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: COLDEN 1 N, NY **COOP ID: 301623**

Climate Division: NY 9 **NWS Call Sign:** **Elevation: 1,025 Feet** **Lat: 42˚40N** **Lon: 78˚41W**

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	30.0	12.9	21.5	65	1967	25	31.4	1990	-24+	1984	21	10.5	1977	1350	0	.0	.0	1.5	17.8	29.5	5.7
Feb	32.4	12.8	22.6	70	1997	22	32.1	1998	-30+	1979	18	11.8	1979	1187	0	.0	.0	2.4	14.7	26.5	5.4
Mar	41.7	21.3	31.5	80+	1990	16	40.6	1973	-18	1980	2	23.3	1984	1038	0	.0	.0	8.1	7.4	26.1	1.8
Apr	53.7	32.0	42.9	91	1990	29	47.6	1987	4	1972	8	36.3	1975	665	0	.0	@	18.3	.8	16.9	.0
May	66.5	42.4	54.5	89	1962	19	60.9	1991	21	1970	7	47.9	1997	339	13	.0	.0	29.4	.0	5.0	.0
Jun	74.6	51.7	63.2	96	1963	30	66.6	1973	28	1988	10	58.3	1988	102	45	.0	.2	30.0	.0	.1	.0
Jul	78.7	56.2	67.5	96	1988	9	72.1	1988	37	1963	9	63.3	2000	31	107	.0	.6	31.0	.0	.0	.0
Aug	76.9	55.0	66.0	95	1988	3	69.6	1973	30	1982	29	61.9	1982	57	87	.0	.4	31.0	.0	@	.0
Sep	69.6	47.9	58.8	92+	1973	4	62.9	1971	24	1959	17	55.2	1975	194	7	.0	@	29.9	.0	1.3	.0
Oct	58.7	37.6	48.2	84	1971	3	55.7	1971	14	1965	29	42.2	1987	522	0	.0	.0	24.6	@	9.4	.0
Nov	46.2	30.1	38.2	77	1961	3	44.3	1975	-3	1971	23	32.2	1976	806	0	.0	.0	10.9	2.7	20.1	@
Dec	35.0	20.3	27.7	72	1982	4	35.3	1982	-25+	1980	26	15.3	1989	1158	0	.0	.0	2.8	12.2	27.7	1.6
Ann	55.3	35.0	45.2	96+	Jul 1988	9	72.1	Jul 1988	-30+	Feb 1979	18	10.5	Jan 1977	7449	259	.0	1.2	219.9	55.6	162.6	14.5

\+ 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: 1957-2001

(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	3.79	3.69	2.12	1958	25	8.57	1979	.98	1980
Feb	2.78	2.71	1.59	1961	26	5.14	1972	.40	1987
Mar	3.41	3.17	1.95	1980	22	6.31	1976	.00	2000
Apr	3.73	3.67	1.95	1977	24	6.34	1996	2.04	1975
May	3.59	3.07	1.54	1969	18	8.18	1984	.85	1987
Jun	4.28	4.22	2.66	1972	23	8.02	1972	.88	1991
Jul	4.10	3.72	3.20	1987	26	10.67	1992	1.14	1974
Aug	4.19	3.89	2.75	1959	29	10.08	1977	1.93	1976
Sep	4.96	4.90	3.66	1977	20	14.61	1977	1.94	1985
Oct	3.97	3.51	2.65	1980	26	7.35	1986	1.70	1984
Nov	4.71	4.47	1.90	1999	3	9.78	1985	1.78	1998
Dec	4.45	4.29	1.63	1984	30	7.90	1977	1.77	1995
Ann	47.96	47.79	3.66	Sep 1977	20	14.61	Sep 1977	.00	Mar 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	21.5	11.3	1.8	.2
Feb	16.8	8.3	1.2	.2
Mar	15.7	9.5	1.9	.4
Apr	15.2	9.4	2.3	.6
May	13.3	8.9	2.5	.4
Jun	13.1	8.5	3.3	1.0
Jul	11.6	7.7	3.0	1.2
Aug	11.9	8.4	3.1	.9
Sep	13.7	9.5	3.7	1.0
Oct	14.2	9.6	2.6	.6
Nov	17.3	11.1	3.2	.5
Dec	20.1	12.3	2.2	.5
Ann	184.4	114.5	30.8	7.5

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	1.52	1.87	2.36	2.77	3.15	3.54	3.97	4.45	5.07	6.01	6.87
Feb	.95	1.21	1.59	1.92	2.23	2.55	2.90	3.31	3.84	4.65	5.40
Mar	1.31	1.79	2.28	2.65	2.98	3.31	3.65	4.05	4.54	5.28	5.94
Apr	2.03	2.32	2.72	3.03	3.32	3.60	3.90	4.24	4.66	5.29	5.85
May	1.28	1.62	2.11	2.52	2.91	3.31	3.75	4.26	4.91	5.91	6.83
Jun	1.33	1.74	2.34	2.86	3.36	3.88	4.45	5.12	5.99	7.34	8.59
Jul	1.47	1.86	2.42	2.88	3.33	3.79	4.29	4.87	5.61	6.75	7.80
Aug	1.99	2.35	2.85	3.25	3.63	4.00	4.40	4.85	5.42	6.28	7.05
Sep	2.06	2.52	3.15	3.67	4.16	4.66	5.19	5.81	6.59	7.78	8.86
Oct	1.58	1.95	2.47	2.90	3.30	3.71	4.16	4.67	5.33	6.32	7.23
Nov	2.18	2.59	3.16	3.62	4.05	4.48	4.94	5.46	6.12	7.12	8.02
Dec	2.42	2.77	3.25	3.62	3.96	4.30	4.66	5.06	5.56	6.31	6.97
Ann	38.81	40.67	43.00	44.74	46.26	47.71	49.19	50.81	52.75	55.52	57.88

\+ 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: 1957-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	42.5	36.9	10	8	22.0	1999	1	95.8	1999	37	1999	15	24	1977	17.9	12.9	5.8	3.1	.6	26.7	22.9	18.9	13.4
Feb	26.9	26.4	11	8	18.8	1971	9	56.5	1979	44	1977	5	32	1977	13.7	9.2	3.5	1.3	.2	24.0	21.4	17.7	12.4
Mar	18.1	16.6	6	3	14.0	1992	12	37.0	1998	32	1978	5	19	1978	9.8	6.0	2.5	.7	.1	18.5	14.1	11.1	6.8
Apr	6.3	5.1	#	#	8.0	1975	4	18.5	1975	14	1975	5	3	1975	3.8	2.5	.6	.2	.0	2.9	1.3	.6	.1
May	.3	.0	#	0	4.0	1989	7	8.0	1989	5	1989	8	#+	1996	.1	.1	.1	.0	.0	.1	.1	@	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	4.0	1976	22	4.5	1988	2	1988	27	#+	2000	.6	.3	@	.0	.0	.1	.0	.0	.0
Nov	16.6	15.3	1	1	22.0	1979	29	37.7	1995	22	1979	30	5	1995	6.9	4.4	2.2	1.1	.3	7.0	4.6	2.9	.8
Dec	37.5	36.2	5	5	18.0	1977	26	73.7	1985	27	1977	28	12+	2000	14.4	10.0	5.1	2.7	.6	21.0	16.7	12.3	5.2
Ann	148.9	136.5	N/A	N/A	22.0+	Jan 1999	1	95.8	Jan 1999	44	Feb 1977	5	32	Feb 1977	67.2	45.4	19.8	9.1	1.8	100.3	81.1	63.5	38.7

+ 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	6/19	6/13	6/09	6/06	6/03	5/31	5/27	5/23	5/18
32	6/02	5/28	5/25	5/22	5/19	5/17	5/14	5/10	5/05
28	5/18	5/13	5/09	5/06	5/03	4/29	4/26	4/22	4/17
24	4/28	4/25	4/23	4/21	4/20	4/18	4/16	4/14	4/11
20	4/20	4/16	4/13	4/11	4/08	4/06	4/03	3/31	3/27
16	4/13	4/08	4/05	4/02	3/31	3/28	3/25	3/22	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	9/01	9/06	9/10	9/13	9/16	9/19	9/22	9/25	9/30
32	9/15	9/20	9/23	9/26	9/28	10/01	10/03	10/07	10/11
28	9/29	10/05	10/09	10/12	10/15	10/18	10/22	10/25	10/31
24	10/14	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/13
20	10/27	11/02	11/06	11/10	11/13	11/16	11/20	11/24	11/30
16	11/06	11/11	11/15	11/18	11/21	11/25	11/28	12/02	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	123	117	112	108	104	101	97	92	86
32	149	143	138	135	131	128	124	119	113
28	187	179	174	169	165	160	156	150	143
24	212	205	200	196	192	188	183	178	171
20	241	233	227	223	218	214	209	203	195
16	255	248	243	239	235	231	227	222	215

***** 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	1350	1187	1038	665	339	102	31	57	194	522	806	1158	7449
60	1195	1047	883	515	214	35	4	11	82	374	656	1003	6019
57	1102	963	790	427	153	14	0	3	41	292	566	910	5261
55	1040	907	728	370	118	7	0	0	24	241	506	848	4789
50	885	767	577	238	53	1	0	0	4	137	362	693	3717
32	374	304	149	9	0	0	0	0	0	2	35	232	1105

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	47	41	134	334	697	934	1099	1054	803	503	220	97	5963
55	0	0	0	5	102	251	386	341	136	29	1	0	1251
57	0	0	0	2	75	198	324	281	93	17	0	0	990
60	0	0	0	1	43	128	235	197	45	7	0	0	656
65	0	0	0	0	13	45	107	87	7	0	0	0	259
70	0	0	0	0	3	8	30	24	0	0	0	0	65

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	10	56	177	459	700	855	811	571	280	93	19	4	14	70	247	706	1406	2261	3072	3643	3923	4016	4035
45	0	0	28	97	317	550	700	656	424	169	46	7	0	0	28	125	442	992	1692	2348	2772	2941	2987	2994
50	0	0	8	53	198	405	545	502	288	85	17	2	0	0	8	61	259	664	1209	1711	1999	2084	2101	2103
55	0	0	5	21	108	265	390	349	168	37	3	0	0	0	5	26	134	399	789	1138	1306	1343	1346	1346
60	0	0	0	11	48	149	240	209	84	8	0	0	0	0	0	11	59	208	448	657	741	749	749	749
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	6	40	117	288	438	551	519	348	165	55	8	1	7	47	164	452	890	1441	1960	2308	2473	2528	2536

(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