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: LAWRENCEVILLE 3 SW, NY **COOP ID: 304647**

Climate Division: NY 8 **NWS Call Sign:** **Elevation: 500 Feet** **Lat: 44˚43N** **Lon: 74˚45W**

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	25.9	6.2	16.1	68	1950	26	28.4	1990	-40	1957	15	4.5	1994	1517	0	.0	.0	1.1	21.1	30.0	11.0
Feb	29.2	8.8	19.0	68	2000	27	31.7	1981	-31	1993	7	7.9	1979	1288	0	.0	.0	1.7	17.1	26.9	8.4
Mar	39.9	19.3	29.6	80	1998	31	38.0	2000	-21+	1999	8	20.0	1984	1097	0	.0	.0	6.9	8.6	26.7	2.7
Apr	53.7	32.4	43.1	86	1990	29	48.2	1987	-4	1954	4	35.8	1972	658	0	.0	.0	18.8	.7	15.5	.0
May	68.0	44.8	56.4	90	1999	31	62.8	1998	17	1966	5	51.2	1974	282	15	.0	@	30.0	.0	2.9	.0
Jun	75.9	54.0	65.0	94	1999	27	71.1	1999	30+	1986	3	60.1	1985	80	78	.0	.5	30.0	.0	.1	.0
Jul	80.1	59.0	69.6	94+	1963	28	72.3	1995	35	1982	4	65.0	1992	12	153	.0	.9	31.0	.0	.0	.0
Aug	77.8	57.0	67.4	97	1988	3	71.2	1973	34	1957	28	63.0	1972	38	112	.0	.5	31.0	.0	.0	.0
Sep	69.2	48.7	59.0	94	1953	4	64.7	1999	24	1980	29	55.5	1978	196	15	.0	@	29.8	.0	1.0	.0
Oct	57.5	37.9	47.7	83+	1968	2	54.3	1971	16	1966	30	42.3	1972	538	1	.0	.0	23.8	@	9.4	.0
Nov	44.0	27.8	35.9	78	1948	6	44.8	1999	-8	1949	28	31.3	1976	873	0	.0	.0	8.7	4.7	20.7	.1
Dec	31.3	13.7	22.5	69	2001	6	32.7	1996	-29	1993	27	5.0	1989	1318	0	.0	.0	2.3	16.5	28.8	5.5
Ann	54.4	34.1	44.3	97	Aug 1988	3	72.3	Jul 1995	-40	Jan 1957	15	4.5	Jan 1994	7897	374	.0	1.9	215.1	68.7	162.0	27.7

\+ 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

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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	2.19	1.98	1.45	1996	19	5.20	1999	.61	1981
Feb	1.97	1.82	2.09	1971	14	6.49	1971	.43	1978
Mar	2.26	2.33	1.56	1956	8	4.22	1974	.73	1996
Apr	2.86	2.56	1.81	2000	9	6.15	1993	.54	1999
May	2.90	2.71	1.98	1956	27	6.81	2000	.85	1980
Jun	3.74	3.72	2.24	1998	27	7.00	1986	.61	1991
Jul	3.80	4.08	2.60	1962	26	6.57	1986	1.36	1984
Aug	4.16	4.05	2.96	1995	4	7.45	1986	1.63	1996
Sep	3.98	3.74	3.50	1999	17	7.37	1999	1.89	1972
Oct	3.20	3.28	2.36	1995	6	6.49	1995	.58	1994
Nov	3.26	3.40	2.35	1996	8	5.70	1982	.84	1976
Dec	2.58	2.17	1.90	1984	29	5.27	1983	.74	1989
Ann	36.90	35.81	3.50	Sep 1999	17	7.45	Aug 1986	.43	Feb 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.1	7.1	1.1	.1
Feb	10.4	5.7	.9	.2
Mar	11.8	7.3	.9	.1
Apr	12.1	7.9	1.6	.3
May	12.8	7.6	1.6	.5
Jun	12.4	8.3	2.4	.8
Jul	11.5	7.8	2.6	.7
Aug	11.7	8.3	2.7	1.0
Sep	11.9	8.2	2.6	.8
Oct	11.9	7.4	1.8	.5
Nov	13.1	8.7	1.8	.5
Dec	13.4	7.6	1.4	.2
Ann	147.1	91.9	21.4	5.7

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	.76	.97	1.27	1.52	1.76	2.01	2.29	2.61	3.01	3.64	4.22
Feb	.53	.72	1.01	1.25	1.50	1.76	2.04	2.38	2.82	3.50	4.15
Mar	.92	1.13	1.42	1.66	1.89	2.12	2.37	2.66	3.02	3.58	4.09
Apr	.89	1.17	1.57	1.92	2.25	2.60	2.98	3.43	4.01	4.91	5.74
May	.90	1.17	1.58	1.94	2.28	2.63	3.02	3.47	4.06	4.97	5.82
Jun	1.49	1.83	2.32	2.73	3.11	3.50	3.92	4.40	5.02	5.96	6.82
Jul	1.64	1.98	2.46	2.85	3.21	3.58	3.98	4.44	5.01	5.89	6.69
Aug	2.04	2.40	2.88	3.27	3.62	3.98	4.36	4.80	5.34	6.15	6.88
Sep	1.85	2.20	2.68	3.07	3.42	3.79	4.17	4.61	5.16	6.00	6.75
Oct	1.11	1.41	1.85	2.22	2.58	2.95	3.35	3.81	4.41	5.33	6.18
Nov	1.59	1.86	2.25	2.55	2.84	3.12	3.42	3.76	4.19	4.84	5.42
Dec	1.04	1.27	1.61	1.89	2.15	2.41	2.70	3.03	3.45	4.09	4.67
Ann	29.71	31.17	33.01	34.38	35.57	36.72	37.88	39.16	40.69	42.88	44.74

\+ 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)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	16.8	15.3	6	5	10.0	1994	4	33.5	1978	35	1971	1	19	1971	10.9	6.9	1.6	.5	@	25.4	19.5	14.5	6.2
Feb	14.4	12.0	8	7	13.5	1971	14	43.9	1971	35	1971	15	24	1971	7.9	5.4	1.6	.5	.1	23.9	18.5	15.9	8.9
Mar	11.8	10.5	5	3	12.0	1977	23	33.0	1999	45	1971	6	28	1971	6.7	4.8	1.3	.5	.1	17.1	13.1	10.2	3.9
Apr	5.1	3.0	1	#	14.0	2000	9	21.0	2000	20	1975	6	7	1993	2.5	1.6	.6	.3	@	3.3	2.1	1.2	.3
May	.3	.0	#	0	4.0	1983	9	4.0	1983	4	1983	9	#+	1996	.1	.1	.1	.0	.0	.1	@	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	4.0	1979	9	6.0	1988	3	1979	9	#+	2000	.6	.3	.1	.0	.0	.2	@	.0	.0
Nov	7.3	8.0	1	1	10.0	1975	14	15.5	1997	10	1993	1	2	1997	4.3	2.6	.7	.3	.1	7.2	2.4	1.0	.1
Dec	15.3	14.0	4	3	11.0	1973	22	34.3	1972	19	1973	23	13	1977	8.8	5.7	1.3	.6	.1	20.1	13.6	7.8	2.5
Ann	71.7	62.8	N/A	N/A	14.0	Apr 2000	9	43.9	Feb 1971	45	Mar 1971	6	28	Mar 1971	41.8	27.4	7.3	2.7	.4	97.3	69.2	50.6	21.9

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

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	8/31	9/05	9/09	9/13	9/16	9/19	9/22	9/26	10/02
32	9/20	9/23	9/26	9/28	10/01	10/03	10/05	10/08	10/11
28	9/28	10/02	10/05	10/08	10/10	10/13	10/15	10/18	10/22
24	10/08	10/13	10/16	10/19	10/22	10/25	10/27	10/31	11/05
20	10/20	10/25	10/29	11/01	11/04	11/07	11/10	11/14	11/19
16	11/07	11/10	11/13	11/15	11/17	11/19	11/21	11/23	11/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	134	125	119	113	108	103	98	91	82
32	156	149	144	140	136	132	128	124	117
28	181	175	171	167	163	160	156	152	145
24	203	196	192	188	184	180	176	172	165
20	226	220	216	212	209	205	202	197	191
16	246	240	236	233	229	226	222	218	213

***** 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	1517	1288	1097	658	282	80	12	38	196	538	873	1318	7897
60	1362	1148	942	509	164	26	0	6	91	390	723	1163	6524
57	1269	1064	849	423	108	10	0	1	51	307	633	1070	5785
55	1207	1008	787	367	78	5	0	0	32	256	573	1008	5321
50	1052	868	635	241	29	0	0	0	7	148	425	853	4258
32	519	398	193	16	0	0	0	0	0	3	61	368	1558

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	25	34	119	348	756	988	1164	1097	809	488	179	74	6081
55	0	0	0	9	121	303	451	384	151	28	0	0	1447
57	0	0	0	5	89	248	389	323	109	17	0	0	1180
60	0	0	0	1	51	173	296	235	60	7	0	0	823
65	0	0	0	0	15	78	153	112	15	1	0	0	374
70	0	0	0	0	3	22	52	35	1	0	0	0	113

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	3	8	42	172	519	755	927	858	581	278	75	9	3	11	53	225	744	1499	2426	3284	3865	4143	4218	4227
45	0	1	16	95	372	605	772	703	434	167	34	2	0	1	17	112	484	1089	1861	2564	2998	3165	3199	3201
50	0	0	5	46	237	457	617	548	295	86	13	0	0	0	5	51	288	745	1362	1910	2205	2291	2304	2304
55	0	0	2	16	135	316	462	394	173	37	2	0	0	0	2	18	153	469	931	1325	1498	1535	1537	1537
60	0	0	0	9	64	188	311	253	89	11	0	0	0	0	0	9	73	261	572	825	914	925	925	925
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	33	109	313	484	617	560	348	150	38	2	0	1	34	143	456	940	1557	2117	2465	2615	2653	2655

(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