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: CLAYTON LAKE, ME **COOP ID: 171472**

Climate Division: ME 1 **NWS Call Sign:** **Elevation: 1,000 Feet** **Lat: 46˚37N** **Lon: 69˚32W**

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	18.9	-6.1	6.4	53	1996	20	16.9	1990	-40	1994	26	-3.8	1994	1818	0	.0	.0	.2	25.6	30.7	18.6
Feb	22.5	-5.6	8.5	59	1994	21	18.8	1981	-43	1962	2	-2.9	1993	1585	0	.0	.0	.3	21.6	27.9	17.7
Mar	33.9	7.4	20.7	71	1962	31	27.8	2000	-35	2001	2	14.8	1972	1375	0	.0	.0	2.8	12.4	29.8	9.1
Apr	45.4	24.0	34.7	81	1990	28	40.8	1987	-7	1994	2	29.8	1975	909	0	.0	.0	10.5	1.6	25.4	.2
May	61.2	36.2	48.7	89	1992	23	56.0	1998	20+	1987	3	42.7	1974	507	1	.0	.1	28.1	.0	9.7	.0
Jun	71.2	45.8	58.5	91+	2001	17	63.2	1999	28+	2000	5	54.0	1986	202	7	.0	.4	29.9	.0	1.1	.0
Jul	75.1	50.4	62.8	92	1993	7	66.1	1995	34+	1992	16	57.8	1992	98	29	.0	.4	31.0	.0	.0	.0
Aug	73.6	47.9	60.8	90	1998	8	64.5	1973	29	1985	30	57.0	1982	147	15	.0	@	30.7	.0	.2	.0
Sep	63.9	39.4	51.7	90+	1999	6	59.8	1999	21+	2000	30	48.0	1978	401	1	.0	.1	27.8	.0	7.1	.0
Oct	50.6	29.4	40.0	77	1995	3	45.3	1995	14	1992	31	35.0	1974	776	0	.0	.0	17.4	.2	18.9	.0
Nov	36.9	19.6	28.3	64+	1996	10	33.6	1999	-16	1995	30	22.8	1986	1102	0	.0	.0	3.1	9.0	25.6	.9
Dec	24.7	2.9	13.8	58	2001	7	23.9	1996	-34	1989	30	-1.5	1989	1587	0	.0	.0	.3	22.8	30.3	11.9
Ann	48.2	24.3	36.2	92	Jul 1993	7	66.1	Jul 1995	-43	Feb 1962	2	-3.8	Jan 1994	10507	53	.0	1.0	182.1	93.2	206.7	58.4

\+ 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/normals/usnormals.html

(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

Issue Date: February 2004

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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	2.78	2.61	2.26	1987	23	6.22	1979	.69	1985
Feb	2.12	2.14	1.33	2000	15	4.92	1981	.19	1987
Mar	2.16	2.12	1.10	1990	21	5.38	1991	.57	1988
Apr	2.62	2.40	1.93	2000	24	5.33	2000	1.07	1985
May	2.92	2.79	1.79	1997	17	6.20	1984	.87	1987
Jun	3.86	4.10	1.83	1993	23	6.22	1972	1.25	1991
Jul	3.86	3.82	2.25+	2001	24	6.50	1998	1.58	1987
Aug	3.16	2.81	3.50	1990	14	7.44	1990	1.48	1985
Sep	3.43	2.99	3.62	1996	15	8.59	1999	1.42	1984
Oct	3.35	3.20	2.05	1995	29	7.49	1990	1.16	1994
Nov	2.85	2.70	1.80	1962	11	6.16	1983	1.42	1992
Dec	2.42	2.06	1.70	2000	18	5.63	2000	.51	1988
Ann	35.53	36.04	3.62	Sep 1996	15	8.59	Sep 1999	.19	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.2	6.8	1.6	.3
Feb	10.8	5.2	.8	.1
Mar	12.0	6.1	1.3	.1
Apr	12.1	7.3	1.4	.2
May	13.8	8.0	1.6	.3
Jun	13.6	8.5	2.0	.4
Jul	15.4	8.1	1.7	.6
Aug	13.8	7.6	1.6	.6
Sep	13.2	7.1	1.9	.5
Oct	14.2	7.2	1.9	.6
Nov	13.2	6.9	1.5	.2
Dec	12.7	6.6	1.8	.3
Ann	158.0	85.4	19.1	4.2

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	.96	1.22	1.60	1.92	2.23	2.55	2.90	3.31	3.83	4.63	5.37
Feb	.56	.76	1.06	1.33	1.60	1.88	2.19	2.55	3.03	3.79	4.49
Mar	.93	1.13	1.40	1.62	1.83	2.04	2.27	2.53	2.86	3.36	3.81
Apr	1.08	1.32	1.66	1.94	2.20	2.46	2.74	3.07	3.49	4.12	4.69
May	.89	1.17	1.58	1.94	2.28	2.64	3.03	3.50	4.09	5.03	5.89
Jun	1.63	1.98	2.47	2.87	3.25	3.63	4.05	4.52	5.12	6.04	6.86
Jul	1.87	2.20	2.66	3.02	3.35	3.69	4.04	4.45	4.96	5.73	6.41
Aug	1.45	1.73	2.11	2.43	2.71	3.01	3.32	3.67	4.12	4.80	5.41
Sep	1.47	1.78	2.21	2.57	2.90	3.24	3.60	4.02	4.54	5.34	6.07
Oct	1.28	1.59	2.04	2.41	2.76	3.12	3.50	3.95	4.52	5.40	6.20
Nov	1.35	1.59	1.93	2.21	2.46	2.72	2.99	3.30	3.68	4.27	4.80
Dec	.76	.99	1.33	1.62	1.91	2.20	2.52	2.90	3.38	4.14	4.84
Ann	27.67	29.25	31.23	32.72	34.03	35.28	36.57	37.97	39.67	42.10	44.17

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	21.1	22.5	15	14
Feb	18.4	18.2	21	18
Mar	13.2	13.0	17	15
Apr	8.2	7.3	2	#
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	2.0	#	#	0
Nov	3.1	-99.9	1	1
Dec	13.9	14.7	6	3
Ann	79.9	-9.9	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	16.8	1987	23	39.1	1987	34	1987	31	30	1996
Feb	14.0	2000	15	30.2	2000	49	2000	18	39	2000
Mar	16.2	1993	14	23.7	1993	45	1997	15	42	1997
Apr	10.0	1996	11	16.5	1994	26	1993	3	6	1994
May	#	1992	7	#	1992	1	1986	5	#	1986
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1997	25	#	1997	0	0	0	0	0
Oct	10.0	1997	28	13.7	1997	13	2000	30	2	2000
Nov	13.0	1993	2	15.5	1998	24	1986	22	5	1986
Dec	12.0	1987	16	20.6	1987	22	1989	31	19	1989
Ann	16.8	Jan 1987	23	39.1	Jan 1987	49	Feb 2000	18	42	Mar 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.1	6.5	3.2	1.9	.4
Feb	7.1	5.5	2.8	1.1	.2
Mar	5.1	4.5	1.9	.8	.1
Apr	2.7	2.1	1.0	.5	.1
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.7	.6	.3	.3	.1
Nov	3.4	2.8	.9	.5	.1
Dec	5.6	4.4	1.9	1.0	.1
Ann	31.7	26.4	12.0	6.1	1.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.7	.6	.4	.2
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-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	6/24	6/20	6/16	6/13	6/10	6/06	6/02	5/28
32	6/14	6/09	6/06	6/03	5/31	5/28	5/25	5/22	5/17
28	5/30	5/26	5/22	5/20	5/17	5/15	5/12	5/09	5/04
24	5/16	5/11	5/08	5/05	5/03	4/30	4/27	4/24	4/19
20	4/29	4/25	4/22	4/20	4/18	4/16	4/13	4/11	4/07
16	4/20	4/17	4/14	4/12	4/10	4/07	4/05	4/03	3/30

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	8/14	8/19	8/22	8/25	8/27	8/30	9/01	9/04	9/09
32	8/30	9/02	9/04	9/06	9/08	9/10	9/12	9/15	9/18
28	9/07	9/12	9/16	9/19	9/22	9/25	9/28	10/02	10/07
24	9/23	9/27	10/01	10/03	10/06	10/09	10/12	10/15	10/20
20	10/12	10/18	10/21	10/25	10/28	10/31	11/03	11/07	11/12
16	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/19	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	98	90	84	79	74	70	65	59	51
32	119	112	108	103	100	96	92	87	80
28	142	137	133	130	127	124	121	118	113
24	173	167	163	159	156	152	148	144	138
20	211	205	200	196	192	188	184	180	173
16	231	225	220	217	213	209	205	201	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

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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	1818	1585	1375	909	507	202	98	147	401	776	1102	1587	10507
60	1663	1445	1220	759	360	90	24	51	259	621	952	1432	8876
57	1570	1361	1127	669	278	46	7	20	184	528	862	1339	7991
55	1508	1305	1065	609	229	27	2	9	141	466	802	1277	7440
50	1353	1165	910	461	127	5	0	1	60	318	652	1122	6174
32	795	661	370	60	2	0	0	0	0	12	157	581	2638

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	19	140	519	796	954	891	590	259	45	17	4230
55	0	0	0	0	34	133	243	187	41	1	0	0	639
57	0	0	0	0	21	92	186	136	24	0	0	0	459
60	0	0	0	0	9	45	110	74	9	0	0	0	247
65	0	0	0	0	1	7	29	15	1	0	0	0	53
70	0	0	0	0	0	0	3	1	0	0	0	0	4

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	7	44	327	610	766	630	340	121	17	0	0	0	7	51	378	988	1754	2384	2724	2845	2862	2862
45	0	0	0	13	197	461	611	475	211	56	5	0	0	0	0	13	210	671	1282	1757	1968	2024	2029	2029
50	0	0	0	5	104	315	456	324	109	17	1	0	0	0	0	5	109	424	880	1204	1313	1330	1331	1331
55	0	0	0	0	48	189	305	191	47	3	0	0	0	0	0	0	48	237	542	733	780	783	783	783
60	0	0	0	0	16	93	172	89	15	0	0	0	0	0	0	0	16	109	281	370	385	385	385	385
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	8	42	219	379	479	366	200	76	6	0	0	0	8	50	269	648	1127	1493	1693	1769	1775	1775

(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.
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