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: ONEONTA, AL **COOP ID: 016121**

Climate Division: AL 2 **NWS Call Sign:** **Elevation: 892 Feet** **Lat: 33˚57N** **Lon: 86˚28W**

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	50.2	30.8	40.5	80+	1949	12	51.6	1974	-8+	1985	22	29.4	1977	759	0	.0	.0	17.2	2.2	19.6	.2
Feb	54.8	33.4	44.1	83	1962	14	51.3	1990	0+	1996	6	35.3	1978	584	0	.0	.0	19.4	1.1	15.6	.1
Mar	63.2	41.3	52.3	87	1982	20	58.5	1974	8	1993	15	46.3	1971	402	7	.0	.0	27.7	.1	8.5	.0
Apr	71.0	47.2	59.1	92	1955	19	64.5	1981	24	1987	1	53.7	1983	199	20	.0	.0	29.8	.0	1.8	.0
May	78.2	56.1	67.2	98	1962	19	72.1	1987	32	1963	2	61.4	1976	64	131	.0	.9	31.0	.0	.0	.0
Jun	84.9	64.3	74.6	102	1952	29	78.1	1998	40	1966	1	70.5	1974	3	290	@	8.3	30.0	.0	.0	.0
Jul	88.7	68.4	78.6	109	1952	30	82.3	1980	48	1967	16	75.5	1976	0	419	.6	17.0	31.0	.0	.0	.0
Aug	88.2	66.9	77.6	104+	2000	19	81.2	2000	50+	1950	23	73.5	1992	0	389	.6	14.9	31.0	.0	.0	.0
Sep	82.9	60.6	71.8	104	1951	2	76.4	1998	32	1967	30	67.7	1975	18	222	@	6.2	30.0	.0	.0	.0
Oct	73.1	48.1	60.6	96	1954	6	67.2	1984	20	1952	30	54.7	1987	187	51	.0	.1	30.9	.0	1.7	.0
Nov	62.8	40.3	51.6	86	2000	1	59.7	1985	2	1950	25	42.7	1976	410	7	.0	.0	26.6	@	9.0	.0
Dec	53.6	33.2	43.4	77+	1978	9	52.3	1971	-3+	1989	24	34.2	1989	670	0	.0	.0	20.7	.9	17.4	.2
Ann	71.0	49.2	60.1	109	Jul 1952	30	82.3	Jul 1980	-8+	Jan 1985	22	29.4	Jan 1977	3296	1536	1.2	47.4	325.3	4.3	73.6	.5

\+ 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

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

Issue Date: February 2004

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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	6.15	6.32	6.70	1949	5	10.79	1998	1.07	1981
Feb	5.18	5.08	5.10	1990	16	10.41	1990	.99	1978
Mar	6.30	5.66	6.00	1950	13	17.77	1980	2.25	1986
Apr	5.25	4.69	5.65	1979	13	13.08	1979	1.10	1986
May	4.78	4.76	4.00	1979	31	10.00	1983	1.59	1981
Jun	4.62	3.83	4.82	1997	22	15.51	1997	.75	1977
Jul	5.24	4.07	8.60	1987	4	15.02	1985	.73	2000
Aug	3.17	2.96	5.00	1966	4	6.09	1975	.43	1990
Sep	4.53	3.83	7.04	1980	26	12.90	1980	.15	1984
Oct	3.52	2.93	5.59	1995	4	12.31	1995	.02	1991
Nov	4.56	4.14	4.25	1983	28	9.00	1983	1.87	1971
Dec	4.84	4.68	4.25	1961	12	10.53	1982	1.17	1980
Ann	58.14	57.67	8.60	Jul 1987	4	17.77	Mar 1980	.02	Oct 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	8.8	4.3	2.0
Feb	8.3	7.1	3.5	1.9
Mar	8.7	7.7	3.9	2.4
Apr	7.2	6.3	3.8	1.7
May	8.0	6.6	3.2	1.4
Jun	8.0	6.9	3.4	1.4
Jul	8.8	7.3	3.4	1.4
Aug	6.9	5.7	2.2	.7
Sep	7.0	5.7	2.7	1.3
Oct	5.5	4.4	2.3	1.0
Nov	8.1	7.0	3.3	1.4
Dec	9.1	7.7	3.6	1.4
Ann	96.2	81.2	39.6	18.0

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	2.42	2.99	3.80	4.47	5.10	5.74	6.44	7.25	8.27	9.84	11.27
Feb	1.83	2.32	3.03	3.62	4.19	4.78	5.41	6.15	7.10	8.56	9.90
Mar	2.13	2.72	3.60	4.33	5.04	5.77	6.57	7.50	8.70	10.55	12.25
Apr	1.34	1.84	2.60	3.27	3.94	4.64	5.41	6.34	7.54	9.45	11.23
May	1.63	2.09	2.75	3.31	3.84	4.39	4.99	5.70	6.60	7.99	9.27
Jun	.98	1.41	2.09	2.70	3.32	3.98	4.72	5.61	6.79	8.67	10.44
Jul	1.00	1.47	2.24	2.95	3.67	4.45	5.33	6.39	7.79	10.05	12.20
Aug	.78	1.07	1.54	1.95	2.35	2.78	3.26	3.83	4.58	5.76	6.87
Sep	.53	.89	1.52	2.15	2.82	3.57	4.45	5.53	7.00	9.42	11.77
Oct	.30	.54	1.00	1.49	2.03	2.64	3.37	4.28	5.55	7.66	9.74
Nov	2.02	2.43	3.00	3.46	3.89	4.32	4.78	5.31	5.98	7.00	7.92
Dec	1.46	1.92	2.61	3.20	3.78	4.37	5.03	5.81	6.81	8.37	9.82
Ann	42.86	45.86	49.68	52.56	55.11	57.57	60.10	62.89	66.26	71.12	75.31

\+ 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)

Extremes (2)

Mean Number of Days (1)

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	.8	.0	#	0	4.0	1987	22	6.0	1978	1	1991	24	#+	1997	.7	.4	@	.0	.0	.1	.0	.0	.0
Feb	.3	.0	#	0	1.5	1985	12	2.5	1984	1	1971	13	#+	1998	.4	.2	.0	.0	.0	.1	.0	.0	.0
Mar	.1	.0	#	0	2.0	1983	24	2.0	1983	#	1996	21	#	1996	.1	.1	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	#	0	.0	0	0	.0	0	8	1987	3	#	1987	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	#	0	.5	2000	20	.5+	2000	#	2000	19	#	2000	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	.5	1973	21	1.0	1974	#+	2000	21	#+	2000	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.3	.0	N/A	N/A	4.0	Jan 1987	22	6.0	Jan 1978	8	Apr 1987	3	#+	Dec 2000	1.3	.7	@	.0	.0	.2	.0	.0	.0

+ 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	5/01	4/26	4/23	4/20	4/17	4/14	4/11	4/07	4/02
32	4/21	4/15	4/11	4/08	4/05	4/02	3/30	3/26	3/21
28	4/09	4/02	3/29	3/25	3/21	3/17	3/13	3/09	3/02
24	3/20	3/12	3/07	3/03	2/27	2/23	2/19	2/13	2/06
20	3/11	3/04	2/26	2/22	2/18	2/14	2/09	2/04	1/28
16	3/03	2/23	2/16	2/11	2/06	2/01	1/26	1/18	1/04

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	10/05	10/08	10/11	10/13	10/15	10/17	10/19	10/22	10/25
32	10/09	10/15	10/19	10/23	10/26	10/30	11/02	11/07	11/13
28	10/31	11/05	11/08	11/11	11/14	11/16	11/19	11/22	11/27
24	11/08	11/15	11/21	11/25	11/29	12/04	12/08	12/14	12/21
20	11/20	11/29	12/05	12/11	12/16	12/21	12/26	1/02	1/10
16	12/06	12/15	12/22	12/27	1/01	1/07	1/13	1/21	2/04

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	191	187	184	181	177	174	170	164
32	226	218	213	208	203	199	194	189	181
28	260	252	246	241	237	232	227	221	213
24	305	295	287	281	275	269	262	255	244
20	331	319	311	305	299	293	287	280	270
16	>365	>365	344	334	326	319	312	304	293

***** 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	759	584	402	199	64	3	0	0	18	187	410	670	3296
60	614	445	266	98	20	0	0	0	4	99	278	524	2348
57	527	367	197	56	8	0	0	0	1	61	210	438	1865
55	471	315	158	35	4	0	0	0	0	42	170	383	1578
50	342	200	80	8	0	0	0	0	0	13	91	262	996
32	56	9	0	0	0	0	0	0	0	0	1	27	93

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	319	349	628	812	1090	1278	1442	1412	1194	887	588	380	10379
55	22	11	73	157	381	588	729	699	504	216	68	24	3472
57	16	7	50	117	323	528	667	637	445	173	47	16	3026
60	10	1	26	70	242	438	574	544	357	117	25	9	2413
65	0	0	7	20	131	290	419	389	222	51	7	0	1536
70	0	0	0	3	55	157	265	241	113	16	0	0	850

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	136	196	394	586	850	1054	1214	1183	966	646	362	185	136	332	726	1312	2162	3216	4430	5613	6579	7225	7587	7772
45	69	112	261	438	695	904	1059	1028	816	491	240	104	69	181	442	880	1575	2479	3538	4566	5382	5873	6113	6217
50	32	55	155	301	540	754	904	873	666	339	146	54	32	87	242	543	1083	1837	2741	3614	4280	4619	4765	4819
55	10	23	75	183	389	604	749	718	516	209	75	24	10	33	108	291	680	1284	2033	2751	3267	3476	3551	3575
60	0	5	31	96	247	455	594	563	372	114	31	5	0	5	36	132	379	834	1428	1991	2363	2477	2508	2513
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	86	133	249	373	556	723	834	810	651	416	229	117	86	219	468	841	1397	2120	2954	3764	4415	4831	5060	5177

(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