U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: PINKHAM NOTCH, NH **COOP ID: 276818**

Climate Division: NH 1 **NWS Call Sign:** **Elevation: 2,009 Feet** **Lat: 44˚16N** **Lon: 71˚15W**

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	25.4	4.6	15.0	64	1950	26	23.2	1990	-31	1957	15	5.9	1982	1550	0	.0	.0	.7	22.8	30.5	12.7
Feb	27.7	6.9	17.3	62	1994	21	25.5	1981	-28	1962	2	8.2	1993	1336	0	.0	.0	.8	19.3	27.9	9.8
Mar	35.9	15.9	25.9	70	1998	31	32.8	1977	-18+	1989	8	18.4	1984	1212	0	.0	.0	3.5	11.6	29.5	3.7
Apr	47.1	27.7	37.4	86+	1990	28	42.9	1986	-6	1974	11	31.6	1975	828	0	.0	.0	11.4	1.8	22.7	@
May	61.3	38.8	50.1	89	1962	19	56.0	1998	17	1968	8	44.3	1997	466	1	.0	.0	26.6	@	6.4	.0
Jun	69.5	47.9	58.7	90+	1995	20	62.7	1976	26	1988	8	53.9	1985	197	8	.0	.1	29.6	.0	.2	.0
Jul	74.5	52.8	63.7	93	1982	20	66.7	1994	32	1968	29	59.7	1992	75	34	.0	.1	31.0	.0	.0	.0
Aug	72.7	50.9	61.8	91+	1975	3	65.8	1973	31	2000	18	58.8	1972	121	22	.0	.1	30.9	.0	.1	.0
Sep	64.5	43.1	53.8	89	1960	8	58.5	1999	21	1980	29	50.4	1986	336	0	.0	.0	28.7	.0	3.5	.0
Oct	53.9	32.7	43.3	82	1963	7	50.7	1971	3	1972	16	37.2	1974	671	0	.0	.0	18.9	.3	17.0	.0
Nov	41.5	24.0	32.8	73	1950	2	37.6	1979	-5+	1989	24	28.5	1980	968	0	.0	.0	6.0	6.6	25.2	.2
Dec	30.6	11.6	21.1	67	2001	7	28.5	1998	-21+	1980	26	6.1	1989	1361	0	.0	.0	1.8	18.4	30.4	5.9
Ann	50.4	29.7	40.1	93	Jul 1982	20	66.7	Jul 1994	-31	Jan 1957	15	5.9	Jan 1982	9121	65	.0	.3	189.9	80.8	193.4	32.3

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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Climate Division: NH 1 **NWS Call Sign:** **Elevation: 2,009 Feet** **Lat: 44˚16N** **Lon: 71˚15W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	5.06	4.09	3.85	1986	27	12.80	1996	.41	1981
Feb	3.52	2.99	4.47	1969	10	13.52	1981	1.04	1989
Mar	5.00	4.61	3.47	1974	17	8.69	1999	1.74	1988
Apr	4.94	4.76	6.28	1987	1	10.84	1987	1.73	1999
May	4.82	4.80	3.00	1954	9	10.16	1984	.87	1992
Jun	5.23	4.99	5.76	1998	14	17.70	1998	1.34	1979
Jul	4.63	4.69	7.01	1969	30	10.47	1996	1.12	1978
Aug	5.11	4.62	4.72	1991	20	13.90	1991	1.43	1996
Sep	4.92	4.51	5.28	1999	17	14.25	1999	1.61	1972
Oct	5.55	4.91	5.37	1995	22	15.46	1995	1.07	1994
Nov	5.47	5.34	6.04	1950	26	12.06	1995	1.61	1981
Dec	4.92	4.51	3.72	1969	27	16.20	1973	1.03	1988
Ann	59.17	59.92	7.01	Jul 1969	30	17.70	Jun 1998	.41	Jan 1981

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.0	8.1	3.2	1.4
Feb	12.0	6.8	2.2	.9
Mar	13.6	9.4	3.2	1.2
Apr	13.1	8.3	3.0	1.2
May	14.2	9.3	3.3	1.0
Jun	14.2	9.6	3.5	1.1
Jul	13.0	8.7	3.2	1.1
Aug	12.4	8.1	3.2	1.5
Sep	12.8	8.2	3.0	1.3
Oct	12.9	8.3	3.2	1.4
Nov	14.1	9.0	3.5	1.6
Dec	15.6	9.2	3.3	1.1
Ann	162.9	103.0	37.8	14.8

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.01	1.47	2.22	2.90	3.58	4.32	5.15	6.15	7.48	9.61	11.62
Feb	.98	1.31	1.82	2.26	2.69	3.14	3.64	4.24	5.01	6.21	7.34
Mar	2.16	2.61	3.24	3.75	4.24	4.72	5.25	5.85	6.61	7.76	8.80
Apr	1.80	2.27	2.93	3.49	4.03	4.57	5.16	5.85	6.73	8.09	9.33
May	1.48	1.94	2.62	3.21	3.77	4.37	5.01	5.78	6.76	8.30	9.72
Jun	1.45	1.95	2.70	3.36	4.00	4.68	5.42	6.30	7.45	9.25	10.92
Jul	1.64	2.08	2.71	3.24	3.75	4.27	4.83	5.49	6.34	7.64	8.83
Aug	1.79	2.27	2.97	3.56	4.13	4.71	5.34	6.08	7.02	8.48	9.83
Sep	1.99	2.44	3.08	3.61	4.10	4.61	5.16	5.78	6.58	7.80	8.91
Oct	1.75	2.28	3.06	3.73	4.37	5.04	5.78	6.64	7.75	9.47	11.07
Nov	2.11	2.62	3.35	3.95	4.52	5.10	5.73	6.46	7.38	8.80	10.10
Dec	1.59	2.06	2.75	3.34	3.90	4.49	5.13	5.88	6.84	8.34	9.73
Ann	44.01	47.00	50.80	53.66	56.19	58.63	61.14	63.90	67.23	72.04	76.18

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	30.8	27.7	19	19	18.5	1979	26	60.6	1979	48	1971	31	35	1971	11.0	7.6	3.3	1.9	.4	-9.9	-9.9	-9.9	-9.9
Feb	22.0	18.6	24	23	21.0	1995	5	50.6	1972	62	1978	8	48	1971	9.5	6.2	2.6	1.3	.3	-9.9	-9.9	-9.9	-9.9
Mar	26.6	26.2	24	25	21.0	1984	14	47.0	1971	73	1971	22	63	1971	9.2	6.4	3.1	1.4	.4	-9.9	-9.9	-9.9	-9.9
Apr	12.6	10.1	11	5	22.0	1975	4	41.8	1975	57	1971	1	44	1972	4.9	3.0	1.6	.7	.3	11.8	9.9	7.4	5.6
May	.3	.0	1	0	4.2	1974	7	4.2	1974	30	1972	1	8	1972	.2	.1	@	.0	.0	.6	.6	.5	.4
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	.1	.0	#	0	2.0	1986	16	2.8	1986	#	1997	22	#	1997	.1	@	.0	.0	.0	.0	.0	.0	.0
Oct	1.1	.0	#	#	8.0	2000	31	8.0	2000	10	2000	31	1	2000	.9	.5	.1	@	.0	.5	.2	@	@
Nov	13.6	11.7	2	1	12.6	1972	15	37.2	1972	18	1971	30	7	1972	5.6	3.3	1.3	.5	.1	7.3	3.6	2.7	.9
Dec	27.6	24.1	9	8	12.5	1981	7	63.7	1981	36	1995	21	24+	1995	10.6	7.2	3.6	1.7	.2	23.0	18.4	15.6	10.4
Ann	134.7	118.4	N/A	N/A	22.0	Apr 1975	4	63.7	Dec 1981	73	Mar 1971	22	63	Mar 1971	52.0	34.3	15.6	7.5	1.7	-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

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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	6/30	6/23	6/17	6/13	6/08	6/04	5/30	5/25	5/17
32	6/05	5/31	5/28	5/25	5/22	5/19	5/16	5/13	5/08
28	5/23	5/18	5/14	5/11	5/08	5/05	5/02	4/28	4/23
24	5/06	5/01	4/28	4/25	4/22	4/19	4/16	4/13	4/08
20	4/23	4/19	4/16	4/13	4/11	4/08	4/06	4/03	3/29
16	4/18	4/14	4/11	4/08	4/05	4/03	3/31	3/28	3/24

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	8/20	8/25	8/30	9/02	9/05	9/09	9/12	9/17	9/22
32	9/07	9/12	9/16	9/19	9/22	9/26	9/29	10/03	10/08
28	9/19	9/24	9/27	9/29	10/02	10/04	10/07	10/10	10/14
24	9/29	10/04	10/08	10/12	10/15	10/18	10/21	10/25	10/30
20	10/09	10/16	10/21	10/25	10/29	11/02	11/06	11/11	11/17
16	10/25	10/30	11/03	11/06	11/10	11/13	11/16	11/20	11/25

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	120	109	101	95	88	82	75	67	56
32	143	136	131	127	123	119	114	109	102
28	168	160	155	151	146	142	138	132	125
24	199	191	185	180	175	170	165	159	151
20	225	217	211	205	200	195	190	184	175
16	240	233	227	222	217	213	208	202	194

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1550	1336	1212	828	466	197	75	121	336	671	968	1361	9121
60	1395	1196	1057	678	320	87	12	36	195	516	818	1206	7516
57	1302	1112	964	588	241	45	2	12	124	427	728	1113	6658
55	1240	1056	902	529	195	26	0	4	86	368	668	1051	6125
50	1085	916	747	384	101	5	0	0	27	234	518	896	4913
32	537	422	236	39	0	0	0	0	0	8	85	376	1703

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	10	10	47	200	559	801	982	925	654	360	107	38	4693
55	0	0	0	1	40	137	269	216	50	7	0	0	720
57	0	0	0	0	25	96	209	161	28	3	0	0	522
60	0	0	0	0	11	48	126	92	9	0	0	0	286
65	0	0	0	0	1	8	34	22	0	0	0	0	65
70	0	0	0	0	0	0	3	2	0	0	0	0	5

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	0	9	74	331	571	735	668	399	151	37	2	0	0	9	83	414	985	1720	2388	2787	2938	2975	2977
45	0	0	3	28	204	423	580	514	261	71	11	0	0	0	3	31	235	658	1238	1752	2013	2084	2095	2095
50	0	0	0	11	110	281	426	360	146	26	3	0	0	0	0	11	121	402	828	1188	1334	1360	1363	1363
55	0	0	0	3	46	158	274	218	69	9	0	0	0	0	0	3	49	207	481	699	768	777	777	777
60	0	0	0	0	18	69	144	99	26	0	0	0	0	0	0	0	18	87	231	330	356	356	356	356
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	6	53	197	326	444	394	223	94	20	1	0	0	6	59	256	582	1026	1420	1643	1737	1757	1758

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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