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 AP, NY **COOP ID: 303294**

Climate Division: NY 5 **NWS Call Sign: GFL** **Elevation: 321 Feet** **Lat: 43˚21N** **Lon: 73˚37W**

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	28.5	7.9	18.2	64	1995	15	28.9	1990	-35	1994	27	6.8	1982	1450	0	.0	.0	.8	19.3	29.8	9.1
Feb	32.1	10.6	21.4	65	1981	21	32.4	1981	-30	1994	10	10.7	1979	1222	0	.0	.0	.9	14.5	26.5	7.1
Mar	42.6	22.2	32.4	86	1998	31	39.0	1973	-24	1950	4	27.4	1982	1011	0	.0	.0	6.9	4.9	26.0	1.3
Apr	56.1	33.6	44.9	90+	1990	28	49.4	1986	9	1974	11	38.8	1972	604	0	.0	.1	20.6	.2	14.3	.0
May	68.7	44.5	56.6	93	1979	9	62.0	1998	22	1966	11	51.8	1976	274	14	.0	.2	30.5	.0	1.8	.0
Jun	76.8	53.1	65.0	97+	1995	19	67.8	1983	32	1967	1	60.9	1985	65	63	.0	1.3	30.0	.0	.0	.0
Jul	81.6	58.2	69.9	100	1988	10	74.0	1995	40+	1979	4	65.2	1992	15	167	@	3.4	31.0	.0	.0	.0
Aug	79.0	56.4	67.7	98	1949	9	72.6	1973	31	1982	29	63.9	1982	28	113	.0	1.4	31.0	.0	@	.0
Sep	70.2	47.6	58.9	97	1953	2	63.9	1971	25+	2000	29	55.0	1978	198	14	.0	.2	29.9	.0	1.1	.0
Oct	58.3	36.3	47.3	87+	1963	7	54.0	1971	15	1969	24	42.9	1974	550	0	.0	.0	25.8	.0	11.2	.0
Nov	45.9	28.4	37.2	78+	1982	2	42.6	1999	-1	1951	28	32.3	1996	835	0	.0	.0	9.8	2.1	21.1	.0
Dec	33.9	16.5	25.2	69	1982	4	32.3	1996	-29	1980	26	8.6	1989	1234	0	.0	.0	1.7	13.0	28.4	4.0
Ann	56.1	34.6	45.4	100	Jul 1988	10	74.0	Jul 1995	-35	Jan 1994	27	6.8	Jan 1982	7486	371	@	6.6	218.9	54.0	160.2	21.5

\+ 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	3.12	2.57	2.55	1999	13	7.49	1999	.68	1989
Feb	2.16	2.30	1.89	1974	22	4.85	1981	.54	1987
Mar	3.08	2.90	3.36	1994	3	6.59	1994	.40	1981
Apr	3.01	2.64	2.66	1968	24	6.46	1983	.58	1999
May	3.75	3.27	2.30	1992	31	7.80	1984	1.10	1980
Jun	3.41	3.11	3.44	1987	22	8.20	1998	.80	1988
Jul	3.62	3.52	2.84	1988	21	8.31	1994	.84	1993
Aug	3.66	3.08	3.65	1971	28	8.07	1990	1.39	1996
Sep	3.45	2.96	3.55	1999	16	7.75	1987	1.13	1988
Oct	3.15	2.69	3.57	1972	7	7.53	1995	.81	1974
Nov	3.23	3.08	2.08	1990	10	6.45	1972	1.16	1976
Dec	2.93	2.43	2.91	1948	30	7.61	1973	1.04	1999
Ann	38.57	38.69	3.65	Aug 1971	28	8.31	Jul 1994	.40	Mar 1981

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.9	6.5	1.9	.6
Feb	9.0	4.9	1.3	.4
Mar	10.7	6.6	2.0	.6
Apr	10.9	6.8	2.1	.5
May	12.1	8.0	2.7	.9
Jun	11.3	7.4	2.4	.5
Jul	10.1	6.5	2.5	.8
Aug	10.6	6.6	2.2	1.0
Sep	9.6	6.7	2.2	.8
Oct	10.0	6.1	2.1	.6
Nov	11.3	6.9	2.3	.4
Dec	11.5	6.1	1.8	.7
Ann	129.0	79.1	25.5	7.8

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	.89	1.19	1.64	2.03	2.41	2.80	3.24	3.75	4.42	5.47	6.45
Feb	.79	1.00	1.29	1.53	1.76	2.00	2.26	2.56	2.94	3.53	4.07
Mar	1.01	1.31	1.74	2.10	2.45	2.82	3.21	3.68	4.27	5.20	6.06
Apr	1.15	1.43	1.83	2.16	2.48	2.80	3.15	3.55	4.07	4.86	5.58
May	1.10	1.46	1.99	2.45	2.90	3.37	3.89	4.50	5.29	6.52	7.66
Jun	.84	1.16	1.65	2.10	2.53	3.00	3.51	4.13	4.93	6.21	7.40
Jul	1.14	1.48	1.99	2.42	2.85	3.28	3.76	4.33	5.05	6.18	7.23
Aug	1.35	1.69	2.18	2.60	2.99	3.39	3.83	4.33	4.98	5.98	6.89
Sep	.95	1.28	1.77	2.21	2.63	3.08	3.57	4.15	4.91	6.10	7.21
Oct	1.02	1.31	1.76	2.13	2.50	2.87	3.28	3.76	4.38	5.35	6.24
Nov	1.45	1.73	2.13	2.46	2.76	3.06	3.39	3.76	4.23	4.95	5.59
Dec	.86	1.13	1.55	1.92	2.27	2.64	3.04	3.52	4.14	5.11	6.01
Ann	28.54	30.51	33.02	34.91	36.58	38.20	39.85	41.68	43.89	47.08	49.82

\+ 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

Complete documentation available from:
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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	20.0	17.7	6	6
Feb	12.6	13.1	7	6
Mar	12.5	10.0	4	3
Apr	2.9	.3	#	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	0
Nov	4.2	1.6	#	0
Dec	13.8	14.0	3	2
Ann	66.0	56.7	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	15.7	1986	26	51.2	1987	30+	1987	24	15+	1987
Feb	12.2	1993	16	33.4	1993	26+	1971	12	20	1971
Mar	20.2	1994	3	33.9	1971	34	1971	12	18	1971
Apr	10.6	2000	9	12.5	1983	10	2000	10	1+	2000
May	.3	1976	19	.3	1976	0	0	0	#	2000
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	1.1	1987	4	1.2	1987	#	1976	24	0	0
Nov	18.0	1971	25	19.5	1972	18	1971	26	3	1997
Dec	15.5	1978	25	31.3	1972	30	1990	4	9	1995
Ann	20.2	Mar 1994	3	51.2	Jan 1987	34	Mar 1971	12	20	Feb 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	8.7	4.9	2.7	1.2	.2
Feb	6.8	3.3	1.4	.8	.1
Mar	4.7	2.7	1.6	.9	.2
Apr	1.3	.8	.4	.2	@
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	.1	.0	.0	.0	.0
Nov	2.1	1.0	.5	.3	.1
Dec	6.8	3.6	1.5	.9	.1
Ann	30.5	16.3	8.1	4.3	.7

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	24.3	20.6	16.5	8.8
Feb	22.8	19.5	16.5	9.2
Mar	14.4	10.8	9.0	5.3
Apr	1.5	.6	.2	@
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	2.8	1.6	.8	.2
Dec	16.5	11.2	7.3	1.9
Ann	82.3	64.3	50.3	25.4

+ 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	6/07	6/02	5/29	5/26	5/22	5/19	5/16	5/12	5/07
32	5/18	5/14	5/12	5/10	5/08	5/06	5/04	5/01	4/28
28	5/08	5/04	5/01	4/28	4/25	4/23	4/20	4/17	4/13
24	4/28	4/24	4/20	4/18	4/15	4/12	4/09	4/06	4/02
20	4/15	4/10	4/07	4/05	4/02	3/31	3/28	3/25	3/21
16	4/05	4/01	3/30	3/27	3/25	3/23	3/21	3/19	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	9/05	9/10	9/13	9/16	9/19	9/22	9/24	9/28	10/03
32	9/16	9/20	9/24	9/26	9/29	10/01	10/04	10/07	10/11
28	9/24	9/29	10/03	10/06	10/09	10/12	10/15	10/19	10/24
24	10/10	10/15	10/18	10/21	10/24	10/26	10/29	11/01	11/06
20	10/20	10/26	10/31	11/03	11/07	11/10	11/14	11/18	11/24
16	11/05	11/10	11/14	11/18	11/21	11/24	11/28	12/02	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	140	133	127	123	119	114	110	105	97
32	155	151	148	146	143	141	138	135	131
28	185	178	174	170	166	162	158	153	146
24	208	202	198	194	191	188	184	180	174
20	239	232	227	222	218	214	209	204	197
16	261	254	249	244	240	236	232	227	219

***** 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	1450	1222	1011	604	274	65	15	28	198	550	835	1234	7486
60	1295	1082	856	455	156	16	1	3	94	398	685	1079	6120
57	1202	998	763	369	102	5	0	0	52	310	595	986	5382
55	1140	942	701	313	73	2	0	0	33	256	535	924	4919
50	985	802	546	190	26	0	0	0	7	140	387	769	3852
32	466	336	116	4	0	0	0	0	0	0	37	294	1253

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	39	38	129	390	763	988	1175	1108	806	473	192	83	6184
55	0	0	0	9	123	300	462	395	149	16	0	0	1454
57	0	0	0	5	90	243	400	333	108	8	0	0	1187
60	0	0	0	1	51	164	307	243	60	3	0	0	829
65	0	0	0	0	14	63	167	113	14	0	0	0	371
70	0	0	0	0	2	13	68	34	1	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	1	3	38	190	519	759	936	864	573	249	71	7	1	4	42	232	751	1510	2446	3310	3883	4132	4203	4210
45	0	0	14	99	367	609	781	709	424	142	32	2	0	0	14	113	480	1089	1870	2579	3003	3145	3177	3179
50	0	0	5	47	231	459	626	554	285	62	7	0	0	0	5	52	283	742	1368	1922	2207	2269	2276	2276
55	0	0	1	19	126	314	471	399	167	23	1	0	0	0	1	20	146	460	931	1330	1497	1520	1521	1521
60	0	0	0	8	54	182	316	253	81	5	0	0	0	0	0	8	62	244	560	813	894	899	899	899
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	31	124	315	476	617	565	347	150	39	4	0	0	31	155	470	946	1563	2128	2475	2625	2664	2668

(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