

Climatography of the United States

No. 20

1971-2000

Station: FRANKLINVILLE, NY

COOP ID: 303025

Climate Division: NY 1

NWS Call Sign:

Elevation: 1,550 Feet Lat: 42° 20N

Lon: 78° 28W

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	29.7	11.1	20.4	71	1950	25	30.7	1998	-32	1957	15	10.4	1977	1382	0	.0	.0	1.3	18.8	29.7	7.9
Feb	32.2	11.3	21.8	67	1997	22	32.7	1998	-36	1979	18	9.2	1979	1211	0	.0	.0	2.5	15.4	26.6	7.4
Mar	41.7	19.4	30.6	80	1986	31	39.6	1973	-23+	1980	3	22.2	1984	1068	0	.0	.0	7.4	8.1	27.2	2.8
Apr	53.6	30.4	42.0	87	1990	29	46.1	1985	1	1969	1	35.3	1975	690	0	.0	.0	17.6	1.2	19.4	.0
May	66.2	39.8	53.0	90+	1977	23	60.7	1998	15+	1963	11	46.8	1997	382	9	.0	.1	28.4	.0	8.8	.0
Jun	74.3	49.3	61.8	96	1952	26	65.0	1995	26	1972	11	57.5	1985	132	35	.0	.2	29.9	.0	.4	.0
Jul	78.1	53.6	65.9	97	1988	16	69.4	1999	30	1965	20	62.8	2000	46	72	.0	.8	31.0	.0	.0	.0
Aug	76.1	52.3	64.2	95	1988	3	67.9	1995	28+	1982	29	60.6	1982	74	50	.0	.4	31.0	.0	.2	.0
Sep	68.9	45.8	57.4	96	1953	3	61.8	1971	20	1959	17	54.0	1975	232	2	.0	.0	29.7	.0	2.5	.0
Oct	58.1	35.4	46.8	86	1949	10	53.8	1971	6	1965	29	42.3	1980	566	0	.0	.0	23.4	@	12.9	.0
Nov	45.5	28.3	36.9	80	1950	1	42.5	1975	-5+	1967	16	30.6	1996	844	0	.0	.0	10.0	3.7	21.4	@
Dec	34.5	18.2	26.4	71	1982	4	34.4	1982	-28	1980	25	12.9	1989	1197	0	.0	.0	2.4	13.6	28.5	3.0
Ann	54.9	32.9	43.9	97	Jul 1988	16	69.4	Jul 1999	-36	Feb 1979	18	9.2	Feb 1979	7824	168	.0	1.5	214.6	60.8	177.6	21.1

+ 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

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

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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: FRANKLINVILLE, NY

COOP ID: 303025

Climate Division: NY 1

NWS Call Sign:

Elevation: 1,550 Feet Lat: 42°20N

Lon: 78°28W

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	2.53	2.45	1.73	1998	8	4.96	1998	.82	1988	16.7	7.6	1.0	.1	1.01	1.24	1.57	1.85	2.11	2.37	2.65	2.98	3.40	4.04	4.62
Feb	2.02	1.85	2.00	1961	26	3.96	1972	.46	1987	13.2	6.0	.7	.2	.67	.86	1.14	1.38	1.61	1.84	2.10	2.40	2.79	3.40	3.96
Mar	2.85	2.80	1.89	1991	4	5.22	1997	1.20+	1995	14.5	7.7	1.6	.3	1.26	1.51	1.87	2.16	2.43	2.70	2.99	3.32	3.75	4.39	4.96
Apr	3.27	3.41	1.74	1996	13	5.23	1996	1.45	1971	13.7	8.3	1.9	.4	1.75	2.01	2.36	2.64	2.90	3.15	3.42	3.72	4.10	4.66	5.16
May	3.63	3.34	1.78	2000	19	8.10	1984	1.05	1993	13.1	8.5	2.4	.5	1.32	1.66	2.15	2.57	2.96	3.36	3.79	4.30	4.95	5.94	6.86
Jun	4.52	4.24	2.97	1972	23	9.75	1989	.53	1991	13.4	9.2	3.1	1.0	1.17	1.60	2.26	2.83	3.40	4.00	4.66	5.45	6.48	8.10	9.62
Jul	4.01	3.67	2.42	1977	7	8.59	1992	1.04	1989	11.2	8.1	2.8	.7	1.46	1.84	2.38	2.83	3.27	3.71	4.19	4.75	5.46	6.56	7.57
Aug	3.79	3.63	2.61	1994	14	7.47	1977	2.04+	1995	12.1	7.9	2.6	.8	1.80	2.13	2.58	2.94	3.28	3.62	3.98	4.39	4.91	5.68	6.38
Sep	4.40	4.14	3.09	1989	15	9.40	1977	1.83	1995	13.2	9.4	3.0	.9	1.96	2.35	2.90	3.34	3.75	4.17	4.61	5.12	5.77	6.74	7.63
Oct	3.60	2.73	3.24	1959	7	6.94	1980	1.19	1994	13.5	8.9	1.9	.5	1.40	1.73	2.21	2.60	2.97	3.35	3.77	4.24	4.85	5.78	6.62
Nov	3.51	3.24	2.15	1994	1	7.56	1985	1.56	1998	15.6	9.3	1.9	.4	1.57	1.88	2.32	2.67	3.00	3.33	3.68	4.08	4.59	5.36	6.06
Dec	3.01	2.69	1.63	1979	25	5.91	1990	1.58	1989	17.2	9.3	1.3	.2	1.51	1.76	2.10	2.38	2.63	2.89	3.16	3.46	3.84	4.42	4.93
Ann	41.14	41.58	3.24	Oct 1959	7	9.75	Jun 1989	.46	Feb 1987	167.4	100.2	24.2	6.0	32.43	34.18	36.39	38.03	39.48	40.87	42.28	43.84	45.70	48.37	50.66

+ 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

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Station: FRANKLINVILLE, NY

COOP ID: 303025

Climate Division: NY 1

NWS Call Sign:

Elevation: 1,550 Feet

Lat: 42° 20N

Lon: 78° 28W

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	23.6	20.8	7	5	14.0	1993	31	50.2	1999	44	1977	31	26	1977	11.5	10.0	3.6	1.5	.1	22.9	18.2	13.4	6.5
Feb	14.5	13.2	7	5	11.0	1979	26	33.0	1993	55	1977	5	26	1977	7.3	6.4	2.0	.5	@	19.6	15.8	11.4	5.1
Mar	14.0	9.3	4	1	16.0	1971	4	35.5	1999	28	1993	15	16	1993	5.6	5.0	1.6	.7	.1	11.7	8.0	5.0	3.0
Apr	4.1	2.8	#	#	12.0	1975	5	19.5	1975	12	1975	5	2	1975	1.8	1.5	.5	.2	@	2.4	1.1	.4	@
May	.2	.0	#	0	4.0	1989	7	6.0	1989	4	1989	7	#+	1996	.1	.1	@	.0	.0	.1	@	.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	.6	.0	#	0	7.0	1976	22	8.2	1976	7	1976	22	1	1976	.3	.3	@	@	.0	.3	.1	.1	.0
Nov	9.8	8.0	1	1	19.0	1995	15	40.0	1995	20	1995	15	6	1995	3.9	3.4	1.4	.6	.2	5.9	2.9	1.4	.5
Dec	22.6	23.0	4	4	13.0	1978	25	43.0	1991	21	1993	31	10	1989	9.4	8.4	3.5	1.2	.2	16.7	11.2	8.0	2.5
Ann	89.4	77.1	N/A	N/A	19.0	Nov 1995	15	50.2	Jan 1999	55	Feb 1977	5	26+	Feb 1977	39.9	35.1	12.6	4.7	.6	79.6	57.3	39.7	17.6

+ 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

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No. 20 1971-2000

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Climate Division: NY 1

NWS Call Sign:

Elevation: 1,550 Feet

Lat: 42° 20N

Lon: 78° 28W

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	6/24	6/19	6/15	6/11	6/08	6/05	6/02	5/29	5/23
32	6/11	6/05	6/01	5/29	5/26	5/22	5/19	5/15	5/09
28	5/31	5/25	5/21	5/18	5/14	5/11	5/07	5/03	4/27
24	5/10	5/06	5/03	4/30	4/27	4/25	4/22	4/19	4/15
20	4/27	4/22	4/19	4/17	4/14	4/12	4/09	4/06	4/02
16	4/17	4/13	4/10	4/07	4/04	4/01	3/30	3/26	3/22
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	8/28	9/02	9/06	9/09	9/12	9/15	9/19	9/22	9/28
32	9/07	9/12	9/16	9/19	9/22	9/25	9/28	10/02	10/07
28	9/21	9/26	9/30	10/04	10/07	10/10	10/13	10/17	10/23
24	10/07	10/12	10/16	10/19	10/22	10/26	10/29	11/02	11/07
20	10/20	10/25	10/28	10/31	11/03	11/06	11/09	11/12	11/17
16	10/23	10/29	11/02	11/06	11/09	11/13	11/16	11/20	11/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	118	110	105	100	95	91	86	80	72
32	144	135	129	123	119	114	108	102	93
28	163	157	152	148	145	141	137	133	127
24	199	192	186	182	177	173	168	163	155
20	222	215	210	206	202	198	194	189	182
16	241	233	228	223	218	214	209	203	195

* 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:
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No. 20
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Station: FRANKLINVILLE, NY

COOP ID: 303025

Climate Division: NY 1 NWS Call Sign: Elevation: 1,550 Feet Lat: 42° 20N Lon: 78° 28W

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	1382	1211	1068	690	382	132	46	74	232	566	844	1197	7824
60	1227	1071	913	540	250	54	6	15	107	415	694	1042	6334
57	1134	987	820	451	183	26	0	3	56	329	604	949	5542
55	1072	931	758	393	145	15	0	0	34	276	544	887	5055
50	917	791	605	256	70	3	0	0	7	162	397	735	3943
32	397	336	169	9	0	0	0	0	0	4	46	267	1228

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	38	49	124	310	650	893	1049	999	760	461	192	93	5618
55	0	0	0	3	82	218	336	286	104	20	0	0	1049
57	0	0	0	1	59	169	274	227	66	12	0	0	808
60	0	0	0	0	32	107	187	145	27	4	0	0	502
65	0	0	0	0	9	35	72	50	2	0	0	0	168
70	0	0	0	0	2	7	13	8	0	0	0	0	30

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	7	46	146	400	650	801	751	519	236	71	13	4	11	57	203	603	1253	2054	2805	3324	3560	3631	3644
45	0	0	22	77	265	501	646	596	371	133	33	5	0	0	22	99	364	865	1511	2107	2478	2611	2644	2649
50	0	0	6	40	159	356	491	442	241	66	12	1	0	0	6	46	205	561	1052	1494	1735	1801	1813	1814
55	0	0	2	13	87	223	338	293	135	21	0	0	0	0	2	15	102	325	663	956	1091	1112	1112	1112
60	0	0	0	2	37	120	197	161	63	1	0	0	0	0	0	2	39	159	356	517	580	581	581	581
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	3	39	106	266	410	509	470	317	151	44	6	0	3	42	148	414	824	1333	1803	2120	2271	2315	2321

(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.

- 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/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