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: LOWVILLE, NY **COOP ID: 304912**

Climate Division: NY 3 **NWS Call Sign:** **Elevation: 860 Feet** **Lat: 43˚48N** **Lon: 75˚29W**

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	27.0	7.9	17.5	64	1950	4	30.4	1990	-35	1994	16	3.9	1994	1475	0	.0	.0	.8	21.0	29.8	11.0
Feb	29.5	10.3	19.9	59	1984	25	30.2	1981	-36	1943	16	8.7	1979	1262	0	.0	.0	1.1	17.0	26.5	9.2
Mar	38.7	20.5	29.6	81	1946	29	38.7	1973	-25+	1980	2	22.2	1984	1098	0	.0	.0	5.3	9.2	26.6	2.7
Apr	52.3	32.3	42.3	87+	1990	29	48.6	1987	-4	1954	4	36.6	1972	682	0	.0	.0	16.3	.7	17.0	@
May	66.6	43.6	55.1	96	1933	20	60.3	1975	20	1966	7	48.6	1997	319	11	.0	.0	29.3	.0	2.8	.0
Jun	74.6	51.9	63.3	99	1933	29	67.4	1976	28	1986	3	58.9	1985	102	49	.0	.3	30.0	.0	.1	.0
Jul	79.2	56.4	67.8	100	1931	2	70.8	1988	37	1936	1	62.5	1992	28	114	.0	1.1	31.0	.0	.0	.0
Aug	77.1	54.5	65.8	98	1944	15	69.7	1980	29	1934	30	61.3	1982	56	80	.0	.5	31.0	.0	@	.0
Sep	68.5	47.0	57.8	95+	1953	3	62.1	1971	22+	1947	28	54.2	1991	224	6	.0	@	29.5	.0	2.0	.0
Oct	56.5	37.0	46.8	87	1927	2	53.6	1971	9	1936	27	41.4	1992	567	0	.0	.0	22.4	@	11.0	.0
Nov	43.5	28.5	36.0	76	1950	1	42.1	1975	-15	1933	16	29.3	1996	871	0	.0	.0	7.9	3.9	21.0	.1
Dec	31.8	15.4	23.6	67	2001	6	31.5	1984	-40	1942	20	5.9	1989	1283	0	.0	.0	1.6	15.0	28.9	4.8
Ann	53.8	33.8	43.8	100	Jul 1931	2	70.8	Jul 1988	-40	Dec 1942	20	3.9	Jan 1994	7967	260	.0	1.9	206.2	66.8	165.7	27.8

\+ 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: 1926-2001

(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	3.62	3.28	2.35	1998	8	8.67	1978	.38	1981
Feb	2.52	2.44	2.03	1981	2	5.17	1972	.61	1987
Mar	3.06	3.09	2.70	1971	4	5.89	1971	.85	1995
Apr	3.20	2.95	2.27	1980	9	6.74	1993	.99	1999
May	3.21	2.77	2.45	2000	11	7.06	2000	.94	1995
Jun	3.36	3.28	3.47	1972	22	8.04	1972	.71	1995
Jul	3.60	3.55	2.91	1953	20	7.08	1975	.85	1993
Aug	3.59	3.58	3.62	1941	25	8.65	1983	.62	1999
Sep	4.03	4.13	4.78	2001	25	6.21	1975	1.56	1972
Oct	3.45	3.21	2.96	1932	6	7.17	1990	.32	1994
Nov	4.09	4.17	3.30	1996	9	6.54	1989	1.75	1981
Dec	3.61	3.01	2.64	1942	30	7.90	1983	1.49	1979
Ann	41.34	39.93	4.78	Sep 2001	25	8.67	Jan 1978	.32	Oct 1994

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.1	9.0	1.9	.4
Feb	14.1	6.3	1.1	.4
Mar	14.5	7.3	1.9	.3
Apr	13.6	7.1	2.0	.4
May	13.6	7.7	2.2	.5
Jun	12.6	7.5	2.3	.4
Jul	10.9	6.8	2.5	.9
Aug	11.0	6.9	2.3	.7
Sep	13.2	8.0	2.9	.7
Oct	14.4	8.0	1.9	.6
Nov	16.5	9.5	2.4	.8
Dec	18.1	9.0	1.9	.5
Ann	170.6	93.1	25.3	6.6

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	1.04	1.39	1.90	2.35	2.79	3.25	3.76	4.35	5.13	6.34	7.47
Feb	.71	.95	1.31	1.63	1.94	2.26	2.61	3.04	3.58	4.44	5.23
Mar	1.08	1.37	1.79	2.14	2.48	2.82	3.20	3.64	4.20	5.06	5.85
Apr	1.09	1.39	1.84	2.21	2.57	2.94	3.34	3.81	4.42	5.36	6.22
May	1.18	1.48	1.91	2.28	2.62	2.97	3.35	3.80	4.36	5.24	6.04
Jun	1.09	1.41	1.88	2.28	2.66	3.06	3.50	4.01	4.66	5.68	6.62
Jul	1.18	1.52	2.02	2.45	2.86	3.29	3.75	4.30	5.00	6.08	7.09
Aug	.95	1.29	1.81	2.26	2.71	3.18	3.71	4.33	5.14	6.41	7.60
Sep	1.97	2.31	2.78	3.16	3.51	3.85	4.23	4.65	5.18	5.97	6.69
Oct	1.07	1.40	1.88	2.30	2.71	3.13	3.59	4.13	4.83	5.92	6.94
Nov	2.10	2.44	2.90	3.26	3.60	3.93	4.29	4.69	5.19	5.94	6.61
Dec	1.33	1.67	2.15	2.56	2.95	3.34	3.77	4.27	4.91	5.89	6.78
Ann	34.11	35.59	37.44	38.82	40.02	41.16	42.33	43.60	45.12	47.29	49.13

\+ 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: 1926-2001
(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	35.7	36.7	11	10
Feb	21.6	17.0	13	11
Mar	17.2	14.5	9	7
Apr	5.0	4.6	1	#
May	.2	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.7	.0	#	0
Nov	9.7	8.5	1	1
Dec	29.1	28.2	6	5
Ann	119.2	109.5	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	21.0	1997	12	74.0	1971	45	1978	21	30	1978
Feb	24.0	1972	20	52.7	1993	44	1977	3	36	1978
Mar	25.0	1971	4	62.0	1971	41	1971	5	29	1971
Apr	9.0	1993	23	18.0	1979	20	1972	7	9	1994
May	2.0	1977	9	2.0	1977	1	1996	12	#+	1997
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	#	1992	30	#	1992	0	0	0	0	0
Oct	7.0	1988	23	13.0	1988	8	1988	23	1	1988
Nov	8.0	1995	15	23.5	1989	11	1997	18	4	1997
Dec	20.0	1978	25	59.1	1977	29	1978	27	14	1977
Ann	25.0	Mar 1971	4	74.0	Jan 1971	45	Jan 1978	21	36	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	15.4	9.9	4.1	2.3	.5
Feb	11.1	6.6	2.7	1.2	.2
Mar	8.7	4.5	1.7	.9	.2
Apr	3.1	2.0	.4	.2	.0
May	.2	.2	.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	.5	.3	@	@	.0
Nov	5.6	3.9	1.2	.4	.0
Dec	13.5	8.0	3.4	1.7	.3
Ann	58.1	35.4	13.5	6.7	1.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	27.0	22.7	19.6	12.4
Feb	25.3	23.2	20.8	14.8
Mar	19.7	17.0	15.0	9.3
Apr	4.7	3.1	2.1	1.0
May	.1	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	@	@	.0
Nov	7.7	3.9	2.2	.2
Dec	22.1	15.7	11.8	5.7
Ann	106.8	85.6	71.5	43.4

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

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	8/29	9/03	9/07	9/10	9/12	9/15	9/18	9/22	9/27
32	9/11	9/16	9/19	9/22	9/24	9/27	9/30	10/03	10/07
28	9/20	9/26	9/30	10/03	10/06	10/10	10/13	10/17	10/23
24	10/05	10/10	10/14	10/17	10/20	10/23	10/27	10/30	11/05
20	10/18	10/23	10/27	10/31	11/03	11/06	11/09	11/13	11/19
16	11/01	11/07	11/11	11/14	11/18	11/21	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	127	119	113	108	103	99	93	88	79
32	150	143	139	135	131	128	124	119	113
28	177	169	164	159	154	150	145	139	132
24	204	198	194	190	186	183	179	174	168
20	230	223	218	214	210	206	201	196	189
16	254	247	241	237	232	228	223	218	210

***** 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	1475	1262	1098	682	319	102	28	56	224	567	871	1283	7967
60	1320	1122	943	534	195	35	4	11	108	415	721	1128	6536
57	1227	1038	850	447	135	14	0	2	60	328	631	1035	5767
55	1165	982	788	391	102	7	0	0	38	274	571	973	5291
50	1010	842	636	263	43	1	0	0	8	159	423	818	4203
32	484	377	191	19	0	0	0	0	0	3	57	335	1466

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	32	39	116	327	715	937	1109	1047	772	459	176	75	5804
55	0	0	0	9	104	254	396	335	120	18	0	0	1236
57	0	0	0	5	75	201	334	275	82	10	0	0	982
60	0	0	0	1	42	131	245	190	40	3	0	0	652
65	0	0	0	0	11	49	114	80	6	0	0	0	260
70	0	0	0	0	2	10	34	20	0	0	0	0	66

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	2	33	146	456	696	864	798	523	229	64	7	1	3	36	182	638	1334	2198	2996	3519	3748	3812	3819
45	0	0	11	76	311	547	709	643	377	131	26	2	0	0	11	87	398	945	1654	2297	2674	2805	2831	2833
50	0	0	4	38	197	401	554	488	244	63	10	0	0	0	4	42	239	640	1194	1682	1926	1989	1999	1999
55	0	0	0	14	103	264	399	337	138	23	2	0	0	0	0	14	117	381	780	1117	1255	1278	1280	1280
60	0	0	0	3	42	147	247	201	65	2	0	0	0	0	0	3	45	192	439	640	705	707	707	707
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	20	93	272	431	557	507	310	134	30	1	0	0	20	113	385	816	1373	1880	2190	2324	2354	2355

(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