

Climatology of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: CARIBOU MUNICIPAL AP, ME

1971-2000

COOP ID: 171175

Climate Division: ME 1

NWS Call Sign: CAR

Elevation: 624 Feet

Lat: 46° 52N

Lon: 68° 02W

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	19.3	-.3	9.5	53	1995	15	17.3	1990	-33	1995	11	-.7	1994	1719	0	.0	.0	.2	25.7	30.5	16.9
Feb	23.2	2.9	13.0	59	1994	20	26.9	1981	-41	1955	1	4.2	1993	1466	0	.0	.0	.3	21.9	27.6	12.8
Mar	34.1	15.2	24.6	73	1962	30	31.7	1977	-28	2001	2	18.4	1972	1254	0	.0	.0	1.8	12.5	28.6	4.5
Apr	47.0	29.2	38.1	86	1990	27	43.9	1987	-2	1964	2	34.3	1995	805	0	.0	.0	11.2	1.7	20.6	.0
May	62.6	40.7	51.6	96	1977	22	57.2	1999	18	1974	2	45.4	1974	417	7	.0	.2	27.7	.0	4.1	.0
Jun	71.8	49.9	60.8	96	1944	29	64.1	1976	30	1958	7	56.9	1986	159	39	.0	.4	30.0	.0	@	.0
Jul	76.3	54.8	65.6	95+	1991	20	69.1	1995	36	1969	7	60.3	1992	58	80	.0	.8	31.0	.0	.0	.0
Aug	74.2	52.6	63.4	95+	1975	2	66.6	1990	34+	1982	30	58.2	1982	103	56	.0	.4	31.0	.0	.0	.0
Sep	64.1	43.6	53.8	91	1945	7	61.7	1999	23+	1980	29	50.1	1978	344	9	.0	@	29.2	.0	2.3	.0
Oct	51.4	34.1	42.8	79+	1968	18	47.8	1995	14+	1972	19	38.7	1972	691	0	.0	.0	17.4	.3	14.3	.0
Nov	37.4	23.7	30.6	68	1956	1	35.5	1979	-8	1995	30	26.0	1976	1039	0	.0	.0	3.3	9.8	25.0	.2
Dec	24.8	8.0	16.4	58+	1950	12	26.2	1996	-31	1989	30	3.5	1989	1505	0	.0	.0	.3	22.5	30.4	9.9
Ann	48.9	29.5	39.2	96+	May 1977	22	69.1	Jul 1995	-41	Feb 1955	1	-.7	Jan 1994	9560	191	.0	1.8	183.4	94.4	183.4	44.3

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1939-2001

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

007-A

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COOP ID: 171175

Climate Division: ME 1

NWS Call Sign: CAR

Elevation: 624 Feet Lat: 46°52N

Lon: 68°02W

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	2.97	2.87	1.58	1995	16	5.60	1995	.99	1985	15.4	6.8	1.9	.4	1.27	1.54	1.91	2.22	2.51	2.80	3.12	3.48	3.93	4.63	5.26
Feb	2.06	2.20	1.92	2000	14	3.43	1976	.26	1978	11.5	5.3	1.3	.1	.66	.86	1.15	1.40	1.63	1.88	2.15	2.47	2.87	3.50	4.09
Mar	2.57	2.46	1.66	1984	14	4.72	1972	1.16	1990	13.3	6.7	1.4	.2	1.20	1.43	1.73	1.98	2.21	2.44	2.69	2.97	3.33	3.86	4.34
Apr	2.64	2.29	1.93	1940	13	5.26	1973	1.09	1972	13.3	7.2	1.2	.1	1.25	1.48	1.79	2.05	2.28	2.52	2.77	3.06	3.42	3.97	4.46
May	3.28	3.52	2.15	1948	18	5.72	1984	.47	1982	13.8	8.0	2.3	.4	1.13	1.44	1.89	2.27	2.64	3.01	3.42	3.90	4.51	5.45	6.32
Jun	3.31	3.14	2.37	1942	15	6.44	1977	.88	1983	13.4	7.8	2.3	.4	1.39	1.69	2.11	2.46	2.78	3.11	3.47	3.87	4.39	5.17	5.88
Jul	3.89	4.21	2.42	1982	22	6.74	1976	.96	1991	13.6	8.2	2.6	.8	1.63	1.98	2.48	2.89	3.27	3.66	4.07	4.55	5.16	6.09	6.93
Aug	4.15	3.78	6.67	1981	17	12.09	1981	1.39	1975	13.3	8.1	2.5	.8	1.37	1.76	2.34	2.83	3.31	3.79	4.33	4.95	5.76	7.00	8.15
Sep	3.27	3.19	6.21	1954	11	8.81	1999	1.51	1992	12.4	6.8	2.1	.5	1.47	1.76	2.16	2.49	2.79	3.10	3.42	3.80	4.27	4.99	5.64
Oct	2.99	2.37	4.05	1970	3	8.73	1990	.88	1994	13.0	7.1	1.7	.4	.81	1.09	1.52	1.90	2.27	2.66	3.10	3.61	4.28	5.33	6.31
Nov	3.12	2.83	2.11	1983	25	8.15	1983	1.49	1996	14.2	7.4	1.8	.4	1.32	1.60	2.00	2.32	2.63	2.94	3.27	3.65	4.14	4.88	5.54
Dec	3.19	2.91	2.76	1973	17	7.97	1973	1.00	1988	14.9	7.9	1.9	.3	1.26	1.56	1.97	2.32	2.65	2.98	3.34	3.76	4.28	5.09	5.83
Ann	37.44	36.15	6.67	Aug 1981	17	12.09	Aug 1981	.26	Feb 1978	162.1	87.3	23.0	4.8	28.78	30.51	32.69	34.33	35.77	37.16	38.58	40.14	42.02	44.71	47.03

+ 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: 1939-2001

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Climate Division: ME 1

NWS Call Sign: CAR

Elevation: 624 Feet

Lat: 46°52N

Lon: 68°02W

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	26.7	27.9	17	16	15.1	1999	9	44.5	1994	57+	1977	30	36	1998	14.8	6.0	3.2	1.6	.4	30.4	29.7	27.8	22.6
Feb	20.7	20.3	20	20	18.3	2000	14	40.9	1995	62+	1977	23	55	1977	10.7	5.1	2.2	1.2	.2	28.0	27.7	27.3	24.4
Mar	20.0	18.2	17	18	28.6	1984	14	41.4	1972	51	1977	6	32	1977	10.3	5.1	2.1	1.0	.3	29.9	28.4	27.4	23.2
Apr	9.8	9.4	3	5	21.1	1982	7	36.4	1982	42	1982	8	14	1982	5.9	2.8	1.0	.3	@	13.4	10.1	8.4	4.1
May	.6	.0	#	0	5.6	1996	12	5.7	1996	3	1996	12	#	2000	.5	.1	.1	@	.0	.2	@	.0	.0
Jun	#	.0	#	0	#	2000	11	#+	2000	0	0	0	#	1996	.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	#	1992	23	#	1992	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.1	.0	#	0	2.1	1991	29	2.5	1991	1	1991	30	#	1991	.1	.0	.0	.0	.0	@	.0	.0	.0
Oct	1.1	.2	#	0	8.4	2000	29	10.3	2000	7+	2000	30	1	1997	1.2	.3	.1	.1	.0	.6	.2	.2	.0
Nov	11.7	10.3	1	1	20.9	1986	21	34.9	1974	28	1974	27	5+	1986	7.5	2.8	1.0	.6	.1	10.2	5.4	3.2	.7
Dec	25.2	25.5	8	8	19.4	1989	3	59.9	1972	39	1978	26	27	1989	13.1	6.7	2.8	1.4	.3	26.3	21.7	18.7	10.6
Ann	115.9	111.8	N/A	N/A	28.6	Mar 1984	14	59.9	Dec 1972	62+	Feb 1977	23	55	Feb 1977	64.1	28.9	12.5	6.2	1.3	139.0	123.2	113.0	85.6

+ 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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Elevation: 624 Feet

Lat: 46° 52N

Lon: 68° 02W

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	6/12	6/07	6/04	6/01	5/29	5/26	5/23	5/19	5/14
32	5/27	5/23	5/20	5/17	5/15	5/13	5/10	5/07	5/03
28	5/13	5/08	5/05	5/02	4/30	4/27	4/24	4/21	4/17
24	4/28	4/24	4/21	4/19	4/17	4/15	4/12	4/10	4/06
20	4/20	4/16	4/14	4/11	4/09	4/07	4/04	4/02	3/29
16	4/15	4/11	4/08	4/05	4/03	3/31	3/29	3/25	3/21
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	8/31	9/04	9/06	9/09	9/11	9/13	9/15	9/18	9/22
32	9/11	9/15	9/18	9/20	9/22	9/24	9/27	9/29	10/03
28	9/25	9/29	10/02	10/04	10/06	10/08	10/10	10/13	10/16
24	10/04	10/10	10/14	10/17	10/20	10/23	10/26	10/30	11/04
20	10/25	10/29	11/01	11/03	11/05	11/07	11/10	11/12	11/16
16	11/02	11/06	11/09	11/12	11/14	11/16	11/19	11/22	11/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	124	117	112	108	104	100	96	91	85
32	141	137	134	132	130	127	125	122	118
28	173	168	164	161	158	155	152	148	143
24	204	197	193	189	185	182	178	173	167
20	225	220	216	213	210	206	203	199	194
16	244	237	232	228	225	221	217	212	206

* 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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Elevation: 624 Feet

Lat: 46° 52N

Lon: 68° 02W

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	1719	1466	1254	805	417	159	58	103	344	691	1039	1505	9560
60	1564	1315	1096	658	277	51	9	28	205	534	883	1351	7971
57	1471	1231	1003	568	204	22	1	10	138	442	793	1258	7141
55	1409	1175	941	508	161	11	0	4	101	382	733	1196	6621
50	1254	1035	786	362	78	1	0	0	38	240	583	1041	5418
32	697	535	270	28	0	0	0	0	0	4	117	509	2160

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	6	9	47	212	610	867	1043	975	655	337	90	11	4862
55	0	0	0	2	58	200	331	268	71	6	0	0	936
57	0	0	0	1	40	156	271	213	49	3	0	0	733
60	0	0	0	0	22	100	188	141	27	1	0	0	479
65	0	0	0	0	7	39	80	56	9	0	0	0	191
70	0	0	0	0	2	10	22	14	2	0	0	0	50

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	8	70	374	635	803	738	424	148	21	0	0	0	8	78	452	1087	1890	2628	3052	3200	3221	3221
45	0	0	0	26	235	485	648	583	280	66	4	0	0	0	0	26	261	746	1394	1977	2257	2323	2327	2327
50	0	0	0	6	129	340	493	428	160	28	0	0	0	0	0	6	135	475	968	1396	1556	1584	1584	1584
55	0	0	0	1	60	208	338	277	75	4	0	0	0	0	0	1	61	269	607	884	959	963	963	963
60	0	0	0	0	24	107	197	148	28	0	0	0	0	0	0	0	24	131	328	476	504	504	504	504
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	5	44	216	379	502	449	236	70	9	0	0	0	5	49	265	644	1146	1595	1831	1901	1910	1910

(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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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