

Climatology of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: CAMDEN 3 NW, AL

1971-2000

COOP ID: 011301

Climate Division: AL 7

NWS Call Sign:

Elevation: 235 Feet

Lat: 32°02N

Lon: 87°19W

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	56.4	33.8	45.1	80	1962	26	54.1	1974	0+	1985	22	35.1	1977	622	0	.0	.0	22.9	.6	15.3	.1
Feb	61.5	36.7	49.1	85+	1962	27	55.5	1990	7	1970	4	39.8	1978	448	2	.0	.0	23.5	.2	10.7	.0
Mar	70.2	44.0	57.1	89+	1982	18	64.6	1997	15	1993	14	50.6	1971	267	22	.0	.0	29.9	.0	3.6	.0
Apr	76.9	50.2	63.6	94	1987	22	69.3	1999	26	1973	11	59.4	1973	105	62	.0	.3	29.9	.0	.6	.0
May	83.6	58.8	71.2	98	1962	28	76.0	2000	35	1971	4	66.1	1976	19	212	.0	4.7	31.0	.0	.0	.0
Jun	89.5	65.7	77.6	103+	1963	15	82.1	1998	44	1966	1	72.0	1974	0	379	.3	17.0	30.0	.0	.0	.0
Jul	91.9	68.6	80.3	105	2000	16	83.8	2000	52	1972	7	76.3	1972	0	473	1.0	23.2	31.0	.0	.0	.0
Aug	91.3	68.0	79.7	107	2000	19	83.9	1999	52	1968	30	76.1	1973	0	455	1.1	22.0	31.0	.0	.0	.0
Sep	87.2	62.8	75.0	102+	1980	16	79.7	1980	36	1967	30	70.1	1974	4	305	.2	13.1	30.0	.0	.0	.0
Oct	77.6	50.9	64.3	94	1990	4	70.9	1984	27	1968	26	58.7	1976	112	89	.0	1.4	31.0	.0	.4	.0
Nov	67.4	42.2	54.8	87	2000	4	62.3	1985	13	1970	25	45.9	1976	327	21	.0	.0	29.0	.0	6.2	.0
Dec	59.1	35.5	47.3	82	1998	8	56.4	1984	4	1989	24	39.4	1989	553	4	.0	.0	25.3	.3	13.6	.0
Ann	76.1	51.4	63.8	107	Aug 2000	19	83.9	Aug 1999	0+	Jan 1985	22	35.1	Jan 1977	2457	2024	2.6	81.7	344.5	1.1	50.4	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1961-2001

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

014-A

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NWS Call Sign:

Elevation: 235 Feet Lat: 32°02N

Lon: 87°19W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	6.02	5.90	6.10	1999	31	12.75	1999	1.31	1981	11.4	8.5	4.2	1.9	2.39	2.94	3.73	4.38	5.00	5.63	6.30	7.09	8.08	9.60	10.99
Feb	5.24	4.62	4.47	1982	3	9.81	1982	1.58	1999	9.4	6.6	3.8	1.8	1.89	2.38	3.09	3.69	4.26	4.84	5.48	6.22	7.16	8.62	9.96
Mar	6.53	6.26	5.65	1990	16	12.18	1976	1.87	1978	9.8	7.4	3.9	2.2	2.26	2.88	3.78	4.54	5.26	6.01	6.82	7.77	8.99	10.87	12.60
Apr	4.57	4.19	8.06	1979	3	13.63	1979	.23	1987	8.3	5.6	3.3	1.5	.97	1.39	2.06	2.67	3.28	3.93	4.67	5.56	6.73	8.59	10.36
May	4.66	4.15	3.69	1970	31	10.59	1991	.48	1988	9.3	6.5	3.0	1.6	1.20	1.63	2.31	2.91	3.50	4.12	4.81	5.62	6.69	8.38	9.96
Jun	4.29	3.76	4.25	1978	3	9.75	1989	1.04	1977	9.5	6.3	2.9	1.4	1.17	1.57	2.19	2.74	3.27	3.82	4.44	5.17	6.12	7.61	9.01
Jul	5.45	5.67	4.49	1975	31	11.49	1975	.66	2000	11.9	8.0	3.4	1.8	1.09	1.58	2.38	3.11	3.85	4.65	5.55	6.63	8.06	10.35	12.53
Aug	3.81	3.66	4.28	1995	4	7.71	1974	1.02	1990	9.6	6.2	2.3	1.0	1.04	1.41	1.96	2.44	2.91	3.40	3.95	4.59	5.43	6.75	7.98
Sep	3.71	3.24	7.90	1998	29	12.71	1998	.06	1984	8.6	5.4	2.0	.9	.57	.88	1.42	1.93	2.46	3.05	3.72	4.54	5.63	7.42	9.14
Oct	2.65	1.57	6.57	1995	5	9.87	1995	.06	1978	5.9	3.6	1.7	.6	.13	.28	.59	.94	1.35	1.84	2.43	3.19	4.27	6.11	7.96
Nov	4.93	4.18	2.96	1997	22	11.45	1986	.91	1981	8.8	6.2	3.3	1.8	1.26	1.73	2.44	3.08	3.70	4.36	5.09	5.96	7.09	8.88	10.55
Dec	5.21	5.06	9.20	1961	10	8.21	1992	1.59	1980	9.9	6.6	3.4	1.8	2.31	2.77	3.42	3.94	4.43	4.93	5.46	6.07	6.84	8.00	9.05
Ann	57.07	57.22	9.20	Dec 1961	10	13.63	Apr 1979	.06+	Sep 1984	112.4	76.9	37.2	18.3	43.40	46.12	49.56	52.15	54.43	56.62	58.87	61.34	64.32	68.60	72.28

+ 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: 1961-2001

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

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Station: CAMDEN 3 NW, AL

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Climate Division: AL 7

NWS Call Sign:

Elevation: 235 Feet

Lat: 32°02N

Lon: 87°19W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.7	1987	22	.7	1987	#	1978	20	#	1978	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.2	1984	28	.2	1984	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	0	0	6.3	1993	13	6.3	1993	0	0	0	0	0	.1	.1	.1	.1	.0	.0	.0	.0	.0
Apr	.0	.0	#	0	.0	0	0	.0	0	2	1987	3	#	1987	.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	.1	.0	0	0	1.0	1993	23	1.0	1993	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	.5	.0	N/A	N/A	6.3	Mar 1993	13	6.3	Mar 1993	2	Apr 1987	3	#+	Apr 1987	.4	.2	.1	.1	.0	.0	.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

Complete documentation available from:

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Climate Division: AL 7

NWS Call Sign:

Elevation: 235 Feet

Lat: 32°02N

Lon: 87°19W

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	4/15	4/10	4/06	4/02	3/29	3/25	3/20	3/13
32	4/05	3/30	3/26	3/22	3/19	3/16	3/12	3/08	3/02
28	3/28	3/20	3/13	3/08	3/03	2/26	2/20	2/14	2/05
24	3/11	3/02	2/24	2/19	2/14	2/09	2/04	1/28	1/18
20	3/01	2/21	2/14	2/08	2/03	1/28	1/22	1/13	0/00
16	2/12	2/03	1/26	1/19	1/11	12/28	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	10/14	10/19	10/23	10/27	10/30	11/02	11/05	11/09	11/15
32	10/25	10/31	11/04	11/08	11/12	11/15	11/19	11/23	11/29
28	11/05	11/12	11/17	11/21	11/25	11/29	12/04	12/09	12/16
24	11/16	11/26	12/04	12/11	12/17	12/23	12/30	1/07	1/20
20	12/04	12/16	12/25	1/02	1/09	1/17	1/26	2/07	0/00
16	12/15	12/27	1/05	1/14	1/24	2/11	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	241	230	223	216	210	204	198	190	179
32	263	254	248	242	237	232	226	220	211
28	301	289	281	274	267	260	253	244	233
24	>365	334	319	309	300	292	284	275	262
20	>365	>365	>365	349	334	324	315	306	294
16	>365	>365	>365	>365	>365	>365	>365	343	326

* 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:
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Climate Division: AL 7 NWS Call Sign: Elevation: 235 Feet Lat: 32°02N Lon: 87°19W

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	622	448	267	105	19	0	0	0	4	112	327	553	2457
60	477	319	156	39	3	0	0	0	0	49	212	411	1666
57	394	248	105	17	0	0	0	0	0	26	157	331	1278
55	343	206	77	9	0	0	0	0	0	16	125	282	1058
50	232	120	29	1	0	0	0	0	0	4	62	181	629
32	21	3	0	0	0	0	0	0	0	0	0	10	34

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	427	481	778	946	1215	1369	1496	1478	1291	1000	684	485	11650
55	36	40	142	265	502	679	783	765	601	303	119	44	4279
57	25	26	108	213	441	619	721	703	541	251	91	30	3769
60	15	14	66	145	350	529	628	610	451	181	56	17	3062
65	0	2	22	62	212	379	473	455	305	89	21	4	2024
70	0	0	5	17	104	234	318	302	175	32	6	0	1193

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	238	313	549	720	982	1141	1258	1243	1062	766	460	283	238	551	1100	1820	2802	3943	5201	6444	7506	8272	8732	9015
45	141	204	405	571	827	991	1103	1088	912	611	326	179	141	345	750	1321	2148	3139	4242	5330	6242	6853	7179	7358
50	76	119	271	422	672	841	948	933	762	457	211	103	76	195	466	888	1560	2401	3349	4282	5044	5501	5712	5815
55	39	60	160	286	517	691	793	778	612	312	122	54	39	99	259	545	1062	1753	2546	3324	3936	4248	4370	4424
60	11	26	81	167	364	541	638	623	464	189	56	27	11	37	118	285	649	1190	1828	2451	2915	3104	3160	3187
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	147	206	354	467	658	775	857	841	712	502	300	187	147	353	707	1174	1832	2607	3464	4305	5017	5519	5819	6006

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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