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: SYLACAUGA 4 NE, AL **COOP ID: 017999**

Climate Division: AL 4 **NWS Call Sign:** **Elevation: 490 Feet** **Lat: 33˚12N** **Lon: 86˚13W**

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	54.3	29.9	42.1	81	1974	10	53.5	1974	-4+	1985	22	31.1	1977	710	0	.0	.0	21.7	.6	18.0	.1
Feb	59.1	32.3	45.7	83	1962	27	52.8	1990	4	1958	18	37.2	1978	540	0	.0	.0	22.5	.4	13.8	.0
Mar	67.4	39.6	53.5	90	1995	24	58.3	1997	10	1993	14	47.2	1971	364	7	.0	@	29.6	.1	7.3	.0
Apr	75.0	45.6	60.3	91+	1987	23	65.4	1981	25	1987	1	55.6	1983	166	25	.0	.2	29.9	.0	2.6	.0
May	81.9	54.6	68.3	99	1970	27	72.4	2000	33+	1971	4	63.3	1976	44	145	.0	2.6	31.0	.0	.0	.0
Jun	88.2	62.2	75.2	100+	1988	26	79.2	1998	39	1966	1	71.1	1974	1	307	.1	13.2	30.0	.0	.0	.0
Jul	91.2	65.8	78.5	102+	1995	26	81.4	1993	50	1967	15	76.0	1975	0	418	1.2	20.7	31.0	.0	.0	.0
Aug	90.7	64.5	77.6	104	1995	19	81.4	1995	45	1968	30	74.5	1992	0	391	.7	19.7	31.0	.0	.0	.0
Sep	85.7	58.9	72.3	98+	1990	8	76.8	1980	32	1967	30	69.3	1974	13	232	.0	8.4	30.0	.0	.0	.0
Oct	76.1	45.8	61.0	92	1973	4	67.6	1984	23+	1987	23	54.5	1987	178	53	.0	.5	30.9	.0	2.7	.0
Nov	66.4	38.0	52.2	86+	1984	1	60.8	1985	14+	1970	25	44.1	1976	394	9	.0	.0	28.6	.0	9.8	.0
Dec	57.2	31.9	44.6	79+	1998	8	52.3	1971	3+	1983	27	36.3	2000	635	0	.0	.0	24.0	.4	16.1	.0
Ann	74.4	47.4	60.9	104	Aug 1995	19	81.4+	Aug 1995	-4+	Jan 1985	22	31.1	Jan 1977	3045	1587	2.0	65.3	340.2	1.5	70.3	.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: 1950-2001

(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	5.70	5.64	4.03	1972	4	14.33	1972	1.12	1981
Feb	5.07	4.65	4.40	1982	3	11.64	1998	1.39	1978
Mar	6.18	5.28	5.70	1990	16	15.93	1976	1.70	1985
Apr	4.73	4.67	4.31	1955	13	12.00	1979	.18	1986
May	3.74	3.34	4.25	1957	10	6.72	1973	1.06	1995
Jun	4.15	3.45	2.92	1989	16	9.92	1994	.55	1988
Jul	4.96	4.66	4.75	1984	17	10.37	1971	.10	1993
Aug	3.66	3.38	4.00	1993	14	9.74	1974	.95	1972
Sep	4.16	3.22	5.97	1995	22	12.65	1988	.38	1984
Oct	3.00	2.82	6.05	1995	5	11.56	1995	.17	1991
Nov	4.75	4.25	4.00	1983	24	11.49	1992	2.13	1985
Dec	4.78	4.35	4.65	1983	3	15.28	1983	1.27	1980
Ann	54.88	55.36	6.05	Oct 1995	5	15.93	Mar 1976	.10	Jul 1993

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	8.5	3.8	1.8
Feb	9.0	7.0	3.7	1.8
Mar	10.2	8.2	4.3	2.0
Apr	8.0	6.4	2.9	1.7
May	9.0	6.6	2.4	.8
Jun	9.4	7.0	2.7	1.0
Jul	11.2	8.0	3.3	1.3
Aug	8.4	6.4	2.3	1.0
Sep	7.9	5.9	2.5	1.1
Oct	6.1	4.4	1.9	.9
Nov	8.5	6.3	3.3	1.5
Dec	9.3	7.1	2.9	1.6
Ann	107.7	81.8	36.0	16.5

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	2.04	2.57	3.35	4.00	4.62	5.26	5.95	6.76	7.79	9.39	10.85
Feb	1.71	2.19	2.89	3.49	4.06	4.65	5.29	6.04	7.00	8.50	9.87
Mar	1.86	2.45	3.33	4.08	4.82	5.58	6.42	7.41	8.69	10.69	12.54
Apr	.95	1.38	2.08	2.71	3.35	4.04	4.82	5.75	6.99	8.97	10.84
May	1.41	1.76	2.26	2.68	3.07	3.48	3.91	4.42	5.07	6.06	6.97
Jun	1.00	1.39	1.99	2.53	3.07	3.64	4.27	5.03	6.01	7.58	9.06
Jul	.95	1.39	2.12	2.79	3.47	4.21	5.04	6.04	7.38	9.52	11.55
Aug	1.45	1.79	2.27	2.67	3.04	3.42	3.83	4.30	4.90	5.83	6.66
Sep	.80	1.17	1.79	2.35	2.92	3.53	4.23	5.07	6.19	7.97	9.68
Oct	.40	.64	1.07	1.48	1.92	2.41	2.98	3.67	4.61	6.15	7.64
Nov	1.79	2.23	2.87	3.40	3.90	4.41	4.97	5.62	6.44	7.71	8.87
Dec	1.61	2.07	2.73	3.29	3.83	4.38	4.99	5.69	6.60	8.01	9.30
Ann	40.49	43.32	46.91	49.63	52.03	54.34	56.73	59.35	62.52	67.10	71.05

+ 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: 1950-2001
(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	.4	.0	#	0	5.5	1992	19	5.5	1992	1	1996	7	#+	2000	.2	@	@	@	.0	.1	.0	.0	.0
Feb	.1	.0	#	0	2.0	1995	7	2.0	1995	2	1995	7	#+	1996	.2	@	.0	.0	.0	.1	.0	.0	.0
Mar	.5	.0	#	0	10.0	1993	13	11.0	1993	10	1993	13	1	1993	.1	.1	@	@	@	@	@	@	@
Apr	.1	.0	0	0	2.5	1987	3	2.5	1987	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	#	1993	31	#	1993	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	#	0	.3	1973	21	.3	1973	#+	1996	20	#+	1996	@	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.1	.0	N/A	N/A	10.0	Mar 1993	13	11.0	Mar 1993	10	Mar 1993	13	1	Mar 1993	.5	.1	@	@	@	.2	@	@	@

+ 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	5/04	4/30	4/26	4/23	4/20	4/18	4/15	4/11	4/06
32	4/19	4/15	4/12	4/10	4/07	4/05	4/02	3/30	3/26
28	4/06	3/31	3/27	3/23	3/19	3/16	3/12	3/08	3/02
24	3/17	3/11	3/06	3/02	2/26	2/23	2/19	2/14	2/08
20	3/10	3/01	2/23	2/18	2/13	2/08	2/02	1/27	1/18
16	2/28	2/19	2/13	2/08	2/02	1/28	1/22	1/13	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	9/30	10/04	10/07	10/09	10/12	10/14	10/17	10/20	10/24
32	10/08	10/14	10/18	10/22	10/25	10/29	11/02	11/06	11/12
28	10/24	10/30	11/03	11/07	11/11	11/15	11/18	11/23	11/29
24	11/05	11/12	11/17	11/21	11/25	11/29	12/03	12/08	12/14
20	11/13	11/22	11/28	12/04	12/09	12/14	12/19	12/26	1/03
16	12/01	12/12	12/20	12/27	1/03	1/10	1/18	1/29	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	190	184	180	177	174	171	167	163	158
32	220	213	208	204	201	197	193	188	181
28	260	252	246	241	236	231	226	220	212
24	296	287	281	276	271	266	260	254	245
20	333	320	311	304	297	291	284	276	265
16	>365	>365	362	346	335	325	316	305	291

***** 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	710	540	364	166	44	1	0	0	13	178	394	635	3045
60	568	402	229	73	10	0	0	0	2	92	264	488	2128
57	483	324	163	37	3	0	0	0	0	56	197	403	1666
55	429	274	126	21	1	0	0	0	0	38	160	348	1397
50	307	165	55	4	0	0	0	0	0	12	83	230	856
32	45	5	0	0	0	0	0	0	0	0	0	18	68

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	358	389	666	849	1124	1296	1441	1414	1210	898	605	406	10656
55	29	14	79	181	413	606	728	701	520	223	75	24	3593
57	21	8	54	137	353	546	666	639	460	179	52	16	3131
60	13	2	27	82	267	456	573	546	372	122	29	9	2498
65	0	0	7	25	145	307	418	391	232	53	9	0	1587
70	0	0	0	4	61	167	263	237	117	17	1	0	867

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	187	245	468	636	903	1080	1218	1188	991	679	402	228	187	432	900	1536	2439	3519	4737	5925	6916	7595	7997	8225
45	101	147	326	488	748	930	1063	1033	841	524	270	134	101	248	574	1062	1810	2740	3803	4836	5677	6201	6471	6605
50	50	77	206	345	593	780	908	878	691	376	166	77	50	127	333	678	1271	2051	2959	3837	4528	4904	5070	5147
55	22	36	107	218	438	630	753	723	541	242	87	35	22	58	165	383	821	1451	2204	2927	3468	3710	3797	3832
60	0	11	49	118	290	480	598	568	393	133	40	11	0	11	60	178	468	948	1546	2114	2507	2640	2680	2691
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	123	174	312	426	603	730	821	801	670	460	278	159	123	297	609	1035	1638	2368	3189	3990	4660	5120	5398	5557

(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