

Climatography of the United States

No. 20

1971-2000

Station: FIRST CONN LAKE, NH

COOP ID: 272999

Climate Division: NH 1

NWS Call Sign:

Elevation: 1,660 Feet Lat: 45°05N

Lon: 71°17W

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	20.8	-2.5	9.2	60+	1995	16	19.6	1990	-44	1994	20	-1.0	1994	1733	0	.0	.0	.3	25.4	30.8	18.2
Feb	24.0	-2.0	11.0	60	2000	28	22.2	1981	-40+	1973	19	1.1	1979	1513	0	.0	.0	.6	21.8	27.9	16.8
Mar	33.9	9.2	21.6	69+	1998	29	30.1	1973	-30	1968	7	14.6	1984	1346	0	.0	.0	3.1	14.1	30.0	9.6
Apr	45.7	24.3	35.0	82+	1990	28	42.2	1986	-17	1954	5	28.3	1975	901	0	.0	.0	10.2	3.1	24.8	.5
May	60.4	36.4	48.4	89	1955	30	53.6	1998	17+	1966	8	42.1	1997	515	0	.0	.0	25.5	.1	10.3	.0
Jun	69.1	46.7	57.9	90+	1994	19	61.8	1999	25	1986	3	54.0	1986	218	5	.0	.1	29.5	.0	1.3	.0
Jul	73.5	51.7	62.6	93	1953	19	65.6	1994	29	1992	2	58.8	1992	100	25	.0	.0	31.0	.0	@	.0
Aug	71.7	49.8	60.8	91	1975	3	64.3	1973	28	1989	25	57.5	1982	148	16	.0	.1	31.0	.0	.4	.0
Sep	63.0	41.6	52.3	87	1959	10	58.3	1999	18	1980	29	47.9	1978	382	0	.0	.0	28.2	.0	5.6	.0
Oct	51.0	31.7	41.4	80+	1951	6	48.5	1971	8	1972	20	35.6	1974	733	0	.0	.0	17.2	.9	18.4	.0
Nov	37.6	22.2	29.9	72	1950	3	35.6	1979	-11	1989	25	25.1	1980	1054	0	.0	.0	4.5	10.4	26.3	1.1
Dec	25.8	6.6	16.2	63	1966	11	25.5	1996	-33+	1989	25	-1.9	1989	1511	0	.0	.0	.6	22.5	30.5	11.2
Ann	48.0	26.3	37.2	93	Jul 1953	19	65.6	Jul 1994	-44	Jan 1994	20	-1.9	Dec 1989	10154	46	.0	.2	181.7	98.3	206.3	57.4

+ 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

007-A

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: FIRST CONN LAKE, NH

COOP ID: 272999

Climate Division: NH 1

NWS Call Sign:

Elevation: 1,660 Feet Lat: 45°05N

Lon: 71°17W

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	3.06	2.74	2.05	1986	27	6.49	1998	.82	1981	19.3	7.8	1.4	.2	1.20	1.48	1.89	2.22	2.53	2.86	3.20	3.61	4.12	4.90	5.61
Feb	2.26	2.23	1.60	1955	12	4.22	1981	.65	1978	15.4	6.3	.8	.1	.96	1.17	1.45	1.69	1.91	2.13	2.37	2.64	2.99	3.52	4.00
Mar	2.95	3.01	1.69	1992	29	4.22	1972	1.28	1996	16.2	8.4	1.4	.3	1.65	1.88	2.19	2.42	2.64	2.86	3.08	3.34	3.66	4.13	4.54
Apr	3.12	2.88	1.35	1974	24	6.88	1974	.90	1986	13.9	8.3	1.8	.4	1.27	1.56	1.96	2.30	2.61	2.93	3.27	3.66	4.17	4.93	5.63
May	4.15	4.26	1.70	2000	7	7.83	2000	1.61	1980	14.7	9.4	2.9	.6	1.77	2.15	2.67	3.10	3.51	3.91	4.35	4.86	5.49	6.46	7.34
Jun	4.79	4.51	3.23	1990	21	8.87	1990	1.65	1995	15.0	10.3	3.4	.7	2.23	2.65	3.23	3.69	4.12	4.56	5.02	5.55	6.22	7.22	8.13
Jul	4.59	4.47	2.37	1990	24	9.12	1972	2.20	1986	14.5	9.4	3.4	.9	2.20	2.59	3.13	3.57	3.98	4.38	4.81	5.31	5.92	6.85	7.69
Aug	4.83	4.56	2.11	1988	15	11.38	1988	1.88	1987	14.4	9.5	3.3	1.2	2.27	2.69	3.27	3.73	4.17	4.60	5.07	5.59	6.26	7.26	8.16
Sep	4.20	3.65	2.83	1999	17	7.55	1999	1.79	1984	13.3	8.5	2.7	1.0	1.97	2.34	2.84	3.25	3.63	4.00	4.41	4.87	5.45	6.32	7.11
Oct	3.81	3.55	2.43	1991	7	9.36	1990	1.50	1994	14.9	8.7	2.1	.5	1.64	1.99	2.46	2.86	3.22	3.59	3.99	4.45	5.02	5.90	6.69
Nov	3.86	3.73	1.98	1990	11	7.55	1983	2.01	1978	17.8	10.0	2.0	.3	2.17	2.47	2.87	3.18	3.46	3.74	4.04	4.37	4.78	5.40	5.94
Dec	3.30	3.02	1.87	2000	18	7.65	1973	1.65	1989	19.9	9.1	1.5	.2	1.54	1.83	2.23	2.55	2.84	3.14	3.46	3.82	4.28	4.97	5.59
Ann	44.92	44.32	3.23	Jun 1990	21	11.38	Aug 1988	.65	Feb 1978	189.3	105.7	26.7	6.4	36.91	38.55	40.59	42.12	43.45	44.72	46.01	47.42	49.11	51.51	53.56

+ 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

Complete documentation available from:
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Station: FIRST CONN LAKE, NH

COOP ID: 272999

Climate Division: NH 1

NWS Call Sign:

Elevation: 1,660 Feet

Lat: 45°05N

Lon: 71°17W

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	34.8	36.7	17	17	16.0	1994	18	52.8	1978	35+	1979	31	26	1982	17.7	12.0	3.6	1.4	.1	30.4	29.2	28.2	24.5
Feb	26.1	24.8	24	24	14.0	1995	5	38.8	1993	42	1971	24	36	1979	13.9	9.9	2.9	1.1	.1	27.6	27.6	27.3	26.0
Mar	24.1	22.8	24	24	16.0	1992	29	43.7	1997	52	1971	8	44	1971	12.0	8.5	3.1	1.1	.2	30.0	30.0	29.9	27.6
Apr	10.3	9.8	11	11	10.5	1987	2	20.5	1983	41	1972	14	36	1972	5.8	4.0	1.2	.6	.1	17.6	16.3	15.5	10.5
May	.9	.0	1	0	4.0	1997	8	6.0	1997	24	1972	1	7	1972	.6	.4	.1	.0	.0	1.2	.9	.6	.3
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	.3	1980	27	.3	1980	#	1980	27	#	1980	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.9	1.0	#	#	6.0	1979	10	10.5	1979	6	1979	10	1+	2000	1.7	1.0	.1	@	.0	1.5	.2	.1	.0
Nov	15.6	15.1	2	2	11.0	1990	12	28.8	1980	17	1999	18	6+	1997	9.4	6.7	1.8	.5	.1	13.8	8.0	4.1	.5
Dec	30.6	30.1	9	8	14.0	1978	18	60.3	1995	31	1995	31	19	1995	16.3	12.2	3.6	1.3	.1	28.6	25.8	21.8	12.7
Ann	144.3	140.3	N/A	N/A	16.0+	Jan 1994	18	60.3	Dec 1995	52	Mar 1971	8	44	Mar 1971	77.4	54.7	16.4	6.0	.7	150.7	138.0	127.5	102.1

+ 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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Climate Division: NH 1

NWS Call Sign:

Elevation: 1,660 Feet

Lat: 45°05N

Lon: 71°17W

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	7/18	7/10	7/04	6/29	6/25	6/20	6/15	6/10	6/02
32	6/22	6/16	6/11	6/08	6/04	5/31	5/27	5/23	5/16
28	6/05	5/31	5/28	5/25	5/22	5/19	5/16	5/13	5/08
24	5/15	5/11	5/08	5/06	5/04	5/02	4/29	4/27	4/23
20	5/02	4/29	4/26	4/24	4/21	4/19	4/17	4/14	4/10
16	4/23	4/19	4/16	4/14	4/12	4/09	4/07	4/04	3/31
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	8/10	8/16	8/21	8/25	8/29	9/01	9/05	9/10	9/17
32	8/27	9/01	9/04	9/07	9/09	9/12	9/15	9/18	9/22
28	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/06	10/11
24	9/28	10/02	10/05	10/08	10/11	10/14	10/16	10/20	10/24
20	10/07	10/12	10/15	10/18	10/21	10/24	10/27	10/30	11/04
16	10/22	10/26	10/30	11/02	11/05	11/07	11/10	11/14	11/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	101	88	79	71	64	57	49	40	27
32	120	112	106	101	97	92	87	81	73
28	143	137	133	130	126	123	119	115	109
24	176	170	166	163	159	156	152	148	143
20	200	194	189	185	182	178	175	170	164
16	225	218	214	210	206	203	199	194	188

* 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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Climate Division: NH 1

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Elevation: 1,660 Feet Lat: 45°05N Lon: 71°17W

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	1733	1513	1346	901	515	218	100	148	382	733	1054	1511	10154
60	1578	1373	1191	751	364	100	23	52	239	578	904	1356	8509
57	1485	1289	1098	661	280	52	6	21	165	487	814	1263	7621
55	1423	1233	1036	601	229	31	1	9	123	427	754	1201	7068
50	1268	1093	881	455	124	5	0	1	49	286	604	1046	5812
32	713	594	357	78	2	0	0	0	0	14	130	521	2409

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	3	5	34	167	510	777	948	890	609	304	66	33	4346
55	0	0	0	0	24	117	236	187	42	4	0	0	610
57	0	0	0	0	13	79	179	136	24	2	0	0	433
60	0	0	0	0	5	37	103	75	8	0	0	0	228
65	0	0	0	0	0	5	25	16	0	0	0	0	46
70	0	0	0	0	0	0	2	1	0	0	0	0	3

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	6	57	295	546	704	645	371	129	25	1	0	0	6	63	358	904	1608	2253	2624	2753	2778	2779
45	0	0	1	20	176	400	549	491	237	65	7	0	0	0	1	21	197	597	1146	1637	1874	1939	1946	1946
50	0	0	0	8	94	264	397	338	137	24	2	0	0	0	0	8	102	366	763	1101	1238	1262	1264	1264
55	0	0	0	0	38	151	252	202	60	2	0	0	0	0	0	0	38	189	441	643	703	705	705	705
60	0	0	0	0	12	64	127	97	22	0	0	0	0	0	0	0	12	76	203	300	322	322	322	322
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	6	47	186	325	431	390	220	82	13	0	0	0	6	53	239	564	995	1385	1605	1687	1700	1700

(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.

- 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