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: GREENPORT POWER HOUSE, NY **COOP ID: 303464**

Climate Division: NY 4 **NWS Call Sign:** **Elevation: 16 Feet** **Lat: 41˚06N** **Lon: 72˚22W**

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	37.9	23.7	30.8	63+	1967	27	37.3	1998	-6	1984	22	22.7	1977	1061	0	.0	.0	3.4	8.6	26.2	.5
Feb	38.9	24.8	31.9	67	1976	26	37.2	1997	-1+	1979	14	22.0	1979	928	0	.0	.0	3.7	7.2	22.6	.4
Mar	46.1	31.3	38.7	76	1998	30	42.8	2000	0	1967	2	34.2	1984	816	0	.0	.0	10.3	1.6	17.9	.0
Apr	55.1	39.7	47.4	92	1977	14	51.1	1976	16	1982	7	41.7	1972	528	0	.0	@	22.7	.1	4.3	.0
May	65.7	49.6	57.7	95	1964	25	61.2	1991	27	1967	1	55.2	1997	234	5	.0	@	30.8	.0	.1	.0
Jun	74.4	59.1	66.8	92	1960	30	70.2	1999	34	1961	2	62.7	1982	37	91	.0	.6	30.0	.0	@	.0
Jul	80.1	65.6	72.9	97	1963	28	76.4	1999	45	1968	30	69.5	2000	1	244	.0	1.4	31.0	.0	.2	.0
Aug	79.4	65.1	72.3	98	1960	28	75.3	1980	40	1965	31	69.5	1992	1	225	.0	.4	31.0	.0	.0	.0
Sep	72.7	58.6	65.7	94	1983	11	70.0	1983	30	1963	30	63.4	1978	51	71	.0	.2	30.0	.0	.1	.0
Oct	62.8	48.0	55.4	82+	1975	16	61.7	1971	23	1966	31	51.1	1988	305	7	.0	.0	30.0	.0	2.7	.0
Nov	53.2	39.8	46.5	76	1974	2	51.1	1979	17	1987	22	42.2	1996	555	0	.0	.0	18.8	.3	6.6	.0
Dec	43.4	29.8	36.6	72	1998	8	41.9	1998	-7	1980	26	24.2	1989	880	0	.0	.0	7.6	4.1	20.1	.1
Ann	59.1	44.6	51.9	98	Aug 1960	28	76.4	Jul 1999	-7	Dec 1980	26	22.0	Feb 1979	5397	643	.0	2.6	249.3	21.9	100.8	1.0

\+ 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: 1958-2000

(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	4.11	3.82	3.06	1979	25	13.35	1979	.80	1981
Feb	3.51	3.01	2.44	1984	29	7.05	1984	.81	1980
Mar	4.02	4.03	3.34	1988	27	6.93	1983	1.07	1981
Apr	4.09	3.99	2.85	1983	11	10.19	1983	1.48	1985
May	3.47	3.35	2.15	1967	27	6.17	1989	.62	1993
Jun	3.73	3.03	8.32	1982	6	15.98	1982	.56	1999
Jul	3.15	2.56	3.97	1973	21	8.86	1984	.58	1994
Aug	4.59	4.07	5.65	1978	12	10.83	1976	.45	1984
Sep	3.55	3.45	3.54	1961	21	7.43	1999	.89	1986
Oct	3.72	3.56	4.88	1996	20	8.25	1996	.73	1994
Nov	4.04	3.74	2.52	1983	16	10.02	1983	.73	1976
Dec	3.93	3.77	2.53	1974	2	6.72	1986	1.11	1998
Ann	45.91	44.96	8.32	Jun 1982	6	15.98	Jun 1982	.45	Aug 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.8	6.9	2.8	1.0
Feb	8.7	6.1	2.3	.9
Mar	10.0	6.3	2.6	1.0
Apr	10.6	6.8	2.7	1.1
May	11.5	6.9	2.3	.7
Jun	9.5	5.6	2.2	1.0
Jul	8.3	5.1	2.0	.9
Aug	8.2	5.9	2.9	1.2
Sep	8.7	5.9	2.5	1.1
Oct	8.7	5.7	2.4	1.1
Nov	9.2	6.4	2.7	1.0
Dec	10.9	7.3	2.7	1.0
Ann	114.1	74.9	30.1	12.0

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	1.08	1.47	2.06	2.59	3.10	3.65	4.25	4.96	5.90	7.37	8.74
Feb	1.20	1.53	2.02	2.43	2.82	3.22	3.66	4.18	4.83	5.85	6.79
Mar	1.69	2.05	2.57	2.99	3.38	3.78	4.21	4.71	5.33	6.29	7.16
Apr	1.31	1.70	2.28	2.76	3.24	3.72	4.26	4.89	5.69	6.95	8.11
May	1.09	1.42	1.91	2.33	2.73	3.15	3.61	4.15	4.85	5.93	6.93
Jun	.56	.88	1.42	1.94	2.47	3.06	3.73	4.56	5.67	7.47	9.20
Jul	.56	.84	1.29	1.72	2.16	2.64	3.18	3.84	4.71	6.12	7.46
Aug	.94	1.35	2.03	2.64	3.26	3.93	4.68	5.58	6.78	8.69	10.50
Sep	1.27	1.60	2.09	2.49	2.88	3.28	3.71	4.22	4.86	5.86	6.77
Oct	1.23	1.59	2.10	2.54	2.97	3.41	3.88	4.44	5.16	6.28	7.31
Nov	1.07	1.45	2.04	2.55	3.06	3.59	4.18	4.88	5.79	7.23	8.57
Dec	1.19	1.56	2.12	2.60	3.07	3.55	4.08	4.71	5.52	6.79	7.97
Ann	33.87	36.23	39.24	41.52	43.53	45.47	47.47	49.67	52.32	56.16	59.47

\+ 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: 1958-2000
(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	8.3	7.9	1	#
Feb	7.6	8.3	2	#
Mar	2.8	.0	#	#
Apr	.4	.0	#	0
May	#	.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	.0	#	0
Dec	2.5	.0	#	0
Ann	22.0	16.2	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	20.0	1996	8	25.5	1996	22	1996	8	6	1996
Feb	10.0	1996	3	15.8	1975	17	1978	7	17	1978
Mar	7.5	1978	4	13.0	1978	5	1996	3	3	1984
Apr	7.0	1996	10	7.5	1996	5	1996	10	#+	1997
May	#	1977	11	#	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	.0	0	0	.0	0	0	0	0	0	0
Oct	#	1972	19	#	1972	0	0	0	0	0
Nov	3.5	1995	29	3.5	1995	6	1989	23	#+	1995
Dec	7.0	1995	21	13.5	1995	12	1995	21	3	1986
Ann	20.0	Jan 1996	8	25.5	Jan 1996	22	Jan 1996	8	17	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.0	1.6	.7	.3	@
Feb	2.2	1.6	.8	.4	.1
Mar	.7	.6	.3	.2	.0
Apr	.2	.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	.0	.0	.0	.0	.0
Nov	.1	.1	.1	.0	.0
Dec	.6	.5	.3	.1	.0
Ann	5.8	4.5	2.2	1.0	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.1	1.1	.8	.8
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	.2	.1	.1	.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	.0
Nov	.1	.1	.0	.0
Dec	.0	.0	.0	.0
Ann	-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

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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	6/01	5/23	5/16	5/10	5/05	4/29	4/23	4/16	4/07
32	5/17	5/07	4/30	4/24	4/19	4/14	4/08	4/01	3/22
28	4/17	4/12	4/08	4/05	4/02	3/30	3/27	3/23	3/18
24	4/10	4/04	3/30	3/26	3/23	3/19	3/16	3/11	3/05
20	3/31	3/25	3/20	3/16	3/12	3/08	3/04	2/27	2/21
16	3/26	3/19	3/14	3/10	3/06	3/03	2/26	2/22	2/15

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	10/01	10/07	10/12	10/15	10/19	10/22	10/26	10/30	11/05
32	10/08	10/16	10/21	10/25	10/29	11/02	11/07	11/12	11/19
28	10/23	10/31	11/06	11/11	11/16	11/21	11/26	12/02	12/11
24	11/06	11/13	11/19	11/24	11/28	12/02	12/07	12/13	12/20
20	11/14	11/23	11/30	12/05	12/10	12/15	12/21	12/27	1/05
16	12/01	12/09	12/14	12/19	12/23	12/27	1/01	1/06	1/13

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	205	192	182	174	166	159	151	141	128
32	235	220	210	201	193	184	175	165	150
28	258	247	240	233	227	221	215	207	196
24	282	271	263	256	249	243	236	228	217
20	304	293	285	279	272	266	259	251	240
16	317	308	302	296	291	286	280	273	264

***** 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	1061	928	816	528	234	37	1	1	51	305	555	880	5397
60	906	788	661	378	110	5	0	0	12	177	406	725	4168
57	813	704	568	291	58	1	0	0	4	116	318	632	3505
55	751	648	506	235	35	0	0	0	1	83	263	572	3094
50	597	508	353	117	6	0	0	0	0	28	142	428	2179
32	153	107	20	0	0	0	0	0	0	0	1	72	353

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	115	102	226	462	795	1044	1266	1247	1010	726	436	214	7643
55	0	0	0	7	116	354	553	534	321	96	8	1	1990
57	0	0	0	3	77	295	491	472	263	66	3	0	1670
60	0	0	0	0	36	209	398	379	181	34	0	0	1237
65	0	0	0	0	5	91	244	225	71	7	0	0	643
70	0	0	0	0	0	23	105	89	13	0	0	0	230

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	19	20	71	237	555	804	1008	1005	766	448	204	56	19	39	110	347	902	1706	2714	3719	4485	4933	5137	5193
45	1	0	24	121	401	654	853	850	616	301	106	15	1	1	25	146	547	1201	2054	2904	3520	3821	3927	3942
50	0	0	4	47	247	504	698	695	466	176	44	2	0	0	4	51	298	802	1500	2195	2661	2837	2881	2883
55	0	0	1	14	127	356	543	540	318	83	13	0	0	0	1	15	142	498	1041	1581	1899	1982	1995	1995
60	0	0	0	0	48	214	390	385	183	24	1	0	0	0	0	0	48	262	652	1037	1220	1244	1245	1245
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	2	7	32	105	293	509	700	694	473	236	84	25	2	9	41	146	439	948	1648	2342	2815	3051	3135	3160

(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