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: ANNISTON METRO AP, AL **COOP ID: 010272**

Climate Division: AL 4 **NWS Call Sign: ANB** **Elevation: 594 Feet** **Lat: 33˚35N** **Lon: 85˚51W**

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	53.3	33.3	43.3	80+	1950	25	54.6	1974	-5	1985	21	32.1	1977	675	0	.0	.0	19.4	.8	15.8	.1
Feb	58.7	35.9	47.3	84+	1996	23	55.2	1990	4	1958	17	38.8	1978	496	0	.0	.0	21.7	.5	11.5	.0
Mar	66.8	43.0	54.9	89+	1974	9	60.7	1997	12	1993	14	48.5	1971	327	13	.0	.0	28.9	.1	4.5	.0
Apr	74.0	49.3	61.7	93	1955	17	67.3	1981	27	1987	1	57.2	1983	139	38	.0	.2	30.0	.0	.7	.0
May	80.5	58.3	69.4	98	1962	16	73.4	1998	34	1960	13	65.0	1976	34	171	.0	2.4	31.0	.0	.0	.0
Jun	87.0	66.1	76.6	102+	1954	27	80.6	1998	42	1972	1	73.1	1974	1	346	.2	11.7	30.0	.0	.0	.0
Jul	90.1	70.0	80.1	105	1980	13	83.2	1980	50	1967	15	77.7	1975	0	467	.9	18.9	31.0	.0	.0	.0
Aug	89.8	69.2	79.5	106	1983	21	82.9	1995	50	1952	28	76.6	1992	0	449	.7	16.9	31.0	.0	.0	.0
Sep	84.4	63.2	73.8	101+	1957	1	78.2	1998	34	1967	30	70.3	1975	7	270	.0	6.5	30.0	.0	.0	.0
Oct	75.0	50.7	62.9	99	1954	5	69.6	1984	22	1952	30	57.2	1987	137	71	.0	.2	30.9	.0	.6	.0
Nov	64.8	42.0	53.4	88	1974	2	61.9	1985	5	1950	25	45.2	1976	359	10	.0	.0	28.1	.0	7.0	.0
Dec	56.5	35.7	46.1	80	1951	7	54.3	1971	1	1962	13	38.4	2000	588	1	.0	.0	22.9	.4	13.5	.0
Ann	73.4	51.4	62.4	106	Aug 1983	21	83.2	Jul 1980	-5	Jan 1985	21	32.1	Jan 1977	2763	1836	1.8	56.8	334.9	1.8	53.6	.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: 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	5.34	5.35	5.07	1972	4	12.69	1972	.95	1986
Feb	4.80	4.70	3.40	1982	2	8.99	1990	1.19	1978
Mar	6.28	5.52	7.96	1977	29	18.09	1977	1.38	1985
Apr	4.87	4.75	6.15	1963	29	17.30	1979	.17	1986
May	4.16	3.65	3.32	1983	19	8.59	1983	1.81	1977
Jun	4.14	3.73	3.60	1950	4	9.27	1982	.00	1988
Jul	4.49	4.41	5.13	1975	7	12.21	1975	.79	1983
Aug	3.35	2.91	5.57	1967	24	7.54	1974	.50	1983
Sep	3.32	3.15	3.99	1995	21	7.22	1975	.33	1984
Oct	2.87	2.53	3.96	1977	8	9.35	1995	.15	1978
Nov	4.20	4.04	3.21	1948	28	10.32	1992	1.03	1980
Dec	4.11	3.78	4.11	1951	20	10.32	1983	.71	1980
Ann	51.93	51.58	7.96	Mar 1977	29	18.09	Mar 1977	.00	Jun 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	7.7	3.7	1.5
Feb	8.6	6.4	3.4	1.4
Mar	10.7	7.8	4.3	2.2
Apr	8.3	6.5	3.4	1.4
May	9.0	6.8	2.8	1.1
Jun	8.9	6.6	2.8	1.2
Jul	10.7	7.3	2.8	1.0
Aug	8.1	5.4	2.1	.9
Sep	7.7	4.9	2.2	.9
Oct	5.6	4.1	2.0	.7
Nov	8.9	6.1	3.0	1.5
Dec	9.1	6.8	3.1	1.1
Ann	106.3	76.4	35.6	14.9

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	1.94	2.45	3.17	3.78	4.35	4.94	5.59	6.33	7.29	8.76	10.10
Feb	1.64	2.09	2.76	3.32	3.85	4.41	5.01	5.71	6.62	8.01	9.30
Mar	1.65	2.24	3.15	3.95	4.74	5.57	6.49	7.58	9.00	11.25	13.34
Apr	.82	1.24	1.95	2.62	3.31	4.05	4.91	5.94	7.32	9.56	11.70
May	1.59	1.97	2.53	2.99	3.42	3.87	4.35	4.91	5.63	6.72	7.72
Jun	.54	1.07	1.77	2.36	2.95	3.57	4.27	5.10	6.20	7.96	9.62
Jul	1.32	1.74	2.39	2.94	3.48	4.04	4.67	5.40	6.35	7.83	9.21
Aug	.82	1.13	1.62	2.06	2.49	2.94	3.45	4.06	4.85	6.11	7.29
Sep	.63	.92	1.41	1.86	2.32	2.81	3.37	4.05	4.95	6.39	7.76
Oct	.42	.66	1.08	1.47	1.89	2.34	2.86	3.50	4.36	5.76	7.10
Nov	1.43	1.82	2.40	2.90	3.37	3.85	4.38	5.00	5.80	7.03	8.16
Dec	1.19	1.58	2.17	2.68	3.18	3.70	4.27	4.94	5.82	7.19	8.46
Ann	36.14	39.18	43.08	46.05	48.69	51.25	53.90	56.84	60.41	65.59	70.09

\+ 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	.7	.0	#	0	4.3	1992	18	5.0	1987	4	1992	19	#	1996	.5	.3	.1	.0	.0	.4	.1	.0	.0
Feb	.4	.0	#	0	4.5	1998	4	4.5	1998	2	1979	18	#	1985	.2	.1	.1	.0	.0	.1	.0	.0	.0
Mar	.5	.0	#	0	11.2	1993	13	13.0	1993	8	1993	14	1	1993	.1	.1	@	@	@	.1	.1	.1	.0
Apr	.1	.0	#	0	2.8	1987	3	2.8	1987	3	1987	3	#	1987	.0	.0	.0	.0	.0	@	@	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1996	.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	#	1993	31	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1995	5	#+	1995	#	1975	23	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	#	#	0	.5	1973	20	.5	1973	1	1973	21	#	1973	.1	.0	.0	.0	.0	@	.0	.0	.0
Ann	1.7	#	N/A	N/A	11.2	Mar 1993	13	13.0	Mar 1993	8	Mar 1993	14	1	Mar 1993	.9	.5	.2	@	@	.6	.2	.1	.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	4/22	4/18	4/15	4/12	4/10	4/07	4/05	4/01	3/28
32	4/14	4/08	4/03	3/30	3/27	3/23	3/19	3/15	3/08
28	3/29	3/22	3/17	3/13	3/09	3/05	3/01	2/24	2/17
24	3/11	3/04	2/27	2/23	2/19	2/15	2/11	2/06	1/30
20	3/06	2/26	2/19	2/14	2/09	2/04	1/29	1/23	1/14
16	2/21	2/12	2/05	1/30	1/25	1/19	1/11	1/01	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	10/08	10/13	10/17	10/20	10/24	10/27	10/30	11/03	11/08
32	10/19	10/24	10/28	10/30	11/02	11/05	11/08	11/11	11/16
28	11/03	11/08	11/12	11/15	11/18	11/21	11/25	11/29	12/04
24	11/16	11/24	11/30	12/05	12/10	12/15	12/20	12/25	1/03
20	11/25	12/04	12/11	12/17	12/22	12/28	1/02	1/09	1/18
16	12/10	12/23	1/01	1/09	1/16	1/25	2/03	2/18	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	212	206	203	199	196	193	190	186	181
32	244	236	230	225	220	215	210	204	196
28	278	270	264	259	254	249	244	238	230
24	321	311	304	299	293	288	282	275	266
20	358	339	329	321	313	306	299	290	279
16	>365	>365	>365	>365	359	344	333	323	310

***** 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	675	496	327	139	34	1	0	0	7	137	359	588	2763
60	531	362	202	58	8	0	0	0	1	64	232	445	1903
57	447	285	143	28	2	0	0	0	0	35	169	362	1471
55	394	237	110	16	1	0	0	0	0	22	134	311	1225
50	276	139	47	3	0	0	0	0	0	6	64	202	737
32	34	3	0	0	0	0	0	0	0	0	0	14	51

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	386	431	710	890	1160	1336	1490	1472	1253	957	642	450	11177
55	32	21	106	215	447	646	777	759	563	266	85	34	3951
57	23	13	77	168	387	586	715	697	503	217	61	23	3470
60	14	6	43	108	299	496	622	604	414	152	33	13	2804
65	0	0	13	38	171	346	467	449	270	71	10	1	1836
70	0	0	2	9	78	203	312	294	146	24	1	0	1069

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	186	258	470	661	926	1111	1252	1227	1018	711	413	242	186	444	914	1575	2501	3612	4864	6091	7109	7820	8233	8475
45	100	157	329	511	771	961	1097	1072	868	557	281	139	100	257	586	1097	1868	2829	3926	4998	5866	6423	6704	6843
50	49	84	211	366	616	811	942	917	718	405	172	73	49	133	344	710	1326	2137	3079	3996	4714	5119	5291	5364
55	24	39	114	236	461	661	787	762	568	264	93	39	24	63	177	413	874	1535	2322	3084	3652	3916	4009	4048
60	0	10	54	126	312	511	632	607	419	147	39	13	0	10	64	190	502	1013	1645	2252	2671	2818	2857	2870
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	106	163	293	419	615	760	863	851	691	460	257	148	106	269	562	981	1596	2356	3219	4070	4761	5221	5478	5626

(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