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: ALCOVE DAM, NY **COOP ID: 300063**

Climate Division: NY 5 **NWS Call Sign:** **Elevation: 607 Feet** **Lat: 42˚28N** **Lon: 73˚56W**

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	31.0	10.7	20.9	61+	1974	28	30.4	1990	-29	1994	21	11.3	1994	1370	0	.0	.0	1.7	17.2	30.0	7.0
Feb	33.7	12.0	22.9	70	1985	25	31.2	1984	-24	1979	18	13.0	1979	1181	0	.0	.0	2.0	12.8	26.7	5.5
Mar	42.9	22.5	32.7	86	1986	30	37.8	1977	-13+	1993	19	26.7	1984	1001	0	.0	.0	7.8	4.9	26.7	.9
Apr	55.1	33.6	44.4	90	1976	20	48.1	1981	10	1982	7	38.0	1972	620	0	.0	@	20.0	.2	15.1	.0
May	67.9	44.3	56.1	96	1964	24	60.7	1998	21+	1967	8	51.6	1997	283	8	.0	.1	30.2	.0	2.5	.0
Jun	75.9	53.0	64.5	96+	1984	11	67.9	1976	26	1967	1	60.6	1985	72	56	.0	1.1	30.0	.0	.1	.0
Jul	81.1	57.9	69.5	100	1988	12	72.9	1982	38	1977	28	64.2	2000	16	156	@	2.5	31.0	.0	.0	.0
Aug	78.8	56.5	67.7	102	1955	6	75.1	1973	31	1965	30	64.0	1992	39	120	.0	1.4	31.0	.0	@	.0
Sep	70.7	48.2	59.5	98	1980	23	63.7	1971	23	1965	28	56.5	1984	181	14	.0	.4	30.0	.0	1.2	.0
Oct	59.4	36.9	48.2	89	1963	8	53.7	1971	12	1972	21	43.6	1972	522	0	.0	.0	26.5	.0	11.5	.0
Nov	47.1	29.1	38.1	81	1982	3	43.9	1979	5+	1972	23	33.2	1986	807	0	.0	.0	11.7	1.6	21.3	.0
Dec	35.8	18.4	27.1	70	1984	30	33.0	1984	-24	1980	25	12.4	1989	1175	0	.0	.0	2.3	10.5	28.9	2.2
Ann	56.6	35.3	46.0	102	Aug 1955	6	75.1	Aug 1973	-29	Jan 1994	21	11.3	Jan 1994	7267	354	@	5.5	224.2	47.2	164.0	15.6

\+ 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	2.67	2.33	2.84	1978	9	6.94	1996	.00	1989
Feb	2.20	2.02	2.00	1993	28	6.16	1981	.05	1987
Mar	3.26	2.53	5.38	1980	22	9.14	1980	.19	1981
Apr	3.59	2.86	2.27	1969	23	9.68	1983	.84	1986
May	4.02	4.32	2.25	1984	29	8.20	1984	.48	1993
Jun	4.17	3.43	4.28	2000	7	10.15	1982	.85	1999
Jul	4.02	3.45	3.72	1979	22	8.36	1975	.49	1985
Aug	3.47	3.34	4.56	1971	28	6.31	1971	1.18	1993
Sep	3.72	3.23	6.89	1999	17	10.82	1999	.59	1972
Oct	3.30	2.81	4.20	1955	16	7.49	1995	.72	1982
Nov	3.68	3.26	2.93	1990	11	7.98	1972	1.08	1973
Dec	2.83	2.65	3.56	1948	31	8.35	1973	.58	1988
Ann	40.93	39.19	6.89	Sep 1999	17	10.82	Sep 1999	.00	Jan 1989

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.2	5.3	1.8	.5
Feb	7.5	4.5	1.5	.5
Mar	9.5	5.6	2.3	.8
Apr	10.6	6.8	2.7	1.0
May	12.6	7.9	2.6	1.1
Jun	11.4	7.3	2.6	.8
Jul	10.4	6.7	2.9	.9
Aug	9.3	6.1	2.0	.7
Sep	10.5	6.5	2.3	.9
Oct	8.5	5.3	2.1	.8
Nov	9.6	6.3	2.5	1.2
Dec	9.0	5.4	2.0	.6
Ann	118.1	73.7	27.3	9.8

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	.18	.45	.88	1.27	1.68	2.13	2.65	3.29	4.15	5.56	6.92
Feb	.39	.58	.90	1.20	1.51	1.84	2.22	2.68	3.29	4.28	5.22
Mar	.73	1.04	1.51	1.94	2.37	2.83	3.34	3.96	4.76	6.05	7.26
Apr	1.05	1.39	1.90	2.35	2.78	3.23	3.72	4.31	5.06	6.25	7.35
May	1.08	1.47	2.05	2.56	3.06	3.58	4.16	4.85	5.75	7.15	8.47
Jun	.73	1.10	1.71	2.28	2.86	3.49	4.22	5.09	6.26	8.14	9.94
Jul	1.01	1.39	1.98	2.49	3.01	3.55	4.15	4.86	5.80	7.27	8.66
Aug	1.49	1.81	2.25	2.60	2.94	3.28	3.64	4.06	4.59	5.39	6.12
Sep	.80	1.15	1.69	2.19	2.68	3.21	3.81	4.52	5.46	6.96	8.38
Oct	.84	1.15	1.63	2.05	2.47	2.91	3.40	3.99	4.75	5.95	7.08
Nov	1.02	1.37	1.90	2.36	2.81	3.29	3.81	4.43	5.23	6.49	7.67
Dec	.61	.87	1.28	1.66	2.04	2.44	2.90	3.44	4.16	5.31	6.39
Ann	27.81	30.30	33.53	35.99	38.19	40.32	42.54	44.99	47.99	52.35	56.14

\+ 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	1.9	-99.9	1	0	5.6	1999	15	5.6	1999	10	1999	15	4	1999	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	3.0	-99.9	1	0	4.5	1998	24	5.9	1992	9	1998	25	2	1998	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	.4	-99.9	#	0	1.7	2000	17	1.9	2000	6	1998	22	1	1998	.2	.1	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Apr	.3	.0	0	0	3.0	2000	9	3.0	2000	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	2.0	1990	12	2.0	1990	#+	1992	17	#+	1992	.2	.2	.0	.0	.0	.0	.0	.0	.0
Dec	2.5	-99.9	0	0	8.4	1989	18	12.3	1989	8	1989	18	3	1989	.7	.6	.3	.1	.0	-9.9	-9.9	-9.9	-9.9
Ann	8.4	-9.9	N/A	N/A	8.4	Dec 1989	18	12.3	Dec 1989	10	Jan 1999	15	4	Jan 1999	-9.9	-9.9	-9.9	-9.9	-9.9	-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	6/14	6/08	6/03	5/30	5/27	5/23	5/19	5/15	5/08
32	5/28	5/23	5/19	5/15	5/12	5/09	5/05	5/01	4/25
28	5/11	5/06	5/03	5/01	4/28	4/26	4/23	4/20	4/16
24	4/27	4/23	4/19	4/17	4/14	4/12	4/09	4/06	4/02
20	4/17	4/12	4/08	4/05	4/03	3/31	3/28	3/24	3/19
16	4/04	4/01	3/29	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	8/29	9/04	9/09	9/12	9/16	9/19	9/23	9/27	10/03
32	9/10	9/16	9/20	9/24	9/27	9/30	10/04	10/08	10/14
28	9/27	10/02	10/05	10/08	10/11	10/14	10/17	10/20	10/25
24	10/07	10/14	10/18	10/22	10/26	10/29	11/02	11/07	11/13
20	10/25	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/28
16	11/06	11/11	11/15	11/19	11/22	11/25	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	139	130	123	117	111	106	100	93	83
32	165	156	149	143	137	132	126	119	109
28	183	177	173	169	165	162	158	153	147
24	218	210	204	198	193	189	183	177	169
20	247	238	232	227	222	217	211	205	196
16	263	255	250	245	241	237	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	1370	1181	1001	620	283	72	16	39	181	522	807	1175	7267
60	1215	1041	846	470	158	18	0	7	78	371	657	1020	5881
57	1122	957	753	383	100	5	0	1	40	286	567	927	5141
55	1060	901	691	327	70	2	0	0	23	234	507	865	4680
50	905	761	537	202	23	0	0	0	4	125	361	710	3628
32	383	298	108	5	0	0	0	0	0	1	33	237	1065

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	36	41	130	376	748	973	1163	1104	823	501	216	86	6197
55	0	0	0	8	106	285	450	391	156	22	0	0	1418
57	0	0	0	4	74	228	388	330	112	12	0	0	1148
60	0	0	0	1	38	151	295	243	61	4	0	0	793
65	0	0	0	0	8	56	156	120	14	0	0	0	354
70	0	0	0	0	0	11	60	42	1	0	0	0	114

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	5	44	178	499	733	907	851	580	266	80	10	1	6	50	228	727	1460	2367	3218	3798	4064	4144	4154
45	0	0	18	96	353	583	752	696	430	153	35	3	0	0	18	114	467	1050	1802	2498	2928	3081	3116	3119
50	0	0	5	45	219	435	597	541	288	69	9	0	0	0	5	50	269	704	1301	1842	2130	2199	2208	2208
55	0	0	2	19	118	290	442	387	170	24	3	0	0	0	2	21	139	429	871	1258	1428	1452	1455	1455
60	0	0	0	5	50	162	292	242	85	2	0	0	0	0	0	5	55	217	509	751	836	838	838	838
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	3	35	114	300	455	596	551	351	171	50	5	0	3	38	152	452	907	1503	2054	2405	2576	2626	2631

(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