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: SCOTTSBORO, AL **COOP ID: 017304**

Climate Division: AL 2 **NWS Call Sign:** **Elevation: 615 Feet** **Lat: 34˚48N** **Lon: 86˚03W**

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	49.8	28.3	39.1	81	1949	11	48.5	1974	-10	1940	26	26.8	1977	805	0	.0	.0	15.9	1.9	20.2	.3
Feb	54.9	31.0	43.0	82	1989	15	49.6	1990	-8	1966	1	35.0	1980	618	0	.0	.0	18.8	.8	16.8	.0
Mar	63.8	38.3	51.1	90	1929	25	59.3	1989	8	1993	14	44.8	1971	441	8	.0	.0	27.3	.1	9.3	.0
Apr	72.3	45.1	58.7	92	1943	30	64.1	1981	23+	1992	3	54.7	1983	207	17	.0	.1	29.7	.0	2.5	.0
May	80.0	54.5	67.3	97	1941	29	73.7	1987	32	1971	4	62.1	1997	66	135	.0	1.8	31.0	.0	.1	.0
Jun	86.9	62.9	74.9	107+	1931	29	77.6+	1998	39	1956	3	71.1	1974	2	299	.2	9.9	30.0	.0	.0	.0
Jul	90.3	66.8	78.6	109	1930	13	81.8	1993	49+	1963	10	76.0+	1984	0	421	.6	18.4	31.0	.0	.0	.0
Aug	89.9	65.4	77.7	105+	1954	16	81.4	1983	46	1982	23	74.4	1992	0	392	.5	16.9	31.0	.0	.0	.0
Sep	84.3	58.6	71.5	105+	1954	6	76.1	1978	36+	1940	27	67.0	1975	21	215	.0	6.9	30.0	.0	.0	.0
Oct	74.3	45.6	60.0	96	1954	5	66.4	1984	20	1968	26	52.9	1988	207	50	.0	.3	30.9	.0	2.8	.0
Nov	63.2	37.1	50.2	85+	2000	2	58.8	1985	1	1950	25	41.5	1976	450	4	.0	.0	27.0	@	11.6	.0
Dec	53.6	30.5	42.1	80	1951	7	50.5	1971	-1	1983	25	32.7	1989	712	0	.0	.0	20.7	.8	18.8	.1
Ann	71.9	47.0	59.5	109	Jul 1930	13	81.8	Jul 1993	-10	Jan 1940	26	26.8	Jan 1977	3529	1541	1.3	54.3	323.3	3.6	82.1	.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: 1927-2001

(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	6.01	6.23	4.12	1937	2	10.92	1996	.84	1986
Feb	5.22	4.69	4.10	1995	16	9.60	1990	.77	1978
Mar	6.52	5.44	4.88	1973	16	16.48	1980	2.28	1982
Apr	4.52	4.36	3.72	1963	29	9.57	2000	1.22	1976
May	5.02	4.81	5.00	1997	3	9.81	1983	1.27	1992
Jun	4.38	3.89	3.72	1941	29	9.08	1989	.65	1988
Jul	4.53	4.85	3.43	1941	22	7.59	1984	1.32	1980
Aug	3.43	2.94	4.39	2001	11	7.70	1985	.74	1999
Sep	4.81	4.55	4.92	1979	28	10.99	1977	.95	1984
Oct	3.61	2.75	4.70	1997	26	8.06	1984	.36	1991
Nov	4.98	4.42	4.90	1927	17	11.43	1977	1.52	1971
Dec	5.65	4.60	6.80	1990	23	14.73	1990	1.34	1980
Ann	58.68	56.99	6.80	Dec 1990	23	16.48	Mar 1980	.36	Oct 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	8.3	4.4	2.1
Feb	8.6	6.9	3.7	2.0
Mar	10.6	8.6	4.4	2.0
Apr	8.5	6.9	3.1	1.3
May	8.9	6.9	3.6	1.5
Jun	8.9	7.1	2.8	1.3
Jul	8.6	6.9	3.2	1.3
Aug	6.7	4.7	1.9	.9
Sep	7.6	6.1	3.1	1.6
Oct	6.3	5.1	2.4	1.1
Nov	8.5	6.6	3.1	1.9
Dec	9.6	8.0	3.9	1.6
Ann	103.3	82.1	39.6	18.6

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	2.08	2.65	3.48	4.17	4.84	5.53	6.28	7.15	8.27	10.01	11.60
Feb	1.81	2.30	3.02	3.62	4.20	4.80	5.45	6.20	7.17	8.67	10.06
Mar	2.18	2.80	3.71	4.47	5.21	5.97	6.81	7.78	9.03	10.96	12.74
Apr	1.53	1.96	2.58	3.11	3.62	4.14	4.71	5.38	6.23	7.56	8.78
May	1.85	2.32	3.00	3.56	4.10	4.65	5.25	5.95	6.84	8.20	9.46
Jun	1.38	1.80	2.41	2.94	3.45	3.98	4.56	5.23	6.11	7.47	8.74
Jul	1.82	2.23	2.82	3.31	3.77	4.24	4.74	5.32	6.06	7.19	8.22
Aug	1.14	1.47	1.94	2.35	2.74	3.14	3.57	4.08	4.74	5.76	6.69
Sep	.89	1.32	2.02	2.68	3.34	4.06	4.88	5.86	7.17	9.28	11.29
Oct	.63	.95	1.48	1.97	2.48	3.02	3.65	4.40	5.41	7.04	8.59
Nov	1.87	2.34	3.01	3.56	4.09	4.63	5.21	5.89	6.75	8.08	9.30
Dec	1.75	2.29	3.08	3.77	4.43	5.12	5.87	6.76	7.91	9.69	11.34
Ann	44.40	47.23	50.82	53.51	55.89	58.18	60.53	63.12	66.23	70.71	74.56

\+ 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: 1927-2001
(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	0	0	9.0	1988	6	9.0	1988	0	0	0	0	0	.2	.2	.1	.1	.0	.0	.0	.0	.0
Feb	.2	.0	#	0	2.0	1995	7	2.0	1995	1	1996	3	#	1996	.1	.1	.0	.0	.0	@	.0	.0	.0
Mar	1.0	.0	0	0	12.0	1993	13	12.0	1993	0	0	0	0	0	.2	.1	.1	.1	.1	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	#	1995	5	#	1995	#	1995	5	#	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1989	25	#+	1989	#	1996	20	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	2.2	.0	N/A	N/A	12.0	Mar 1993	13	12.0	Mar 1993	1	Feb 1996	3	#+	Dec 1996	.5	.4	.2	.2	.1	@	.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	5/07	5/02	4/28	4/24	4/21	4/18	4/15	4/11	4/05
32	4/26	4/21	4/16	4/13	4/10	4/07	4/03	3/30	3/24
28	4/11	4/05	4/01	3/29	3/26	3/22	3/19	3/15	3/09
24	3/25	3/18	3/13	3/09	3/05	3/01	2/25	2/20	2/14
20	3/14	3/07	3/01	2/25	2/20	2/16	2/11	2/05	1/29
16	3/06	2/25	2/18	2/12	2/06	1/31	1/25	1/16	1/01

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	10/04	10/08	10/11	10/14	10/16	10/19	10/21	10/24	10/29
32	10/07	10/13	10/17	10/20	10/23	10/27	10/30	11/03	11/08
28	10/19	10/25	10/29	11/02	11/05	11/09	11/12	11/17	11/23
24	11/06	11/11	11/14	11/18	11/20	11/23	11/26	11/30	12/05
20	11/12	11/23	11/30	12/07	12/13	12/19	12/25	1/02	1/12
16	11/26	12/05	12/11	12/16	12/21	12/26	1/01	1/09	1/22

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	199	191	186	181	177	173	168	163	156
32	218	210	205	200	196	192	187	182	174
28	246	238	233	228	224	220	215	209	202
24	280	273	268	263	259	255	251	246	239
20	334	319	309	301	294	286	279	270	257
16	>365	354	335	324	316	308	300	291	279

***** 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	805	618	441	207	66	2	0	0	21	207	450	712	3529
60	653	479	304	102	21	0	0	0	5	115	315	565	2559
57	567	399	233	59	9	0	0	0	2	74	242	478	2063
55	509	348	192	38	5	0	0	0	1	53	199	422	1767
50	373	228	108	9	0	0	0	0	0	19	112	295	1144
32	61	13	2	0	0	0	0	0	0	0	2	35	113

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	279	319	592	800	1092	1287	1444	1415	1184	866	546	347	10171
55	14	10	70	147	384	597	731	702	494	206	53	20	3428
57	10	5	49	109	326	537	669	640	435	165	36	14	2995
60	3	1	27	62	245	447	576	547	348	113	19	8	2396
65	0	0	8	17	135	299	421	392	215	50	4	0	1541
70	0	0	0	2	59	162	266	242	108	17	0	0	856

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	111	177	373	569	839	1055	1205	1175	953	623	329	162	111	288	661	1230	2069	3124	4329	5504	6457	7080	7409	7571
45	56	99	243	425	684	905	1050	1020	803	471	213	83	56	155	398	823	1507	2412	3462	4482	5285	5756	5969	6052
50	26	47	139	289	529	755	895	865	653	322	123	43	26	73	212	501	1030	1785	2680	3545	4198	4520	4643	4686
55	4	19	69	171	377	605	740	710	503	198	57	17	4	23	92	263	640	1245	1985	2695	3198	3396	3453	3470
60	0	1	29	88	242	456	585	555	359	102	20	2	0	1	30	118	360	816	1401	1956	2315	2417	2437	2439
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	76	127	246	372	550	718	822	798	632	419	226	110	76	203	449	821	1371	2089	2911	3709	4341	4760	4986	5096

(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