.2	25.6	1.4
Apr	54.5	35.0	44.8	92	1990	29	49.8	1990	2	1982	5	38.2	1975	609	0	.0	@	19.5	.7	17.7	.0
May	67.2	45.8	56.5	91	1991	17	64.9	1991	19	1987	1	50.5	1997	290	26	.0	.1	29.5	.0	5.5	.0
Jun	75.8	54.9	65.4	94+	1990	17	69.0	1973	27	1986	3	60.1	1992	66	77	.0	.8	29.9	.0	.3	.0
Jul	80.1	58.3	69.2	100	1988	17	72.9	1988	36+	1985	23	64.5	2000	12	143	@	2.0	31.0	.0	.0	.0
Aug	78.5	56.5	67.5	99	1988	3	71.5	1988	28	1986	29	63.0	1992	43	121	.0	1.2	31.0	.0	.1	.0
Sep	70.8	49.3	60.1	93	1991	16	64.8	1971	26+	1974	25	56.2	1976	170	21	.0	.1	30.0	.0	1.5	.0
Oct	58.7	38.4	48.6	84+	1991	3	55.8	1971	13+	1985	30	40.5	1987	511	1	.0	.0	25.0	.0	10.3	.0
Nov	46.3	31.3	38.8	79	1961	4	44.0	1985	3+	2000	24	30.7	1996	785	0	.0	.0	11.9	3.0	20.1	.0
Dec	35.0	21.9	28.5	73	1982	4	37.2	1982	-21+	1988	13	17.4	1989	1134	0	.0	.0	3.0	12.0	28.4	1.6
Ann	56.2	37.1	46.7	100	Jul 1988	17	72.9	Jul 1988	-30	Feb 1979	12	9.2	Jan 1977	7048	389	@	4.2	225.3	52.9	165.2	13.4

\+ 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: 1960-2001

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

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: JAMESTOWN 4 ENE, NY **COOP ID: 304207**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 1,250 Feet** **Lat: 42˚07N** **Lon: 79˚09W**

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	2.50	2.00	1999	7	6.12	1999	1.34	1983
Feb	2.59	2.59	1.88	1961	26	5.56	1990	.64	1978
Mar	2.97	2.60	2.00	1991	4	5.14	1985	1.49	1986
Apr	3.38	3.40	2.28	1961	25	5.69	1994	1.36	1971
May	3.74	3.37	2.40	1981	28	7.41	1984	.99	1993
Jun	5.10	4.90	3.94	1994	14	11.68	1972	.65	1991
Jul	4.53	4.05	2.94	1977	12	8.40	1992	1.67	1974
Aug	4.50	3.70	3.54	1977	6	9.28	1975	1.83	1996
Sep	4.55	4.54	2.85	1979	14	8.09	1977	1.80	1985
Oct	3.79	3.50	2.07	1984	29	6.22	1988	.91	1982
Nov	3.99	3.67	2.05	1999	3	8.96	1985	1.58	1991
Dec	3.56	3.28	1.96	1990	31	7.31	1990	1.77	1999
Ann	45.68	45.54	3.94	Jun 1994	14	11.68	Jun 1972	.64	Feb 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	16.1	8.7	1.3	.3
Feb	12.7	6.7	1.3	.1
Mar	13.1	7.9	1.5	.2
Apr	12.5	7.6	1.8	.5
May	11.7	7.3	2.2	.4
Jun	11.8	8.3	3.2	1.0
Jul	8.0	5.3	2.2	.9
Aug	11.4	7.3	2.8	.8
Sep	11.4	7.8	2.9	.9
Oct	12.4	8.2	2.1	.6
Nov	14.2	9.1	2.6	.4
Dec	16.2	9.5	1.9	.2
Ann	151.5	93.7	25.8	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	1.23	1.50	1.89	2.20	2.50	2.80	3.13	3.50	3.98	4.70	5.36
Feb	.87	1.12	1.48	1.78	2.07	2.37	2.70	3.08	3.57	4.33	5.03
Mar	1.43	1.68	2.03	2.31	2.58	2.84	3.12	3.43	3.83	4.43	4.97
Apr	1.62	1.91	2.31	2.63	2.93	3.22	3.54	3.90	4.36	5.04	5.66
May	1.37	1.72	2.22	2.64	3.05	3.46	3.91	4.43	5.09	6.11	7.05
Jun	1.28	1.76	2.50	3.16	3.81	4.49	5.25	6.16	7.35	9.22	10.98
Jul	1.99	2.39	2.96	3.42	3.85	4.28	4.75	5.29	5.96	6.98	7.91
Aug	1.75	2.17	2.76	3.25	3.72	4.19	4.71	5.30	6.06	7.22	8.28
Sep	1.96	2.37	2.94	3.41	3.85	4.30	4.77	5.32	6.01	7.06	8.01
Oct	1.68	2.01	2.49	2.87	3.23	3.59	3.98	4.42	4.98	5.83	6.60
Nov	1.65	2.01	2.52	2.95	3.34	3.75	4.18	4.68	5.31	6.28	7.16
Dec	1.83	2.12	2.52	2.84	3.13	3.42	3.73	4.08	4.51	5.16	5.74
Ann	35.88	37.85	40.33	42.18	43.81	45.37	46.97	48.72	50.82	53.84	56.41

\+ 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: 1960-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: JAMESTOWN 4 ENE, NY **COOP ID: 304207**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 1,250 Feet** **Lat: 42°07N** **Lon: 79°09W**

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	32.7	34.0	7	6	11.0	1996	3	47.4	1978	25	1977	28	16	1994	11.1	9.3	3.4	1.2	.1	-9.9	-9.9	-9.9	-9.9
Feb	15.5	15.0	7	5	12.0	1995	6	34.5	1979	33	1977	9	18	1977	6.5	5.2	1.7	.6	.1	18.2	14.6	12.7	6.5
Mar	10.7	12.5	3	1	15.0	1993	15	21.8	1992	27	1993	15	12	1993	4.7	3.9	1.3	.5	@	10.9	6.4	3.9	1.1
Apr	3.2	1.0	#	#	8.0	1975	5	13.5	1975	12	1975	5	1	1982	1.3	1.1	.3	.2	.0	1.4	.5	.3	.1
May	.0	.0	#	0	.5	1976	4	.5	1976	1	1976	4	#	1976	@	.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	.6	.0	#	0	4.0	1976	22	8.0	1976	4	1976	22	#+	2000	.4	.3	.1	.0	.0	.4	.1	.0	.0
Nov	7.3	3.0	1	1	12.0	1995	16	34.0	1976	18	1995	16	5	1995	2.8	2.5	1.2	.6	.1	3.6	2.0	1.1	.2
Dec	24.2	23.3	4	4	14.0	1982	21	46.0	1981	21	1982	21	11	1989	8.2	6.5	2.7	1.1	.2	-9.9	-9.9	-9.9	-9.9
Ann	94.2	88.8	N/A	N/A	15.0	Mar 1993	15	47.4	Jan 1978	33	Feb 1977	9	18	Feb 1977	35.0	28.8	10.7	4.2	.5	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: JAMESTOWN 4 ENE, NY **COOP ID: 304207**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 1,250 Feet** **Lat: 42˚07N** **Lon: 79˚09W**

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	6/25	6/18	6/13	6/09	6/05	6/01	5/27	5/22	5/15
32	6/07	5/31	5/27	5/23	5/20	5/16	5/13	5/08	5/02
28	5/21	5/15	5/11	5/07	5/04	4/30	4/26	4/22	4/16
24	5/05	4/30	4/26	4/22	4/19	4/16	4/12	4/09	4/03
20	4/27	4/21	4/16	4/12	4/09	4/05	4/02	3/28	3/22
16	4/10	4/05	4/02	3/31	3/28	3/26	3/23	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	9/03	9/07	9/11	9/14	9/17	9/19	9/22	9/26	9/30
32	9/10	9/17	9/22	9/26	9/30	10/03	10/08	10/12	10/19
28	9/24	10/02	10/07	10/12	10/16	10/20	10/25	10/30	11/06
24	10/12	10/18	10/23	10/27	10/31	11/04	11/08	11/13	11/19
20	10/18	10/26	11/01	11/05	11/10	11/15	11/20	11/25	12/03
16	11/02	11/10	11/16	11/20	11/25	11/30	12/05	12/10	12/18

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	129	120	114	108	103	98	92	86	77
32	161	151	144	138	132	126	120	113	103
28	200	188	179	172	165	158	150	142	129
24	225	214	207	200	194	188	182	174	164
20	250	238	229	222	215	207	200	191	179
16	269	259	252	246	241	235	230	223	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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: JAMESTOWN 4 ENE, NY **COOP ID: 304207**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 1,250 Feet** **Lat: 42˚07N** **Lon: 79˚09W**

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	1324	1140	964	609	290	66	12	43	170	511	785	1134	7048
60	1169	1000	809	460	178	19	0	9	74	364	635	979	5696
57	1076	916	716	373	125	7	0	2	38	283	546	886	4968
55	1014	860	654	318	95	4	0	0	23	234	488	824	4514
50	859	720	508	194	41	0	0	0	4	133	351	672	3482
32	356	279	114	4	0	0	0	0	0	3	43	220	1019

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	55	63	173	386	758	1001	1153	1100	842	516	248	109	6404
55	0	0	0	9	140	315	440	387	175	34	4	0	1504
57	0	0	0	5	108	258	378	328	130	21	1	0	1229
60	0	0	0	2	69	180	285	242	75	9	0	0	862
65	0	0	0	0	26	77	143	121	21	1	0	0	389
70	0	0	0	0	7	19	46	43	3	0	0	0	118

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	7	10	63	175	457	709	856	815	581	270	89	15	7	17	80	255	712	1421	2277	3092	3673	3943	4032	4047
45	0	1	33	98	317	559	701	660	433	156	40	5	0	1	34	132	449	1008	1709	2369	2802	2958	2998	3003
50	0	0	9	48	198	409	546	506	291	76	16	1	0	0	9	57	255	664	1210	1716	2007	2083	2099	2100
55	0	0	2	19	104	274	391	352	173	31	3	0	0	0	2	21	125	399	790	1142	1315	1346	1349	1349
60	0	0	0	8	46	154	241	210	90	5	0	0	0	0	0	8	54	208	449	659	749	754	754	754
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	7	46	123	292	454	555	524	359	169	58	8	0	7	53	176	468	922	1477	2001	2360	2529	2587	2595

(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