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: SETAUKET STRONG, NY **COOP ID: 307633**

Climate Division: NY 4 **NWS Call Sign:** **Elevation: 40 Feet** **Lat: 40˚58N** **Lon: 73˚06W**

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	39.9	24.5	32.2	67+	1995	15	39.1	1998	-4+	1984	22	24.5+	1982	1016	0	.0	.0	3.0	10.4	27.6	.2
Feb	41.9	25.5	33.7	69	1976	25	40.2+	1998	-11	1934	9	24.2	1979	876	0	.0	.0	3.5	7.5	26.5	.2
Mar	50.3	31.8	41.1	83	1945	29	46.4	1998	7	1980	1	35.8	1984	743	0	.0	.0	14.8	.6	16.7	.0
Apr	60.8	39.9	50.4	92	1976	18	54.2	1991	17	1982	7	45.7	1972	438	0	.0	.1	27.1	@	4.1	.0
May	71.0	49.4	60.2	95	1996	20	65.4	1991	30+	1970	7	56.6	1971	176	27	.0	.1	30.9	.0	.1	.0
Jun	79.2	58.8	69.0	96+	1999	8	72.2	1999	38	1967	1	64.7	1982	21	141	.0	2.2	30.0	.0	.0	.0
Jul	84.1	64.7	74.4	99+	1999	6	79.1	1999	48	1990	13	70.4	2000	0	293	.0	1.0	31.0	.0	.0	.0
Aug	82.8	64.1	73.5	100	2001	9	77.2	1988	44	1965	30	70.3	1992	0	262	.0	1.8	31.0	.0	.0	.0
Sep	76.0	58.1	67.1	96+	1983	11	70.3	1998	36	1963	25	64.2	1984	32	93	.0	.5	30.0	.0	.1	.0
Oct	65.8	47.3	56.6	91	1941	5	62.0	1990	26	1966	31	52.5	1972	270	9	.0	.0	19.2	.1	.8	.0
Nov	55.6	38.9	47.3	81	1950	2	51.7	1975	14	1932	27	42.3	1976	533	0	.0	.0	9.1	1.0	23.4	.0
Dec	45.0	29.6	37.3	75	1998	7	43.0	1990	-3	1942	20	26.9	1989	858	0	.0	.0	3.6	5.4	23.6	.1
Ann	62.7	44.4	53.6	100	Aug 2001	9	79.1	Jul 1999	-11	Feb 1934	9	24.2	Feb 1979	4963	825	.0	5.7	233.2	25.0	122.9	.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: 1926-2001

(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	3.93	3.33	3.75	1979	21	11.85	1979	1.07	1980
Feb	2.92	2.93	2.75	1966	13	5.17	1981	.53	1987
Mar	4.13	3.90	3.08	1932	28	8.94	1980	1.03	1981
Apr	4.22	4.03	3.97	1996	16	12.55	1983	1.64	1971
May	3.97	3.70	2.52	1989	16	11.03	1989	.29	1986
Jun	3.80	2.98	4.16	1982	5	12.56	1972	.48	1994
Jul	3.57	2.68	5.58	1980	29	9.34	1984	.64	1974
Aug	3.91	3.97	7.58	1955	12	8.55	1976	.38	1995
Sep	3.68	3.34	5.27	1960	12	8.53	1977	.54	1998
Oct	3.80	3.15	3.60	1955	15	11.73	1990	.40	2000
Nov	3.83	3.44	3.60	1930	15	8.49	1988	.45	1976
Dec	3.96	3.69	3.53	1954	14	8.66	1973	.91	1989
Ann	45.72	43.04	7.58	Aug 1955	12	12.56	Jun 1972	.29	May 1986

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	6.3	2.8	1.0
Feb	7.3	5.4	2.0	.8
Mar	8.2	5.9	2.9	1.1
Apr	10.0	7.3	3.1	1.1
May	10.6	7.0	3.0	.9
Jun	9.0	6.0	2.6	1.0
Jul	8.2	5.8	2.1	.9
Aug	7.9	5.4	2.5	1.1
Sep	8.0	5.7	2.4	1.0
Oct	7.7	5.6	2.4	1.0
Nov	8.7	5.8	2.6	1.2
Dec	9.5	7.0	2.5	1.0
Ann	104.0	73.2	30.9	12.1

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	1.07	1.44	2.01	2.50	2.99	3.50	4.07	4.74	5.62	6.99	8.27
Feb	1.04	1.31	1.71	2.05	2.37	2.69	3.05	3.47	4.00	4.83	5.58
Mar	1.51	1.90	2.45	2.92	3.37	3.82	4.32	4.89	5.62	6.75	7.79
Apr	1.42	1.82	2.40	2.90	3.38	3.87	4.41	5.03	5.84	7.09	8.24
May	.87	1.24	1.82	2.34	2.87	3.43	4.06	4.82	5.81	7.40	8.90
Jun	.75	1.10	1.66	2.17	2.68	3.24	3.87	4.62	5.62	7.23	8.75
Jul	.83	1.16	1.68	2.15	2.62	3.11	3.67	4.33	5.20	6.58	7.88
Aug	.72	1.07	1.64	2.17	2.71	3.30	3.97	4.77	5.84	7.56	9.20
Sep	.96	1.30	1.84	2.31	2.77	3.26	3.80	4.45	5.29	6.61	7.85
Oct	.89	1.24	1.80	2.30	2.79	3.32	3.91	4.61	5.53	7.00	8.37
Nov	1.06	1.42	1.97	2.45	2.92	3.42	3.96	4.61	5.45	6.77	8.00
Dec	1.12	1.50	2.07	2.56	3.04	3.55	4.10	4.76	5.62	6.96	8.20
Ann	33.87	36.20	39.17	41.41	43.39	45.30	47.26	49.42	52.03	55.80	59.04

\+ 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: 1926-2001
(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	5.4	1.5	1	#
Feb	4.1	1.8	#	#
Mar	1.7	.7	#	0
Apr	.1	.0	#	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	.0	.0	0	0
Nov	.1	.0	0	0
Dec	1.8	.8	#	0
Ann	13.2	4.8	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	13.5	1978	20	21.0	1978	12	1982	23	6	1981
Feb	11.0	1983	12	16.0	1978	11	1983	12	1	1996
Mar	8.0	1993	13	9.5	1978	7	1974	29	2	1994
Apr	2.0	1982	7	2.0	1982	6	1982	7	#	1982
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Nov	2.5	1978	27	2.5	1978	0	0	0	0	0
Dec	7.6	2000	30	7.6	2000	6+	1995	20	1	1995
Ann	13.5	Jan 1978	20	21.0	Jan 1978	12	Jan 1982	23	6	Jan 1981

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.8	1.4	.4	.2	@
Feb	1.5	1.2	.4	.2	@
Mar	.8	.6	.2	.1	.0
Apr	.1	.1	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.1	@	.0	.0	.0
Dec	1.1	.6	.2	.1	.0
Ann	5.4	3.9	1.2	.6	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	.4	.1	.0	.0
Mar	.1	.0	.0	.0
Apr	.0	.0	.0	.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	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.1	.1	.0	.0
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	5/07	5/04	5/01	4/29	4/27	4/25	4/23	4/20	4/16
32	5/01	4/25	4/21	4/17	4/14	4/11	4/08	4/03	3/29
28	4/12	4/08	4/04	4/01	3/30	3/27	3/24	3/21	3/17
24	4/03	3/30	3/27	3/24	3/21	3/19	3/16	3/13	3/09
20	3/24	3/19	3/16	3/13	3/10	3/07	3/04	3/01	2/24
16	3/16	3/11	3/07	3/04	2/28	2/25	2/22	2/18	2/13

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	185	177	171	167	162	158	153	148	140
32	218	210	204	200	195	191	186	181	173
28	233	228	225	221	219	216	213	209	204
24	249	243	238	235	231	228	224	220	214
20	276	268	262	257	252	247	242	236	227
16	312	301	293	286	279	273	266	258	247

***** 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	1016	876	743	438	176	21	0	0	32	270	533	858	4963
60	861	736	588	292	78	3	0	0	5	148	384	703	3798
57	768	652	495	212	41	0	0	0	1	92	297	610	3168
55	706	596	433	164	25	0	0	0	0	63	244	551	2782
50	557	460	288	70	4	0	0	0	0	19	129	408	1935
32	133	90	13	0	0	0	0	0	0	0	1	64	301

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	140	138	293	552	874	1110	1316	1285	1051	762	458	229	8208
55	0	0	0	25	186	420	603	572	362	112	11	3	2294
57	0	0	0	13	140	361	541	510	302	79	4	0	1950
60	0	0	0	4	84	273	448	417	216	41	1	0	1484
65	0	0	0	0	27	141	293	262	93	9	0	0	825
70	0	0	0	0	4	50	148	118	20	1	0	0	341

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	15	12	106	297	585	883	984	1027	684	346	55	30	15	27	133	430	1015	1898	2882	3909	4593	4939	4994	5024
45	3	2	45	165	430	733	829	872	534	223	24	8	3	5	50	215	645	1378	2207	3079	3613	3836	3860	3868
50	0	0	12	74	278	583	674	717	384	126	5	2	0	0	12	86	364	947	1621	2338	2722	2848	2853	2855
55	0	0	3	30	144	434	519	562	241	54	0	0	0	0	3	33	177	611	1130	1692	1933	1987	1987	1987
60	0	0	0	4	57	288	364	407	127	10	0	0	0	0	0	4	61	349	713	1120	1247	1257	1257	1257
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	4	7	55	169	324	577	667	712	426	155	31	5	4	11	66	235	559	1136	1803	2515	2941	3096	3127	3132

(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