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: ANGELICA, NY **COOP ID: 300183**

Climate Division: NY 1 **NWS Call Sign:** **Elevation: 1,445 Feet** **Lat: 42˚18N** **Lon: 77˚59W**

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	29.6	10.6	20.1	71	1950	25	29.5	1998	-33	1984	21	8.5	1977	1393	0	.0	.0	1.6	16.9	29.5	5.5
Feb	32.6	10.2	21.4	67+	1997	22	31.7	1998	-40	1934	9	8.8	1979	1222	0	.0	.0	3.2	13.4	26.4	6.1
Mar	42.5	18.7	30.6	83	1938	22	37.6	1973	-20+	1999	9	24.2	1996	1067	0	.0	.0	9.1	5.3	26.2	1.3
Apr	54.0	28.1	41.1	89+	1976	18	46.6	1991	4	1939	9	34.2	1975	719	0	.0	.0	20.6	.5	18.0	.0
May	66.7	38.6	52.7	93	1944	31	60.4	1991	14	1966	5	47.8	1997	390	7	.0	.1	29.9	.0	7.4	.0
Jun	74.4	47.7	61.1	100	1933	29	65.3	1991	27+	1949	8	56.2	1985	154	36	.0	.4	30.0	.0	.4	.0
Jul	78.9	52.3	65.6	104	1936	11	68.9	1987	32	1963	9	61.1	1996	58	77	.0	1.4	31.0	.0	.0	.0
Aug	76.8	51.5	64.2	98+	1948	27	67.3	1995	27	1965	30	60.0	1982	81	54	.0	.5	31.0	.0	@	.0
Sep	69.2	44.1	56.7	96	1953	3	60.4	1998	20	1947	27	53.7	1974	252	2	.0	@	29.9	.0	2.6	.0
Oct	58.3	33.7	46.0	94	1927	2	51.7	1971	9	1965	29	41.0	1972	588	0	.0	.0	25.4	.0	11.0	.0
Nov	45.0	26.7	35.9	80	1950	1	41.8	1999	-15	1933	16	28.2	1976	875	0	.0	.0	12.0	2.5	20.6	.1
Dec	34.2	17.8	26.0	70	1982	3	33.8	1982	-22+	1950	27	12.7	1989	1209	0	.0	.0	3.0	11.0	28.4	2.4
Ann	55.2	31.7	43.5	104	Jul 1936	11	68.9	Jul 1987	-40	Feb 1934	9	8.5	Jan 1977	8008	176	.0	2.4	226.7	49.6	170.5	15.4

\+ 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: 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	2.09	1.61	2.32	1998	8	4.77	1998	.58	1988
Feb	1.98	1.75	2.56	1961	26	3.84	1990	.51	1983
Mar	2.47	2.45	1.76	1936	17	4.50	1985	.74	1986
Apr	2.97	2.91	1.85	1993	17	5.88	1993	.81	1975
May	3.23	3.09	1.83	1927	24	7.45	1984	1.01	1993
Jun	4.73	4.48	4.39	1953	29	12.56	1972	.32	1991
Jul	3.71	3.53	4.00	1942	18	7.96	1992	1.07	1994
Aug	3.81	3.41	2.85	1994	14	7.54	1977	2.02	1982
Sep	3.76	3.50	3.50	1967	28	8.04	1977	1.58	1985
Oct	3.14	2.55	3.05	1995	21	7.40	1995	.89	1974
Nov	2.93	2.67	2.70	1927	17	6.64	1985	1.19	1998
Dec	2.42	2.15	2.23	1978	25	4.84	1978	1.00	1976
Ann	37.24	37.46	4.39	Jun 1953	29	12.56	Jun 1972	.32	Jun 1991

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.8	6.3	.9	.1
Feb	9.8	5.8	1.0	.1
Mar	11.4	6.5	1.3	.2
Apr	12.0	7.4	1.8	.3
May	12.3	8.1	1.9	.5
Jun	12.3	8.7	3.2	.9
Jul	11.0	7.9	2.4	.8
Aug	11.3	7.6	2.6	.7
Sep	12.2	8.4	2.4	.8
Oct	12.0	7.4	1.6	.5
Nov	12.8	7.7	1.6	.4
Dec	12.8	7.2	1.1	.1
Ann	142.7	89.0	21.8	5.4

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	.58	.78	1.08	1.34	1.60	1.87	2.17	2.52	2.97	3.69	4.36
Feb	.65	.84	1.12	1.35	1.57	1.81	2.06	2.36	2.74	3.33	3.88
Mar	1.01	1.23	1.55	1.82	2.06	2.32	2.59	2.90	3.30	3.91	4.46
Apr	1.21	1.48	1.86	2.18	2.48	2.79	3.11	3.49	3.97	4.70	5.37
May	1.18	1.49	1.92	2.29	2.63	2.99	3.37	3.82	4.39	5.27	6.08
Jun	1.10	1.54	2.23	2.85	3.47	4.12	4.86	5.73	6.88	8.71	10.43
Jul	1.31	1.66	2.17	2.60	3.00	3.42	3.88	4.41	5.09	6.14	7.10
Aug	1.73	2.07	2.54	2.91	3.27	3.62	4.00	4.43	4.98	5.80	6.55
Sep	1.72	2.05	2.51	2.88	3.23	3.57	3.94	4.37	4.90	5.71	6.43
Oct	1.00	1.30	1.74	2.11	2.48	2.85	3.27	3.75	4.38	5.35	6.25
Nov	1.06	1.34	1.73	2.07	2.39	2.71	3.06	3.47	4.00	4.81	5.55
Dec	1.10	1.31	1.61	1.85	2.07	2.30	2.54	2.82	3.17	3.70	4.17
Ann	28.86	30.54	32.66	34.25	35.64	36.98	38.35	39.86	41.67	44.27	46.50

\+ 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

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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	15.1	13.5	6	4
Feb	11.1	9.8	7	5
Mar	9.4	7.0	3	1
Apr	2.9	2.0	#	#
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.3	.0	#	0
Nov	6.1	5.0	1	#
Dec	12.7	11.0	3	2
Ann	57.7	48.3	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	11.0	1978	18	35.0	1978	32	1978	22	14+	1994
Feb	12.0	1971	14	24.5	1994	33	1978	15	26	1978
Mar	15.0	1992	12	29.0	1993	25	1978	5	12	1978
Apr	6.0	1983	18	8.0+	1983	7	1990	4	1	1990
May	2.0	1977	9	2.0	1977	4	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	5.0	1976	22	5.0	1976	5	1976	22	#+	1997
Nov	13.0	1995	15	27.0	1995	15	1995	16	5	1995
Dec	22.0	1978	25	35.0	1978	26	1978	25	8	1978
Ann	22.0	Dec 1978	25	35.0+	Dec 1978	33	Feb 1978	15	26	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.3	6.0	1.4	.7	.1
Feb	5.5	4.7	1.1	.4	.1
Mar	4.2	3.5	1.0	.4	.1
Apr	1.4	1.1	.4	.1	.0
May	.1	.1	.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	.2	.1	@	@	.0
Nov	3.0	2.5	.7	.3	@
Dec	6.3	5.5	1.4	.4	@
Ann	28.0	23.5	6.0	2.3	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	20.7	13.9	10.2	4.4
Feb	18.7	14.8	10.7	4.7
Mar	9.3	6.3	4.3	1.5
Apr	1.6	.8	.3	.0
May	@	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	@	@	.0
Nov	5.2	2.1	1.2	.2
Dec	13.8	8.0	4.7	.9
Ann	69.5	45.9	31.4	11.7

+ 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	6/26	6/20	6/16	6/13	6/09	6/06	6/03	5/30	5/24
32	6/14	6/08	6/04	5/31	5/28	5/24	5/21	5/16	5/10
28	5/26	5/22	5/18	5/15	5/12	5/09	5/06	5/03	4/28
24	5/11	5/07	5/04	5/02	4/29	4/27	4/24	4/21	4/17
20	4/28	4/24	4/21	4/19	4/17	4/15	4/12	4/10	4/06
16	4/16	4/11	4/08	4/05	4/02	3/30	3/27	3/24	3/19

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	8/21	8/27	8/31	9/04	9/08	9/11	9/15	9/19	9/25
32	9/10	9/14	9/17	9/20	9/22	9/25	9/27	9/30	10/04
28	9/18	9/25	9/29	10/03	10/06	10/10	10/14	10/18	10/24
24	10/01	10/07	10/12	10/15	10/19	10/22	10/26	10/30	11/05
20	10/21	10/25	10/28	10/31	11/03	11/05	11/08	11/11	11/15
16	10/28	11/03	11/07	11/10	11/13	11/17	11/20	11/24	11/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	113	105	99	94	89	85	80	74	66
32	138	131	125	121	117	113	108	103	96
28	170	162	156	151	146	142	137	131	123
24	194	186	181	176	172	167	163	157	150
20	217	211	206	202	199	195	192	187	181
16	248	240	234	229	225	220	215	210	202

***** 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	1393	1222	1067	719	390	154	58	81	252	588	875	1209	8008
60	1238	1082	912	569	255	70	11	19	123	436	725	1054	6494
57	1145	998	819	481	187	37	2	6	68	349	635	961	5688
55	1083	942	757	423	147	22	0	1	42	295	575	899	5186
50	928	802	604	288	71	5	0	0	9	176	428	744	4055
32	410	347	165	20	0	0	0	0	0	5	59	274	1280

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	40	49	121	291	640	872	1042	996	741	439	174	89	5494
55	0	0	0	4	74	204	329	284	93	16	0	0	1004
57	0	0	0	2	52	159	269	226	58	9	0	0	775
60	0	0	0	0	27	102	185	147	24	3	0	0	488
65	0	0	0	0	7	36	77	54	2	0	0	0	176
70	0	0	0	0	1	8	17	10	0	0	0	0	36

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	5	9	54	175	454	681	835	788	556	268	86	17	5	14	68	243	697	1378	2213	3001	3557	3825	3911	3928
45	1	1	28	98	309	531	680	633	410	151	42	4	1	2	30	128	437	968	1648	2281	2691	2842	2884	2888
50	0	0	8	50	189	383	525	478	274	69	14	3	0	0	8	58	247	630	1155	1633	1907	1976	1990	1993
55	0	0	2	21	98	248	371	326	155	25	2	0	0	0	2	23	121	369	740	1066	1221	1246	1248	1248
60	0	0	0	8	41	134	223	187	73	1	0	0	0	0	0	8	49	183	406	593	666	667	667	667
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	8	45	135	300	436	541	504	352	177	55	5	1	9	54	189	489	925	1466	1970	2322	2499	2554	2559

(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