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: CLANTON, AL **COOP ID: 011694**

Climate Division: AL 3 **NWS Call Sign:** **Elevation: 610 Feet** **Lat: 32˚49N** **Lon: 86˚39W**

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	53.5	32.0	42.8	84	1949	12	53.5	1974	-4	1985	21	32.1	1977	692	0	.0	.0	20.6	.8	17.7	.1
Feb	58.6	34.6	46.6	84	1962	14	53.1	1990	5	1996	5	37.7	1978	515	0	.0	.0	21.7	.3	13.0	.0
Mar	67.2	41.8	54.5	93	1929	25	60.5	1997	10	1993	14	49.4	1971	337	13	.0	.0	29.3	.1	5.5	.0
Apr	74.7	47.9	61.3	93+	1943	30	66.3	1999	26	1940	13	56.8	1983	143	31	.0	.1	29.9	.0	.9	.0
May	81.3	57.1	69.2	99+	1945	31	73.0	2000	33	1960	13	63.8	1976	32	163	.0	2.2	31.0	.0	.0	.0
Jun	87.3	64.7	76.0	106	1936	19	79.5	1981	42	1956	3	72.6	1974	0	331	.2	11.5	30.0	.0	.0	.0
Jul	89.8	68.6	79.2	108+	1952	26	81.8	1995	53	1967	15	76.2	1975	0	440	.6	18.8	31.0	.0	.0	.0
Aug	89.1	67.4	78.3	105	1935	8	83.0	1995	51	1957	24	75.2	1992	0	410	.7	17.9	31.0	.0	.0	.0
Sep	84.3	61.6	73.0	101+	1980	16	77.0	1972	36	1967	30	69.4	1975	9	248	.1	7.8	30.0	.0	.0	.0
Oct	74.9	49.1	62.0	98	1954	6	68.2	1984	24+	1957	29	56.5	1987	157	64	.0	.4	30.9	.0	.5	.0
Nov	65.2	40.7	53.0	88	1935	1	60.7	1985	8	1950	25	44.8	1976	369	9	.0	.0	28.4	.0	7.4	.0
Dec	56.1	34.3	45.2	80+	1978	9	55.0	1971	2	1962	13	36.3	1989	613	1	.0	.0	23.6	.4	15.2	.0
Ann	73.5	50.0	61.8	108+	Jul 1952	26	83.0	Aug 1995	-4	Jan 1985	21	32.1	Jan 1977	2867	1710	1.6	58.7	337.4	1.6	60.2	.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: 1920-2001

(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	5.98	6.36	4.64	1936	19	13.48	1972	1.15	1986
Feb	5.48	5.39	4.87	1936	4	10.22	1998	2.27	2000
Mar	6.96	6.04	6.85	1979	4	15.88	1976	2.27	1985
Apr	5.43	4.36	9.00	1938	8	22.00	1979	.12	1986
May	4.36	3.87	3.75	1946	20	13.26	1991	.57	1977
Jun	4.16	3.76	7.82	1991	26	11.82	1991	.69	1988
Jul	5.76	5.57	7.14	1940	4	13.97	1971	1.29	1995
Aug	3.73	3.36	6.75	1970	26	7.98	1974	.45	1990
Sep	4.66	3.66	5.20	1979	28	10.30	1979	.37	1990
Oct	3.14	3.18	6.30	1995	5	10.32	1995	.00	1978
Nov	4.96	4.31	5.50	1929	12	17.37	1986	.80	1981
Dec	4.96	4.90	5.10	1961	12	10.03	1983	2.20	1980
Ann	59.58	57.40	9.00	Apr 1938	8	22.00	Apr 1979	.00	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.8	8.1	4.2	1.7
Feb	8.0	6.9	3.8	2.0
Mar	9.0	7.8	4.3	2.5
Apr	6.5	5.6	3.2	1.8
May	8.6	7.2	2.7	1.2
Jun	8.6	7.1	3.0	1.4
Jul	10.6	8.6	3.7	1.6
Aug	7.9	6.2	2.1	1.1
Sep	6.1	5.2	2.5	1.7
Oct	5.2	4.1	2.1	1.0
Nov	7.4	6.3	3.2	1.6
Dec	8.5	6.9	3.4	1.4
Ann	96.2	80.0	38.2	19.0

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	2.11	2.68	3.49	4.18	4.84	5.51	6.25	7.10	8.20	9.88	11.44
Feb	2.18	2.68	3.40	3.99	4.55	5.13	5.74	6.45	7.36	8.74	10.00
Mar	2.09	2.75	3.74	4.59	5.42	6.29	7.24	8.35	9.80	12.05	14.15
Apr	.76	1.21	1.99	2.75	3.53	4.40	5.41	6.64	8.30	11.01	13.63
May	1.10	1.51	2.15	2.71	3.26	3.85	4.50	5.27	6.29	7.88	9.38
Jun	1.21	1.61	2.20	2.71	3.22	3.74	4.31	4.99	5.87	7.25	8.53
Jul	1.45	1.99	2.83	3.58	4.31	5.08	5.94	6.97	8.31	10.42	12.40
Aug	.76	1.09	1.64	2.14	2.65	3.19	3.80	4.53	5.50	7.06	8.53
Sep	.76	1.16	1.84	2.48	3.14	3.86	4.69	5.69	7.04	9.22	11.31
Oct	.37	.75	1.28	1.73	2.19	2.67	3.22	3.88	4.75	6.14	7.46
Nov	1.22	1.69	2.41	3.06	3.69	4.36	5.11	6.01	7.17	9.02	10.75
Dec	2.25	2.68	3.29	3.78	4.24	4.71	5.20	5.77	6.48	7.56	8.53
Ann	42.95	46.19	50.33	53.47	56.25	58.94	61.71	64.77	68.47	73.84	78.47

\+ 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: 1920-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	.4	.0	#	0
Feb	#	.0	#	0
Mar	.8	.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	.0	.0	0	0
Ann	1.2	.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	4.0	1977	31	6.0	1977	4	1977	31	#	1977
Feb	#	1985	11	#+	1985	#	1971	13	#	1971
Mar	10.0	1993	13	10.0	1993	3	1983	24	#	1983
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	.5	1980	27	.5	1980	0	0	0	0	0
Ann	10.0	Mar 1993	13	10.0	Mar 1993	4	Jan 1977	31	#+	Mar 1983

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.2	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.2	.2	.1	.1	.1
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	.1	.0	.0	.0	.0
Ann	.5	.4	.2	.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	.0	.0
Feb	.0	.0	.0	.0
Mar	@	@	.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	.0	.0	.0	.0
Ann	@	@	.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	4/27	4/21	4/17	4/14	4/11	4/08	4/04	3/31	3/26
32	4/14	4/09	4/06	4/03	3/31	3/28	3/25	3/21	3/16
28	3/29	3/22	3/17	3/12	3/08	3/04	2/28	2/23	2/16
24	3/10	3/03	2/26	2/22	2/18	2/14	2/10	2/05	1/30
20	3/06	2/26	2/20	2/14	2/10	2/05	1/30	1/24	1/13
16	2/26	2/16	2/08	2/02	1/26	1/19	1/10	12/25	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	10/06	10/12	10/15	10/18	10/21	10/24	10/28	10/31	11/06
32	10/23	10/28	10/31	11/03	11/06	11/09	11/12	11/16	11/20
28	11/04	11/10	11/14	11/17	11/21	11/24	11/27	12/02	12/07
24	11/17	11/26	12/03	12/09	12/14	12/19	12/25	12/31	1/10
20	11/27	12/08	12/17	12/24	12/31	1/07	1/15	1/24	2/07
16	12/11	12/23	12/31	1/08	1/15	1/23	2/02	2/21	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	205	201	197	193	189	185	181	174
32	240	233	228	224	220	216	212	207	200
28	281	273	267	262	257	252	247	241	232
24	323	313	306	301	296	291	286	280	272
20	>365	358	338	327	319	311	302	293	281
16	>365	>365	>365	>365	>365	345	333	321	307

***** 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	692	515	337	143	32	0	0	0	9	157	369	613	2867
60	548	377	210	59	7	0	0	0	1	77	239	471	1989
57	463	300	150	29	2	0	0	0	0	45	175	389	1553
55	409	251	116	16	0	0	0	0	0	29	138	337	1296
50	289	147	51	3	0	0	0	0	0	8	67	226	791
32	38	3	0	0	0	0	0	0	0	0	0	20	61

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	372	412	699	878	1154	1320	1463	1433	1229	931	629	431	10951
55	30	16	102	204	441	630	750	720	539	247	78	34	3791
57	21	10	74	157	381	570	688	658	479	201	54	24	3317
60	13	3	41	97	292	480	595	565	390	140	29	14	2659
65	0	0	13	31	163	331	440	410	248	64	9	1	1710
70	0	0	2	6	71	187	285	256	127	22	0	0	956

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	181	251	473	654	921	1098	1237	1212	1014	709	418	236	181	432	905	1559	2480	3578	4815	6027	7041	7750	8168	8404
45	98	152	333	505	766	948	1082	1057	864	554	284	140	98	250	583	1088	1854	2802	3884	4941	5805	6359	6643	6783
50	47	82	211	361	611	798	927	902	714	403	175	76	47	129	340	701	1312	2110	3037	3939	4653	5056	5231	5307
55	22	36	114	228	457	648	772	747	564	262	95	36	22	58	172	400	857	1505	2277	3024	3588	3850	3945	3981
60	0	12	51	121	305	498	617	592	414	145	41	13	0	12	63	184	489	987	1604	2196	2610	2755	2796	2809
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	111	166	303	420	613	753	849	830	685	462	277	151	111	277	580	1000	1613	2366	3215	4045	4730	5192	5469	5620

(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