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: CHERRY VALLEY 2 NNE, NY **COOP ID: 301436**

Climate Division: NY 2 **NWS Call Sign:** **Elevation: 1,360 Feet** **Lat: 42˚49N** **Lon: 74˚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	28.5	11.5	20.0	65	1995	15	30.8	1990	-27	1957	15	11.3	1994	1395	0	.0	.0	1.2	20.3	30.0	6.5
Feb	31.0	13.4	22.2	62	1981	19	30.2	1981	-26+	1979	18	10.6	1979	1199	0	.0	.0	1.5	16.0	26.7	4.6
Mar	40.4	22.1	31.3	80	1986	30	38.8	1973	-14	1993	19	24.3	1984	1047	0	.0	.0	6.0	7.5	26.7	1.1
Apr	53.2	33.0	43.1	86	1962	28	48.7	1991	6	1954	4	36.6	1975	657	0	.0	.0	17.8	.6	15.4	.0
May	66.5	44.2	55.4	88+	1964	23	60.8	1998	18	1956	9	50.2	1997	312	12	.0	.0	29.7	.0	2.2	.0
Jun	74.2	52.8	63.5	92+	1964	30	66.9	1999	32+	1986	3	59.7	1980	90	45	.0	.0	30.0	.0	@	.0
Jul	78.3	57.5	67.9	94	1953	18	71.4	1999	38	1979	7	63.9	2000	24	114	.0	.3	31.0	.0	.0	.0
Aug	76.3	56.1	66.2	93+	1965	15	69.7	1973	35	1986	30	63.0	1992	40	77	.0	.2	31.0	.0	.0	.0
Sep	68.6	48.9	58.8	96	1953	2	63.1	1971	24	1963	24	56.5	1975	193	6	.0	.0	29.7	.0	1.0	.0
Oct	57.7	38.2	48.0	85	1963	7	54.1	1971	15	1972	20	43.8	1972	529	0	.0	.0	23.6	@	8.9	.0
Nov	45.0	29.2	37.1	76	1982	2	43.4	1975	3+	1996	28	31.5	1996	838	0	.0	.0	9.3	4.1	19.7	.0
Dec	33.6	17.9	25.8	66	1982	6	33.7	1998	-25	1980	25	10.8	1989	1218	0	.0	.0	2.2	15.1	29.0	2.3
Ann	54.4	35.4	44.9	96	Sep 1953	2	71.4	Jul 1999	-27	Jan 1957	15	10.6	Feb 1979	7542	254	.0	.5	213.0	63.6	159.6	14.5

\+ 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: 1949-2001

(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	3.14	2.88	1.62	1990	21	6.69	1979	.79	1981
Feb	2.65	2.66	2.66	1950	19	5.50	1986	.73	1987
Mar	3.72	3.83	3.68	1990	20	6.43	1977	.79	1981
Apr	3.93	3.51	2.24	1983	19	9.26	1983	1.62	1999
May	4.31	4.20	2.30	1969	30	9.26	1990	1.06	1980
Jun	4.58	4.36	2.80	1973	29	9.08	2000	1.19	1988
Jul	4.41	4.15	3.80	1974	3	9.36	1974	1.35	1973
Aug	4.07	3.80	4.64	1949	29	9.53	2000	1.03	1995
Sep	4.15	3.64	3.95	1960	12	10.38	1977	1.58	1971
Oct	3.61	3.38	3.25	1995	21	8.07	1995	.43	1982
Nov	3.89	3.92	2.25	1996	9	7.80	1972	1.51	1978
Dec	3.32	2.82	2.30	1969	8	7.01	1973	.87	1979
Ann	45.78	42.58	4.64	Aug 1949	29	10.38	Sep 1977	.43	Oct 1982

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.6	1.8	.6
Feb	8.5	5.7	1.6	.7
Mar	11.5	7.6	2.2	.6
Apr	11.9	8.5	2.4	.8
May	12.1	9.1	3.2	.8
Jun	11.9	9.1	3.5	.9
Jul	10.6	7.8	3.4	1.0
Aug	10.8	7.6	2.6	.9
Sep	11.1	8.1	2.5	.7
Oct	10.8	7.7	2.0	.7
Nov	11.8	8.5	2.3	.7
Dec	11.0	7.7	1.8	.4
Ann	133.1	95.0	29.3	8.8

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	1.02	1.32	1.76	2.13	2.49	2.86	3.27	3.75	4.36	5.32	6.20
Feb	.88	1.14	1.50	1.82	2.12	2.43	2.77	3.17	3.67	4.47	5.19
Mar	1.61	1.95	2.41	2.79	3.15	3.51	3.90	4.34	4.90	5.75	6.52
Apr	1.58	1.94	2.45	2.88	3.28	3.68	4.12	4.62	5.27	6.25	7.14
May	1.74	2.14	2.70	3.16	3.60	4.04	4.52	5.07	5.76	6.83	7.80
Jun	1.45	1.88	2.53	3.08	3.61	4.17	4.77	5.48	6.40	7.83	9.15
Jul	1.81	2.21	2.78	3.25	3.69	4.14	4.62	5.18	5.88	6.96	7.94
Aug	1.31	1.70	2.27	2.76	3.22	3.71	4.24	4.86	5.66	6.91	8.06
Sep	1.56	1.94	2.50	2.96	3.40	3.85	4.34	4.91	5.63	6.74	7.75
Oct	1.07	1.41	1.93	2.37	2.80	3.25	3.75	4.33	5.09	6.27	7.36
Nov	1.73	2.07	2.56	2.95	3.31	3.68	4.08	4.53	5.11	5.97	6.76
Dec	1.15	1.46	1.92	2.30	2.67	3.05	3.46	3.95	4.56	5.52	6.40
Ann	34.27	36.54	39.43	41.61	43.53	45.38	47.28	49.37	51.90	55.54	58.67

\+ 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: 1949-2001
(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	28.6	28.0	16	12	28.0	1983	16	59.0	1987	57	1994	17	47	1978	8.8	8.2	3.5	1.7	.5	21.6	20.3	19.4	15.3
Feb	17.1	16.0	21	13	16.0	1993	23	36.0	1986	76	1978	12	66	1978	6.7	6.3	2.3	1.0	.1	-9.9	-9.9	-9.9	-9.9
Mar	22.1	19.0	12	4	24.0	1977	23	47.0	1977	76	1978	5	45+	1994	6.2	5.7	2.5	1.2	.3	11.4	8.7	6.8	4.4
Apr	6.9	4.0	2	#	20.0	1983	19	34.5	1983	33	1971	1	17	1994	2.3	2.0	.8	.4	.2	3.6	2.9	2.2	1.5
May	.9	.0	#	0	11.5	1977	9	11.5	1977	8	1977	9	#+	1997	.3	.3	.1	@	@	.1	.1	@	.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	#	1992	30	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	#	#	0	6.0	1987	4	9.0	1987	5	1993	31	#+	2000	.4	.3	.1	.1	.0	.1	.1	@	.0
Nov	12.4	11.5	1	1	20.0	1971	25	32.5	1971	24	1971	26	8	1995	4.1	3.7	1.6	.8	.2	5.3	3.4	1.9	1.0
Dec	26.1	24.5	6	5	19.0	1978	25	44.5+	2000	48	1977	22	29	1977	7.7	7.1	3.2	1.6	.2	16.9	13.4	11.4	7.0
Ann	114.8	103.0	N/A	N/A	28.0	Jan 1983	16	59.0	Jan 1987	76+	Mar 1978	5	66	Feb 1978	36.5	33.6	14.1	6.8	1.5	-9.9	-9.9	-9.9	-9.9

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

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	9/09	9/12	9/15	9/18	9/20	9/23	9/26	10/01
32	9/17	9/21	9/23	9/26	9/28	9/30	10/02	10/05	10/09
28	9/28	10/02	10/06	10/08	10/11	10/14	10/16	10/20	10/24
24	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/05	11/11
20	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/19	11/24
16	11/05	11/10	11/14	11/18	11/21	11/24	11/27	12/01	12/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	137	129	124	119	115	111	106	101	93
32	155	149	145	141	138	134	130	126	120
28	185	178	173	169	165	161	157	153	146
24	212	205	200	196	192	188	184	179	172
20	238	230	225	221	216	212	208	202	195
16	260	252	247	242	238	233	228	223	215

***** 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	1395	1199	1047	657	312	90	24	40	193	529	838	1218	7542
60	1240	1059	892	509	189	26	2	5	82	378	688	1063	6133
57	1147	975	799	422	130	9	0	0	41	293	598	970	5384
55	1085	919	737	366	98	4	0	0	24	241	538	908	4920
50	930	779	583	239	41	0	0	0	4	133	393	753	3855
32	405	313	138	11	0	0	0	0	0	2	49	272	1190

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	33	37	114	344	723	945	1113	1059	803	496	201	77	5945
55	0	0	0	9	108	259	400	346	137	22	0	0	1281
57	0	0	0	5	78	205	338	285	94	12	0	0	1017
60	0	0	0	2	44	132	247	196	45	4	0	0	670
65	0	0	0	0	12	45	114	77	6	0	0	0	254
70	0	0	0	0	2	7	32	16	0	0	0	0	57

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	2	6	38	167	483	709	873	817	564	267	79	10	2	8	46	213	696	1405	2278	3095	3659	3926	4005	4015
45	1	0	15	91	333	559	718	662	415	156	35	5	1	1	16	107	440	999	1717	2379	2794	2950	2985	2990
50	0	0	6	49	210	411	563	507	276	75	14	0	0	0	6	55	265	676	1239	1746	2022	2097	2111	2111
55	0	0	1	19	111	271	408	353	161	28	2	0	0	0	1	20	131	402	810	1163	1324	1352	1354	1354
60	0	0	0	6	48	149	256	212	78	6	0	0	0	0	0	6	54	203	459	671	749	755	755	755
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	29	103	283	439	566	523	325	141	39	6	0	1	30	133	416	855	1421	1944	2269	2410	2449	2455

(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