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: FRISCO CITY 3 SSW, AL **COOP ID: 013105**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 275 Feet** **Lat: 31˚23N** **Lon: 87˚25W**

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	57.8	36.4	47.1	85	1949	12	58.4	1974	0	1985	21	36.7	1977	567	0	.0	.0	24.6	.2	11.7	@
Feb	61.9	38.9	50.4	84+	1989	16	56.6	1990	9	1951	3	40.6	1978	411	2	.0	.0	24.6	.2	8.2	.0
Mar	69.6	46.0	57.8	88+	1982	20	63.4	1997	18	1980	3	52.2	1996	248	26	.0	.0	30.3	.0	2.6	.0
Apr	75.9	52.4	64.2	93+	1987	22	69.1	1999	30+	1987	5	60.6	1993	84	59	.0	.2	29.9	.0	.2	.0
May	83.3	60.9	72.1	100	1953	29	76.2	2000	40+	1971	4	67.5	1976	10	230	.0	4.1	31.0	.0	.0	.0
Jun	88.3	67.4	77.9	105+	1969	30	82.0	1998	49+	1985	13	75.0	1997	0	386	.1	13.7	30.0	.0	.0	.0
Jul	90.7	69.9	80.3	106	1952	25	83.2	2000	55	1967	15	77.4	1994	0	475	.3	20.4	31.0	.0	.0	.0
Aug	90.2	69.0	79.6	107	1954	14	82.3	1990	55	1956	22	77.1	1992	0	453	.2	18.9	31.0	.0	.0	.0
Sep	86.6	64.7	75.7	105	1954	9	80.0	1972	38	1967	29	70.1	1981	3	322	@	10.0	30.0	.0	.0	.0
Oct	77.8	53.4	65.6	102	1954	6	71.9	1984	30+	1957	28	60.0	1987	91	110	.0	.8	31.0	.0	.1	.0
Nov	68.9	45.0	57.0	89	1984	3	64.3	1985	15	1950	25	48.3	1976	270	27	.0	.0	29.2	.0	3.7	.0
Dec	60.7	38.7	49.7	82+	1972	11	59.7	1971	5+	1983	25	42.2	1989	485	11	.0	.0	26.7	.2	9.3	.0
Ann	76.0	53.6	64.8	107	Aug 1954	14	83.2	Jul 2000	0	Jan 1985	21	36.7	Jan 1977	2169	2101	.6	68.1	349.3	.6	35.8	@

\+ 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: 1948-2000

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

Issue Date: February 2004

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: FRISCO CITY 3 SSW, AL **COOP ID: 013105**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 275 Feet** **Lat: 31˚23N** **Lon: 87˚25W**

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	5.90	5.93	6.46	1965	23	10.29	1991	1.22	1981
Feb	5.52	5.19	7.30	1961	25	9.69	1992	.95	1999
Mar	6.37	6.29	5.69	1990	16	11.20	1973	3.23	1985
Apr	4.81	3.77	10.26	1975	10	13.90	1975	.70	1981
May	5.64	5.76	5.20	1984	3	16.12	1978	.00	2000
Jun	5.36	5.05	3.80+	1996	15	11.54	1994	1.60	1998
Jul	5.61	5.12	5.35	1975	31	12.72	1985	1.20	2000
Aug	4.64	4.30	3.80	1984	2	10.95	1984	1.73	1989
Sep	4.69	3.60	10.61	1974	8	13.89	1974	.15	1984
Oct	2.55	2.18	7.61	1965	1	8.42	1985	.00+	2000
Nov	4.82	4.48	4.40	2000	6	15.02	1992	1.30	1990
Dec	4.87	4.17	6.90	1953	4	9.79	1971	1.35	1980
Ann	60.78	60.87	10.61	Sep 1974	8	16.12	May 1978	.00+	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.8	7.6	4.2	2.0
Feb	7.3	6.5	3.5	1.8
Mar	8.1	7.2	4.0	2.4
Apr	6.1	5.3	3.1	1.6
May	7.1	6.4	3.1	1.9
Jun	8.9	7.7	3.9	1.9
Jul	10.0	8.6	4.0	1.8
Aug	8.7	7.1	2.9	1.1
Sep	7.0	5.6	2.8	1.4
Oct	4.1	3.6	1.8	.9
Nov	6.7	5.9	3.3	1.8
Dec	7.0	5.9	3.3	1.8
Ann	89.8	77.4	39.9	20.4

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	2.00	2.56	3.38	4.07	4.73	5.41	6.16	7.03	8.15	9.88	11.47
Feb	1.70	2.23	3.01	3.68	4.33	5.00	5.74	6.61	7.73	9.48	11.10
Mar	3.12	3.67	4.41	5.00	5.55	6.09	6.68	7.34	8.17	9.41	10.53
Apr	.93	1.36	2.06	2.71	3.37	4.08	4.89	5.86	7.14	9.21	11.17
May	.57	1.24	2.18	3.00	3.83	4.73	5.74	6.97	8.60	11.22	13.73
Jun	1.90	2.40	3.14	3.75	4.34	4.94	5.60	6.36	7.34	8.85	10.24
Jul	1.49	2.02	2.83	3.54	4.24	4.98	5.80	6.76	8.03	10.00	11.86
Aug	1.53	1.97	2.61	3.16	3.69	4.24	4.84	5.54	6.44	7.83	9.12
Sep	.70	1.09	1.77	2.42	3.10	3.83	4.69	5.73	7.13	9.40	11.59
Oct	.00	.21	.63	1.03	1.45	1.93	2.49	3.17	4.11	5.69	7.22
Nov	1.20	1.65	2.35	2.98	3.59	4.25	4.97	5.83	6.96	8.75	10.42
Dec	1.66	2.12	2.79	3.36	3.91	4.47	5.08	5.80	6.71	8.13	9.44
Ann	46.23	49.12	52.78	55.54	57.96	60.29	62.68	65.31	68.48	73.04	76.95

\+ 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: 1948-2000
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: FRISCO CITY 3 SSW, AL **COOP ID: 013105**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 275 Feet** **Lat: 31°23N** **Lon: 87°25W**

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	.4	.0	0	0	4.0	1977	31	7.5	1977	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	2.0	1973	10	3.0	1973	3	1973	10	#	1973	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	.2	.0	#	0	4.0	1993	13	4.0	1993	1	1975	4	#	1975	.1	.1	.1	.0	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	4.0	1993	23	4.0	1993	#	1973	21	#	1973	.1	.1	.1	.0	.0	.0	.0	.0	.0
Ann	.9	.0	N/A	N/A	4.0+	Dec 1993	23	7.5	Jan 1977	3	Feb 1973	10	#+	Mar 1975	.4	.4	.3	.0	.0	@	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: FRISCO CITY 3 SSW, AL **COOP ID: 013105**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 275 Feet** **Lat: 31˚23N** **Lon: 87˚25W**

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	4/12	4/06	4/01	3/28	3/24	3/21	3/17	3/12	3/06
32	3/31	3/25	3/21	3/17	3/13	3/10	3/06	3/02	2/23
28	3/18	3/10	3/04	2/27	2/23	2/18	2/13	2/07	1/31
24	3/06	2/25	2/19	2/13	2/08	2/03	1/29	1/23	1/14
20	2/27	2/17	2/10	2/04	1/28	1/21	1/11	0/00	0/00
16	2/02	1/25	1/18	1/10	12/29	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	10/24	10/29	11/02	11/05	11/08	11/11	11/14	11/18	11/23
32	11/02	11/08	11/12	11/15	11/18	11/22	11/25	11/29	12/05
28	11/08	11/18	11/25	12/01	12/07	12/13	12/19	12/26	1/05
24	11/24	12/03	12/10	12/16	12/21	12/27	1/02	1/09	1/18
20	12/05	12/18	12/28	1/06	1/14	1/24	2/06	0/00	0/00
16	12/24	1/02	1/10	1/19	2/02	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	251	243	237	232	228	223	219	213	205
32	275	266	260	254	249	244	239	233	224
28	318	305	297	290	284	278	271	264	254
24	>365	337	326	318	311	305	298	290	279
20	>365	>365	>365	>365	351	334	324	314	303
16	>365	>365	>365	>365	>365	>365	>365	>365	343

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: FRISCO CITY 3 SSW, AL **COOP ID: 013105**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 275 Feet** **Lat: 31˚23N** **Lon: 87˚25W**

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	567	411	248	84	10	0	0	0	3	91	270	485	2169
60	428	283	142	26	1	0	0	0	0	36	165	347	1428
57	352	213	94	9	0	0	0	0	0	18	115	274	1075
55	306	173	68	5	0	0	0	0	0	10	87	231	880
50	210	94	24	0	0	0	0	0	0	2	37	144	511
32	21	1	0	0	0	0	0	0	0	0	0	6	28

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	489	516	801	965	1243	1376	1498	1476	1310	1042	748	555	12019
55	62	44	155	279	530	686	785	763	620	339	145	67	4475
57	46	29	120	224	468	626	723	701	560	285	113	48	3943
60	29	14	75	151	376	536	630	608	470	210	72	28	3199
65	0	2	26	59	230	386	475	453	322	110	27	11	2101
70	0	0	7	13	112	237	320	298	187	44	9	0	1227

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	286	348	581	747	1008	1149	1255	1240	1077	810	525	345	286	634	1215	1962	2970	4119	5374	6614	7691	8501	9026	9371
45	175	235	431	597	853	999	1100	1085	927	655	381	225	175	410	841	1438	2291	3290	4390	5475	6402	7057	7438	7663
50	96	139	290	448	698	849	945	930	777	502	254	129	96	235	525	973	1671	2520	3465	4395	5172	5674	5928	6057
55	44	69	173	306	543	699	790	775	627	353	152	72	44	113	286	592	1135	1834	2624	3399	4026	4379	4531	4603
60	20	29	87	178	390	549	635	620	478	216	76	33	20	49	136	314	704	1253	1888	2508	2986	3202	3278	3311
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	175	219	361	475	688	794	868	860	741	527	331	215	175	394	755	1230	1918	2712	3580	4440	5181	5708	6039	6254

(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