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: LEWISTON, ME **COOP ID: 174566**

Climate Division: ME 2 **NWS Call Sign:** **Elevation: 180 Feet** **Lat: 44˚06N** **Lon: 70˚13W**

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	29.4	11.5	20.5	64	1950	4	28.5	1990	-28	1994	20	11.9	1994	1380	0	.0	.0	.9	18.7	30.1	6.2
Feb	33.0	14.4	23.7	65	1981	18	32.8	1981	-26+	1962	2	16.0	1993	1155	0	.0	.0	1.1	14.0	26.8	3.4
Mar	41.9	24.5	33.2	85	1998	31	38.3	1977	-12	1934	1	27.3	1984	986	0	.0	.0	6.3	5.3	25.1	.5
Apr	53.8	35.0	44.4	91	1990	27	48.2	1986	12	1954	4	40.5	1972	619	0	.0	@	18.4	.3	10.8	.0
May	66.8	45.9	56.4	96+	1992	22	61.5	1998	26	1966	5	51.4	1974	279	10	.0	.6	30.0	.0	.4	.0
Jun	76.0	55.3	65.7	99	1944	29	70.0	1976	37	1927	3	61.2	1982	58	77	.0	1.8	30.0	.0	.0	.0
Jul	81.5	61.2	71.4	100	1995	14	74.7	1994	45+	1965	7	66.2	2000	6	204	@	3.4	31.0	.0	.0	.0
Aug	79.5	59.9	69.7	100	1975	2	73.1	1973	37	1965	31	66.6	1982	12	157	@	2.2	31.0	.0	.0	.0
Sep	70.2	51.4	60.8	97	1937	3	65.2	1999	30+	1965	28	58.4	1986	144	17	.0	.4	29.9	.0	.1	.0
Oct	58.4	40.3	49.4	90	1930	13	54.6	1971	20	1936	28	45.0	1974	485	0	.0	.0	26.1	.0	4.7	.0
Nov	45.6	31.4	38.5	74+	1990	4	43.5	1979	4+	1989	24	34.9	1986	795	0	.0	.0	9.8	2.1	17.2	.0
Dec	34.3	19.1	26.7	67+	2001	6	33.1	1996	-22+	1933	30	13.7	1989	1188	0	.0	.0	1.7	13.1	28.3	1.5
Ann	55.9	37.5	46.7	100+	Jul 1995	14	74.7	Jul 1994	-28	Jan 1994	20	11.9	Jan 1994	7107	465	.0	8.4	216.2	53.5	143.5	11.6

\+ 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: 1926-2001

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

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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	3.90	3.84	2.49	1940	15	10.36	1979	.52	1980
Feb	3.00	3.00	2.81	1965	25	5.60	1971	.11	1987
Mar	4.52	4.30	4.20	1977	14	11.97	1983	1.16	1988
Apr	4.11	3.88	3.97	1996	17	7.11	1973	.48	1999
May	3.80	3.57	3.69	1989	11	11.41	1984	.65	1993
Jun	3.82	3.39	5.97	1998	13	11.09	1998	.68	1979
Jul	3.63	3.65	4.10	1996	14	7.30	1996	.53	1989
Aug	3.06	2.79	5.26	1991	20	10.81	1991	.41	1996
Sep	3.48	3.36	6.48	1999	16	13.22	1999	.56	1978
Oct	4.08	3.73	4.42	1998	10	8.17	1998	.75	1994
Nov	4.27	3.96	3.37	1988	1	11.60	1983	1.16	1976
Dec	4.12	3.45	3.40	1973	17	12.58	1973	1.17	1980
Ann	45.79	44.54	6.48	Sep 1999	16	13.22	Sep 1999	.11	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.4	3.1	1.0
Feb	9.2	5.8	2.1	.8
Mar	11.9	7.6	3.3	1.1
Apr	11.7	7.2	2.7	.8
May	12.1	7.4	2.9	.8
Jun	11.6	7.1	2.4	.7
Jul	9.9	6.7	2.4	.9
Aug	9.9	5.9	2.0	.6
Sep	9.4	5.7	2.2	.9
Oct	9.9	6.5	2.6	1.1
Nov	11.1	7.2	3.2	1.3
Dec	11.6	7.5	2.7	1.1
Ann	129.4	82.0	31.6	11.1

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	1.11	1.48	2.04	2.52	3.00	3.49	4.04	4.69	5.53	6.84	8.07
Feb	.83	1.12	1.55	1.93	2.30	2.68	3.11	3.61	4.27	5.30	6.27
Mar	1.71	2.13	2.74	3.24	3.71	4.20	4.73	5.34	6.11	7.31	8.40
Apr	1.42	1.81	2.37	2.85	3.31	3.78	4.29	4.89	5.66	6.85	7.94
May	.80	1.14	1.70	2.21	2.72	3.27	3.88	4.62	5.60	7.16	8.63
Jun	.99	1.35	1.90	2.39	2.87	3.38	3.94	4.61	5.48	6.86	8.15
Jul	1.20	1.54	2.05	2.48	2.89	3.32	3.78	4.33	5.03	6.12	7.12
Aug	.84	1.13	1.57	1.96	2.33	2.73	3.17	3.68	4.36	5.41	6.40
Sep	.84	1.16	1.67	2.12	2.57	3.05	3.58	4.22	5.05	6.36	7.60
Oct	1.25	1.64	2.21	2.71	3.19	3.69	4.25	4.89	5.73	7.03	8.24
Nov	1.76	2.15	2.70	3.15	3.58	4.01	4.47	5.01	5.69	6.72	7.67
Dec	1.00	1.39	1.99	2.52	3.06	3.62	4.24	4.99	5.97	7.52	8.97
Ann	33.78	36.14	39.14	41.41	43.41	45.34	47.33	49.52	52.17	55.99	59.29

\+ 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: 1926-2001
(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	19.7	14.5	7	6
Feb	14.2	9.7	8	6
Mar	12.7	11.9	4	2
Apr	3.6	2.2	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.1	.0	#	0
Nov	3.2	1.2	#	#
Dec	15.2	13.0	3	1
Ann	68.7	52.5	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	15.0	1987	2	52.0	1987	27	1987	23	17	1987
Feb	16.0	1995	5	45.6	1993	26+	1994	14	22	1987
Mar	17.0	1993	14	39.0	1993	27	1993	14	18	1993
Apr	13.5	1982	7	26.3	1982	5	1996	10	1	1993
May	#	1986	3	#	1986	0	0	0	0	0
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	#	1992	30	#	1992	0	0	0	0	0
Oct	1.1	1979	10	1.3	1979	#+	2000	29	#+	2000
Nov	9.8	1980	18	12.9	1997	10	1980	18	2	1997
Dec	10.3	1978	25	35.8	1972	23	1995	21	11	1995
Ann	17.0	Mar 1993	14	52.0	Jan 1987	27+	Mar 1993	14	22	Feb 1987

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.4	5.0	2.5	1.3	.2
Feb	5.8	3.6	1.4	.9	.2
Mar	5.2	3.3	1.6	1.0	.1
Apr	1.3	1.0	.4	.3	.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	.1	@	.0	.0	.0
Nov	2.0	1.0	.4	.1	.0
Dec	6.2	4.3	2.0	1.0	@
Ann	28.0	18.2	8.3	4.6	.6

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	8.9	5.3	3.7	2.2
Apr	.6	.3	.1	.0
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	.0	.0	.0	.0
Nov	2.7	1.3	.1	@
Dec	11.8	6.3	3.3	.1
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	5/20	5/16	5/13	5/11	5/08	5/06	5/04	5/01	4/27
32	5/07	5/03	4/30	4/28	4/26	4/24	4/22	4/19	4/15
28	4/24	4/21	4/18	4/16	4/14	4/11	4/09	4/06	4/03
24	4/14	4/10	4/07	4/05	4/03	4/01	3/29	3/27	3/23
20	4/06	4/02	3/30	3/27	3/24	3/22	3/19	3/16	3/11
16	4/01	3/28	3/25	3/22	3/20	3/17	3/14	3/11	3/07

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	9/24	9/27	9/30	10/02	10/04	10/05	10/07	10/10	10/13
32	10/01	10/06	10/09	10/12	10/14	10/17	10/19	10/22	10/27
28	10/12	10/18	10/22	10/25	10/29	11/01	11/04	11/09	11/14
24	10/31	11/05	11/08	11/11	11/13	11/16	11/19	11/22	11/27
20	11/10	11/15	11/18	11/21	11/24	11/26	11/29	12/02	12/07
16	11/20	11/24	11/28	11/30	12/03	12/05	12/08	12/11	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	162	157	153	150	147	145	142	138	133
32	188	182	177	174	170	167	163	159	153
28	216	210	205	201	197	193	189	185	178
24	243	237	232	228	224	220	216	211	204
20	265	258	252	248	243	239	235	229	222
16	276	270	265	261	257	254	250	245	238

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1380	1155	986	619	279	58	6	12	144	485	795	1188	7107
60	1225	1015	831	469	155	14	0	0	53	335	645	1033	5775
57	1132	931	738	380	98	4	0	0	24	251	555	940	5053
55	1070	875	676	321	68	2	0	0	12	200	495	878	4597
50	915	735	521	187	20	0	0	0	2	98	347	723	3548
32	382	261	80	1	0	0	0	0	0	0	21	239	984

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	24	29	116	372	754	1009	1220	1168	863	538	216	74	6383
55	0	0	0	3	108	320	507	455	185	25	0	0	1603
57	0	0	0	1	76	263	445	393	137	13	0	0	1328
60	0	0	0	0	41	182	352	300	76	5	0	0	956
65	0	0	0	0	10	77	204	157	17	0	0	0	465
70	0	0	0	0	1	19	85	56	1	0	0	0	162

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	3	31	166	508	770	975	924	631	302	76	5	0	3	34	200	708	1478	2453	3377	4008	4310	4386	4391
45	0	0	8	78	355	620	820	769	481	173	31	1	0	0	8	86	441	1061	1881	2650	3131	3304	3335	3336
50	0	0	4	29	215	470	665	614	337	85	7	0	0	0	4	33	248	718	1383	1997	2334	2419	2426	2426
55	0	0	0	12	105	325	510	459	197	31	1	0	0	0	0	12	117	442	952	1411	1608	1639	1640	1640
60	0	0	0	0	46	189	355	306	100	7	0	0	0	0	0	0	46	235	590	896	996	1003	1003	1003
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	20	92	278	479	652	607	367	155	36	2	0	0	20	112	390	869	1521	2128	2495	2650	2686	2688

(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