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: OSWEGO EAST, NY **COOP ID: 306314**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 43˚28N** **Lon: 76˚30W**

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	16.7	23.6	69	1950	25	32.5	1990	-21	1957	15	13.8	1994	1284	0	.0	.0	1.2	17.7	28.6	3.1
Feb	32.5	18.2	25.4	63+	2000	27	32.7	1984	-21	1934	9	14.4	1979	1110	0	.0	.0	1.8	14.9	25.3	2.0
Mar	41.4	26.4	33.9	83+	1998	31	41.1	1973	-9	1950	4	26.9	1984	965	0	.0	.0	6.7	6.7	23.1	.2
Apr	53.1	36.3	44.7	90	1990	28	50.1	1987	13	1982	7	38.6	1975	609	0	.0	@	17.0	.4	9.8	.0
May	65.7	46.2	56.0	91	1987	30	62.6	1998	28+	1978	4	51.0	1997	296	16	.0	@	29.7	.0	.5	.0
Jun	75.2	55.4	65.3	96+	1953	21	69.8	1999	36+	1986	3	60.8	1980	74	82	.0	.4	30.0	.0	.0	.0
Jul	80.0	61.6	70.8	95+	1964	28	74.8	1999	44	1969	8	65.4	1992	9	189	.0	1.5	31.0	.0	.0	.0
Aug	78.2	60.5	69.4	96	1944	11	72.8	1995	42	1969	27	66.3	1982	15	150	.0	.6	31.0	.0	.0	.0
Sep	70.5	53.5	62.0	96	1953	5	66.6	1999	30+	1991	30	58.5	1975	121	29	.0	.1	30.0	.0	.1	.0
Oct	58.9	43.2	51.1	86	1937	6	56.8	1971	21	1972	20	46.4	1972	433	1	.0	.0	26.2	.0	2.6	.0
Nov	46.7	34.5	40.6	78+	1950	1	46.8	1999	5	1933	16	35.5	1996	732	0	.0	.0	11.0	1.5	12.2	.0
Dec	35.7	23.6	29.7	69	1998	7	36.9	1998	-23	1933	29	16.2	1989	1096	0	.0	.0	2.6	10.6	24.9	.6
Ann	55.7	39.7	47.7	96+	Sep 1953	5	74.8	Jul 1999	-23	Dec 1933	29	13.8	Jan 1994	6744	467	.0	2.6	218.2	51.8	127.1	5.9

\+ 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: 1926-2001

(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: OSWEGO EAST, NY **COOP ID: 306314**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 43˚28N** **Lon: 76˚30W**

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	3.79	3.63	2.47	1998	8	8.43	1978	1.55	1981
Feb	2.83	2.48	2.15	1961	26	5.33	1971	.67	1987
Mar	3.36	3.19	2.69	1971	4	5.60	1992	1.13	1981
Apr	3.32	3.07	1.45	1969	19	5.74	1973	1.39	1999
May	3.17	2.96	2.08	2000	13	6.12	1990	.92	1977
Jun	3.42	3.36	2.07	1970	18	6.78	1976	1.19	1983
Jul	3.03	2.73	3.80	1974	3	9.35	1992	1.09	1978
Aug	3.80	3.59	2.92	1992	29	7.86	1992	1.46	1999
Sep	4.17	3.77	3.32	1975	26	7.55	1975	2.07	1998
Oct	3.77	3.62	3.32	1995	21	8.10	1995	.91	1994
Nov	4.47	4.46	3.25	1963	30	7.00	1995	1.68	1978
Dec	3.80	3.83	2.50	1958	8	6.26	1990	1.71	1998
Ann	42.93	41.11	3.80	Jul 1974	3	9.35	Jul 1992	.67	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	20.5	10.2	1.8	.3
Feb	16.3	8.3	1.3	.2
Mar	15.6	8.9	1.8	.3
Apr	13.7	8.3	2.1	.3
May	13.1	7.7	2.0	.4
Jun	11.8	7.7	2.4	.4
Jul	10.2	6.4	2.1	.5
Aug	11.1	7.1	2.2	1.0
Sep	12.8	8.1	3.0	.8
Oct	14.0	8.3	2.5	.7
Nov	17.1	10.6	2.6	.7
Dec	19.2	10.5	2.0	.2
Ann	175.4	102.1	25.8	5.8

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	1.59	1.93	2.42	2.81	3.19	3.56	3.97	4.44	5.03	5.93	6.75
Feb	1.16	1.42	1.78	2.08	2.37	2.66	2.97	3.33	3.78	4.48	5.11
Mar	1.76	2.03	2.41	2.70	2.97	3.24	3.52	3.85	4.25	4.85	5.38
Apr	1.27	1.58	2.02	2.39	2.73	3.09	3.47	3.91	4.48	5.34	6.13
May	1.11	1.41	1.85	2.21	2.56	2.92	3.31	3.77	4.35	5.26	6.08
Jun	1.35	1.67	2.12	2.49	2.84	3.19	3.58	4.02	4.59	5.45	6.24
Jul	.98	1.26	1.69	2.05	2.40	2.76	3.15	3.62	4.21	5.14	5.99
Aug	1.71	2.05	2.51	2.89	3.25	3.60	3.98	4.42	4.97	5.80	6.55
Sep	2.23	2.56	3.02	3.37	3.70	4.03	4.37	4.76	5.24	5.97	6.61
Oct	1.32	1.67	2.19	2.63	3.04	3.47	3.94	4.48	5.18	6.25	7.24
Nov	2.51	2.85	3.31	3.68	4.01	4.33	4.68	5.06	5.54	6.26	6.89
Dec	2.10	2.40	2.80	3.11	3.40	3.68	3.98	4.31	4.73	5.35	5.90
Ann	35.43	36.96	38.88	40.31	41.55	42.74	43.95	45.27	46.85	49.09	51.00

\+ 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: 1926-2001
(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: OSWEGO EAST, NY **COOP ID: 306314**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 43°28N** **Lon: 76°30W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	44.3	37.3	11	10
Feb	34.0	27.2	14	11
Mar	17.4	13.8	6	4
Apr	4.3	3.3	#	#
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.4	.0	#	0
Nov	9.3	6.5	1	#
Dec	26.4	26.7	4	3
Ann	136.1	114.8	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	32.0	1974	13	120.3	1978	60	1978	21	34	1994
Feb	32.0	1972	5	93.1	1972	54	1978	2	39	1978
Mar	20.0	1971	4	53.6	1971	36	1971	4	22	1993
Apr	9.0	1983	20	17.9	1983	7	1983	20	2	1975
May	.1	1973	17	.1+	1977	0	0	0	0	0
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	#	1993	30	#+	1993	0	0	0	0	0
Oct	3.8	1972	19	3.8	1972	2	1997	23	#+	2000
Nov	12.9	1976	12	36.9	1976	12	1997	16	2	1997
Dec	25.0	1995	12	69.9	1995	30+	1995	12	14	1995
Ann	32.0+	Jan 1974	13	120.3	Jan 1978	60	Jan 1978	21	39	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	19.3	10.8	5.5	2.9	.9
Feb	14.3	8.2	3.7	1.9	.4
Mar	10.2	5.1	2.2	.8	.2
Apr	3.0	1.4	.4	.2	.0
May	.1	.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	.5	.1	.1	.0	.0
Nov	5.5	2.7	.8	.6	.1
Dec	15.0	7.9	3.5	1.7	.5
Ann	67.9	36.2	16.2	8.1	2.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	24.0	19.9	17.5	10.9
Feb	23.5	21.1	19.7	15.1
Mar	16.6	13.1	11.3	7.7
Apr	2.0	1.0	.6	.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	.1	.0	.0	.0
Nov	4.9	2.6	1.3	.1
Dec	16.5	11.0	7.8	3.7
Ann	87.6	68.7	58.2	37.5

+ 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: OSWEGO EAST, NY **COOP ID: 306314**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 43˚28N** **Lon: 76˚30W**

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	5/26	5/21	5/18	5/15	5/12	5/10	5/07	5/04	4/29
32	5/11	5/07	5/04	5/01	4/28	4/26	4/23	4/20	4/16
28	4/26	4/22	4/19	4/17	4/14	4/12	4/09	4/07	4/02
24	4/13	4/09	4/06	4/03	4/01	3/30	3/27	3/24	3/20
20	4/05	4/02	3/30	3/28	3/26	3/24	3/22	3/19	3/15
16	3/31	3/27	3/25	3/22	3/20	3/18	3/16	3/13	3/09

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	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/16	10/21
32	9/30	10/06	10/10	10/13	10/16	10/19	10/22	10/26	10/31
28	10/19	10/24	10/27	10/30	11/02	11/05	11/08	11/11	11/16
24	11/04	11/09	11/13	11/16	11/19	11/22	11/25	11/28	12/03
20	11/15	11/20	11/24	11/27	11/30	12/02	12/05	12/09	12/14
16	11/22	11/27	11/30	12/03	12/06	12/08	12/11	12/15	12/19

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	165	159	154	150	146	142	138	133	126
32	192	184	179	174	170	165	161	155	148
28	223	215	210	205	201	197	192	187	179
24	251	244	239	235	231	227	223	218	211
20	266	260	255	252	248	244	240	236	229
16	279	272	268	264	260	256	252	247	241

***** 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: OSWEGO EAST, NY **COOP ID: 306314**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 43˚28N** **Lon: 76˚30W**

Degree Days to Selected Base Temperatures (˚F)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1284	1110	965	609	296	74	9	15	121	433	732	1096	6744
60	1129	970	810	461	177	23	0	1	42	289	582	941	5425
57	1036	886	717	374	120	9	0	0	18	212	492	848	4712
55	974	830	655	319	89	5	0	0	9	167	433	786	4267
50	819	690	506	196	35	0	0	0	1	80	295	635	3257
32	309	242	105	6	0	0	0	0	0	0	20	192	874

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	48	55	163	386	742	998	1203	1159	899	591	278	119	6641
55	0	0	0	10	119	313	490	446	218	45	1	0	1642
57	0	0	0	5	88	258	428	384	167	28	0	0	1358
60	0	0	0	2	51	182	335	291	101	12	0	0	974
65	0	0	0	0	16	82	189	150	29	1	0	0	467
70	0	0	0	0	3	24	76	53	3	0	0	0	159

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	8	58	197	509	768	966	921	669	357	119	21	7	15	73	270	779	1547	2513	3434	4103	4460	4579	4600
45	1	0	30	111	359	618	811	766	519	225	55	5	1	1	31	142	501	1119	1930	2696	3215	3440	3495	3500
50	0	0	12	57	225	468	656	611	371	122	21	1	0	0	12	69	294	762	1418	2029	2400	2522	2543	2544
55	0	0	5	28	124	325	501	456	235	52	3	0	0	0	5	33	157	482	983	1439	1674	1726	1729	1729
60	0	0	1	11	57	194	346	302	123	17	0	0	0	0	1	12	69	263	609	911	1034	1051	1051	1051
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	2	33	107	281	482	650	610	396	170	47	6	0	2	35	142	423	905	1555	2165	2561	2731	2778	2784

(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