

Climatography of the United States No. 20

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

Station: NORTH STRATFORD, NH

1971-2000

COOP ID: 276234

Climate Division: NH 1

NWS Call Sign:

Elevation: 910 Feet

Lat: 44°45N

Lon: 71°38W

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	24.0	.2	12.1	61+	1995	17	22.2	1990	-37+	1994	20	1.3	1994	1640	0	.0	.0	.6	22.5	30.5	14.2
Feb	27.4	.4	13.9	60+	1981	23	24.6	1981	-40+	1993	8	2.9	1993	1431	0	.0	.0	1.1	17.7	27.7	12.8
Mar	38.0	13.4	25.7	76+	1977	31	33.5	1973	-28+	1982	1	19.3	1984	1219	0	.0	.0	4.7	6.5	28.8	4.4
Apr	51.0	27.0	39.0	87+	1990	29	44.8	1987	-8	1969	1	32.5	1972	780	0	.0	.0	17.2	.7	21.6	@
May	66.2	38.3	52.3	93	1977	22	57.5	1998	19	1985	9	46.9	1997	399	3	.0	.4	29.7	.0	6.7	.0
Jun	74.6	47.9	61.3	97	1989	22	66.0	1999	28	1986	3	57.8	1985	135	22	.0	.7	30.0	.0	.7	.0
Jul	78.8	52.4	65.6	95+	1988	9	69.4	1994	33+	1992	2	61.7	1992	49	69	.0	1.3	31.0	.0	.0	.0
Aug	76.5	50.6	63.6	95	1975	2	67.5	1973	29	1982	30	60.2	1982	92	46	.0	.6	31.0	.0	.2	.0
Sep	67.7	42.5	55.1	90	1989	10	60.3	1999	20	1980	29	50.9	1978	300	2	.0	@	29.9	.0	3.7	.0
Oct	55.2	31.3	43.3	81+	1990	8	49.1	1971	10	1972	20	37.2	1974	675	0	.0	.0	24.2	@	14.8	.0
Nov	40.6	22.6	31.6	71	1996	9	37.1	1999	-5	1978	27	25.8	1971	1002	0	.0	.0	6.6	4.6	23.5	.4
Dec	28.9	9.0	19.0	61+	2001	7	27.7	1996	-30	1980	26	2.7	1989	1427	0	.0	.0	.6	18.1	30.1	5.7
Ann	52.4	28.0	40.2	97	Jun 1989	22	69.4	Jul 1994	-40+	Feb 1993	8	1.3	Jan 1994	9149	142	.0	3.0	206.6	70.1	188.3	37.5

+ 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: 1948-2001

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

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COOP ID: 276234

Climate Division: NH 1

NWS Call Sign:

Elevation: 910 Feet Lat: 44°45N

Lon: 71°38W

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	2.82	2.51	2.50	1986	27	5.92	1979	.56	1981	13.6	6.2	1.4	.2	.93	1.20	1.59	1.93	2.25	2.58	2.94	3.36	3.91	4.75	5.53
Feb	2.06	2.01	1.89	1974	23	3.80	1981	.62	1978	11.9	5.2	.9	.1	.78	.98	1.25	1.48	1.70	1.92	2.16	2.44	2.79	3.34	3.84
Mar	2.60	2.64	1.26	1974	17	4.68	1972	.87	1981	15.0	7.4	1.3	.2	1.33	1.55	1.84	2.08	2.29	2.50	2.73	2.99	3.31	3.79	4.22
Apr	2.72	2.62	2.45	1969	23	5.88	1996	.80	1971	13.8	7.7	1.5	.3	1.04	1.29	1.65	1.96	2.24	2.53	2.85	3.22	3.68	4.40	5.06
May	3.41	3.32	2.05	1984	31	7.44	1984	.80	1977	14.1	8.8	2.4	.4	1.18	1.50	1.97	2.37	2.75	3.14	3.56	4.06	4.70	5.68	6.59
Jun	3.85	3.41	2.53	1952	2	7.92	1998	1.00	1995	14.4	8.9	2.7	.4	1.42	1.78	2.30	2.74	3.15	3.57	4.03	4.56	5.24	6.28	7.24
Jul	4.09	3.95	2.54	1973	1	8.03	1996	1.53	1991	13.4	8.6	3.0	.8	1.80	2.17	2.68	3.09	3.48	3.87	4.29	4.77	5.37	6.30	7.13
Aug	4.34	4.30	2.60	1977	17	8.27	1988	1.90	1987	13.7	8.6	2.9	1.0	1.91	2.29	2.84	3.28	3.69	4.10	4.55	5.06	5.71	6.69	7.57
Sep	3.55	3.20	3.30	1954	1	7.63	1999	.98	1972	13.2	7.1	1.9	.6	1.58	1.89	2.33	2.69	3.02	3.36	3.72	4.13	4.65	5.44	6.16
Oct	3.35	3.00	2.20	1991	7	7.24	1990	1.01	1994	14.6	8.1	2.1	.4	1.28	1.60	2.04	2.41	2.76	3.12	3.51	3.95	4.52	5.40	6.20
Nov	3.13	3.11	1.95	1990	11	6.50	1983	1.55	1978	16.5	8.2	2.1	.4	1.61	1.87	2.22	2.50	2.75	3.01	3.28	3.59	3.98	4.55	5.07
Dec	2.97	2.61	1.76	1950	5	7.80	1973	1.22	1989	17.1	7.9	1.5	.3	1.12	1.39	1.79	2.12	2.43	2.75	3.10	3.50	4.02	4.81	5.53
Ann	38.89	37.35	3.30	Sep 1954	1	8.27	Aug 1988	.56	Jan 1981	171.3	92.7	23.7	5.1	31.12	32.70	34.67	36.15	37.45	38.68	39.95	41.33	42.99	45.36	47.38

+ 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

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Station: NORTH STRATFORD, NH

COOP ID: 276234

Climate Division: NH 1

NWS Call Sign:

Elevation: 910 Feet

Lat: 44° 45N

Lon: 71° 38W

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	21.1	18.5	14	13	11.0	1979	8	50.5	1979	43	1994	28	27	1994	9.4	6.6	2.8	1.2	.1	28.6	26.7	25.0	20.3
Feb	18.2	18.0	16	16	11.0	1981	9	32.8	1993	37	1982	10	34	1982	8.2	6.2	2.5	1.1	@	27.6	25.6	24.1	19.2
Mar	15.0	15.5	14	13	20.0	1993	14	32.6	1993	43	1993	15	31	1982	6.6	5.0	1.8	.7	.2	24.5	23.1	21.7	16.5
Apr	6.8	6.5	2	1	10.0	1996	11	25.0	1987	25	1972	7	17	1972	2.8	2.3	.8	.3	@	6.6	4.8	3.9	2.8
May	.0	.0	#	0	1.0	1978	1	1.0	1978	1	1978	1	#+	1985	@	@	.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	.3	.0	#	0	2.0	1979	10	3.5	1979	2	1979	29	#+	1992	.2	.2	.0	.0	.0	.2	.0	.0	.0
Nov	6.6	6.0	1	1	11.0	1971	26	20.3	1971	14	1971	30	3	1971	4.3	2.8	.6	.2	@	8.4	2.8	1.0	.3
Dec	20.7	19.2	7	6	10.0	1981	7	42.0	1981	31	1995	31	17	1995	10.3	7.6	2.5	1.0	@	24.0	17.9	15.1	7.1
Ann	88.7	83.7	N/A	N/A	20.0	Mar 1993	14	50.5	Jan 1979	43+	Jan 1994	28	34	Feb 1982	41.8	30.7	11.0	4.5	.3	119.9	100.9	90.8	66.2

+ 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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1971-2000**

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COOP ID: 276234

Climate Division: NH 1

NWS Call Sign:

Elevation: 910 Feet

Lat: 44° 45N

Lon: 71° 38W

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	6/26	6/21	6/18	6/15	6/12	6/09	6/06	6/03	5/29
32	6/13	6/08	6/03	5/31	5/28	5/24	5/21	5/16	5/11
28	5/27	5/22	5/19	5/16	5/13	5/10	5/07	5/04	4/29
24	5/12	5/08	5/05	5/03	4/30	4/28	4/26	4/23	4/19
20	4/30	4/25	4/22	4/19	4/16	4/13	4/10	4/07	4/02
16	4/18	4/14	4/11	4/08	4/06	4/04	4/02	3/30	3/26
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	8/22	8/27	8/31	9/03	9/05	9/08	9/11	9/14	9/19
32	9/02	9/07	9/10	9/13	9/15	9/18	9/21	9/24	9/29
28	9/21	9/26	9/29	10/02	10/05	10/08	10/11	10/15	10/20
24	9/29	10/05	10/09	10/13	10/16	10/19	10/23	10/27	11/02
20	10/06	10/12	10/16	10/20	10/24	10/27	10/31	11/05	11/11
16	10/20	10/26	10/30	11/03	11/06	11/10	11/14	11/18	11/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	103	97	92	88	85	81	77	72	66
32	133	125	120	115	110	106	101	95	87
28	167	159	154	149	144	140	135	130	122
24	191	183	177	172	168	163	159	153	145
20	213	205	199	195	190	185	181	175	167
16	236	228	223	218	213	209	204	199	191

* 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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COOP ID: 276234

Climate Division: NH 1

NWS Call Sign:

Elevation: 910 Feet Lat: 44° 45N Lon: 71° 38W

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	1640	1431	1219	780	399	135	49	92	300	675	1002	1427	9149
60	1485	1291	1064	630	258	50	7	25	168	520	852	1272	7622
57	1392	1207	971	541	185	21	0	8	105	430	762	1179	6801
55	1330	1151	909	482	144	10	0	3	72	371	702	1117	6291
50	1175	1011	754	342	66	1	0	0	23	236	552	962	5122
32	628	518	254	34	0	0	0	0	0	7	102	439	1982

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	11	12	58	244	627	877	1043	977	693	356	90	35	5023
55	0	0	0	2	58	197	330	267	75	6	0	0	935
57	0	0	0	1	37	148	268	210	48	3	0	0	715
60	0	0	0	0	17	86	182	134	20	0	0	0	439
65	0	0	0	0	3	22	69	46	2	0	0	0	142
70	0	0	0	0	0	2	12	8	0	0	0	0	22

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	1	15	111	437	672	830	773	499	197	38	1	1	2	17	128	565	1237	2067	2840	3339	3536	3574	3575
45	0	0	3	50	293	522	675	618	353	101	10	0	0	0	3	53	346	868	1543	2161	2514	2615	2625	2625
50	0	0	0	22	166	375	520	463	218	44	3	0	0	0	0	22	188	563	1083	1546	1764	1808	1811	1811
55	0	0	0	9	80	232	365	313	114	13	0	0	0	0	0	9	89	321	686	999	1113	1126	1126	1126
60	0	0	0	1	29	121	218	174	46	2	0	0	0	0	0	1	30	151	369	543	589	591	591	591
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	15	93	294	430	537	498	313	134	20	0	0	0	15	108	402	832	1369	1867	2180	2314	2334	2334

(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