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: EVERGREEN, AL **COOP ID: 012758**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 290 Feet** **Lat: 31˚27N** **Lon: 86˚57W**

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	58.5	36.8	47.7	83	1949	12	59.9	1974	0	1985	21	37.7	1977	550	0	.0	.0	24.4	.3	13.8	@
Feb	63.0	38.9	51.0	86	1962	14	56.6	1990	9+	1996	6	42.2	1978	395	1	.0	.0	24.6	.2	9.6	.0
Mar	70.7	45.5	58.1	89+	1982	18	63.5	1997	16	1980	3	52.1	1996	242	28	.0	.0	30.0	@	3.9	.0
Apr	76.7	51.1	63.9	94	1987	23	69.3	1999	28+	1987	5	59.7	1997	102	69	.0	.2	29.9	.0	.3	.0
May	83.2	59.9	71.6	99	1962	29	76.1	2000	41	1965	1	67.6	1976	12	215	.0	3.4	31.0	.0	.0	.0
Jun	88.8	67.3	78.1	106	1963	15	81.4	1998	47	1984	1	74.0	1997	0	391	.2	12.7	30.0	.0	.0	.0
Jul	90.7	70.6	80.7	104	1986	31	83.8	1981	55+	1967	16	76.8	1994	0	486	.8	20.0	31.0	.0	.0	.0
Aug	90.3	70.3	80.3	103+	2000	19	83.1	1999	57+	1992	31	76.9	1994	0	475	.4	19.0	31.0	.0	.0	.0
Sep	86.4	66.0	76.2	101+	1962	6	80.7	1980	35	1967	30	73.4	1996	2	337	.0	9.9	30.0	.0	.0	.0
Oct	78.1	54.0	66.1	96	1981	1	72.5	1984	28	1963	30	60.8	1976	88	121	.0	1.0	31.0	.0	.1	.0
Nov	68.4	45.0	56.7	88+	2000	1	63.9	1985	18	1976	30	49.0	1976	275	26	.0	.0	29.2	.0	4.5	.0
Dec	60.7	39.1	49.9	83	1998	9	62.2	1971	6+	1989	25	40.6	1989	482	14	.0	.0	26.2	.3	12.2	.0
Ann	76.3	53.7	65.0	106	Jun 1963	15	83.8	Jul 1981	0	Jan 1985	21	37.7	Jan 1977	2148	2163	1.4	66.2	348.3	.8	44.4	@

\+ 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: 1933-2001

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

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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	6.50	5.82	5.20	1974	21	14.02	1974	1.36	1981
Feb	5.62	5.33	5.72	1981	11	11.23	1979	1.27	1980
Mar	7.36	6.58	6.71	1990	17	14.97	1973	2.75	1997
Apr	5.11	4.95	12.60	1975	10	18.20	1975	.38	1986
May	5.30	4.74	5.75	1984	3	14.07	1976	.71	1988
Jun	5.49	5.07	4.44	1970	1	11.67	1989	.48	1988
Jul	6.75	6.48	6.50	1975	31	14.93	1975	1.12	2000
Aug	4.57	3.78	6.10	1995	4	11.83	1995	.36	1972
Sep	4.78	3.70	7.90	1974	8	16.26	1998	.07	1984
Oct	2.75	2.12	8.10	1995	5	11.92	1995	.05	1978
Nov	4.74	3.91	3.70	1992	25	13.43	1992	1.74	1990
Dec	5.10	4.69	6.10	1989	31	11.98	1972	1.39	1988
Ann	64.07	62.27	12.60	Apr 1975	10	18.20	Apr 1975	.05	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.1	8.3	4.5	2.1
Feb	8.2	6.9	3.8	2.1
Mar	8.9	7.8	4.3	2.5
Apr	7.5	5.9	3.0	1.6
May	8.6	6.6	3.4	1.6
Jun	9.5	7.9	3.6	1.7
Jul	12.1	10.0	4.8	2.1
Aug	10.3	7.9	3.1	1.3
Sep	7.8	6.2	2.7	1.4
Oct	5.1	3.7	2.0	.7
Nov	7.5	6.1	3.5	1.5
Dec	8.5	6.3	3.2	1.6
Ann	104.1	83.6	41.9	20.2

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	2.52	3.12	3.98	4.70	5.37	6.06	6.80	7.67	8.76	10.45	11.98
Feb	1.63	2.17	2.97	3.66	4.34	5.05	5.83	6.75	7.94	9.80	11.54
Mar	2.78	3.47	4.45	5.27	6.05	6.84	7.70	8.70	9.97	11.92	13.71
Apr	.81	1.24	1.99	2.69	3.42	4.21	5.12	6.24	7.73	10.15	12.47
May	1.17	1.66	2.43	3.14	3.84	4.59	5.43	6.43	7.76	9.87	11.86
Jun	1.06	1.55	2.36	3.10	3.85	4.66	5.58	6.69	8.16	10.51	12.75
Jul	1.85	2.49	3.47	4.32	5.15	6.02	6.99	8.13	9.61	11.95	14.12
Aug	.99	1.41	2.08	2.69	3.30	3.95	4.68	5.55	6.70	8.54	10.27
Sep	.58	.95	1.63	2.29	3.00	3.79	4.70	5.84	7.38	9.91	12.37
Oct	.19	.36	.71	1.08	1.50	1.99	2.58	3.33	4.37	6.13	7.87
Nov	1.58	2.03	2.69	3.25	3.79	4.34	4.94	5.65	6.56	7.97	9.27
Dec	1.83	2.31	3.00	3.58	4.14	4.71	5.33	6.05	6.97	8.40	9.70
Ann	43.96	47.80	52.74	56.51	59.88	63.14	66.52	70.27	74.83	81.47	87.23

\+ 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: 1933-2001
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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	.2	.0	0	0
Feb	.0	.0	0	0
Mar	.3	.0	#	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.1	.0	0	0
Ann	.6	.0	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	2.5	1977	19	5.0	1977	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	6.0	1993	13	6.0	1993	6	1993	13	#+	1993
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	2.0	1996	19	2.0	1996	0	0	0	0	0
Ann	6.0	Mar 1993	13	6.0	Mar 1993	6	Mar 1993	13	#+	Mar 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	@	@	@	@	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	@	@	.0	.0	.0
Ann	.1	.1	@	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	@	@	@	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	@	@	@	.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	4/14	4/09	4/05	4/02	3/30	3/27	3/24	3/20	3/15
32	4/02	3/27	3/23	3/20	3/17	3/14	3/10	3/06	3/01
28	3/19	3/11	3/06	3/01	2/24	2/20	2/15	2/10	2/02
24	3/11	3/02	2/24	2/19	2/14	2/09	2/04	1/29	1/21
20	2/28	2/19	2/11	2/05	1/30	1/23	1/16	1/04	0/00
16	2/06	1/27	1/19	1/09	12/25	0/00	0/00	0/00	0/00

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	10/22	10/27	10/30	11/02	11/05	11/08	11/11	11/14	11/19
32	10/31	11/06	11/10	11/14	11/17	11/20	11/24	11/28	12/04
28	11/11	11/18	11/23	11/28	12/02	12/07	12/11	12/17	12/24
24	11/20	12/02	12/10	12/17	12/24	12/31	1/07	1/15	1/27
20	12/08	12/20	12/29	1/06	1/13	1/21	1/31	2/14	0/00
16	12/22	1/02	1/12	1/22	2/08	0/00	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	239	232	227	223	219	215	211	206	199
32	266	259	253	249	244	240	235	230	222
28	307	298	291	285	280	275	269	262	253
24	>365	332	320	311	305	298	291	284	274
20	>365	>365	>365	>365	348	333	322	311	298
16	>365	>365	>365	>365	>365	>365	>365	>365	325

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	550	395	242	102	12	0	0	0	2	88	275	482	2148
60	411	266	137	38	2	0	0	0	0	35	168	347	1404
57	335	197	89	18	0	0	0	0	0	18	119	277	1053
55	290	157	63	10	0	0	0	0	0	11	90	236	857
50	196	79	21	1	0	0	0	0	0	2	38	150	487
32	17	0	0	0	0	0	0	0	0	0	0	9	26

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	503	530	809	957	1226	1381	1509	1498	1326	1056	741	564	12100
55	63	43	159	276	513	691	796	785	636	354	142	78	4536
57	46	27	123	224	451	631	734	723	576	299	110	57	4001
60	29	12	78	155	359	541	641	630	486	223	70	35	3259
65	0	1	28	69	215	391	486	475	337	121	26	14	2163
70	0	0	7	20	101	243	331	320	197	51	8	1	1279

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	270	341	563	714	982	1142	1262	1245	1079	801	504	328	270	611	1174	1888	2870	4012	5274	6519	7598	8399	8903	9231
45	168	225	418	565	827	992	1107	1090	929	646	360	212	168	393	811	1376	2203	3195	4302	5392	6321	6967	7327	7539
50	95	133	284	418	672	842	952	935	779	495	238	129	95	228	512	930	1602	2444	3396	4331	5110	5605	5843	5972
55	47	68	170	280	517	692	797	780	629	344	141	67	47	115	285	565	1082	1774	2571	3351	3980	4324	4465	4532
60	22	30	86	161	363	542	642	625	480	212	71	30	22	52	138	299	662	1204	1846	2471	2951	3163	3234	3264
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	176	225	363	464	661	787	867	865	740	530	320	207	176	401	764	1228	1889	2676	3543	4408	5148	5678	5998	6205

(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.
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