

Climatography of the United States

No. 20

1971-2000

Station: FORT KENT, ME

COOP ID: 172878

Climate Division: ME 1

NWS Call Sign:

Elevation: 610 Feet Lat: 47° 14N Lon: 68° 37W

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	19.0	-6.2	6.4	57	1950	26	13.0	1990	-42+	1957	15	-2.6	1994	1819	0	.0	.0	.1	26.2	30.7	21.3
Feb	23.1	-4.3	9.4	59+	2000	28	22.9	1981	-42	1966	20	-2.1	1993	1559	0	.0	.0	.3	22.4	27.9	18.3
Mar	34.2	10.1	22.2	77	1962	30	30.3	1977	-34	2001	4	15.6	1989	1329	0	.0	.0	2.3	12.4	29.9	8.4
Apr	46.1	26.3	36.2	83+	1990	28	43.2	1987	-9	1964	2	30.6	1985	865	0	.0	.0	10.2	2.3	23.8	.2
May	62.1	38.0	50.1	92+	1992	24	55.3	1998	17+	1966	8	43.5	1974	466	3	.0	.2	26.8	.0	7.8	.0
Jun	72.0	47.9	60.0	95	1956	14	63.7	1999	29+	2000	5	55.2	1986	167	15	.0	.4	30.0	.0	.6	.0
Jul	76.5	53.2	64.9	96	1955	10	68.2	1975	33	1965	2	59.5	1992	66	62	.0	.7	31.0	.0	.0	.0
Aug	74.5	50.7	62.6	97	1960	19	65.9	1990	31	1982	30	57.1	1982	112	37	.0	.4	31.0	.0	.1	.0
Sep	64.7	41.4	53.1	90+	1953	5	61.0	1999	19	1950	22	48.1	1978	362	3	.0	.0	29.1	.0	4.4	.0
Oct	52.1	31.8	42.0	83	1946	6	48.3	1971	7	1960	28	37.6	1993	715	0	.0	.0	17.1	.2	17.5	.0
Nov	38.2	21.9	30.1	73	1950	2	34.6	1979	-14	1956	25	25.6	1986	1049	0	.0	.0	3.3	9.1	26.2	.8
Dec	24.9	4.1	14.5	56+	2001	7	24.6	1996	-33+	1989	30	2.4	1989	1566	0	.0	.0	.2	22.9	30.7	13.1
Ann	49.0	26.2	37.6	97	Aug 1960	19	68.2	Jul 1975	-42+	Feb 1966	20	-2.6	Jan 1994	10075	120	.0	1.7	181.4	95.5	199.6	62.1

+ 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: 1945-2001

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

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No. 20 1971-2000

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

Station: FORT KENT, ME

COOP ID: 172878

Climate Division: ME 1

NWS Call Sign:

Elevation: 610 Feet Lat: 47°14N

Lon: 68°37W

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	2.78	2.57	1.67	1996	28	5.11	1997	.70	1985	12.1	6.8	1.8	.3	1.04	1.30	1.67	1.98	2.28	2.58	2.90	3.28	3.76	4.51	5.19
Feb	1.85	1.91	1.30	1951	8	3.26	2000	.20	1987	9.5	4.7	1.2	.1	.50	.67	.94	1.17	1.40	1.64	1.91	2.22	2.64	3.28	3.89
Mar	2.25	2.15	2.24	1947	3	5.03	1991	.44	1988	10.7	5.6	1.2	.2	.79	1.00	1.31	1.57	1.82	2.07	2.35	2.67	3.09	3.72	4.31
Apr	2.72	2.53	1.90	2000	24	6.10	1983	.84	1972	11.0	7.0	1.7	.3	.96	1.22	1.59	1.90	2.20	2.51	2.84	3.23	3.73	4.50	5.20
May	3.29	3.23	2.22	1997	17	5.76	1984	.71	1982	13.2	7.7	1.9	.5	1.11	1.42	1.88	2.26	2.63	3.01	3.43	3.91	4.54	5.50	6.39
Jun	3.54	3.51	3.19	1973	25	6.30	1994	1.27	1991	12.9	7.6	2.2	.6	1.72	2.02	2.43	2.77	3.07	3.38	3.71	4.08	4.55	5.25	5.88
Jul	3.91	3.77	2.32	1964	29	7.79	1992	1.62	1990	13.9	8.7	2.3	.8	1.65	2.00	2.50	2.91	3.29	3.68	4.09	4.57	5.18	6.10	6.94
Aug	4.16	3.72	3.11	1976	11	9.36	1981	1.14	1978	13.9	8.6	2.7	.7	1.43	1.82	2.40	2.88	3.34	3.82	4.34	4.95	5.72	6.93	8.03
Sep	3.39	3.43	3.49	1972	4	7.71	1999	.95	1984	13.0	6.6	2.2	.7	1.37	1.68	2.12	2.48	2.83	3.17	3.55	3.98	4.53	5.37	6.13
Oct	3.08	2.98	2.25	1966	20	6.31	1990	.77	1997	13.7	7.2	1.8	.4	1.00	1.29	1.72	2.09	2.44	2.81	3.21	3.68	4.29	5.23	6.10
Nov	2.89	2.89	2.42	1962	11	7.76	1983	1.00	1996	12.3	6.8	1.9	.4	1.26	1.52	1.88	2.18	2.46	2.74	3.04	3.38	3.81	4.47	5.07
Dec	2.93	2.56	2.65	1973	18	8.82	1973	1.00	1988	13.0	7.1	1.6	.3	.98	1.26	1.66	2.01	2.34	2.68	3.06	3.50	4.06	4.93	5.73
Ann	36.79	36.35	3.49	Sep 1972	4	9.36	Aug 1981	.20	Feb 1987	149.2	84.4	22.5	5.3	27.78	29.56	31.82	33.52	35.02	36.47	37.95	39.58	41.54	44.37	46.81

+ 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: 1945-2001

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

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Station: FORT KENT, ME

COOP ID: 172878

Climate Division: ME 1

NWS Call Sign:

Elevation: 610 Feet

Lat: 47° 14N

Lon: 68° 37W

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	23.8	23.0	17	15	15.0	1987	12	41.0	1990	50	1977	31	43	1977	7.8	6.8	3.2	1.7	.3	30.4	29.9	29.4	24.7
Feb	18.4	18.8	22	22	16.0	1984	6	31.0	1976	58	1977	26	49	1977	6.7	5.7	2.6	1.1	.3	27.2	27.1	26.3	22.8
Mar	16.7	18.5	20	19	18.0	1984	15	31.5	1971	59	1977	6	36	1977	5.6	4.7	2.0	.9	.2	29.5	28.9	28.1	24.7
Apr	8.2	6.0	6	5	13.0	1994	8	22.0	1975	30	1982	8	15	1982	2.7	2.4	1.2	.4	@	14.1	11.9	9.6	5.7
May	.2	.0	#	0	2.0	1976	8	2.0+	1978	2	1978	1	#+	1990	.2	.1	.0	.0	.0	.1	.0	.0	.0
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	#	1987	26	#+	1987	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	6.0	1972	26	6.0+	2000	8	1997	29	1	1997	.3	.3	.1	@	.0	.3	.1	.0	.0
Nov	10.5	10.0	2	1	20.0	1986	22	28.2	1974	24	1986	23	7	1986	3.6	2.9	1.2	.7	.1	9.4	5.8	3.5	.8
Dec	22.6	22.0	9	8	18.0	1976	27	52.2	1976	47	1976	31	16+	1989	7.8	6.3	2.8	1.2	.2	26.7	23.6	19.7	13.0
Ann	101.1	98.3	N/A	N/A	20.0	Nov 1986	22	52.2	Dec 1976	59	Mar 1977	6	49	Feb 1977	34.7	29.2	13.1	6.0	1.1	137.7	127.3	116.6	91.7

+ 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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No. 20 1971-2000

Station: FORT KENT, ME

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Climate Division: ME 1

NWS Call Sign:

Elevation: 610 Feet

Lat: 47° 14N

Lon: 68° 37W

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	6/24	6/19	6/15	6/12	6/10	6/07	6/04	5/31	5/26
32	6/09	6/05	6/02	5/30	5/28	5/25	5/23	5/20	5/16
28	5/24	5/20	5/17	5/14	5/12	5/10	5/07	5/04	4/30
24	5/08	5/04	5/02	4/30	4/28	4/26	4/23	4/21	4/18
20	4/27	4/24	4/21	4/19	4/17	4/15	4/13	4/11	4/07
16	4/18	4/15	4/12	4/10	4/08	4/06	4/04	4/02	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	8/25	8/29	9/02	9/05	9/08	9/10	9/13	9/17	9/22
32	9/02	9/07	9/10	9/13	9/16	9/18	9/21	9/25	9/29
28	9/17	9/22	9/25	9/28	9/30	10/03	10/06	10/09	10/14
24	10/01	10/05	10/08	10/10	10/12	10/14	10/17	10/20	10/24
20	10/15	10/19	10/23	10/25	10/28	10/30	11/02	11/05	11/09
16	10/27	10/31	11/03	11/06	11/08	11/10	11/13	11/16	11/20
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	103	98	94	89	85	81	76	68
32	128	122	118	114	110	107	103	98	92
28	160	153	148	144	140	137	133	128	121
24	182	177	173	170	167	164	161	157	152
20	207	202	199	196	193	190	187	183	178
16	228	223	219	216	213	210	207	203	198

* 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: ME 1

NWS Call Sign:

Elevation: 610 Feet Lat: 47°14N Lon: 68°37W

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	1819	1559	1329	865	466	167	66	112	362	715	1049	1566	10075
60	1664	1419	1174	715	322	69	12	36	227	560	899	1411	8508
57	1571	1335	1081	625	245	34	4	14	159	468	809	1318	7663
55	1509	1279	1019	565	200	19	0	6	120	408	749	1256	7130
50	1354	1139	864	417	106	3	0	1	50	264	599	1101	5898
32	796	636	342	47	1	0	0	0	0	5	121	562	2510

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	2	36	173	560	838	1019	948	631	312	62	19	4600
55	0	0	0	0	46	167	306	242	61	2	0	0	824
57	0	0	0	0	30	122	247	187	40	1	0	0	627
60	0	0	0	0	14	67	163	116	18	0	0	0	378
65	0	0	0	0	3	15	62	37	3	0	0	0	120
70	0	0	0	0	0	1	11	5	0	0	0	0	17

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	46	329	604	775	703	398	127	15	0	0	0	6	52	381	985	1760	2463	2861	2988	3003	3003
45	0	0	0	14	200	455	620	549	260	59	4	0	0	0	0	14	214	669	1289	1838	2098	2157	2161	2161
50	0	0	0	5	110	314	465	394	147	21	1	0	0	0	0	5	115	429	894	1288	1435	1456	1457	1457
55	0	0	0	0	54	190	313	250	65	5	0	0	0	0	0	0	54	244	557	807	872	877	877	877
60	0	0	0	0	18	97	180	129	25	0	0	0	0	0	0	0	18	115	295	424	449	449	449	449
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	9	36	203	367	484	432	233	76	8	0	0	0	9	45	248	615	1099	1531	1764	1840	1848	1848

(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