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: ADDISON, NY **COOP ID: 300023**

Climate Division: NY 1 **NWS Call Sign:** **Elevation: 980 Feet** **Lat: 42˚07N** **Lon: 77˚14W**

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	32.4	12.9	22.7	70	1950	26	31.9	1990	-25	1957	15	12.9	1977	1313	0	.0	.0	1.6	16.0	30.2	3.1
Feb	35.5	13.3	24.4	68+	1997	28	32.2	1976	-28	1979	18	12.5	1979	1138	0	.0	.0	2.4	7.8	27.0	2.7
Mar	44.5	21.7	33.1	84+	1998	31	41.0	1973	-11+	1950	5	24.8	1984	989	0	.0	.0	9.1	3.9	26.9	.9
Apr	57.5	31.3	44.4	90+	1990	29	48.7	1977	13	1976	12	38.0	1975	617	0	.0	.1	22.8	.2	16.9	.0
May	69.6	40.5	55.1	93+	1978	28	61.1	1991	18	1966	10	49.7	1997	318	10	.0	.3	30.2	.0	3.3	.0
Jun	77.4	51.3	64.4	100	1952	27	67.5	1995	25+	1977	8	60.7	1985	76	56	.0	1.1	30.0	.0	.3	.0
Jul	81.4	55.0	68.2	100	1955	5	71.0	1988	36+	1981	23	64.2	2000	20	119	.0	3.2	31.0	.0	.0	.0
Aug	80.0	53.9	67.0	99+	1953	28	71.7	1980	36+	1977	27	63.5	1992	44	105	.0	1.7	31.0	.0	.0	.0
Sep	72.1	46.0	59.1	98	1953	2	63.2	1971	24	1957	27	55.5	1975	185	6	.0	.3	30.0	.0	1.2	.0
Oct	61.0	35.3	48.2	90	1949	12	55.0	1971	10	1976	28	43.2+	1976	523	0	.0	.0	26.8	.0	11.1	.0
Nov	49.0	28.2	38.6	84	1950	2	44.1	1975	0	1958	30	33.5	1996	792	0	.0	.0	14.0	.9	22.7	.0
Dec	37.0	19.4	28.2	71	1998	7	35.5	1982	-20	1980	25	13.9	1989	1142	0	.0	.0	3.2	9.0	28.3	1.5
Ann	58.1	34.1	46.1	100+	Jul 1955	5	71.7	Aug 1980	-28	Feb 1979	18	12.5	Feb 1979	7157	296	.0	6.7	232.1	37.8	167.9	8.2

\+ 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

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	1.71	1.34	1.63	1998	8	5.34	1978	.00	1983
Feb	1.71	1.57	2.40	1961	4	3.95	1981	.22	1999
Mar	2.26	2.04	2.18	1951	31	5.76	1980	.69	1981
Apr	2.67	2.68	1.74	1957	5	4.47	1998	.86	1975
May	2.91	2.65	2.12	1969	20	5.62	1989	.79	1980
Jun	3.79	3.57	3.40	1972	22	10.08	1972	1.06	1991
Jul	3.39	3.36	3.35	1948	22	6.63	1975	1.36	1983
Aug	2.81	2.46	2.55	1955	14	6.63	1977	.90	1998
Sep	3.20	2.99	2.68	1977	14	6.37	1977	1.30	1980
Oct	2.72	2.52	3.52	1955	15	7.24	1990	.51	1974
Nov	2.78	2.47	2.57	1963	8	5.65	1985	.81	1978
Dec	2.34	2.31	1.74	1952	11	4.97	1973	.40	1982
Ann	32.29	31.92	3.52	Oct 1955	15	10.08	Jun 1972	.00	Jan 1983

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	4.8	.9	.3
Feb	6.2	3.2	.7	.1
Mar	11.9	5.6	1.2	.4
Apr	12.0	7.0	1.6	.4
May	13.0	7.6	1.3	.3
Jun	9.7	6.5	1.8	.6
Jul	12.0	7.9	1.9	.6
Aug	11.3	6.5	1.7	.5
Sep	12.1	7.2	1.9	.6
Oct	10.7	5.5	1.3	.6
Nov	10.0	5.4	1.2	.2
Dec	12.1	5.9	1.2	.2
Ann	132.2	73.1	16.7	4.8

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	.30	.54	.83	1.06	1.29	1.52	1.78	2.09	2.49	3.13	3.72
Feb	.49	.66	.90	1.11	1.32	1.53	1.77	2.05	2.42	2.99	3.52
Mar	.85	1.06	1.36	1.62	1.86	2.10	2.37	2.68	3.07	3.68	4.23
Apr	1.14	1.38	1.72	2.00	2.26	2.52	2.80	3.13	3.54	4.16	4.73
May	1.09	1.36	1.75	2.08	2.39	2.70	3.04	3.44	3.95	4.73	5.44
Jun	1.27	1.63	2.15	2.60	3.03	3.47	3.95	4.51	5.24	6.36	7.40
Jul	1.43	1.74	2.17	2.52	2.85	3.19	3.55	3.96	4.49	5.29	6.01
Aug	1.13	1.39	1.75	2.05	2.34	2.63	2.94	3.30	3.76	4.46	5.10
Sep	1.32	1.61	2.02	2.36	2.68	3.00	3.35	3.75	4.26	5.03	5.74
Oct	.83	1.09	1.47	1.81	2.13	2.46	2.83	3.26	3.82	4.69	5.49
Nov	1.00	1.26	1.63	1.95	2.25	2.56	2.90	3.29	3.80	4.57	5.28
Dec	.74	.96	1.29	1.57	1.85	2.13	2.44	2.80	3.26	3.99	4.66
Ann	24.78	26.27	28.17	29.58	30.83	32.03	33.27	34.62	36.24	38.58	40.59

\+ 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

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	8.1	8.1	3	2
Feb	10.0	5.1	4	2
Mar	8.0	4.3	1	#
Apr	.5	.0	#	#
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	2.4	.4	#	#
Dec	7.9	7.7	2	2
Ann	37.0	25.6	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	7.0	1971	30	12.5+	1990	24	1978	24	8	1978
Feb	14.0	1978	7	29.5	1971	25	1971	18	13	1978
Mar	15.0	1971	4	29.0	1971	25	1971	6	8	1971
Apr	6.0	1974	9	6.0	1974	9	1994	1	1	1994
May	#	1997	8	#	1997	#	1997	8	#	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	.0	0	0	.0	0	0	0	0	0	0
Oct	1.0	1972	19	1.0	1972	1	1972	19	#+	1997
Nov	6.0	1971	25	8.3	1972	7	1997	18	2	1997
Dec	17.0	1978	25	18.7	1975	17	1978	30	4	1984
Ann	17.0	Dec 1978	25	29.5	Feb 1971	25+	Mar 1971	6	13	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.6	2.5	.5	.2	.0
Feb	3.3	2.0	.6	.3	.1
Mar	3.5	1.7	.5	.3	.1
Apr	.4	.4	.1	.1	.0
May	.0	.0	.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	.1	.1	.0	.0	.0
Nov	1.5	.8	.2	.2	.0
Dec	5.1	2.9	.6	.2	.1
Ann	19.5	10.4	2.5	1.3	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	4.2	2.2	1.7	.8
Apr	.4	.1	.1	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	2.0	.4	.2	.0
Dec	9.7	4.1	1.3	.4
Ann	-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	6/24	6/16	6/10	6/05	5/31	5/26	5/21	5/15	5/07
32	6/04	5/29	5/25	5/21	5/18	5/14	5/10	5/06	4/30
28	5/17	5/12	5/08	5/05	5/02	4/29	4/26	4/23	4/17
24	4/27	4/23	4/21	4/18	4/16	4/14	4/11	4/08	4/04
20	4/18	4/14	4/11	4/09	4/07	4/04	4/02	3/30	3/26
16	4/10	4/05	4/02	3/30	3/27	3/25	3/22	3/18	3/14

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	9/04	9/09	9/13	9/16	9/18	9/21	9/24	9/28	10/03
32	9/16	9/21	9/24	9/27	9/30	10/03	10/06	10/10	10/15
28	9/30	10/06	10/10	10/13	10/16	10/20	10/23	10/27	11/01
24	10/10	10/17	10/22	10/26	10/30	11/04	11/08	11/13	11/20
20	10/25	11/01	11/06	11/11	11/15	11/19	11/23	11/29	12/06
16	11/03	11/10	11/16	11/21	11/25	11/30	12/05	12/10	12/18

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	140	130	122	116	110	104	97	89	79
32	157	149	144	139	135	131	126	121	113
28	185	179	174	170	166	163	159	154	147
24	219	212	206	201	197	192	188	182	174
20	250	240	233	227	222	216	210	203	194
16	271	261	254	248	242	237	230	223	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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1313	1138	989	617	318	76	20	44	185	523	792	1142	7157
60	1158	998	834	468	192	21	1	8	74	376	642	987	5759
57	1065	914	741	380	131	7	0	1	35	293	552	894	5013
55	1003	858	679	323	97	3	0	0	20	243	493	832	4551
50	848	718	532	196	39	0	0	0	3	139	351	680	3506
32	339	275	125	4	0	0	0	0	0	3	33	225	1004

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	49	62	158	377	715	970	1122	1084	811	503	230	106	6187
55	0	0	0	6	99	283	409	371	141	30	1	0	1340
57	0	0	0	3	71	227	347	310	96	18	0	0	1072
60	0	0	0	0	39	151	255	223	45	8	0	0	721
65	0	0	0	0	10	56	119	105	6	0	0	0	296
70	0	0	0	0	1	10	35	33	0	0	0	0	79

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	9	51	191	501	729	895	846	595	287	75	14	1	10	61	252	753	1482	2377	3223	3818	4105	4180	4194
45	0	0	24	107	354	579	740	691	447	166	29	3	0	0	24	131	485	1064	1804	2495	2942	3108	3137	3140
50	0	0	8	53	222	429	585	536	304	88	7	1	0	0	8	61	283	712	1297	1833	2137	2225	2232	2233
55	0	0	2	24	116	292	430	383	184	36	1	0	0	0	2	26	142	434	864	1247	1431	1467	1468	1468
60	0	0	0	9	45	160	276	236	92	5	0	0	0	0	0	9	54	214	490	726	818	823	823	823
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	5	44	137	324	462	582	541	370	188	49	6	0	5	49	186	510	972	1554	2095	2465	2653	2702	2708

(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