

Climatology of the United States

No. 20

1971-2000

Station: MINEOLA, NY

COOP ID: 305377

Climate Division: NY 4

NWS Call Sign:

Elevation: 96 Feet

Lat: 40°44N

Lon: 73°37W

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	38.3	25.4	31.9	68	1950	26	41.2	1990	-4	1994	19	22.6	1994	1028	0	.0	.0	4.7	9.2	23.8	.2
Feb	40.2	26.6	33.4	73	1997	27	40.0	1997	-1	1961	2	22.3	1979	885	0	.0	.0	5.1	6.3	20.5	.1
Mar	48.6	33.5	41.1	85	1990	13	47.4	2000	5	1980	1	30.5	1984	742	0	.0	.0	13.4	1.0	13.8	.0
Apr	58.1	41.3	49.7	92	1976	17	54.2	1991	13	1982	7	40.5	1982	462	2	.0	.1	25.0	.1	2.8	.0
May	68.3	50.7	59.5	97	1996	20	66.3	1991	34+	1983	12	51.8	1983	213	41	.0	.7	30.7	.0	.0	.0
Jun	77.5	59.8	68.7	101+	1988	15	72.6	1988	43+	2001	1	64.5	1974	38	148	@	2.0	30.0	.0	.0	.0
Jul	82.8	65.6	74.2	103+	1999	5	79.5	1999	50+	1986	4	70.1	1976	7	292	.2	4.9	31.0	.0	.0	.0
Aug	81.0	64.5	72.8	105	2001	9	78.3	1988	46+	1994	30	68.8	1992	8	250	.1	2.7	31.0	.0	.0	.0
Sep	73.6	57.4	65.5	97	1953	2	69.1	1971	38	1993	20	61.2	1982	74	89	.0	.5	30.0	.0	.0	.0
Oct	63.1	46.8	55.0	89	1949	10	60.9	1971	27+	1976	28	50.4	1992	328	17	.0	.0	29.6	.0	.6	.0
Nov	53.1	39.3	46.2	83	1950	2	52.8	1975	18	1982	28	40.8	1976	564	0	.0	.0	19.4	.2	5.5	.0
Dec	43.0	30.2	36.6	76	1998	7	42.4	1990	-1	1983	25	27.2	1989	882	0	.0	.0	7.6	3.9	18.5	@
Ann	60.6	45.1	52.9	105	Aug 2001	9	79.5	1999	-4	Jan 1994	19	22.3	Feb 1979	5231	839	.3	10.9	257.5	20.7	85.5	.3

+ 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/normal/usnormals.html

Issue Date: February 2004

(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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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: MINEOLA, NY

COOP ID: 305377

Climate Division: NY 4

NWS Call Sign:

Elevation: 96 Feet

Lat: 40°44N

Lon: 73°37W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.01	3.54	4.05	1999	3	9.84	1979	.66	1981	9.9	7.0	2.7	.9	.98	1.35	1.94	2.46	2.97	3.52	4.13	4.85	5.80	7.30	8.71
Feb	2.96	2.97	2.22	1966	13	5.91	1981	.73	1990	8.9	6.1	2.1	.6	1.07	1.35	1.75	2.09	2.41	2.73	3.09	3.51	4.04	4.86	5.61
Mar	4.28	4.09	3.23	1979	6	9.28	1980	1.34+	1995	9.3	7.0	3.1	.9	1.64	2.04	2.61	3.08	3.53	3.99	4.48	5.06	5.79	6.91	7.93
Apr	4.26	3.74	3.72	1980	9	10.92	1983	1.26	1985	9.4	6.5	2.9	1.3	1.35	1.76	2.35	2.87	3.36	3.87	4.44	5.09	5.94	7.26	8.48
May	4.26	3.82	2.87	1989	2	12.25	1989	.99	1993	10.4	7.3	2.9	1.1	1.30	1.70	2.31	2.83	3.33	3.86	4.43	5.11	5.99	7.36	8.62
Jun	3.66	3.29	4.30	1984	30	9.47	1984	.49	1994	9.3	6.0	2.4	.9	.73	1.06	1.60	2.09	2.59	3.12	3.72	4.45	5.41	6.95	8.42
Jul	3.88	4.13	3.38	1996	31	8.46	1975	.59	1974	8.3	6.2	2.7	1.1	.81	1.16	1.73	2.25	2.77	3.33	3.96	4.72	5.72	7.32	8.84
Aug	3.74	3.84	8.20	1955	12	8.05	1976	.25	1995	8.4	6.0	2.3	1.0	.62	.94	1.49	2.00	2.53	3.10	3.76	4.56	5.63	7.37	9.03
Sep	3.98	3.81	4.99	1960	12	9.19	1975	1.23	1980	7.8	5.8	2.9	1.3	1.43	1.80	2.34	2.80	3.23	3.67	4.16	4.72	5.44	6.55	7.57
Oct	3.53	3.13	4.90	1972	7	8.15	1989	.41	2000	7.1	5.2	2.4	.9	.91	1.25	1.76	2.21	2.66	3.13	3.65	4.26	5.07	6.34	7.53
Nov	4.00	3.08	4.09	1977	8	10.07	1972	.36	1976	7.9	5.9	2.9	1.2	.86	1.23	1.82	2.35	2.88	3.45	4.09	4.85	5.86	7.48	9.00
Dec	3.80	3.91	2.95	1992	11	8.99	1973	.75	1989	9.8	6.5	2.5	1.0	.93	1.28	1.84	2.33	2.82	3.33	3.91	4.59	5.49	6.91	8.25
Ann	46.36	43.57	8.20	Aug 1955	12	12.25	May 1989	.25	Aug 1995	106.5	75.5	31.8	12.2	34.18	36.57	39.61	41.91	43.94	45.90	47.92	50.14	52.82	56.70	60.04

+ 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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Station: MINEOLA, NY

COOP ID: 305377

Climate Division: NY 4

NWS Call Sign:

Elevation: 96 Feet

Lat: 40°44N

Lon: 73°37W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	6.7	3.6	1	#	15.3	1978	20	20.3	1978	15	1978	20	6	1987	2.0	1.6	.6	.3	@	5.6	2.8	1.3	.2
Feb	6.4	2.0	2	1	15.6	1978	6	23.7	1983	20	1983	12	12	1978	2.2	1.8	.9	.5	.1	5.5	3.4	1.2	.2
Mar	2.9	2.2	#	#	7.5	1978	3	11.8	1978	13	1978	4	4	1978	1.0	.9	.4	.2	.0	1.2	.7	.2	.0
Apr	.6	.0	#	0	9.0	1982	6	9.0	1982	9	1982	6	1	1982	.2	.1	@	@	.0	.2	.1	.1	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.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	#	.0	0	0	#	1979	10	#+	1979	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	2.9	1995	29	2.9	1995	3	1995	29	#+	1995	.1	@	.0	.0	.0	@	@	.0	.0
Dec	2.3	.9	#	#	13.6	2000	30	13.6	2000	14	2000	30	1+	2000	.9	.7	.4	.1	@	1.4	.8	.3	@
Ann	19.0	8.7	N/A	N/A	15.6	Feb 1978	6	23.7	Feb 1983	20	Feb 1983	12	12	Feb 1978	6.4	5.1	2.3	1.1	.1	13.9	7.8	3.1	.4

+ 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

Complete documentation available from:

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NWS Call Sign:

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Lat: 40° 44N

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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	5/05	4/30	4/26	4/23	4/20	4/17	4/13	4/09	4/04
32	4/23	4/18	4/14	4/11	4/08	4/05	4/02	3/30	3/25
28	4/11	4/05	4/02	3/29	3/26	3/23	3/20	3/16	3/11
24	4/01	3/26	3/22	3/18	3/14	3/11	3/07	3/03	2/25
20	3/25	3/18	3/13	3/09	3/05	3/01	2/25	2/20	2/13
16	3/20	3/11	3/04	2/27	2/22	2/17	2/12	2/05	1/27
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	10/07	10/12	10/16	10/19	10/22	10/25	10/29	11/01	11/07
32	10/19	10/26	10/31	11/04	11/08	11/12	11/16	11/21	11/28
28	11/04	11/11	11/15	11/19	11/23	11/27	12/01	12/06	12/12
24	11/24	11/29	12/03	12/06	12/09	12/12	12/16	12/19	12/25
20	12/03	12/09	12/13	12/17	12/20	12/23	12/27	12/31	1/06
16	12/12	12/19	12/24	12/28	1/01	1/05	1/09	1/14	1/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	209	201	195	190	185	180	175	169	160
32	239	230	224	218	213	208	203	196	187
28	267	258	252	246	241	236	230	224	215
24	294	285	279	274	269	264	259	253	245
20	318	308	301	295	289	283	277	270	260
16	344	333	325	318	312	306	299	291	281

* 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	1028	885	742	462	213	38	7	8	74	328	564	882	5231
60	873	745	587	320	117	9	0	0	25	206	416	727	4025
57	780	661	497	243	74	3	0	0	11	148	331	634	3382
55	718	605	439	197	52	1	0	0	6	114	278	573	2983
50	573	474	301	104	17	0	0	0	1	52	161	429	2112
32	157	111	26	0	0	0	0	0	0	0	2	71	367

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	153	150	307	530	851	1100	1309	1264	1004	712	428	212	8020
55	0	0	7	37	191	411	596	551	320	113	14	0	2240
57	0	0	2	23	151	353	534	489	265	84	7	0	1908
60	0	0	0	10	100	269	441	396	190	50	2	0	1458
65	0	0	0	2	41	148	292	250	89	17	0	0	839
70	0	0	0	0	12	63	161	127	28	4	0	0	395

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	36	41	122	306	612	869	1073	1025	772	476	227	62	36	77	199	505	1117	1986	3059	4084	4856	5332	5559	5621
45	5	12	53	177	458	719	918	870	622	327	122	21	5	17	70	247	705	1424	2342	3212	3834	4161	4283	4304
50	0	3	18	82	305	569	763	715	472	194	52	4	0	3	21	103	408	977	1740	2455	2927	3121	3173	3177
55	0	0	4	31	176	420	608	560	327	94	19	0	0	0	4	35	211	631	1239	1799	2126	2220	2239	2239
60	0	0	0	9	82	278	454	405	196	39	2	0	0	0	0	9	91	369	823	1228	1424	1463	1465	1465
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	5	16	54	146	334	562	743	701	483	242	90	19	5	21	75	221	555	1117	1860	2561	3044	3286	3376	3395

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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