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: EUFAULA WILDLIFE REF, AL **COOP ID: 012730**

Climate Division: AL 7 **NWS Call Sign:** **Elevation: 215 Feet** **Lat: 32˚00N** **Lon: 85˚05W**

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	57.1	34.8	46.0	81	1975	30	59.2	1974	5+	1985	22	37.8	1977	599	0	.0	.0	24.3	.3	14.5	.0
Feb	61.8	37.5	49.7	82+	1989	17	57.1	1990	8	1996	5	40.9	1978	431	0	.0	.0	24.2	.2	10.6	.0
Mar	69.5	44.5	57.0	89+	1974	11	63.8	1997	17	1993	14	51.5	1971	272	24	.0	.0	30.1	@	4.1	.0
Apr	76.1	49.4	62.8	93	1985	30	67.2	1991	27	1987	1	58.4	1983	113	46	.0	.5	30.0	.0	.7	.0
May	82.8	58.4	70.6	96+	2000	29	75.0	2000	36	1971	4	66.0	1976	23	196	.0	4.2	31.0	.0	.0	.0
Jun	88.9	65.9	77.4	105+	1985	6	82.5	1998	44+	1984	1	74.3	1997	0	372	.6	16.0	30.0	.0	.0	.0
Jul	91.0	69.5	80.3	104+	1986	22	83.3	1986	55+	1970	6	77.1	1994	0	473	1.4	22.1	31.0	.0	.0	.0
Aug	90.0	68.7	79.4	103+	2000	20	82.7	1987	56+	1969	25	77.1	1976	0	445	.6	21.2	31.0	.0	.0	.0
Sep	85.8	63.6	74.7	101	1980	16	78.2	1980	33	1967	30	71.5	1983	3	293	.1	11.3	30.0	.0	.0	.0
Oct	76.7	50.8	63.8	94	1986	5	71.0	1984	26	1987	29	58.1	1976	124	84	.0	1.5	31.0	.0	.6	.0
Nov	68.0	43.0	55.5	90	1984	1	62.4	1985	14	1970	25	47.2	1976	302	16	.0	@	29.4	.0	6.1	.0
Dec	59.6	37.1	48.4	82+	1982	3	57.0	1971	8	1989	24	40.1	2000	522	6	.0	.0	26.3	.1	12.1	.0
Ann	75.6	51.9	63.8	105+	Jun 1985	6	83.3	Jul 1986	5+	Jan 1985	22	37.8	Jan 1977	2389	1955	2.7	76.8	348.3	.6	48.7	.0

+ 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: 1967-2001

(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	5.40	5.16	3.70	1978	25	10.29	1991	1.11	1981
Feb	4.59	4.55	6.75	1975	17	11.14	1975	.90	2000
Mar	6.40	5.50	11.27	1990	17	16.83	1990	2.04	1985
Apr	3.95	4.02	3.58	1973	26	10.17	1973	.64	1987
May	3.70	3.69	3.28	1969	19	8.05	1985	.12	2000
Jun	4.22	3.13	4.56	1985	19	10.33	1994	1.42	1993
Jul	5.01	4.78	5.41	1994	4	16.20	1994	.90	1980
Aug	3.52	3.29	2.84	1994	18	8.59	1978	.84	1973
Sep	3.39	2.39	4.12	1998	30	12.85	1998	.10	1978
Oct	2.93	1.99	5.15	1993	30	8.99	1999	.00+	2000
Nov	4.22	3.99	7.74	2001	25	11.80	1997	1.25	1981
Dec	4.69	4.20	6.80	1972	6	10.98	1972	.69	1980
Ann	52.02	50.08	11.27	Mar 1990	17	16.83	Mar 1990	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	7.7	3.8	1.5
Feb	9.0	6.0	2.9	1.6
Mar	9.6	7.2	4.2	2.2
Apr	8.0	5.1	2.7	1.3
May	8.2	5.7	2.4	1.2
Jun	9.1	6.3	3.4	1.0
Jul	11.9	7.9	3.4	1.4
Aug	9.3	6.3	2.4	.8
Sep	7.8	4.8	2.1	1.0
Oct	5.5	3.5	1.6	.9
Nov	7.6	5.2	2.5	1.3
Dec	9.8	6.3	3.3	1.1
Ann	107.0	72.0	34.7	15.3

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	2.02	2.53	3.25	3.86	4.43	5.02	5.65	6.39	7.33	8.78	10.10
Feb	1.36	1.80	2.45	3.02	3.57	4.14	4.77	5.52	6.48	7.98	9.38
Mar	2.38	2.98	3.84	4.56	5.24	5.94	6.69	7.57	8.70	10.42	12.00
Apr	.70	1.05	1.62	2.16	2.71	3.31	3.99	4.82	5.91	7.69	9.38
May	.73	1.06	1.60	2.10	2.61	3.15	3.76	4.50	5.48	7.05	8.54
Jun	1.26	1.66	2.26	2.78	3.28	3.81	4.39	5.07	5.95	7.33	8.60
Jul	.91	1.36	2.09	2.77	3.47	4.22	5.07	6.11	7.48	9.70	11.81
Aug	1.02	1.35	1.86	2.29	2.72	3.17	3.66	4.23	4.98	6.16	7.25
Sep	.39	.66	1.13	1.60	2.11	2.67	3.33	4.14	5.25	7.07	8.84
Oct	.00	.16	.58	1.02	1.51	2.07	2.75	3.60	4.79	6.80	8.80
Nov	1.21	1.61	2.21	2.74	3.25	3.79	4.38	5.08	5.98	7.40	8.72
Dec	1.30	1.75	2.42	3.01	3.59	4.19	4.86	5.65	6.67	8.28	9.78
Ann	39.54	42.02	45.16	47.53	49.61	51.62	53.67	55.93	58.65	62.57	65.94

\+ 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: 1967-2001
(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	.2	.0	#	0	4.0	1977	31	4.0	1977	4	1977	31	#+	1996	.1	@	@	.0	.0	@	@	.0	.0
Feb	.3	.0	0	0	8.0	1973	10	8.0	1973	0	0	0	0	0	@	@	@	@	.0	.0	.0	.0	.0
Mar	.1	.0	0	0	3.0	1980	2	3.0	1980	0	0	0	0	0	@	@	@	.0	.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	#	.0	#	0	#	1989	23	#+	1989	#	1996	19	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	8.0	Feb 1973	10	8.0	Feb 1973	4	Jan 1977	31	#+	Dec 1996	.1	@	@	@	.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

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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	4/25	4/20	4/17	4/14	4/12	4/09	4/06	4/03	3/30
32	4/16	4/09	4/03	3/30	3/26	3/22	3/17	3/12	3/05
28	3/23	3/18	3/13	3/10	3/06	3/03	2/27	2/23	2/17
24	3/10	3/03	2/26	2/21	2/17	2/13	2/09	2/04	1/28
20	3/01	2/21	2/15	2/10	2/05	1/31	1/26	1/19	1/06
16	2/10	2/02	1/26	1/20	1/12	12/30	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	10/07	10/11	10/15	10/17	10/20	10/23	10/25	10/29	11/02
32	10/18	10/24	10/29	11/02	11/05	11/09	11/13	11/17	11/24
28	10/31	11/07	11/12	11/16	11/20	11/24	11/28	12/03	12/10
24	11/10	11/20	11/27	12/03	12/09	12/14	12/21	12/28	1/07
20	11/28	12/10	12/19	12/26	1/03	1/10	1/18	1/29	2/18
16	12/20	12/31	1/08	1/16	1/26	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	207	201	197	194	191	187	184	180	174
32	254	244	236	230	224	218	212	204	194
28	286	276	269	264	258	252	247	240	230
24	325	312	304	298	291	285	279	272	261
20	>365	>365	356	336	325	315	306	297	284
16	>365	>365	>365	>365	>365	>365	>365	>365	328

***** 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	599	431	272	113	23	0	0	0	3	124	302	522	2389
60	455	298	162	42	4	0	0	0	0	57	185	378	1581
57	375	224	110	18	1	0	0	0	0	31	130	299	1188
55	326	180	82	9	0	0	0	0	0	19	99	252	967
50	221	94	31	1	0	0	0	0	0	5	41	156	549
32	20	0	0	0	0	0	0	0	0	0	0	6	26

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	453	494	775	923	1196	1362	1496	1468	1281	984	704	514	11650
55	45	30	143	242	483	672	783	755	591	290	113	46	4193
57	33	18	110	191	422	612	721	693	531	239	84	31	3685
60	20	8	68	124	332	522	628	600	441	172	49	17	2981
65	0	0	24	46	196	372	473	445	293	84	16	6	1955
70	0	0	7	10	93	228	318	290	158	30	3	0	1137

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	252	319	547	700	968	1141	1267	1246	1062	768	493	310	252	571	1118	1818	2786	3927	5194	6440	7502	8270	8763	9073
45	149	207	400	550	813	991	1112	1091	912	614	351	195	149	356	756	1306	2119	3110	4222	5313	6225	6839	7190	7385
50	79	119	266	405	658	841	957	936	762	460	229	113	79	198	464	869	1527	2368	3325	4261	5023	5483	5712	5825
55	35	61	154	266	503	691	802	781	612	315	135	59	35	96	250	516	1019	1710	2512	3293	3905	4220	4355	4414
60	11	21	72	156	352	541	647	626	462	187	64	25	11	32	104	260	612	1153	1800	2426	2888	3075	3139	3164
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	161	212	349	457	651	774	863	851	721	509	327	201	161	373	722	1179	1830	2604	3467	4318	5039	5548	5875	6076

(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