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: HEFLIN, AL **COOP ID: 013775**

Climate Division: AL 5 **NWS Call Sign:** **Elevation: 850 Feet** **Lat: 33˚39N** **Lon: 85˚36W**

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	51.3	30.4	40.9	76+	1999	28	52.1	1974	-4	1966	30	29.8	1977	749	0	.0	.0	18.4	1.9	20.1	.2
Feb	56.3	32.6	44.5	80+	1996	27	51.1	1990	1	1996	5	37.2	1978	575	0	.0	.0	19.7	.7	16.6	.0
Mar	65.2	39.6	52.4	87+	1995	24	58.4	1997	8+	1993	15	47.3	1996	398	7	.0	.0	28.4	.1	9.1	.0
Apr	73.2	45.8	59.5	90+	1987	22	64.0	1981	22+	1973	11	53.5	1983	188	22	.0	.1	29.9	.0	3.2	.0
May	79.8	54.9	67.4	97	1962	21	72.5	1987	30+	1971	4	63.1	1976	62	134	.0	.9	31.0	.0	@	.0
Jun	86.4	63.5	75.0	103	1969	29	79.1	1981	38	1966	1	71.2	1997	2	301	.0	8.3	30.0	.0	.0	.0
Jul	89.8	67.9	78.9	107	1980	13	83.3	1980	47	1967	16	75.7	1994	0	429	.4	17.0	31.0	.0	.0	.0
Aug	89.0	66.6	77.8	105+	1983	21	81.6	1980	49+	1968	31	74.1	1992	0	397	.3	14.7	31.0	.0	.0	.0
Sep	83.6	60.6	72.1	100	1960	9	76.6	1973	29	1967	30	69.3	1994	12	226	.0	5.2	30.0	.0	.0	.0
Oct	74.2	47.3	60.8	91	1971	1	66.5	1984	21+	1962	26	55.3	1987	177	46	.0	.2	30.9	.0	2.6	.0
Nov	64.0	39.3	51.7	87	1974	3	59.4	1985	10+	1976	30	43.3	1976	408	7	.0	.0	27.5	.0	11.0	.0
Dec	54.6	32.9	43.8	78+	1978	9	52.7	1971	-10	1983	24	35.5	2000	660	0	.0	.0	21.6	.7	17.8	.1
Ann	72.3	48.5	60.4	107	Jul 1980	13	83.3	Jul 1980	-10	Dec 1983	24	29.8	Jan 1977	3231	1569	.7	46.4	329.4	3.4	80.4	.3

\+ 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: 1956-2001

(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	5.97	6.14	3.33	1996	27	12.54	1972	1.61	1981
Feb	5.43	5.97	5.40	1982	2	8.68	1975	1.36	1978
Mar	6.70	5.90	5.75	1970	20	15.86	1977	1.39	1985
Apr	5.01	4.32	6.05	1979	13	16.30	1979	.74	1976
May	4.69	4.49	6.43	1968	15	8.72	1973	1.35	1977
Jun	4.55	4.25	4.94	1992	9	10.88	1999	.13	1988
Jul	5.03	4.31	4.70	1976	4	10.81	1998	1.00	1993
Aug	3.16	2.97	6.50	1967	24	8.80	1984	.21	1990
Sep	3.68	3.45	3.60	1975	23	8.29	1975	.74	1984
Oct	3.26	3.30	5.30	1995	5	10.04	1995	.50	1978
Nov	4.63	4.03	3.50	2000	9	10.39	1992	1.62	1999
Dec	4.61	4.28	4.30	1983	3	12.92	1983	.91	1980
Ann	56.72	58.25	6.50	Aug 1967	24	16.30	Apr 1979	.13	Jun 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.0	8.5	4.0	1.9
Feb	9.2	6.8	3.7	1.9
Mar	9.9	7.8	4.1	2.3
Apr	8.0	6.3	3.1	1.6
May	8.6	6.6	3.3	1.5
Jun	8.6	6.4	2.9	1.6
Jul	10.2	7.5	3.3	1.2
Aug	8.2	5.6	2.1	.8
Sep	7.6	5.4	2.4	1.0
Oct	6.6	4.4	1.9	.8
Nov	8.5	6.4	3.3	1.6
Dec	10.5	7.0	3.3	1.2
Ann	107.9	78.7	37.4	17.4

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	2.69	3.22	3.95	4.55	5.11	5.66	6.26	6.95	7.81	9.12	10.30
Feb	1.95	2.47	3.20	3.82	4.41	5.02	5.68	6.45	7.42	8.94	10.32
Mar	2.14	2.77	3.71	4.52	5.29	6.09	6.98	8.01	9.34	11.41	13.32
Apr	1.11	1.57	2.30	2.97	3.63	4.34	5.13	6.08	7.33	9.32	11.20
May	1.60	2.04	2.69	3.23	3.76	4.30	4.89	5.58	6.46	7.83	9.10
Jun	.61	.97	1.62	2.25	2.92	3.65	4.51	5.55	6.97	9.29	11.53
Jul	1.52	2.00	2.71	3.33	3.92	4.54	5.23	6.03	7.07	8.69	10.19
Aug	.53	.81	1.27	1.70	2.15	2.63	3.19	3.86	4.76	6.21	7.60
Sep	1.05	1.40	1.92	2.38	2.83	3.30	3.82	4.43	5.22	6.47	7.62
Oct	.57	.86	1.34	1.78	2.24	2.73	3.29	3.97	4.88	6.34	7.74
Nov	1.69	2.12	2.75	3.27	3.77	4.29	4.84	5.49	6.32	7.59	8.76
Dec	1.37	1.81	2.46	3.03	3.58	4.15	4.79	5.53	6.49	7.99	9.39
Ann	41.59	44.55	48.33	51.18	53.70	56.14	58.65	61.41	64.75	69.58	73.75

\+ 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: 1956-2001
(3) Derived from 1971-2000 serially complete daily data

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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	1.0	.0	#	0
Feb	.2	.0	#	0
Mar	.5	.0	#	0
Apr	.2	.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
Nov	.0	.0	0	0
Dec	.2	.0	0	0
Ann	2.1	.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	6.3	1987	21	6.3	1987	2	1988	7	#+	1999
Feb	3.5	1979	21	3.5	1979	4	1979	21	#+	1998
Mar	10.0	1993	13	10.0	1993	3	1980	2	#+	1996
Apr	4.3	1987	2	4.3	1987	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	#	1993	31	#	1993	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	3.0	1997	29	3.5	1997	0	0	0	0	0
Ann	10.0	Mar 1993	13	10.0	Mar 1993	4	Feb 1979	21	#+	Jan 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.2	.2	.1	.0
Feb	.2	.1	.1	.0	.0
Mar	.1	.1	.1	.1	.1
Apr	.1	.1	.1	.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	.2	.2	.1	.0	.0
Ann	1.0	.7	.6	.2	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.1	.1	.0	.0
Mar	.0	.0	.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	.1	.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	5/14	5/08	5/04	4/30	4/26	4/23	4/19	4/15	4/09
32	4/24	4/20	4/17	4/15	4/12	4/10	4/08	4/05	4/01
28	4/15	4/10	4/05	4/02	3/30	3/27	3/23	3/19	3/14
24	4/02	3/25	3/20	3/15	3/10	3/05	3/01	2/23	2/15
20	3/15	3/07	3/01	2/24	2/19	2/15	2/10	2/04	1/27
16	3/03	2/23	2/16	2/11	2/07	2/02	1/28	1/21	1/13

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	10/03	10/07	10/10	10/12	10/14	10/16	10/18	10/21	10/24
32	10/08	10/13	10/17	10/19	10/22	10/25	10/28	10/31	11/05
28	10/21	10/26	10/30	11/02	11/05	11/08	11/11	11/15	11/20
24	11/03	11/08	11/12	11/16	11/19	11/22	11/26	11/30	12/06
20	11/11	11/21	11/28	12/04	12/09	12/15	12/21	12/28	1/07
16	12/03	12/11	12/17	12/22	12/27	1/01	1/06	1/12	1/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	185	179	174	170	165	160	154	147
32	210	204	199	196	192	188	185	180	174
28	243	235	229	224	219	214	209	203	195
24	283	273	266	259	253	248	241	234	224
20	323	311	303	296	290	284	278	271	261
16	>365	345	334	327	320	313	306	298	288

***** 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	749	575	398	188	62	2	0	0	12	177	408	660	3231
60	603	436	261	90	19	0	0	0	2	89	276	513	2289
57	516	356	192	50	8	0	0	0	0	53	207	427	1809
55	460	304	153	31	4	0	0	0	0	35	168	372	1527
50	332	186	75	6	0	0	0	0	0	10	89	251	949
32	50	6	0	0	0	0	0	0	0	0	1	23	80

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	324	354	632	824	1095	1288	1452	1420	1203	891	589	386	10458
55	21	9	72	165	386	598	739	707	513	214	67	23	3514
57	15	5	49	124	328	538	677	645	454	170	46	16	3067
60	9	0	25	75	246	448	584	552	365	112	24	9	2449
65	0	0	7	22	134	301	429	397	226	46	7	0	1569
70	0	0	0	4	57	164	274	243	111	13	0	0	866

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	133	190	387	573	835	1034	1193	1159	949	630	345	180	133	323	710	1283	2118	3152	4345	5504	6453	7083	7428	7608
45	63	105	255	426	680	884	1038	1004	799	478	226	99	63	168	423	849	1529	2413	3451	4455	5254	5732	5958	6057
50	28	49	148	290	525	734	883	849	649	333	132	50	28	77	225	515	1040	1774	2657	3506	4155	4488	4620	4670
55	3	18	76	172	372	584	728	694	499	199	61	24	3	21	97	269	641	1225	1953	2647	3146	3345	3406	3430
60	0	0	28	87	226	434	573	539	355	101	22	0	0	0	28	115	341	775	1348	1887	2242	2343	2365	2365
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	87	140	261	382	548	700	818	792	637	418	235	118	87	227	488	870	1418	2118	2936	3728	4365	4783	5018	5136

(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