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: DEPOSIT, NY **COOP ID: 302060**

Climate Division: NY 2 **NWS Call Sign:** **Elevation: 1,000 Feet** **Lat: 42˚04N** **Lon: 75˚26W**

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	31.8	13.1	22.5	64	1967	25	31.3	1990	-31	1994	21	14.1	1994	1320	0	.0	.0	1.4	16.1	29.2	6.0
Feb	35.4	14.5	25.0	67	1985	24	32.8	1984	-25+	1979	18	13.7	1979	1123	0	.0	.0	2.7	11.5	25.9	5.2
Mar	45.3	23.3	34.3	85+	1998	31	40.9	1973	-18	1967	19	28.5	1984	952	0	.0	.0	10.1	3.8	25.3	.9
Apr	58.3	33.0	45.7	90+	1976	19	49.4	1981	6	1964	1	39.6	1975	581	0	.0	.1	23.1	.2	15.1	.0
May	70.2	43.2	56.7	92+	1996	21	61.9	1991	22+	1985	9	51.2	1997	268	11	.0	.2	30.5	.0	3.9	.0
Jun	77.0	52.3	64.7	93	1964	30	68.4	1976	29	1986	3	60.4	1985	72	62	.0	.7	30.0	.0	.2	.0
Jul	80.9	56.8	68.9	98	1995	15	72.7	1995	31	1962	14	65.3	1984	18	137	.0	2.1	31.0	.0	.0	.0
Aug	79.1	56.0	67.6	98	2001	9	71.0	1980	32	1965	30	64.5	1982	31	110	.0	.9	31.0	.0	.0	.0
Sep	71.0	49.2	60.1	92+	1973	4	64.0	1971	26+	2000	29	57.5	1975	155	9	.0	.2	30.0	.0	.7	.0
Oct	60.5	37.6	49.1	84	1979	21	56.2	1971	14	1972	20	44.0	1988	494	0	.0	.0	27.0	.0	9.7	.0
Nov	47.6	29.8	38.7	80	1982	2	43.8	1975	2	1976	30	32.5	1976	789	0	.0	.0	12.1	1.5	19.5	.0
Dec	36.0	19.4	27.7	68	1984	29	34.1	1982	-19	1989	24	14.3	1989	1156	0	.0	.0	2.5	10.3	28.0	2.3
Ann	57.8	35.7	46.8	98+	Aug 2001	9	72.7	Jul 1995	-31	Jan 1994	21	13.7	Feb 1979	6959	329	.0	4.2	231.4	43.4	157.5	14.4

\+ 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: 1962-2001

(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	2.98	2.51	1.55	1978	9	6.81	1979	.91	1981
Feb	2.67	2.30	1.73	1971	14	5.95	1981	.48	1987
Mar	3.39	3.31	2.05	1977	23	6.50	1977	.85	1981
Apr	3.93	3.59	2.11	1983	16	8.09	1983	1.65	1997
May	4.09	3.92	2.23	1984	29	8.74	2000	1.12	1980
Jun	4.06	3.75	3.70	1973	29	7.83	1973	.81	1988
Jul	3.69	3.27	5.50	1970	4	7.51	1992	.85	1985
Aug	3.97	3.85	3.10	1986	7	7.40	1975	.59	1998
Sep	3.73	3.50	3.72	1985	27	11.50	1977	1.26	1986
Oct	3.55	3.10	2.65	1975	18	9.03	1976	.74	1994
Nov	4.00	4.27	3.14	1996	9	7.24	1972	1.43	1998
Dec	3.34	2.87	1.95	1983	14	8.39	1973	.88	1989
Ann	43.40	41.98	5.50	Jul 1970	4	11.50	Sep 1977	.48	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.3	7.2	1.9	.4
Feb	12.9	6.5	1.6	.3
Mar	13.7	7.9	2.2	.4
Apr	14.0	8.4	2.7	.7
May	13.7	9.0	3.0	.6
Jun	12.7	8.7	2.9	.7
Jul	11.0	7.6	2.5	.6
Aug	11.0	7.3	3.0	.9
Sep	11.9	7.2	2.4	.8
Oct	12.3	6.7	2.3	.9
Nov	14.5	8.3	2.4	1.0
Dec	15.3	7.1	1.9	.5
Ann	158.3	91.9	28.8	7.8

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	.92	1.20	1.62	1.98	2.34	2.70	3.10	3.57	4.18	5.12	6.00
Feb	.87	1.12	1.50	1.81	2.12	2.44	2.79	3.19	3.72	4.53	5.28
Mar	1.36	1.67	2.11	2.48	2.82	3.17	3.55	3.98	4.54	5.38	6.16
Apr	1.74	2.09	2.57	2.97	3.34	3.72	4.12	4.58	5.16	6.04	6.83
May	1.51	1.89	2.44	2.90	3.34	3.79	4.27	4.84	5.56	6.67	7.69
Jun	1.43	1.81	2.37	2.83	3.28	3.74	4.24	4.82	5.57	6.72	7.78
Jul	1.32	1.67	2.17	2.59	3.00	3.41	3.86	4.38	5.05	6.08	7.03
Aug	1.39	1.76	2.31	2.76	3.20	3.66	4.15	4.72	5.46	6.59	7.64
Sep	1.13	1.49	2.02	2.47	2.91	3.37	3.87	4.47	5.23	6.43	7.54
Oct	1.02	1.36	1.87	2.31	2.74	3.19	3.69	4.27	5.03	6.22	7.33
Nov	1.74	2.10	2.60	3.01	3.39	3.78	4.19	4.66	5.26	6.18	7.00
Dec	1.02	1.34	1.81	2.22	2.61	3.02	3.47	4.00	4.68	5.74	6.73
Ann	32.75	34.86	37.53	39.54	41.32	43.02	44.78	46.70	49.03	52.38	55.25

\+ 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: 1962-2001
(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	17.3	14.3	6	4
Feb	12.9	11.9	8	7
Mar	8.1	7.0	3	1
Apr	3.6	.0	#	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	#	.0	#	0
Nov	4.4	3.5	#	#
Dec	16.6	15.5	2	1
Ann	63.0	52.2	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	15.0	1987	23	39.5	1987	30	1978	23	18+	1987
Feb	14.0	1978	7	31.3	1972	29	1978	7	24	1978
Mar	9.0	1980	14	18.0	1977	30	1971	5	16	1971
Apr	8.0	1974	9	17.0	1983	9	1982	8	1	1982
May	2.0	1973	18	2.0	1973	2	1973	18	#	1973
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	#	1988	25	#+	1988	#+	1982	18	#+	1982
Nov	12.0	1971	25	17.0	1971	16	1971	26	3	1980
Dec	14.0	1978	25	33.9	1977	17	1977	13	11	1977
Ann	15.0	Jan 1987	23	39.5	Jan 1987	30+	Jan 1978	23	24	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.9	5.9	2.1	.8	.2
Feb	5.0	3.6	1.1	.6	.1
Mar	4.0	3.0	.9	.4	.0
Apr	1.1	1.0	.5	.3	.0
May	@	@	.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	2.0	1.5	.5	.2	.1
Dec	6.4	4.8	2.0	.4	.1
Ann	26.4	19.8	7.1	2.7	.5

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	21.1	19.5	18.3	11.7
Feb	19.3	16.6	14.3	7.8
Mar	5.4	2.3	.7	.2
Apr	1.6	.9	.5	.0
May	.1	.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	3.2	1.1	.6	.4
Dec	13.6	8.7	5.8	3.1
Ann	64.3	49.1	40.2	23.2

+ 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	6/16	6/10	6/07	6/03	5/31	5/28	5/25	5/21	5/16
32	6/03	5/29	5/25	5/22	5/19	5/16	5/12	5/09	5/03
28	5/17	5/13	5/10	5/08	5/06	5/04	5/01	4/29	4/25
24	5/05	4/30	4/27	4/24	4/21	4/18	4/15	4/12	4/07
20	4/23	4/18	4/15	4/12	4/09	4/06	4/03	3/30	3/25
16	4/07	4/03	3/31	3/29	3/27	3/25	3/23	3/21	3/17

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	9/02	9/07	9/10	9/13	9/16	9/19	9/22	9/25	9/30
32	9/21	9/24	9/27	9/29	10/02	10/04	10/06	10/09	10/13
28	9/25	10/01	10/05	10/08	10/12	10/15	10/19	10/23	10/28
24	10/14	10/19	10/22	10/25	10/28	10/30	11/02	11/05	11/10
20	10/21	10/27	11/01	11/04	11/08	11/11	11/15	11/19	11/25
16	11/01	11/07	11/12	11/15	11/19	11/23	11/26	12/01	12/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	127	120	115	111	107	103	99	94	88
32	151	146	142	138	135	132	129	125	119
28	176	170	165	162	158	155	151	146	140
24	209	202	197	193	189	185	181	176	169
20	239	230	223	217	212	207	201	195	186
16	259	251	245	240	236	231	226	221	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	1320	1123	952	581	268	72	18	31	155	494	789	1156	6959
60	1165	983	797	433	148	18	1	4	55	348	639	1001	5592
57	1072	899	704	347	94	6	0	0	24	267	550	908	4871
55	1010	843	642	293	65	2	0	0	13	218	490	846	4422
50	855	703	489	173	21	0	0	0	2	120	347	691	3401
32	342	252	86	3	0	0	0	0	0	2	31	226	942

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	45	54	157	412	767	981	1142	1102	844	531	232	92	6359
55	0	0	0	12	119	293	429	389	167	34	1	0	1444
57	0	0	0	6	85	236	367	327	118	21	0	0	1160
60	0	0	0	2	47	159	275	238	59	9	0	0	789
65	0	0	0	0	11	62	137	110	9	0	0	0	329
70	0	0	0	0	1	13	47	34	0	0	0	0	95

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	4	6	62	217	529	750	898	864	609	304	96	12	4	10	72	289	818	1568	2466	3330	3939	4243	4339	4351
45	1	0	26	120	379	600	743	709	460	182	47	3	1	1	27	147	526	1126	1869	2578	3038	3220	3267	3270
50	0	0	9	60	238	452	588	554	318	94	17	0	0	0	9	69	307	759	1347	1901	2219	2313	2330	2330
55	0	0	3	26	132	307	433	400	191	37	4	0	0	0	3	29	161	468	901	1301	1492	1529	1533	1533
60	0	0	0	9	57	174	283	250	98	9	0	0	0	0	0	9	66	240	523	773	871	880	880	880
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	7	49	155	337	483	590	564	373	187	56	6	0	7	56	211	548	1031	1621	2185	2558	2745	2801	2807

(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