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: JACKMAN, ME **COOP ID: 174086**

Climate Division: ME 1 **NWS Call Sign:** **Elevation: 1,190 Feet** **Lat: 45˚38N** **Lon: 70˚16W**

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	21.3	-.8	10.3	58+	1995	17	19.9	1990	-38	1972	1	.7	1994	1699	0	.0	.0	.4	25.0	30.9	18.4
Feb	25.2	1.0	13.1	59+	2000	28	24.4	1981	-44+	1993	7	2.1	1993	1453	0	.0	.0	.4	20.6	28.1	16.0
Mar	35.1	11.9	23.5	70	1993	28	31.4	1977	-30+	1989	8	16.3	1984	1286	0	.0	.0	3.2	11.9	30.1	8.1
Apr	46.9	26.8	36.9	80	1990	28	42.6	1986	-9	1964	2	31.1	1975	846	0	.0	.0	11.0	1.7	25.5	.2
May	62.2	38.0	50.1	97	1977	24	56.2	1998	14	1987	3	43.7	1974	464	2	.0	.1	27.1	@	10.1	.0
Jun	71.6	48.1	59.9	92	1994	17	64.9	1999	28+	1990	6	57.1	1980	166	12	.0	.1	29.8	.0	.7	.0
Jul	76.2	53.0	64.6	95+	1993	7	68.5	1994	30	1989	21	60.1	1992	68	56	.0	.6	31.0	.0	@	.0
Aug	74.7	50.8	62.8	97	1975	3	66.5	1973	30	1965	31	58.8	1972	108	37	.0	.1	31.0	.0	.0	.0
Sep	65.5	42.2	53.9	91	1999	4	60.8	1999	20	1980	29	49.5	1978	336	2	.0	@	29.5	.0	5.1	.0
Oct	52.6	32.2	42.4	82	1984	12	48.3	1995	11	1972	21	36.7	1974	700	0	.0	.0	19.3	.1	18.2	.0
Nov	39.4	23.6	31.5	67+	2001	3	37.0	1979	-15	1989	24	27.1	1976	1006	0	.0	.0	5.4	7.5	26.1	.6
Dec	26.5	8.3	17.4	64	1966	11	25.1	1998	-33+	1989	31	2.0	1989	1476	0	.0	.0	.5	21.4	30.6	10.7
Ann	49.8	27.9	38.9	97+	May 1977	24	68.5	Jul 1994	-44+	Feb 1993	7	.7	Jan 1994	9608	109	.0	.9	188.6	88.2	205.4	54.0

\+ 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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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	2.84	2.82	1.82	1966	31	5.75	1979	.73+	1981
Feb	2.10	1.98	1.60	1951	13	4.14	1971	.36	1987
Mar	2.58	2.59	1.38	1993	14	4.30	1991	.76	1988
Apr	3.06	2.47	2.97	1983	18	6.45	1983	.96	1986
May	3.35	3.13	2.14	1984	30	6.66	1984	.78	1992
Jun	3.97	3.84	1.87	1993	22	8.52	1998	2.02	1971
Jul	4.19	4.17	3.93	1998	5	8.74	1998	1.14	1979
Aug	3.81	3.42	3.90	1988	15	9.61	1988	1.19	1987
Sep	3.77	3.53	3.14	1996	15	7.86	1999	1.27	1984
Oct	3.29	2.88	2.73	1991	7	9.92	1990	.81	1982
Nov	3.37	2.86	3.00	1983	26	8.34	1983	1.00	1996
Dec	2.97	2.88	2.80	1952	24	6.65	1973	1.01	1988
Ann	39.30	39.44	3.93	Jul 1998	5	9.92	Oct 1990	.36	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	6.8	1.7	.4
Feb	9.4	5.1	1.2	.2
Mar	11.4	7.1	1.5	.2
Apr	11.0	7.3	1.8	.4
May	12.3	8.0	2.1	.5
Jun	12.5	8.9	2.6	.7
Jul	12.3	9.0	2.8	.8
Aug	11.5	7.9	2.3	.7
Sep	11.7	8.1	2.4	.7
Oct	11.9	7.5	2.3	.5
Nov	12.5	7.5	2.0	.5
Dec	13.5	7.7	1.7	.2
Ann	142.2	90.9	24.4	5.8

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	.92	1.19	1.59	1.93	2.25	2.59	2.96	3.39	3.94	4.81	5.60
Feb	.62	.82	1.12	1.38	1.63	1.89	2.18	2.52	2.96	3.64	4.28
Mar	1.30	1.51	1.81	2.04	2.26	2.48	2.71	2.97	3.29	3.78	4.22
Apr	1.04	1.33	1.75	2.11	2.45	2.81	3.20	3.65	4.23	5.12	5.95
May	.97	1.29	1.77	2.18	2.59	3.01	3.48	4.03	4.74	5.86	6.89
Jun	1.83	2.18	2.66	3.05	3.41	3.78	4.16	4.61	5.16	6.01	6.77
Jul	1.46	1.86	2.43	2.92	3.38	3.86	4.38	4.99	5.76	6.96	8.07
Aug	1.37	1.73	2.25	2.68	3.10	3.52	3.98	4.52	5.21	6.27	7.25
Sep	1.63	1.97	2.44	2.83	3.19	3.56	3.96	4.41	4.98	5.85	6.64
Oct	1.03	1.35	1.81	2.21	2.59	2.99	3.42	3.93	4.59	5.62	6.57
Nov	1.21	1.53	1.99	2.37	2.74	3.11	3.52	4.00	4.60	5.54	6.40
Dec	1.26	1.53	1.90	2.21	2.50	2.80	3.11	3.48	3.94	4.64	5.27
Ann	30.58	32.33	34.53	36.19	37.64	39.04	40.47	42.03	43.92	46.62	48.94

\+ 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	27.4	27.5	17	17
Feb	19.8	19.5	23	25
Mar	19.9	18.8	18	18
Apr	9.2	5.0	3	2
May	.2	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	#	0
Oct	1.7	.0	#	#
Nov	10.6	10.0	2	1
Dec	24.5	19.0	9	7
Ann	113.3	99.8	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	18.0	1986	4	47.4	1978	52	1987	31	37	1982
Feb	18.0	1995	5	38.5	1972	53	2000	19	39	1990
Mar	20.0	1993	14	40.0	1993	75	1993	16	46	1993
Apr	16.0	1971	8	23.0	1972	34	1978	2	19	1978
May	2.0	1986	5	2.0	1986	2	1986	5	#+	2000
Jun	#	1980	9	#	1980	#	1980	9	#	1980
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1980	27	#	1980	#	1980	27	#	1980
Oct	6.0	2000	10	19.0	2000	12	2000	30	1+	2000
Nov	12.0	1987	26	23.0	1986	20	1986	23	5	1986
Dec	14.5	1978	18	69.0	1972	56	1995	22	31	1995
Ann	20.0	Mar 1993	14	69.0	Dec 1972	75	Mar 1993	16	46	Mar 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	8.6	6.9	3.6	2.0	.4
Feb	7.0	5.4	2.7	1.5	.2
Mar	6.3	5.5	2.4	1.2	.2
Apr	3.0	2.6	1.2	.7	.2
May	.2	.1	.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	.6	.5	.3	.1	.0
Nov	4.2	3.4	1.4	.6	.1
Dec	8.4	6.8	3.1	1.6	.3
Ann	38.3	31.2	14.7	7.7	1.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	29.4	28.6	27.6	21.4
Feb	26.7	25.4	24.0	20.7
Mar	28.4	25.4	22.2	19.8
Apr	11.1	7.8	6.0	3.0
May	.3	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.9	.3	.1	@
Nov	9.0	5.4	3.4	.8
Dec	24.4	20.5	15.2	9.4
Ann	130.2	113.4	98.5	75.1

+ 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

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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	7/02	6/25	6/20	6/16	6/12	6/08	6/03	5/29	5/22
32	6/17	6/11	6/07	6/03	5/31	5/27	5/24	5/19	5/13
28	5/30	5/25	5/22	5/19	5/16	5/13	5/10	5/07	5/02
24	5/10	5/07	5/04	5/02	4/30	4/28	4/26	4/23	4/19
20	4/30	4/26	4/23	4/21	4/18	4/16	4/14	4/11	4/07
16	4/24	4/19	4/16	4/13	4/11	4/08	4/05	4/02	3/29

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	8/19	8/24	8/27	8/30	9/02	9/05	9/08	9/12	9/17
32	9/05	9/09	9/12	9/15	9/17	9/20	9/22	9/25	9/30
28	9/15	9/20	9/23	9/26	9/29	10/01	10/04	10/08	10/12
24	10/01	10/06	10/09	10/12	10/15	10/17	10/20	10/23	10/28
20	10/09	10/14	10/18	10/21	10/25	10/28	10/31	11/04	11/09
16	10/21	10/27	11/01	11/05	11/09	11/12	11/16	11/21	11/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	110	100	93	87	82	76	70	63	53
32	133	124	119	113	109	104	99	93	85
28	154	147	143	139	135	131	127	123	116
24	187	180	175	171	167	163	159	154	148
20	210	202	197	193	189	184	180	175	167
16	237	228	222	216	211	206	201	194	186

***** 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	1699	1453	1286	846	464	166	68	108	336	700	1006	1476	9608
60	1544	1313	1131	696	319	66	12	33	201	545	856	1321	8037
57	1451	1229	1038	606	242	31	3	12	134	454	766	1228	7194
55	1389	1173	976	546	196	17	0	5	97	395	706	1166	6666
50	1234	1033	821	399	103	3	0	0	36	256	556	1011	5452
32	678	534	308	42	0	0	0	0	0	8	99	485	2154

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1	5	45	187	562	836	1011	952	656	331	83	31	4700
55	0	0	0	0	44	162	298	244	62	5	0	0	815
57	0	0	0	0	28	117	239	189	39	2	0	0	614
60	0	0	0	0	13	61	155	117	16	0	0	0	362
65	0	0	0	0	2	12	56	37	2	0	0	0	109
70	0	0	0	0	0	0	9	5	0	0	0	0	14

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	49	310	590	758	700	408	133	23	0	0	0	6	55	365	955	1713	2413	2821	2954	2977	2977
45	0	0	1	16	186	443	603	545	266	59	5	0	0	0	1	17	203	646	1249	1794	2060	2119	2124	2124
50	0	0	0	5	96	299	448	391	146	20	0	0	0	0	0	5	101	400	848	1239	1385	1405	1405	1405
55	0	0	0	0	42	169	295	244	69	4	0	0	0	0	0	0	42	211	506	750	819	823	823	823
60	0	0	0	0	13	79	160	124	26	0	0	0	0	0	0	0	13	92	252	376	402	402	402	402
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	8	49	211	359	470	432	252	92	14	0	0	0	8	57	268	627	1097	1529	1781	1873	1887	1887

(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