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: LITTLE VALLEY, NY **COOP ID: 304808**

Climate Division: NY 1 **NWS Call Sign:** **Elevation: 1,625 Feet** **Lat: 42˚15N** **Lon: 78˚49W**

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	29.2	12.6	20.9	70	1950	26	29.9	1990	-26	1996	7	9.5	1977	1367	0	.0	.0	1.5	18.6	29.4	5.7
Feb	31.4	12.9	22.2	67	1997	22	31.2	1998	-28	1979	18	11.6	1979	1200	0	.0	.0	2.6	15.3	26.5	5.7
Mar	40.6	20.5	30.6	80	1986	31	39.3	1973	-18	1950	4	22.7	1984	1069	0	.0	.0	8.2	8.0	26.8	1.9
Apr	52.7	31.2	42.0	88	1990	29	46.1	1985	5	1969	1	34.7	1975	691	0	.0	.0	18.0	.9	18.2	.0
May	65.4	40.9	53.2	89+	1979	10	60.8	1991	20+	1985	4	45.7	1997	379	11	.0	.0	28.8	.0	6.7	.0
Jun	74.0	50.3	62.2	95	1952	27	65.6	1973	29+	1972	11	58.2	1985	122	37	.0	.2	29.9	.0	.3	.0
Jul	77.9	54.5	66.2	96	1994	9	70.1	1987	34	1963	9	62.1	2000	45	82	.0	1.1	31.0	.0	.0	.0
Aug	75.8	53.5	64.7	94+	1988	3	68.8	1995	31+	1982	29	60.9	1982	71	61	.0	.5	31.0	.0	.1	.0
Sep	68.0	47.0	57.5	95	1953	4	62.0	1971	22	1957	29	54.0	1975	228	3	.0	@	29.8	.0	1.4	.0
Oct	57.1	36.7	46.9	86	1951	6	53.9	1971	14	1952	21	42.4	1976	562	0	.0	.0	23.6	.1	10.5	.0
Nov	44.7	29.2	37.0	77	1950	2	42.1	1975	-5+	1971	24	30.3	1976	842	0	.0	.0	10.7	3.8	20.4	.1
Dec	33.7	19.4	26.6	71	1982	4	34.2	1982	-22+	1988	13	12.9	1989	1192	0	.0	.0	2.9	13.5	28.3	1.8
Ann	54.2	34.1	44.2	96	Jul 1994	9	70.1	Jul 1987	-28	Feb 1979	18	9.5	Jan 1977	7768	194	.0	1.8	218.0	60.2	168.6	15.2

\+ 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	3.64	3.36	1.95	1998	8	6.34	1998	1.71	1983
Feb	2.91	2.80	2.18	1961	26	5.63	1972	.42	1987
Mar	3.54	3.29	1.94	1991	4	6.53	1974	.94	2000
Apr	3.70	3.52	2.07	1961	25	6.13	1996	1.81	1985
May	3.77	3.40	2.48	1970	23	8.58	1984	.94	1991
Jun	4.71	4.42	3.62	1972	23	10.33	1972	.82	1991
Jul	4.16	4.07	2.25	1987	3	8.85	1992	1.98	1989
Aug	4.30	3.96	3.02	1994	14	8.53	1977	1.93	1993
Sep	4.82	5.17	3.43	1989	15	9.55	1977	1.62	1985
Oct	4.04	3.50	3.19	1959	7	7.62	1990	1.78	1994
Nov	4.60	4.51	2.90	1999	3	8.30	1985	1.75	2000
Dec	4.20	3.82	1.40	1961	8	7.44	1975	1.68	2000
Ann	48.39	46.70	3.62	Jun 1972	23	10.33	Jun 1972	.42	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.6	12.0	1.4	.2
Feb	14.1	8.5	1.1	.2
Mar	14.4	9.7	2.0	.4
Apr	13.6	9.8	2.3	.4
May	12.3	8.9	2.5	.4
Jun	12.9	9.8	3.3	1.0
Jul	11.7	8.6	3.0	.8
Aug	12.4	8.8	2.7	.9
Sep	13.1	9.4	3.3	1.0
Oct	13.8	10.0	2.6	.6
Nov	15.8	11.4	3.1	.6
Dec	18.3	12.1	2.3	.4
Ann	171.0	119.0	29.6	6.9

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	1.69	2.00	2.44	2.80	3.13	3.46	3.82	4.22	4.73	5.50	6.19
Feb	.88	1.16	1.57	1.93	2.27	2.63	3.03	3.49	4.09	5.03	5.90
Mar	1.41	1.74	2.20	2.59	2.95	3.32	3.71	4.17	4.75	5.64	6.45
Apr	2.12	2.40	2.77	3.06	3.33	3.59	3.87	4.18	4.56	5.13	5.63
May	1.16	1.51	2.05	2.51	2.95	3.41	3.92	4.51	5.28	6.48	7.60
Jun	1.52	1.97	2.63	3.19	3.73	4.29	4.91	5.63	6.55	7.99	9.33
Jul	1.92	2.28	2.79	3.20	3.58	3.96	4.37	4.83	5.42	6.31	7.11
Aug	1.89	2.27	2.81	3.24	3.65	4.06	4.51	5.01	5.65	6.62	7.50
Sep	1.96	2.40	3.02	3.54	4.02	4.52	5.05	5.66	6.43	7.62	8.70
Oct	1.77	2.13	2.64	3.05	3.43	3.82	4.24	4.71	5.32	6.23	7.06
Nov	1.95	2.36	2.95	3.43	3.88	4.34	4.83	5.39	6.10	7.19	8.17
Dec	2.20	2.54	3.00	3.37	3.71	4.05	4.40	4.80	5.31	6.06	6.72
Ann	37.24	39.47	42.28	44.39	46.25	48.03	49.86	51.87	54.29	57.76	60.74

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	31.3	30.0	8	6
Feb	22.8	20.0	8	6
Mar	19.1	16.0	4	2
Apr	6.7	6.0	1	#
May	.5	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.9	.0	#	#
Nov	15.7	10.0	1	1
Dec	34.2	33.0	5	4
Ann	131.2	115.0	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	13.0	1976	5	64.0	1976	38	1994	23	27	1994
Feb	17.0	1972	20	63.0	1972	48	1977	5	24+	1994
Mar	16.0	1971	4	54.0	1971	23+	1994	1	15	1993
Apr	23.0	1975	5	38.0	1975	30	1975	5	5	1975
May	5.0	1989	7	7.0	1989	7	1989	8	#+	1996
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	9.0	1976	22	14.0	1976	6	1976	23	1	1976
Nov	14.0	1995	15	52.5	1995	24	1995	16	9	1995
Dec	17.0	1975	19	63.0	1975	42	1977	11	11	1989
Ann	23.0	Apr 1975	5	64.0	Jan 1976	48	Feb 1977	5	27	Jan 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	12.2	11.9	4.6	1.6	.1
Feb	8.8	8.3	3.0	1.0	.1
Mar	6.8	6.6	2.5	1.1	.1
Apr	2.3	2.3	.8	.2	.1
May	.2	.2	@	@	.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	.3	.3	.1	.1	.0
Nov	5.2	5.0	1.9	.9	.2
Dec	10.0	9.8	4.0	2.2	.5
Ann	45.8	44.4	16.9	7.1	1.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	23.3	19.2	14.4	7.1
Feb	21.7	17.5	13.2	7.4
Mar	11.9	7.3	4.4	2.1
Apr	3.0	1.6	1.1	.2
May	.2	@	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.3	.1	.1	.0
Nov	6.5	3.2	1.7	.6
Dec	18.3	12.5	8.1	4.3
Ann	85.2	61.4	43.0	21.7

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

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	128	121	115	111	106	102	97	92	84
32	142	137	133	130	127	124	121	117	112
28	183	175	170	166	161	157	153	147	140
24	213	206	201	196	192	188	184	178	171
20	229	223	218	214	210	207	203	198	192
16	258	250	245	240	236	231	227	221	214

***** 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	1367	1200	1069	691	379	122	45	71	228	562	842	1192	7768
60	1212	1060	914	542	249	47	7	15	105	411	692	1037	6291
57	1119	976	821	453	183	22	0	4	55	325	602	944	5504
55	1057	920	759	395	146	12	0	1	34	272	542	882	5020
50	902	780	605	260	72	2	0	0	7	159	397	729	3913
32	381	315	162	11	0	0	0	0	0	4	50	261	1184

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	36	39	116	310	655	904	1061	1012	765	465	198	92	5653
55	0	0	0	4	87	226	348	300	108	20	0	0	1093
57	0	0	0	2	63	176	286	241	70	12	0	0	850
60	0	0	0	0	35	111	199	159	30	4	0	0	538
65	0	0	0	0	11	37	82	61	3	0	0	0	194
70	0	0	0	0	2	7	18	12	0	0	0	0	39

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	5	11	54	162	432	680	834	789	550	260	86	15	5	16	70	232	664	1344	2178	2967	3517	3777	3863	3878
45	0	1	28	93	293	530	679	634	404	153	40	5	0	1	29	122	415	945	1624	2258	2662	2815	2855	2860
50	0	0	7	46	180	388	524	479	267	80	16	2	0	0	7	53	233	621	1145	1624	1891	1971	1987	1989
55	0	0	2	19	99	252	369	326	155	32	3	0	0	0	2	21	120	372	741	1067	1222	1254	1257	1257
60	0	0	0	5	42	139	222	189	73	4	0	0	0	0	0	5	47	186	408	597	670	674	674	674
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	4	43	116	271	426	535	496	330	160	49	6	0	4	47	163	434	860	1395	1891	2221	2381	2430	2436

(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