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: OLD FORGE, NY **COOP ID: 306184**

Climate Division: NY 3 **NWS Call Sign:** **Elevation: 1,720 Feet** **Lat: 43˚42N** **Lon: 74˚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	25.1	2.2	13.7	59+	1995	16	24.7	1990	-43+	1981	12	2.6	1977	1592	0	.0	.0	.6	23.6	30.5	14.0
Feb	28.3	4.2	16.3	58	1994	21	25.5	1998	-48	1979	14	4.9	1979	1364	0	.0	.0	.8	18.7	27.6	12.3
Mar	37.3	15.2	26.3	76	1990	16	35.7	1973	-36	1980	2	17.1	1984	1201	0	.0	.0	4.7	10.0	28.9	6.0
Apr	49.4	28.0	38.7	86	1990	29	45.3	1987	-10+	1972	7	30.8	1975	790	0	.0	.0	14.4	1.9	22.6	.2
May	63.1	40.0	51.6	87+	1987	30	56.6	1991	16+	1984	3	44.4	1997	423	7	.0	.0	28.1	.1	9.0	.0
Jun	70.7	49.1	59.9	92	1953	21	63.4+	1976	24	1977	9	54.8	1985	170	17	.0	.0	29.8	.0	1.3	.0
Jul	74.6	53.5	64.1	93	1949	3	66.9	1995	30+	1983	10	60.4	1992	76	48	.0	.2	31.0	.0	.2	.0
Aug	72.8	52.2	62.5	93	1952	27	66.3	1973	23	1982	29	58.9	1982	112	35	.0	.1	31.0	.0	.3	.0
Sep	64.9	44.5	54.7	94	1953	3	59.8	1971	18	1957	28	51.5	1975	309	1	.0	.0	29.0	.0	4.4	.0
Oct	54.6	33.9	44.3	84	1950	2	52.9	1971	3	1976	28	38.8	1976	644	0	.0	.0	20.3	.4	17.1	.0
Nov	41.5	24.6	33.1	76	1950	1	38.4	1979	-12+	1951	28	25.2	1976	958	0	.0	.0	6.9	7.2	24.9	1.0
Dec	30.6	11.2	20.9	62	2001	7	28.9	1984	-38+	1980	25	2.4	1989	1368	0	.0	.0	1.2	19.1	30.0	8.4
Ann	51.1	29.9	40.5	94	Sep 1953	3	66.9	Jul 1995	-48	Feb 1979	14	2.4	Dec 1989	9007	108	.0	.3	197.8	81.0	196.8	41.9

\+ 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: 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	4.15	3.70	3.58	1998	8	8.43	1998	1.09	1981
Feb	2.96	2.91	2.09	1951	7	7.48	1971	1.05	1978
Mar	3.70	3.63	3.19	1971	4	10.09	1971	1.40	1995
Apr	3.69	3.32	1.90	1990	4	7.56	1993	1.33	1999
May	4.14	3.98	3.25	1991	27	7.74	1990	1.20	1980
Jun	4.14	4.01	3.10	1972	15	11.06	1972	.86	1995
Jul	4.57	4.31	3.11	2000	10	7.82	1980	1.78	1993
Aug	4.52	4.73	3.82	1998	24	7.60	1998	1.22	1999
Sep	5.07	4.98	3.89	1985	27	8.25	1975	1.96	1998
Oct	4.33	3.97	3.04	1995	22	8.98	1995	.88	1994
Nov	4.84	4.68	4.05	1996	9	7.84	1989	2.31	1981
Dec	4.28	3.67	3.85	1984	29	9.07	1984	1.76	1989
Ann	50.39	50.75	4.05	Nov 1996	9	11.06	Jun 1972	.86	Jun 1995

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.1	11.4	2.4	.2
Feb	14.5	8.0	1.4	.3
Mar	15.6	9.0	2.3	.5
Apr	13.6	8.9	2.4	.5
May	14.1	9.5	2.8	.5
Jun	13.7	9.1	2.6	.6
Jul	12.2	8.8	2.9	1.1
Aug	12.8	8.5	3.2	1.0
Sep	13.0	8.8	3.5	1.4
Oct	14.1	9.8	2.7	.9
Nov	17.2	11.4	2.7	.8
Dec	18.7	10.5	2.3	.7
Ann	178.6	113.7	31.2	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	1.80	2.17	2.69	3.12	3.52	3.92	4.35	4.84	5.47	6.42	7.28
Feb	1.24	1.51	1.89	2.20	2.49	2.78	3.10	3.46	3.93	4.63	5.26
Mar	1.57	1.91	2.38	2.76	3.12	3.49	3.88	4.33	4.90	5.77	6.56
Apr	1.51	1.85	2.32	2.71	3.08	3.46	3.86	4.33	4.92	5.83	6.65
May	1.46	1.85	2.41	2.89	3.35	3.81	4.32	4.92	5.68	6.86	7.94
Jun	1.24	1.64	2.23	2.74	3.23	3.74	4.31	4.97	5.83	7.17	8.42
Jul	2.07	2.48	3.04	3.49	3.92	4.34	4.80	5.32	5.98	6.97	7.87
Aug	2.05	2.45	3.00	3.45	3.87	4.29	4.74	5.25	5.90	6.88	7.77
Sep	2.43	2.86	3.46	3.94	4.39	4.84	5.31	5.86	6.54	7.56	8.49
Oct	1.58	1.98	2.57	3.06	3.53	4.01	4.53	5.14	5.91	7.10	8.20
Nov	2.59	2.98	3.50	3.92	4.29	4.67	5.07	5.52	6.08	6.91	7.65
Dec	1.65	2.05	2.62	3.09	3.53	3.99	4.48	5.05	5.78	6.89	7.90
Ann	41.94	43.68	45.85	47.45	48.86	50.19	51.55	53.04	54.81	57.33	59.46

\+ 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	56.8	54.0	21	20
Feb	33.4	30.5	26	26
Mar	27.4	16.6	22	20
Apr	12.4	9.5	7	2
May	2.2	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	3.3	1.0	#	#
Nov	22.9	19.5	3	2
Dec	36.3	35.6	10	8
Ann	194.7	166.7	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	18.0	1978	20	75.5	1987	59	1971	30	41	1978
Feb	20.0	1979	5	77.8	1975	56	1971	1	50	1971
Mar	31.0	1971	4	120.0	1971	82	1971	5	62	1971
Apr	17.0	1979	6	41.0	1979	54	1971	2	39	1971
May	14.0	1976	19	18.5	1976	22	1971	4	6	1971
Jun	.5	1980	9	.5	1980	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	.3	1980	27	.3	1980	0	0	0	0	0
Oct	12.0	1980	26	23.0	1980	7	1988	23	1	1997
Nov	17.0	1977	18	44.0	1977	19	1976	25	6	1997
Dec	28.0	1978	25	70.8	1985	44	1978	26	25	1977
Ann	31.0	Mar 1971	4	120.0	Mar 1971	82	Mar 1971	5	62	Mar 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	17.1	13.4	6.8	3.1	.6
Feb	13.1	9.7	4.6	1.9	.4
Mar	11.8	8.5	3.6	2.0	.5
Apr	5.1	3.7	1.4	.7	.1
May	1.0	.6	.2	.1	.1
Jun	@	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	.0	.0	.0	.0
Oct	2.3	1.2	.3	.1	@
Nov	9.4	7.3	2.8	1.2	.2
Dec	15.3	11.8	5.4	2.5	.5
Ann	75.1	56.2	25.1	11.6	2.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	29.0	28.8	27.4	25.1
Feb	26.2	26.2	25.9	23.6
Mar	26.6	25.2	23.4	20.5
Apr	11.1	10.2	8.6	6.4
May	1.0	.6	.5	.3
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	1.4	.8	.3	.0
Nov	13.6	9.9	6.2	1.6
Dec	24.9	21.7	17.9	11.7
Ann	133.8	123.4	110.2	89.2

+ 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	7/19	7/09	7/03	6/27	6/21	6/16	6/10	6/03	5/25
32	7/01	6/23	6/17	6/12	6/07	6/02	5/28	5/22	5/13
28	6/12	6/04	5/30	5/25	5/21	5/16	5/12	5/06	4/29
24	5/19	5/14	5/10	5/06	5/03	4/30	4/27	4/23	4/17
20	5/09	5/03	4/28	4/25	4/21	4/18	4/14	4/10	4/04
16	4/29	4/23	4/19	4/16	4/12	4/09	4/06	4/02	3/27

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	8/11	8/18	8/23	8/27	8/31	9/04	9/08	9/12	9/19
32	8/28	9/03	9/06	9/10	9/13	9/16	9/19	9/23	9/28
28	9/09	9/14	9/19	9/22	9/26	9/29	10/03	10/07	10/13
24	9/19	9/25	9/30	10/04	10/07	10/11	10/15	10/19	10/26
20	10/01	10/08	10/12	10/16	10/20	10/24	10/28	11/02	11/08
16	10/13	10/20	10/25	10/29	11/02	11/06	11/10	11/15	11/22

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	110	96	86	78	70	62	53	43	29
32	133	121	112	104	97	90	83	74	62
28	160	149	141	134	127	121	114	106	95
24	179	172	166	161	156	152	147	141	133
20	212	201	194	187	181	175	169	161	150
16	235	224	216	209	203	197	190	182	171

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1592	1364	1201	790	423	170	76	112	309	644	958	1368	9007
60	1437	1224	1046	640	287	74	15	34	170	492	808	1213	7440
57	1344	1140	953	552	217	37	4	11	103	404	718	1120	6603
55	1282	1084	891	494	176	22	0	5	69	348	658	1058	6087
50	1127	944	736	355	94	4	0	0	20	224	509	903	4916
32	590	457	248	42	1	0	0	0	0	11	91	404	1844

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	20	16	70	242	608	837	994	947	682	390	123	59	4988
55	0	0	0	4	69	169	282	238	61	14	0	0	837
57	0	0	0	2	48	124	224	183	35	8	0	0	624
60	0	0	0	0	25	71	141	112	12	3	0	0	364
65	0	0	0	0	7	17	48	35	1	0	0	0	108
70	0	0	0	0	0	1	7	5	0	0	0	0	13

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	0	11	94	370	597	753	689	437	170	38	2	1	1	12	106	476	1073	1826	2515	2952	3122	3160	3162
45	0	0	3	45	237	448	598	534	298	88	15	0	0	0	3	48	285	733	1331	1865	2163	2251	2266	2266
50	0	0	0	19	136	304	443	382	176	36	5	0	0	0	0	19	155	459	902	1284	1460	1496	1501	1501
55	0	0	0	6	64	179	290	240	90	7	0	0	0	0	0	6	70	249	539	779	869	876	876	876
60	0	0	0	0	22	86	155	115	31	0	0	0	0	0	0	0	22	108	263	378	409	409	409	409
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	16	78	243	369	475	425	261	108	23	0	0	0	16	94	337	706	1181	1606	1867	1975	1998	1998

(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