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: ALBION 2 NE, NY **COOP ID: 300055**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 43˚16N** **Lon: 78˚10W**

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	31.3	17.7	24.5	73	1950	25	34.2	1990	-17	1957	15	14.0	1977	1256	0	.0	.0	1.7	16.6	28.5	2.0
Feb	33.8	18.9	26.4	74	1997	21	34.2	1984	-20	1979	18	15.4	1979	1083	0	.0	.0	2.6	13.6	25.2	1.6
Mar	43.5	26.5	35.0	80+	1998	31	41.8	2000	-5+	1999	8	27.1	1984	931	0	.0	.0	8.6	5.8	23.4	.3
Apr	56.6	36.7	46.7	90	1970	30	51.6	1987	9	1972	8	40.4	1975	551	0	.0	.0	20.9	.5	11.2	.0
May	69.7	47.5	58.6	91	1998	16	65.0	1975	27	1956	17	52.2	1997	231	33	.0	.1	30.5	.0	1.0	.0
Jun	78.5	56.8	67.7	96	1988	25	70.7	1999	35	1986	3	63.1	1982	39	120	.0	1.0	30.0	.0	.0	.0
Jul	82.7	62.0	72.4	101	1988	8	76.2	1999	45+	2001	2	66.6	1992	6	234	.1	3.7	31.0	.0	.0	.0
Aug	80.3	60.5	70.4	101	1948	26	74.0	1973	39	1982	29	67.2	1992	11	179	.0	1.9	31.0	.0	.0	.0
Sep	72.8	53.6	63.2	101	1953	3	66.8	1971	30	1957	28	60.0	1975	92	37	.0	.3	30.0	.0	.1	.0
Oct	60.9	42.8	51.9	87+	1954	14	59.0	1971	22	1988	31	47.2	1976	412	4	.0	.0	27.3	.0	3.6	.0
Nov	47.5	33.6	40.6	79	1950	2	47.3	1975	8	1971	23	34.5	1972	733	0	.0	.0	11.6	1.5	14.8	.0
Dec	36.5	23.7	30.1	75	1982	3	37.7	1982	-10	1980	25	17.9	1989	1082	0	.0	.0	3.3	10.0	25.6	.5
Ann	57.8	40.0	49.0	101+	Jul 1988	8	76.2	Jul 1999	-20	Feb 1979	18	14.0	Jan 1977	6427	607	.1	7.0	228.5	48.0	133.4	4.4

\+ 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	2.64	2.15	2.00	1998	8	5.59	1999	.73	1988
Feb	2.07	1.98	1.62	1950	14	4.25	1990	.48	1999
Mar	2.80	2.80	1.90	1992	11	5.41	1991	.31	1981
Apr	3.12	2.96	1.85	1996	13	5.67	1996	1.20	1995
May	2.97	2.56	3.62	1974	17	6.28	1974	.38	1977
Jun	3.56	3.29	3.95	1974	21	9.59	1989	.81	1991
Jul	2.56	2.38	1.89	1988	17	6.61	1992	.18	1989
Aug	3.16	2.90	3.06	1989	6	5.60	1977	1.12	1998
Sep	3.73	3.10	4.83	1979	14	7.41	1977	1.30	1988
Oct	2.84	2.84	2.28	1995	21	6.61	1995	.98	1994
Nov	3.19	2.90	2.16	1985	4	9.29	1985	1.10	1998
Dec	3.14	2.97	1.85	1971	30	6.32	1977	1.25	1988
Ann	35.78	35.68	4.83	Sep 1979	14	9.59	Jun 1989	.18	Jul 1989

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.5	7.4	1.0	.2
Feb	10.5	6.2	.8	.2
Mar	11.7	7.1	1.4	.4
Apr	12.3	7.7	2.1	.4
May	11.5	7.0	1.8	.4
Jun	11.7	7.1	2.0	.7
Jul	9.1	5.8	1.7	.4
Aug	10.0	6.6	1.8	.5
Sep	11.5	7.3	2.5	.8
Oct	12.0	6.6	1.5	.5
Nov	13.9	8.4	1.6	.4
Dec	14.3	8.4	1.2	.3
Ann	143.0	85.6	19.4	5.2

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	.85	1.10	1.47	1.79	2.09	2.41	2.75	3.16	3.68	4.49	5.24
Feb	.73	.92	1.21	1.45	1.67	1.91	2.17	2.46	2.85	3.44	3.98
Mar	.94	1.21	1.60	1.92	2.24	2.56	2.92	3.33	3.86	4.69	5.44
Apr	1.30	1.58	1.98	2.31	2.62	2.94	3.27	3.66	4.15	4.90	5.58
May	.86	1.15	1.57	1.94	2.30	2.67	3.09	3.57	4.20	5.19	6.11
Jun	.95	1.29	1.81	2.26	2.70	3.17	3.69	4.30	5.10	6.35	7.53
Jul	.57	.80	1.18	1.52	1.86	2.21	2.62	3.10	3.74	4.76	5.71
Aug	1.34	1.62	2.02	2.35	2.66	2.97	3.31	3.70	4.19	4.93	5.60
Sep	1.29	1.64	2.15	2.58	3.00	3.42	3.89	4.43	5.13	6.20	7.19
Oct	1.05	1.32	1.70	2.02	2.32	2.63	2.97	3.36	3.86	4.62	5.33
Nov	1.21	1.51	1.93	2.29	2.62	2.97	3.34	3.77	4.32	5.17	5.94
Dec	1.65	1.91	2.25	2.53	2.78	3.03	3.29	3.59	3.96	4.52	5.02
Ann	28.31	29.82	31.71	33.13	34.38	35.57	36.79	38.12	39.72	42.02	43.98

\+ 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	17.5	13.0	3	2
Feb	16.2	15.3	4	2
Mar	10.0	7.0	2	1
Apr	2.7	2.0	#	#
May	.3	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	#	.0	#	0
Nov	5.3	5.0	#	#
Dec	14.4	11.9	2	1
Ann	66.4	54.2	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	1996	3	44.5	1994	30	1999	15	10	1977
Feb	15.0	1984	28	31.0	1984	24	1978	7	18	1971
Mar	16.0	1992	11	37.0	1992	20	1971	12	8	1971
Apr	8.0	1979	9	10.0	1994	8	1979	9	#+	2000
May	8.0	1989	7	8.0	1989	6	1989	7	#+	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	#	1997	28	#+	1997	1	1989	14	#+	1997
Nov	9.0	1995	15	15.5	1997	9	1997	16	2	1996
Dec	10.0	1992	11	37.0	1985	18	1977	6	5	1995
Ann	16.0	Mar 1992	11	44.5	Jan 1994	30	Jan 1999	15	18	Feb 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	9.3	7.8	1.8	.6	@
Feb	6.5	5.4	1.7	.8	.1
Mar	4.2	3.6	1.2	.6	.1
Apr	1.2	1.0	.2	.1	.0
May	@	@	@	@	.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	.0	.0	.0	.0	.0
Nov	2.8	2.1	.6	.3	.0
Dec	7.2	5.9	1.7	.5	@
Ann	31.2	25.8	7.2	2.9	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	13.4	6.9	3.1	.8
Feb	11.1	5.8	3.1	.3
Mar	4.6	2.9	1.6	.5
Apr	.8	.2	.2	.0
May	@	@	@	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	3.5	.8	.4	.0
Dec	10.9	5.1	2.6	.2
Ann	44.3	21.7	11.0	1.8

+ 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	6/02	5/28	5/24	5/20	5/17	5/14	5/11	5/07	5/02
32	5/11	5/08	5/06	5/03	5/02	4/30	4/28	4/25	4/22
28	5/01	4/27	4/24	4/22	4/20	4/17	4/15	4/12	4/08
24	4/20	4/16	4/13	4/11	4/09	4/06	4/04	4/01	3/28
20	4/10	4/05	4/02	3/30	3/28	3/25	3/22	3/19	3/15
16	3/30	3/26	3/24	3/22	3/20	3/17	3/15	3/13	3/09

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	9/20	9/24	9/27	9/29	10/01	10/04	10/06	10/09	10/13
32	9/27	10/02	10/06	10/09	10/12	10/15	10/18	10/21	10/26
28	10/14	10/19	10/23	10/26	10/29	11/02	11/05	11/09	11/14
24	10/25	10/31	11/04	11/08	11/11	11/15	11/18	11/23	11/29
20	11/11	11/16	11/20	11/22	11/25	11/28	12/01	12/04	12/09
16	11/20	11/25	11/29	12/02	12/05	12/08	12/11	12/15	12/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	155	149	144	140	136	132	128	124	117
32	181	175	170	166	163	159	155	151	144
28	214	206	201	196	192	188	183	178	170
24	238	230	225	220	216	212	207	201	194
20	263	256	250	246	242	237	233	228	220
16	280	273	268	264	260	255	251	246	239

***** 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	1256	1083	931	551	231	39	6	11	92	412	733	1082	6427
60	1101	943	776	404	129	8	0	0	27	272	583	927	5170
57	1008	859	683	320	83	3	0	0	11	200	494	834	4495
55	946	803	621	268	60	1	0	0	5	158	436	772	4070
50	791	663	477	155	20	0	0	0	0	78	298	622	3104
32	293	229	98	3	0	0	0	0	0	0	21	185	829

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	60	70	190	442	825	1070	1250	1191	935	615	278	126	7052
55	0	0	1	17	171	381	537	478	250	60	2	0	1897
57	0	0	0	9	133	323	475	416	195	40	1	0	1592
60	0	0	0	3	86	239	382	323	122	19	0	0	1174
65	0	0	0	0	33	120	234	179	37	4	0	0	607
70	0	0	0	0	9	41	110	73	4	0	0	0	237

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	8	13	74	230	560	817	991	934	693	375	121	26	8	21	95	325	885	1702	2693	3627	4320	4695	4816	4842
45	0	4	39	129	407	667	836	779	543	241	62	7	0	4	43	172	579	1246	2082	2861	3404	3645	3707	3714
50	0	0	20	71	271	517	681	624	394	134	25	2	0	0	20	91	362	879	1560	2184	2578	2712	2737	2739
55	0	0	5	38	161	369	526	469	259	67	7	0	0	0	5	43	204	573	1099	1568	1827	1894	1901	1901
60	0	0	2	13	82	235	371	315	142	25	0	0	0	0	2	15	97	332	703	1018	1160	1185	1185	1185
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	7	45	137	332	526	666	621	422	199	56	9	0	7	52	189	521	1047	1713	2334	2756	2955	3011	3020

(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