

Climatology of the United States

No. 20

1971-2000

Station: BOONVILLE 2 SSW, NY

COOP ID: 300785

Climate Division: NY 3

NWS Call Sign:

Elevation: 1,580 Feet Lat: 43° 27N

Lon: 75° 21W

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	25.2	7.3	16.3	61	1950	4	26.7	1990	-31	1981	4	6.3	1994	1511	0	.0	.0	.4	24.1	30.3	10.0
Feb	28.1	9.4	18.8	55	1984	25	27.9	1984	-24	1979	12	7.6	1979	1296	0	.0	.0	.7	19.7	27.1	7.8
Mar	37.2	19.1	28.2	77+	1998	31	36.9	1973	-26	1950	4	21.2	1984	1142	0	.0	.0	4.3	11.4	27.4	2.3
Apr	50.3	31.2	40.8	85	1990	29	47.1	1987	0	1982	7	33.4	1972	727	0	.0	.0	14.2	1.7	17.5	@
May	64.0	43.2	53.6	87+	1978	31	59.7	1998	18	1966	7	47.0	1997	364	11	.0	.0	28.1	@	2.7	.0
Jun	71.7	51.6	61.7	90	1953	21	65.2	1976	29	1986	3	57.1	1985	130	29	.0	.0	30.0	.0	.1	.0
Jul	75.7	56.3	66.0	94	1988	9	70.0	1988	32	1963	4	61.5	1992	48	78	.0	.4	31.0	.0	.0	.0
Aug	74.1	54.9	64.5	93+	1975	3	69.0	1980	35+	1976	31	60.5	1982	74	58	.0	.1	31.0	.0	.0	.0
Sep	65.9	46.8	56.4	90	1953	3	60.6	1999	24	1950	25	53.3	1975	262	3	.0	.0	29.1	.0	1.2	.0
Oct	54.7	36.3	45.5	82	1951	5	52.8	1971	14+	1972	20	40.9+	1992	604	0	.0	.0	20.0	.4	11.2	.0
Nov	41.7	26.7	34.2	73	1950	1	40.3	1975	-8	1951	28	28.0	1976	924	0	.0	.0	6.5	6.6	22.1	.0
Dec	30.3	14.6	22.5	62+	1998	8	29.9	1998	-23	1968	26	7.7	1989	1318	0	.0	.0	1.2	19.0	29.5	4.4
Ann	51.6	33.1	42.4	94	Jul 1988	9	70.0	Jul 1988	-31	Jan 1981	4	6.3	Jan 1994	8400	179	.0	.5	196.5	82.9	169.1	24.5

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1949-2001

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

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: BOONVILLE 2 SSW, NY

COOP ID: 300785

Climate Division: NY 3

NWS Call Sign:

Elevation: 1,580 Feet Lat: 43°27N

Lon: 75°21W

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	5.77	5.37	3.11	1998	8	13.28	1978	1.57	1981	21.2	13.4	3.8	.8	2.59	3.11	3.82	4.39	4.93	5.47	6.05	6.72	7.55	8.82	9.96
Feb	4.44	4.37	2.65	1981	2	9.02	1972	1.17	1999	16.5	10.2	2.6	.7	1.77	2.18	2.76	3.24	3.69	4.15	4.65	5.22	5.95	7.07	8.09
Mar	5.00	5.05	2.88	1964	5	8.73	1977	1.76	1995	16.8	10.8	3.6	.8	2.56	2.98	3.54	3.99	4.40	4.81	5.24	5.73	6.34	7.26	8.08
Apr	4.57	4.31	3.18	1992	17	9.28	1983	1.22	1999	15.0	9.3	3.1	.7	1.68	2.11	2.73	3.24	3.73	4.24	4.78	5.42	6.22	7.47	8.61
May	4.52	4.48	2.66	1991	27	9.79	1990	.88	1987	14.7	9.0	3.0	1.0	1.35	1.78	2.42	2.98	3.52	4.08	4.70	5.43	6.37	7.84	9.21
Jun	4.73	4.79	2.62	1987	23	9.68	1972	1.15	1979	14.3	8.9	3.2	1.1	1.74	2.19	2.82	3.36	3.86	4.38	4.95	5.60	6.44	7.72	8.90
Jul	3.96	3.73	3.67	1999	4	7.65	1996	1.26	1979	12.5	7.7	2.8	.8	1.72	2.08	2.58	2.98	3.36	3.74	4.15	4.62	5.22	6.12	6.94
Aug	4.68	4.50	2.77	2000	12	8.05	1986	.87	1999	13.0	7.9	3.2	1.4	1.83	2.26	2.88	3.39	3.87	4.37	4.90	5.51	6.30	7.50	8.59
Sep	5.89	5.19	4.86	2001	25	11.30	1975	2.04	1998	14.1	9.0	4.0	1.7	2.67	3.19	3.91	4.50	5.04	5.59	6.18	6.85	7.70	8.98	10.13
Oct	4.71	4.19	3.08	1992	10	10.20	1990	.88	1994	15.7	9.6	3.2	1.0	1.58	2.02	2.68	3.23	3.76	4.31	4.91	5.61	6.51	7.90	9.18
Nov	5.77	5.66	3.15	1996	9	9.01	1989	2.73	1981	18.3	11.8	4.0	1.2	3.52	3.93	4.47	4.89	5.27	5.64	6.03	6.46	6.99	7.78	8.47
Dec	5.72	5.30	2.37	1952	11	11.45	1983	2.10	1999	20.6	12.2	3.3	1.3	2.31	2.84	3.58	4.19	4.77	5.36	5.99	6.72	7.64	9.06	10.35
Ann	59.76	59.30	4.86	Sep 2001	25	13.28	Jan 1978	.87	Aug 1999	192.7	119.8	39.8	12.5	48.22	50.57	53.51	55.70	57.62	59.45	61.32	63.37	65.82	69.32	72.30

+ 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: 1949-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: BOONVILLE 2 SSW, NY

COOP ID: 300785

Climate Division: NY 3

NWS Call Sign:

Elevation: 1,580 Feet

Lat: 43°27N

Lon: 75°21W

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	62.5	64.9	23	23	35.0	1978	12	156.4	1978	65	1978	28	49	1978	19.2	13.7	7.2	3.8	1.0	29.2	28.4	27.0	24.5
Feb	42.9	45.2	32	32	26.0	1972	4	100.5	1972	68	1972	22	57	1978	14.9	10.5	4.9	2.3	.8	27.7	27.7	27.7	26.7
Mar	33.2	31.1	30	28	23.0	1971	4	70.6	1971	80	1971	11	68	1971	12.5	8.1	3.9	2.1	.6	28.4	27.9	27.3	26.2
Apr	10.2	8.4	11	6	19.5	1979	7	33.5	1979	60	1971	1	42	1971	5.3	3.1	1.1	.5	.1	12.9	11.6	10.9	9.2
May	.9	.0	#	0	7.2	1973	18	7.5	1976	25	1971	1	7	1971	.6	.3	.1	@	.0	.9	.6	.4	.4
Jun	.0	.0	#	0	.3	1980	9	.3	1980	#	1980	9	#	1980	@	.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	.2	1991	27	.2	1991	#	1992	30	#	1992	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	2.3	.1	#	0	15.0	1976	23	17.8	1976	13	1976	23	2	1976	1.8	.6	.2	.1	@	1.1	.6	.5	.1
Nov	21.0	16.3	3	2	29.0	1976	23	81.7	1976	36	1976	24	11	1976	9.1	5.8	2.7	1.3	.3	12.7	8.6	6.2	2.2
Dec	47.5	46.3	11	10	29.0	1991	16	96.4	1978	53	1978	26	25+	1995	16.8	10.9	5.2	3.0	.7	25.6	23.3	20.1	14.3
Ann	220.5	212.3	N/A	N/A	35.0	Jan 1978	12	156.4	Jan 1978	80	Mar 1971	11	68	Mar 1971	80.2	53.0	25.3	13.1	3.5	138.5	128.7	120.1	103.6

+ 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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: BOONVILLE 2 SSW, NY

COOP ID: 300785

Climate Division: NY 3

NWS Call Sign:

Elevation: 1,580 Feet

Lat: 43°27N

Lon: 75°21W

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	6/21	6/13	6/08	6/03	5/30	5/26	5/21	5/16	5/09
32	6/01	5/26	5/22	5/18	5/15	5/12	5/08	5/04	4/28
28	5/08	5/05	5/02	4/30	4/28	4/26	4/24	4/21	4/17
24	4/29	4/26	4/23	4/21	4/19	4/17	4/15	4/13	4/09
20	4/20	4/16	4/13	4/11	4/08	4/06	4/04	4/01	3/28
16	4/15	4/11	4/08	4/05	4/03	3/31	3/28	3/25	3/21
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	9/09	9/12	9/15	9/17	9/20	9/22	9/24	9/27	9/30
32	9/19	9/24	9/27	9/29	10/02	10/04	10/07	10/10	10/14
28	9/23	9/28	10/02	10/06	10/09	10/12	10/15	10/19	10/24
24	10/08	10/13	10/16	10/19	10/22	10/25	10/28	11/01	11/06
20	10/21	10/26	10/30	11/02	11/05	11/08	11/11	11/15	11/20
16	10/31	11/06	11/09	11/13	11/16	11/19	11/22	11/26	12/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	136	127	121	116	112	107	102	96	87
32	162	154	149	144	139	134	130	124	116
28	183	176	171	167	163	159	155	150	143
24	205	198	194	189	185	181	177	172	165
20	229	222	217	213	210	206	202	197	191
16	249	241	236	231	226	222	217	211	203

* 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: BOONVILLE 2 SSW, NY

COOP ID: 300785

Climate Division: NY 3

NWS Call Sign:

Elevation: 1,580 Feet Lat: 43° 27N Lon: 75° 21W

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	1511	1296	1142	727	364	130	48	74	262	604	924	1318	8400
60	1356	1156	987	579	236	49	7	16	135	452	774	1163	6910
57	1263	1072	894	492	172	22	1	4	79	365	684	1070	6118
55	1201	1016	832	435	136	11	0	1	52	310	624	1008	5626
50	1046	876	677	304	67	2	0	0	14	190	476	853	4505
32	507	395	209	31	0	0	0	0	0	6	79	346	1573

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	19	23	90	294	670	889	1053	1008	731	426	145	51	5399
55	0	0	0	8	92	210	340	296	93	16	0	0	1055
57	0	0	0	5	67	161	279	237	60	9	0	0	818
60	0	0	0	2	37	98	192	156	26	3	0	0	514
65	0	0	0	0	11	29	78	58	3	0	0	0	179
70	0	0	0	0	1	5	16	11	0	0	0	0	33

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	1	2	28	130	433	656	818	764	501	215	54	6	1	3	31	161	594	1250	2068	2832	3333	3548	3602	3608
45	0	0	11	71	295	506	663	609	355	122	21	0	0	0	11	82	377	883	1546	2155	2510	2632	2653	2653
50	0	0	5	35	177	358	508	454	224	59	7	0	0	0	5	40	217	575	1083	1537	1761	1820	1827	1827
55	0	0	0	14	96	225	354	302	120	20	1	0	0	0	0	14	110	335	689	991	1111	1131	1132	1132
60	0	0	0	4	40	117	206	174	52	2	0	0	0	0	0	4	44	161	367	541	593	595	595	595
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	14	75	241	390	511	469	275	108	25	0	0	0	14	89	330	720	1231	1700	1975	2083	2108	2108

(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.
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