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: THOMASVILLE, AL **COOP ID: 018178**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 405 Feet** **Lat: 31˚32N** **Lon: 87˚53W**

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	57.1	35.3	46.2	84	1949	12	57.8	1974	-1+	1985	22	35.9	1977	592	0	.0	.0	23.9	.3	14.8	.1
Feb	61.8	38.0	49.9	86	1932	10	55.9	1990	8	1951	3	40.6	1978	424	1	.0	.0	24.1	.2	10.4	.0
Mar	70.1	45.0	57.6	89+	1982	20	63.0	1997	14	1980	3	52.0	1996	255	23	.0	.0	30.0	.0	3.8	.0
Apr	77.0	51.2	64.1	94	1987	22	69.3	1999	27	1940	13	59.9	1983	94	67	.0	.3	29.9	.0	.3	.0
May	83.9	60.3	72.1	99	1937	31	76.2	2000	36	1960	13	67.7	1976	12	231	.0	4.2	31.0	.0	.0	.0
Jun	89.8	67.6	78.7	108	1930	26	82.1+	1998	46+	1984	1	75.5	1974	0	410	.2	15.9	30.0	.0	.0	.0
Jul	92.0	70.8	81.4	107	1930	13	84.0	1980	56	1967	15	78.5	1994	0	509	.7	23.1	31.0	.0	.0	.0
Aug	91.7	70.1	80.9	105+	1954	31	83.9	1999	53	1956	22	77.3	1992	0	494	.5	22.9	31.0	.0	.0	.0
Sep	87.5	64.9	76.2	104	1980	11	82.8	1972	39	1967	29	71.8	1975	3	339	.3	13.5	30.0	.0	.0	.0
Oct	78.4	53.0	65.7	100	1954	7	72.1	1984	29+	1993	31	60.5	1976	84	105	.0	1.7	31.0	.0	.2	.0
Nov	68.1	44.5	56.3	90	1935	4	63.3	1985	14	1950	25	48.2	1976	283	22	.0	.0	28.7	.0	4.9	.0
Dec	59.6	37.7	48.7	85	1933	11	58.0+	1984	3	1962	13	39.9	1989	516	9	.0	.0	25.7	.2	13.3	.0
Ann	76.4	53.2	64.8	108	Jun 1930	26	84.0	Jul 1980	-1+	Jan 1985	22	35.9	Jan 1977	2263	2210	1.7	81.6	346.3	.7	47.7	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

(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	6.21	5.92	4.68	1965	23	12.18	1999	1.10	1981
Feb	5.04	4.68	4.64	1961	18	11.42	1983	1.27	2000
Mar	6.95	6.03	11.10	1935	12	15.35	1976	1.62	1978
Apr	4.64	3.97	5.47	1979	3	12.02	1979	.49	1987
May	4.75	4.33	5.07	1940	1	12.04	1980	.64	1988
Jun	4.92	4.12	3.98	1943	29	12.69	1989	.93	1988
Jul	6.05	5.67	5.52	1988	6	15.91	1988	.69	2000
Aug	3.88	3.14	6.05	1939	14	9.01	1996	1.02	1989
Sep	4.13	3.44	7.30	1974	8	13.42	1998	.07	1984
Oct	2.90	2.11	5.80	1967	31	10.41	1997	.03+	1987
Nov	5.31	4.97	3.80	1959	6	11.26	1986	.86	1981
Dec	5.16	4.67	6.29	1961	10	11.65	1971	1.12	1980
Ann	59.94	60.86	11.10	Mar 1935	12	15.91	Jul 1988	.03+	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.5	8.5	4.3	2.2
Feb	9.3	6.7	3.5	1.7
Mar	9.8	7.3	3.9	2.2
Apr	8.2	5.8	3.0	1.6
May	9.5	6.6	3.0	1.5
Jun	9.8	7.2	3.4	1.6
Jul	12.4	8.3	4.1	2.0
Aug	9.8	6.3	2.5	.9
Sep	8.4	5.6	2.3	.9
Oct	5.7	3.7	1.7	.8
Nov	9.1	6.2	3.8	2.1
Dec	9.8	6.7	3.3	1.8
Ann	113.3	78.9	38.8	19.3

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	2.24	2.82	3.66	4.37	5.04	5.74	6.49	7.36	8.48	10.21	11.79
Feb	1.64	2.12	2.82	3.42	4.00	4.60	5.25	6.02	7.00	8.53	9.94
Mar	1.88	2.54	3.54	4.42	5.28	6.19	7.19	8.38	9.93	12.35	14.61
Apr	1.03	1.46	2.14	2.75	3.37	4.02	4.75	5.63	6.78	8.62	10.36
May	1.09	1.54	2.23	2.86	3.48	4.14	4.88	5.77	6.93	8.78	10.52
Jun	1.24	1.71	2.42	3.05	3.68	4.34	5.07	5.94	7.08	8.88	10.56
Jul	1.65	2.23	3.10	3.86	4.61	5.39	6.26	7.29	8.62	10.72	12.68
Aug	.91	1.27	1.84	2.35	2.85	3.39	3.98	4.70	5.63	7.11	8.51
Sep	.45	.76	1.33	1.91	2.52	3.22	4.03	5.04	6.41	8.69	10.91
Oct	.12	.26	.58	.96	1.41	1.94	2.60	3.46	4.69	6.80	8.93
Nov	1.21	1.70	2.48	3.18	3.88	4.62	5.45	6.44	7.75	9.83	11.79
Dec	1.90	2.39	3.08	3.66	4.22	4.78	5.40	6.11	7.02	8.42	9.71
Ann	43.96	47.09	51.07	54.09	56.75	59.32	61.97	64.89	68.42	73.52	77.91

\+ 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: 1930-2001
(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	.1	.0	#	0	2.0	1977	18	2.0	1977	4	1977	31	1	1977	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.5	1973	10	.5	1973	1	1973	10	#	1973	@	.0	.0	.0	.0	@	.0	.0	.0
Mar	.5	.0	#	0	12.0	1993	13	12.0	1993	12	1993	13	1	1993	@	@	@	@	@	@	@	@	@
Apr	.0	.0	#	0	.0	0	0	.0	0	3	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.5	1993	23	1.5	1993	#	1973	21	#	1973	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	12.0	Mar 1993	13	12.0	Mar 1993	12	Mar 1993	13	1+	Mar 1993	.1	.1	@	@	@	@	@	@	@

+ 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	4/13	4/08	4/05	4/02	3/31	3/28	3/25	3/22	3/17
32	4/01	3/27	3/23	3/20	3/17	3/14	3/10	3/06	3/01
28	3/20	3/13	3/09	3/05	3/01	2/25	2/21	2/16	2/09
24	3/09	3/01	2/23	2/18	2/14	2/10	2/05	1/30	1/22
20	3/03	2/22	2/15	2/10	2/04	1/29	1/22	1/11	0/00
16	2/17	2/07	1/29	1/22	1/13	12/28	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	10/17	10/23	10/27	10/30	11/02	11/05	11/09	11/13	11/18
32	10/27	11/02	11/07	11/10	11/14	11/18	11/21	11/26	12/02
28	11/09	11/16	11/21	11/25	11/29	12/03	12/07	12/12	12/18
24	11/25	12/04	12/10	12/16	12/21	12/26	12/31	1/07	1/16
20	11/30	12/13	12/23	1/01	1/09	1/18	1/28	2/13	0/00
16	12/13	12/25	1/04	1/14	1/25	2/14	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	236	229	224	220	216	212	208	203	196
32	267	258	252	247	242	237	231	225	216
28	300	290	283	278	272	267	261	254	245
24	344	328	319	312	306	300	293	286	276
20	>365	>365	>365	>365	329	319	311	302	292
16	>365	>365	>365	>365	>365	>365	352	336	321

***** 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	592	424	255	94	12	0	0	0	3	84	283	516	2263
60	450	294	146	33	2	0	0	0	0	31	173	376	1505
57	371	221	96	14	0	0	0	0	0	14	122	300	1138
55	323	179	69	7	0	0	0	0	0	8	93	254	933
50	221	96	24	1	0	0	0	0	0	1	40	162	545
32	21	1	0	0	0	0	0	0	0	0	0	9	31

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	462	502	791	963	1242	1400	1532	1517	1326	1044	729	525	12033
55	50	36	147	280	529	710	819	804	636	339	132	58	4540
57	37	22	112	227	467	650	757	742	576	283	101	41	4015
60	23	10	69	156	375	560	664	649	486	208	62	24	3286
65	0	1	23	67	231	410	509	494	339	105	22	9	2210
70	0	0	6	18	114	261	354	339	204	40	6	0	1342

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	247	319	546	721	985	1147	1271	1256	1074	790	488	300	247	566	1112	1833	2818	3965	5236	6492	7566	8356	8844	9144
45	148	210	402	572	830	997	1116	1101	924	635	348	188	148	358	760	1332	2162	3159	4275	5376	6300	6935	7283	7471
50	80	122	270	423	675	847	961	946	774	482	226	111	80	202	472	895	1570	2417	3378	4324	5098	5580	5806	5917
55	38	60	162	283	520	697	806	791	624	331	135	58	38	98	260	543	1063	1760	2566	3357	3981	4312	4447	4505
60	11	26	77	166	366	547	651	636	475	203	67	28	11	37	114	280	646	1193	1844	2480	2955	3158	3225	3253
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	160	212	352	469	662	788	867	860	728	518	315	194	160	372	724	1193	1855	2643	3510	4370	5098	5616	5931	6125

(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