

Climatography of the United States

No. 20

1971-2000

Station: SANFORD 2 NNW, ME

COOP ID: 177479

Climate Division: ME 3

NWS Call Sign:

Elevation: 280 Feet

Lat: 43° 28N

Lon: 70° 47W

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	32.0	11.7	21.9	62	1974	27	29.8	1990	-28	1957	18	13.4	1982	1337	0	.0	.0	1.5	14.9	30.1	6.3
Feb	36.0	14.0	25.0	68	1997	22	32.3	1984	-25	1967	13	17.3	1993	1121	0	.0	.0	2.5	9.6	26.6	4.2
Mar	45.2	23.6	34.4	88	1998	31	39.5	1977	-13	1967	19	27.9	1984	949	0	.0	.0	9.5	2.7	26.1	.6
Apr	57.1	33.1	45.1	92	1962	27	49.0	1991	-10	1982	8	40.2	1972	597	0	.0	.1	22.6	.1	14.5	.0
May	69.6	43.3	56.5	97	1962	19	61.1	1991	22+	1981	18	51.3	1974	272	7	.0	.8	30.6	.0	2.3	.0
Jun	77.8	52.6	65.2	97	1991	28	70.3	1976	31	1986	3	60.2	1982	66	71	.0	2.2	30.0	.0	@	.0
Jul	82.5	58.1	70.3	98+	1991	20	73.7	1994	38+	1962	3	66.7	2000	8	172	.0	3.7	31.0	.0	.0	.0
Aug	80.4	56.8	68.6	101	1975	2	71.8	1988	31	1965	30	65.7	1986	18	131	.1	2.0	31.0	.0	.0	.0
Sep	72.1	48.5	60.3	95+	1960	8	64.9	1999	23	1965	28	57.4	1978	157	16	.0	.2	30.0	.0	1.1	.0
Oct	61.1	37.4	49.3	89	1963	7	55.4	1971	12	1966	31	44.2	1974	489	0	.0	.0	28.3	.0	10.5	.0
Nov	47.9	29.4	38.7	75	1974	1	43.7	1999	-1	1989	24	33.8	1976	790	0	.0	.0	12.2	1.1	19.7	@
Dec	36.6	18.5	27.6	73	1998	7	33.6	1996	-20	1963	31	14.0	1989	1161	0	.0	.0	3.1	9.6	28.7	2.1
Ann	58.2	35.6	46.9	101	Aug 1975	2	73.7	Jul 1994	-28	Jan 1957	18	13.4	Jan 1982	6965	397	.1	9.0	232.3	38.0	159.6	13.2

+ 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: 1953-2001

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

030-A

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No. 20

1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: SANFORD 2 NNW, ME

COOP ID: 177479

Climate Division: ME 3

NWS Call Sign:

Elevation: 280 Feet Lat: 43°28N

Lon: 70°47W

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	4.16	3.99	2.37	1983	11	11.03	1979	.47	1981	9.9	7.2	2.8	1.0	.91	1.30	1.91	2.46	3.01	3.60	4.26	5.05	6.09	7.75	9.31
Feb	3.51	3.18	3.32	1977	25	10.58	1981	.02	1987	7.5	5.8	2.5	.9	.57	.87	1.38	1.86	2.36	2.90	3.53	4.28	5.30	6.94	8.51
Mar	4.51	4.09	3.27	2001	22	12.10	1983	1.28	1981	10.1	7.5	3.1	1.3	1.58	2.01	2.62	3.14	3.64	4.15	4.71	5.36	6.19	7.47	8.65
Apr	4.50	3.99	3.50	1980	10	8.55	1973	.55	1999	10.2	7.1	3.2	1.1	1.36	1.79	2.42	2.97	3.51	4.06	4.67	5.39	6.32	7.77	9.12
May	3.92	3.48	4.27	1954	9	10.41	1984	1.03	1993	11.5	8.0	2.6	.9	1.12	1.49	2.05	2.54	3.02	3.52	4.07	4.72	5.56	6.88	8.12
Jun	3.53	3.14	4.45	1998	14	13.67	1998	.87	1979	10.5	6.7	2.2	.7	.84	1.17	1.68	2.14	2.60	3.08	3.63	4.27	5.12	6.45	7.71
Jul	3.91	3.55	2.68	1963	19	8.69	2000	1.37	1977	10.3	7.0	3.0	.8	1.48	1.85	2.37	2.80	3.21	3.63	4.09	4.61	5.28	6.32	7.26
Aug	3.63	2.91	4.71	1991	19	12.79	1991	.37	1996	9.0	6.3	2.2	.8	.88	1.22	1.75	2.23	2.69	3.19	3.74	4.40	5.26	6.62	7.91
Sep	3.75	3.19	7.00	1960	12	12.03	1999	.51	1978	9.2	6.1	2.6	1.1	.84	1.19	1.74	2.24	2.73	3.26	3.85	4.55	5.48	6.96	8.35
Oct	4.27	3.94	4.48	1962	7	9.61	1977	.26	1994	9.5	6.3	2.8	1.4	1.20	1.60	2.22	2.75	3.28	3.82	4.43	5.14	6.07	7.53	8.89
Nov	4.82	4.40	3.87	1988	2	14.05	1983	.68	1976	10.3	7.4	3.4	1.3	1.58	2.03	2.71	3.28	3.83	4.40	5.03	5.76	6.69	8.15	9.50
Dec	4.28	3.73	2.92+	1993	21	9.52	1973	.77	1980	10.2	7.3	2.9	1.1	1.13	1.54	2.16	2.70	3.24	3.80	4.42	5.16	6.13	7.64	9.06
Ann	48.79	49.78	7.00	Sep 1960	12	14.05	Nov 1983	.02	Feb 1987	118.2	82.7	33.3	12.4	37.63	39.86	42.68	44.79	46.65	48.43	50.26	52.27	54.69	58.16	61.13

+ 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: 1953-2001

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

Complete documentation available from:
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Station: SANFORD 2 NNW, ME

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Climate Division: ME 3

NWS Call Sign:

Elevation: 280 Feet

Lat: 43°28N

Lon: 70°47W

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	13.1	14.1	12	7	14.0	1977	10	20.8	1990	63	1971	23	55	1971	3.3	3.0	2.0	1.0	.2	-9.9	-9.9	-9.9	-9.9
Feb	14.0	7.5	9	7	16.0	1972	19	38.0	1972	58	1971	6	29	1971	2.0	1.7	1.0	.7	.1	12.3	10.9	6.7	4.2
Mar	11.1	4.0	3	1	16.0	1972	15	29.0	1971	29	1993	18	19	1993	2.0	1.7	1.0	.6	.1	-9.9	-9.9	-9.9	-9.9
Apr	1.8	.0	#	0	8.0	1971	7	8.5	1971	8	1971	7	1	1993	.6	.5	.3	.1	.0	.8	.4	.2	.0
May	#	.0	#	0	#	1996	6	#+	1996	#+	1997	6	#+	1997	.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	#	1988	30	#	1988	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	2.1	.0	#	0	12.0	1971	25	18.0	1971	12	1971	25	2	1971	.8	.6	.2	.1	.1	1.3	.5	.4	.1
Dec	13.8	15.0	3	3	10.0	1976	29	29.0	1971	17	1975	31	9	1981	2.7	2.3	1.8	1.0	.1	14.1	10.8	8.4	3.2
Ann	55.9	40.6	N/A	N/A	16.0+	Mar 1972	15	38.0	Feb 1972	63	Jan 1971	23	55	Jan 1971	11.4	9.8	6.3	3.5	.6	-9.9	-9.9	-9.9	-9.9

+ 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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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	6/08	6/03	5/30	5/27	5/24	5/22	5/19	5/15	5/10
32	5/22	5/18	5/15	5/12	5/10	5/07	5/05	5/02	4/27
28	5/09	5/05	5/02	4/29	4/27	4/25	4/22	4/19	4/15
24	5/02	4/26	4/22	4/18	4/15	4/12	4/08	4/04	3/30
20	4/16	4/11	4/08	4/05	4/02	3/30	3/27	3/24	3/19
16	4/10	4/04	3/31	3/28	3/25	3/22	3/19	3/15	3/10
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	9/08	9/12	9/14	9/17	9/19	9/21	9/23	9/26	9/30
32	9/21	9/24	9/26	9/28	9/30	10/02	10/04	10/06	10/09
28	9/27	10/02	10/05	10/08	10/10	10/13	10/16	10/19	10/24
24	10/13	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/12
20	10/21	10/28	11/01	11/06	11/09	11/13	11/17	11/22	11/29
16	11/04	11/10	11/15	11/19	11/23	11/26	11/30	12/05	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	135	129	124	120	117	113	109	104	98
32	159	153	149	146	142	139	136	132	126
28	186	179	174	170	166	162	157	152	146
24	218	210	204	199	195	190	186	180	172
20	246	237	231	226	221	216	210	204	196
16	268	259	252	247	242	236	231	224	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

Complete documentation available from:

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Lat: 43° 28N

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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	1337	1121	949	597	272	66	8	18	157	489	790	1161	6965
60	1182	981	794	447	147	16	0	1	61	339	640	1006	5614
57	1089	897	701	359	89	5	0	0	29	255	550	913	4887
55	1027	841	639	301	60	2	0	0	16	205	490	851	4432
50	872	701	484	173	16	0	0	0	2	103	344	696	3391
32	346	238	70	1	0	0	0	0	0	0	27	225	907

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	31	42	144	394	758	996	1187	1136	848	534	227	87	6384
55	0	0	0	4	105	308	474	423	174	26	0	0	1514
57	0	0	0	2	72	251	412	361	127	14	0	0	1239
60	0	0	0	0	37	172	319	269	70	5	0	0	872
65	0	0	0	0	7	71	172	131	16	0	0	0	397
70	0	0	0	0	1	17	62	40	1	0	0	0	121

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	0	5	48	191	524	770	958	905	625	312	91	9	0	5	53	244	768	1538	2496	3401	4026	4338	4429	4438
45	0	0	15	98	372	620	803	750	477	188	43	3	0	0	15	113	485	1105	1908	2658	3135	3323	3366	3369
50	0	0	5	45	230	470	648	595	331	91	15	0	0	0	5	50	280	750	1398	1993	2324	2415	2430	2430
55	0	0	3	17	121	323	493	440	200	36	3	0	0	0	3	20	141	464	957	1397	1597	1633	1636	1636
60	0	0	1	6	55	194	338	293	106	7	0	0	0	0	1	7	62	256	594	887	993	1000	1000	1000
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	2	43	136	326	488	636	600	394	197	53	7	0	2	45	181	507	995	1631	2231	2625	2822	2875	2882

(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