

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: AUGUSTA AP, ME

1971-2000

COOP ID: 170275

Climate Division: ME 2

NWS Call Sign: AUG

Elevation: 350 Feet

Lat: 44° 19N

Lon: 69° 48W

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	28.5	10.5	19.5	57+	1974	27	27.2	1990	-33	1975	19	10.7	1994	1410	0	.0	.0	.9	19.8	29.8	6.6
Feb	32.1	13.6	22.9	60	1981	18	33.0	1981	-23	1962	2	14.3	1993	1180	0	.0	.0	.9	14.8	26.2	3.8
Mar	41.2	23.7	32.5	85	1998	31	38.7	2000	-11	1982	1	25.7	1984	1009	0	.0	.0	5.5	5.7	24.1	.4
Apr	53.1	34.3	43.7	90	1990	27	47.7	1986	9	1954	4	40.2	1975	640	0	.0	@	18.0	.4	10.7	.0
May	66.0	44.7	55.4	94	1992	22	59.4	1991	26	1950	8	48.8	1974	306	6	.0	.2	29.6	.0	.5	.0
Jun	74.8	53.9	64.4	98	1995	19	69.5	1999	36	1955	9	60.5	1977	80	60	.0	.6	30.0	.0	.0	.0
Jul	80.5	59.7	70.1	99	1952	14	74.2	1999	43	1965	7	66.1	1992	12	170	.0	1.5	31.0	.0	.0	.0
Aug	79.0	58.3	68.7	100	1955	5	72.7	1973	39	1954	27	65.2	1982	17	131	.0	.9	31.0	.0	.0	.0
Sep	70.1	49.6	59.9	95	1999	3	66.3	1999	28+	1980	29	56.5	1995	175	21	.0	.1	30.0	.0	.3	.0
Oct	58.4	39.2	48.8	85	1954	1	54.7	1971	21+	1974	19	41.8	1974	504	0	.0	.0	25.4	.0	6.0	.0
Nov	46.0	30.2	38.1	74	1990	4	42.9	1999	4+	1978	27	34.2	1996	806	0	.0	.0	9.5	2.6	17.4	.0
Dec	34.1	17.3	25.7	67	2001	6	32.0	1996	-15	1962	31	11.5	1989	1219	0	.0	.0	1.9	13.8	28.3	2.1
Ann	55.3	36.3	45.8	100	Aug 1955	5	74.2	Jul 1999	-33	Jan 1975	19	10.7	Jan 1994	7358	388	.0	3.3	213.7	57.1	143.3	12.9

+ 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: 1948-2001

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

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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	3.26	3.24	2.10	1986	26	9.01	1979	.73	1980	11.3	6.9	2.2	.6	.96	1.27	1.73	2.13	2.53	2.93	3.38	3.91	4.60	5.67	6.67
Feb	2.55	2.61	2.06	1965	25	4.42	1996	.32	1987	9.0	5.5	1.4	.7	.92	1.16	1.51	1.80	2.07	2.35	2.66	3.02	3.48	4.18	4.82
Mar	3.64	3.32	2.90	1987	31	6.67	1972	.89	1981	11.5	7.0	2.3	.8	1.40	1.74	2.22	2.62	3.00	3.39	3.81	4.30	4.91	5.86	6.73
Apr	3.78	3.66	3.41	1983	24	9.03	1983	.33	1999	11.8	7.2	2.4	.8	1.17	1.53	2.07	2.53	2.97	3.43	3.94	4.53	5.29	6.49	7.59
May	3.90	3.66	3.01	1984	31	10.83	1984	.55	1992	12.7	7.3	2.6	.9	.97	1.34	1.91	2.41	2.91	3.44	4.02	4.72	5.64	7.08	8.44
Jun	3.58	3.30	2.86	1954	27	10.32	1998	.48	1979	12.4	7.2	1.9	.8	.95	1.29	1.80	2.26	2.71	3.18	3.70	4.32	5.12	6.39	7.57
Jul	3.43	3.23	4.15	1996	13	8.67	1996	.45	1989	11.0	6.2	2.0	.9	1.03	1.36	1.84	2.26	2.67	3.10	3.56	4.11	4.82	5.93	6.96
Aug	3.25	3.15	4.50	1991	19	9.08	1991	.61	1995	9.6	5.5	2.3	.6	.99	1.29	1.75	2.15	2.54	2.93	3.37	3.89	4.56	5.60	6.57
Sep	3.60	3.33	5.78	1954	11	11.29	1999	.90	1978	10.4	6.4	2.4	.9	1.01	1.36	1.87	2.32	2.76	3.22	3.73	4.33	5.11	6.33	7.47
Oct	4.04	3.64	3.56	1998	10	8.27	1977	1.11	1997	10.5	6.6	2.5	1.0	1.25	1.64	2.21	2.70	3.17	3.66	4.20	4.84	5.66	6.93	8.11
Nov	3.81	3.83	3.66	1966	3	8.98	1983	1.32	1976	11.4	6.9	2.9	.9	1.62	1.96	2.45	2.84	3.22	3.59	4.00	4.46	5.05	5.95	6.76
Dec	3.50	2.92	4.03	1973	17	12.58	1973	.89	1980	11.4	7.2	1.9	.8	.87	1.20	1.71	2.16	2.61	3.08	3.61	4.23	5.05	6.34	7.55
Ann	42.34	41.93	5.78	Sep 1954	11	12.58	Dec 1973	.32	Feb 1987	133.0	79.9	26.8	9.7	31.30	33.47	36.23	38.31	40.15	41.93	43.76	45.77	48.20	51.71	54.73

+ 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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Climate Division: ME 2

NWS Call Sign: AUG

Elevation: 350 Feet

Lat: 44° 19N

Lon: 69° 48W

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	20.9	20.0	9	7	15.2	1977	10	47.0	1987	39	1996	13	25	1971	8.3	5.3	2.5	1.3	.2	26.4	22.2	18.4	11.5
Feb	13.5	11.5	9	7	13.0	1978	7	30.1	1972	32	1987	1	25	1987	6.3	3.9	1.7	.7	.2	23.9	21.1	18.0	11.1
Mar	14.1	12.5	5	4	13.1	1999	15	35.3	1993	44	1993	14	27	1993	5.8	3.5	1.8	.9	.1	17.7	13.3	10.2	6.7
Apr	5.0	3.4	#	1	10.7	1996	10	21.1	1996	15	1982	8	2+	1982	2.1	1.2	.6	.3	@	3.3	2.1	.9	.1
May	.0	.0	#	0	.2	1997	7	.2	1997	0	0	0	#	2000	.0	.0	.0	.0	.0	.0	.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	#	1992	30	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	4.4	2000	29	5.5	2000	3	2000	30	#	2000	.2	.0	@	.0	.0	.1	@	.0	.0
Nov	3.8	2.1	#	0	8.5	1980	18	11.7	1997	11	1980	19	2+	1997	2.7	1.5	.4	.1	.0	3.1	1.8	.7	.1
Dec	14.7	12.0	4	3	9.5	1995	20	40.6	1995	28	1995	22	14	1972	6.9	4.5	1.9	.8	.0	17.9	12.8	9.1	3.3
Ann	72.2	61.5	N/A	N/A	15.2	Jan 1977	10	47.0	Jan 1987	44	Mar 1993	14	27	Mar 1993	32.3	19.9	8.9	4.1	.5	92.4	73.3	57.3	32.8

+ 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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Lon: 69° 48W

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	5/18	5/13	5/10	5/08	5/05	5/03	4/30	4/27	4/23
32	5/08	5/04	5/01	4/29	4/27	4/25	4/22	4/20	4/16
28	4/24	4/20	4/17	4/15	4/12	4/10	4/08	4/05	4/01
24	4/14	4/10	4/07	4/04	4/02	3/30	3/28	3/25	3/20
20	4/10	4/05	4/02	3/30	3/28	3/25	3/23	3/19	3/15
16	4/02	3/29	3/26	3/24	3/21	3/19	3/17	3/14	3/10
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	9/23	9/26	9/29	10/01	10/03	10/05	10/07	10/10	10/13
32	9/28	10/01	10/04	10/06	10/08	10/10	10/13	10/15	10/19
28	10/10	10/15	10/20	10/23	10/27	10/30	11/02	11/07	11/12
24	10/29	11/02	11/05	11/08	11/11	11/13	11/16	11/20	11/24
20	11/07	11/11	11/15	11/18	11/21	11/23	11/26	11/30	12/04
16	11/16	11/21	11/24	11/27	11/30	12/02	12/05	12/08	12/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	167	161	157	153	150	147	143	139	133
32	181	175	171	167	164	160	157	152	147
28	220	212	206	201	196	192	187	181	173
24	242	235	230	226	222	218	214	209	202
20	259	251	246	241	237	233	228	223	215
16	273	266	261	256	252	248	244	239	232

* 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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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	1410	1180	1009	640	306	80	12	17	175	504	806	1219	7358
60	1255	1040	854	490	175	23	1	1	79	353	656	1064	5991
57	1162	956	761	401	113	8	0	0	43	268	566	971	5249
55	1100	900	699	342	79	3	0	0	26	216	506	909	4780
50	945	760	544	204	25	0	0	0	5	108	358	754	3703
32	402	286	100	2	0	0	0	0	0	0	29	268	1087

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	15	30	114	352	724	971	1181	1136	835	520	212	72	6162
55	0	0	0	2	90	284	468	423	171	22	0	0	1460
57	0	0	0	1	62	228	406	361	128	12	0	0	1198
60	0	0	0	0	31	153	314	270	74	4	0	0	846
65	0	0	0	0	6	60	170	131	21	0	0	0	388
70	0	0	0	0	0	14	66	39	2	0	0	0	121

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	2	27	160	485	743	943	893	600	282	77	7	0	2	29	189	674	1417	2360	3253	3853	4135	4212	4219
45	0	0	8	72	335	593	788	738	451	160	31	1	0	0	8	80	415	1008	1796	2534	2985	3145	3176	3177
50	0	0	2	24	198	443	633	583	307	79	9	0	0	0	2	26	224	667	1300	1883	2190	2269	2278	2278
55	0	0	0	11	90	296	478	428	175	29	1	0	0	0	0	11	101	397	875	1303	1478	1507	1508	1508
60	0	0	0	0	33	166	323	277	84	5	0	0	0	0	0	0	33	199	522	799	883	888	888	888
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	13	83	259	448	625	582	339	136	35	1	0	0	13	96	355	803	1428	2010	2349	2485	2520	2521

(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