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: GLENS FALLS FARM, NY **COOP ID: 303284**

Climate Division: NY 5 **NWS Call Sign:** **Elevation: 504 Feet** **Lat: 43˚20N** **Lon: 73˚44W**

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	31.3	9.5	20.4	63+	1995	17	30.9	1990	-34+	1976	23	10.4	1982	1383	0	.0	.0	1.0	16.8	30.0	8.1
Feb	35.3	11.8	23.6	66	1957	26	33.2	1981	-26	1979	18	12.5	1979	1161	0	.0	.0	1.4	11.5	26.5	6.8
Mar	45.0	22.0	33.5	86	1998	31	39.6	1977	-13	1993	15	26.9	1984	976	0	.0	.0	8.4	3.4	26.4	1.4
Apr	58.7	33.2	46.0	90+	1990	28	51.6	1986	0	1982	7	38.6	1972	572	0	.0	.1	23.3	.1	14.3	@
May	71.3	44.5	57.9	92+	1987	31	62.9	1998	19+	1974	5	53.6	1997	241	20	.0	.3	30.8	.0	2.4	.0
Jun	79.0	52.7	65.9	98	1964	30	69.8	1999	31+	1975	9	61.7	1985	56	82	.0	1.6	30.0	.0	.1	.0
Jul	83.2	57.7	70.5	98+	1988	11	73.9	1995	40+	1985	12	66.8	2000	7	176	.0	4.1	31.0	.0	.0	.0
Aug	80.8	55.9	68.4	97+	1959	21	71.4+	1991	32	1971	24	65.2	1972	25	128	.0	1.6	31.0	.0	@	.0
Sep	72.5	48.0	60.3	93	1959	9	64.9	1999	23	1974	24	56.0	1975	166	24	.0	.2	30.0	.0	1.4	.0
Oct	61.3	37.0	49.2	87	1963	7	54.5	1995	9+	1972	21	42.2	1974	494	1	.0	.0	27.5	.0	11.0	.0
Nov	47.4	28.7	38.1	75	1990	3	44.5	1999	-2	1972	23	33.1	1972	808	0	.0	.0	10.7	1.0	20.1	@
Dec	35.5	16.6	26.1	65+	2001	6	33.1	1998	-26	1968	26	11.5	1989	1208	0	.0	.0	1.7	11.2	28.8	3.8
Ann	58.4	34.8	46.7	98+	Jul 1988	11	73.9	Jul 1995	-34+	Jan 1976	23	10.4	Jan 1982	7097	431	.0	7.9	226.8	44.0	161.0	20.1

\+ 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	3.50	3.25	2.37	1998	8	6.55	1998	.62	1981
Feb	2.58	2.60	2.38	1981	2	6.66	1981	.27	1987
Mar	3.70	3.68	2.02	1964	5	7.31	1977	.36	1981
Apr	3.73	3.48	2.52	1968	25	6.50	1983	.69	1999
May	4.42	3.98	2.52	1952	12	9.66	1983	1.50	1993
Jun	4.17	3.88	3.48	1973	30	9.56	1998	1.15	1988
Jul	4.20	4.05	3.08	1957	31	8.30	1996	1.14	1985
Aug	4.28	3.76	4.52	1949	29	8.69	1988	1.95	1972
Sep	4.07	3.28	4.35	1999	17	8.60	1999	1.38	1984
Oct	3.61	2.92	2.60	1990	24	8.66	1995	.54	1994
Nov	4.05	3.88	2.38	1959	28	8.08	1972	1.69	1981
Dec	3.46	3.17	3.10	1948	31	8.67	1973	.82	1998
Ann	45.77	44.32	4.52	Aug 1949	29	9.66	May 1983	.27	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.6	7.3	2.4	.8
Feb	8.8	5.0	1.9	.4
Mar	10.7	6.9	2.5	1.0
Apr	11.1	7.6	2.4	.8
May	12.4	8.6	3.2	1.0
Jun	11.8	8.2	2.9	.8
Jul	10.8	7.5	2.6	1.1
Aug	10.4	7.1	2.7	1.2
Sep	9.9	7.1	2.5	1.0
Oct	10.4	6.7	2.2	1.0
Nov	11.4	7.9	3.0	1.0
Dec	11.3	7.4	2.2	.7
Ann	130.6	87.3	30.5	10.8

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	1.13	1.46	1.95	2.37	2.77	3.19	3.65	4.18	4.87	5.94	6.93
Feb	.62	.86	1.24	1.58	1.91	2.26	2.66	3.13	3.74	4.72	5.63
Mar	1.38	1.73	2.22	2.64	3.03	3.43	3.87	4.38	5.02	6.02	6.92
Apr	1.49	1.83	2.32	2.72	3.10	3.49	3.91	4.39	5.00	5.94	6.80
May	1.36	1.79	2.41	2.95	3.47	4.00	4.60	5.29	6.19	7.59	8.89
Jun	1.13	1.53	2.13	2.66	3.17	3.72	4.32	5.03	5.95	7.40	8.76
Jul	1.30	1.70	2.30	2.81	3.30	3.81	4.37	5.04	5.89	7.22	8.45
Aug	1.87	2.25	2.79	3.23	3.64	4.05	4.49	5.00	5.64	6.62	7.50
Sep	1.26	1.65	2.23	2.72	3.20	3.69	4.24	4.88	5.70	6.99	8.18
Oct	.97	1.31	1.84	2.29	2.74	3.22	3.74	4.36	5.17	6.43	7.61
Nov	1.85	2.21	2.70	3.10	3.47	3.85	4.25	4.70	5.28	6.15	6.94
Dec	.89	1.22	1.72	2.16	2.60	3.06	3.57	4.18	4.97	6.23	7.40
Ann	34.68	36.88	39.67	41.78	43.63	45.41	47.24	49.25	51.67	55.16	58.16

\+ 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	19.0	18.5	10	9
Feb	12.1	11.5	11	10
Mar	11.8	8.0	7	4
Apr	2.6	.5	1	#
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	4.4	2.5	#	#
Dec	13.4	12.3	3	3
Ann	63.3	53.3	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	1983	16	42.0	1978	40	1978	22	25	1994
Feb	10.5	1972	26	33.0	1993	40	1994	11	33	1994
Mar	22.0	1994	3	34.5	1971	44	1994	3	30	1971
Apr	13.0	2000	9	13.0	2000	20	1971	1	6	1971
May	.5	1976	19	.5	1976	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	#	1987	11	#+	1987	0	0	0	0	0
Nov	21.0	1971	25	22.5	1971	21	1971	25	3+	1997
Dec	12.0	1978	25	42.0	1972	21+	1995	21	12	1977
Ann	22.0	Mar 1994	3	42.0+	Jan 1978	44	Mar 1994	3	33	Feb 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.3	5.8	2.7	1.4	.3
Feb	4.8	3.8	1.7	.8	.1
Mar	3.7	3.1	1.6	.7	.2
Apr	1.0	.8	.3	.1	@
May	@	.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	2.0	1.2	.4	.2	@
Dec	5.4	4.2	1.7	.9	.1
Ann	24.2	18.9	8.4	4.1	.7

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	25.9	22.7	20.5	13.1
Feb	25.6	21.8	20.4	15.2
Mar	17.9	14.6	12.2	7.8
Apr	2.7	1.6	1.2	.6
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	3.8	1.6	.9	.2
Dec	21.1	13.1	9.2	3.4
Ann	97.0	75.4	64.4	40.3

+ 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	6/14	6/07	6/03	5/30	5/26	5/23	5/19	5/14	5/08
32	5/29	5/24	5/19	5/16	5/13	5/09	5/06	5/02	4/26
28	5/11	5/07	5/04	5/02	4/29	4/27	4/25	4/22	4/18
24	5/01	4/26	4/22	4/19	4/16	4/13	4/10	4/07	4/02
20	4/24	4/19	4/15	4/12	4/08	4/05	4/02	3/29	3/23
16	4/13	4/08	4/05	4/02	3/30	3/27	3/24	3/20	3/15

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	8/26	9/02	9/06	9/10	9/13	9/17	9/21	9/25	10/02
32	9/11	9/16	9/20	9/23	9/26	9/29	10/03	10/06	10/12
28	9/24	9/29	10/02	10/05	10/08	10/11	10/14	10/17	10/22
24	10/04	10/11	10/15	10/19	10/23	10/27	10/30	11/04	11/10
20	10/18	10/25	10/30	11/03	11/07	11/11	11/15	11/19	11/26
16	10/31	11/06	11/10	11/13	11/17	11/20	11/24	11/28	12/04

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	139	129	121	115	109	103	97	90	79
32	162	153	147	141	136	131	125	119	110
28	178	172	168	164	161	158	154	150	144
24	215	206	200	194	189	184	179	172	163
20	243	232	224	218	212	206	199	191	181
16	259	249	243	237	231	226	220	213	204

***** 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	1383	1161	976	572	241	56	7	25	166	494	808	1208	7097
60	1228	1021	821	427	132	13	0	3	73	347	658	1053	5776
57	1135	937	728	343	83	4	0	0	39	266	568	960	5063
55	1073	881	666	291	58	2	0	0	24	217	508	898	4618
50	918	741	513	177	19	0	0	0	5	116	361	743	3593
32	398	282	100	5	0	0	0	0	0	0	31	266	1082

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	39	45	148	423	803	1015	1192	1125	848	530	213	82	6463
55	0	0	0	19	148	327	479	412	181	34	0	0	1600
57	0	0	0	11	111	269	417	351	137	21	0	0	1317
60	0	0	0	4	66	188	324	260	81	9	0	0	932
65	0	0	0	0	20	82	176	128	24	1	0	0	431
70	0	0	0	0	4	21	66	41	3	0	0	0	135

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	3	44	210	555	774	945	880	604	292	76	6	1	4	48	258	813	1587	2532	3412	4016	4308	4384	4390
45	0	0	17	115	403	624	790	725	456	171	34	0	0	0	17	132	535	1159	1949	2674	3130	3301	3335	3335
50	0	0	6	56	262	476	635	570	315	87	11	0	0	0	6	62	324	800	1435	2005	2320	2407	2418	2418
55	0	0	3	21	147	327	480	416	188	35	2	0	0	0	3	24	171	498	978	1394	1582	1617	1619	1619
60	0	0	0	8	65	196	326	268	97	6	0	0	0	0	0	8	73	269	595	863	960	966	966	966
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	37	149	350	501	625	578	377	183	44	3	0	0	37	186	536	1037	1662	2240	2617	2800	2844	2847

(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