

# The Alabama Climate Report

Brought to you by the Office of the Alabama Climatologist

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Dr. John Christy, Alabama State Climatologist

You might recall (I had to look it up) that back in May we talked just a bit about the impact a developing La Niña Pacific Ocean cooling event might have on summer weather in Alabama, as well as on the Atlantic hurricane season.

It has been just a couple of months since then, but things haven't gone exactly as expected — although the state's weather has been doing pretty much what we forecast.

We said in early May that if the eastern Pacific Ocean along the Equator near South America shifted this summer from a warm phase to a cool phase, during that transition period we would have a better than normal chance for a summer that is warmer and drier than usual, especially in the southern two-thirds of the

state.

Through June and July it has been that, somewhat. In most places. Except where it was cooler and/or wetter. (Jasper saw three one-day rainfall records broken in July, including its wettest July day on record, 4.93" on July 10.)

That's the thing about summer weather in Alabama. It can be spotty. A thunderstorm can pop up and drop a couple of inches of rain on one side of the road while leaving the other side completely parched. Check out the climate summaries for the place-by-place data. In our 24-site state survey (Gainesville Lock was off-line for a large part of July), 17 were warmer than normal in July, while 14 were drier than normal. That leaves large swaths of cooler and/or wetter.

But the La Niña transition doesn't seem to be much at work on our weather this summer because that cool pool isn't developing as rapidly as expected. Sea surface temperatures in that part of the Pacific are cooler than normal, but the NOAA forecast for the region says there is only a 55 to 60 percent chance an actual La Niña event will happen this fall.

That isn't necessarily a bad thing. Atlantic hurricanes tend to be more common during La Niña years, and it has been a relatively quiet hurricane season. Part of that, however, might have to do with a large region of cooler than normal water puddling about in the northeastern Atlantic.

While a cool eastern Pacific tends to enhance the formation of hurricanes, a cool pool in the North Atlantic tends to block them. So far this summer it seems the cool Atlantic is winning the meteorological tug of war.

This doesn't mean, however, that we get a free pass on being weather prepared. It takes only one

bad tropical system to cause havoc and destruction. Think hurricane Andrew. Andrew was the only major Atlantic hurricane in 1992, but it was more than enough.

This October 24 will be the 11th anniversary of Wilma coming ashore in Florida as a category 3 hurricane — the last “major” hurricane to hit the continental U.S.

We are overdue, so let’s also be prepared.

- John Christy

## U.S. Drought Monitor Alabama

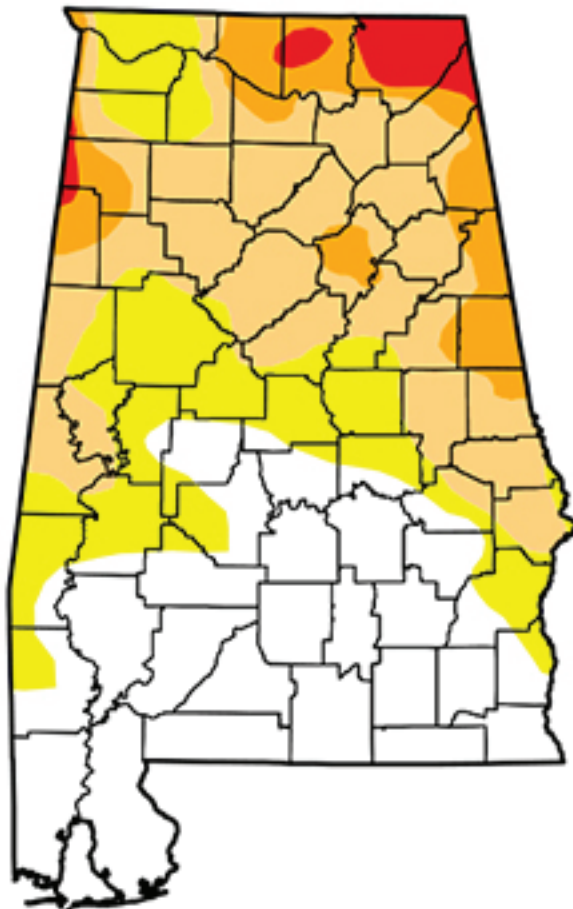
**July 26, 2016**

(Released Thursday, Jul. 28, 2016)

Valid 8 a.m. EDT

*Drought Conditions (Percent Area)*

	None	D0	D1	D2	D3	D4
<b>Current</b>	38.09	21.60	28.36	9.17	2.78	0.00
<b>Last Week</b> 3/12/2016	37.02	21.44	26.94	11.87	2.72	0.00
<b>3 Months Ago</b> 4/26/2016	91.12	8.88	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> 1/1/2016	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> 9/29/2015	37.12	58.03	4.86	0.00	0.00	0.00
<b>One Year Ago</b> 7/26/2015	59.90	30.73	9.37	0.00	0.00	0.00



*Intensity:*

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

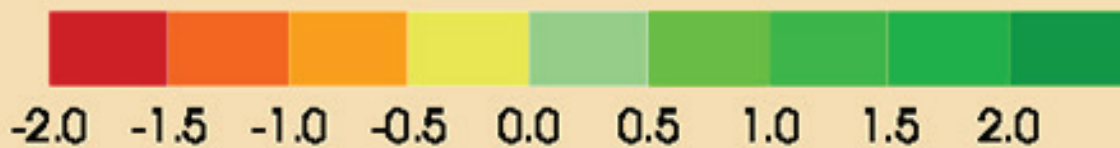
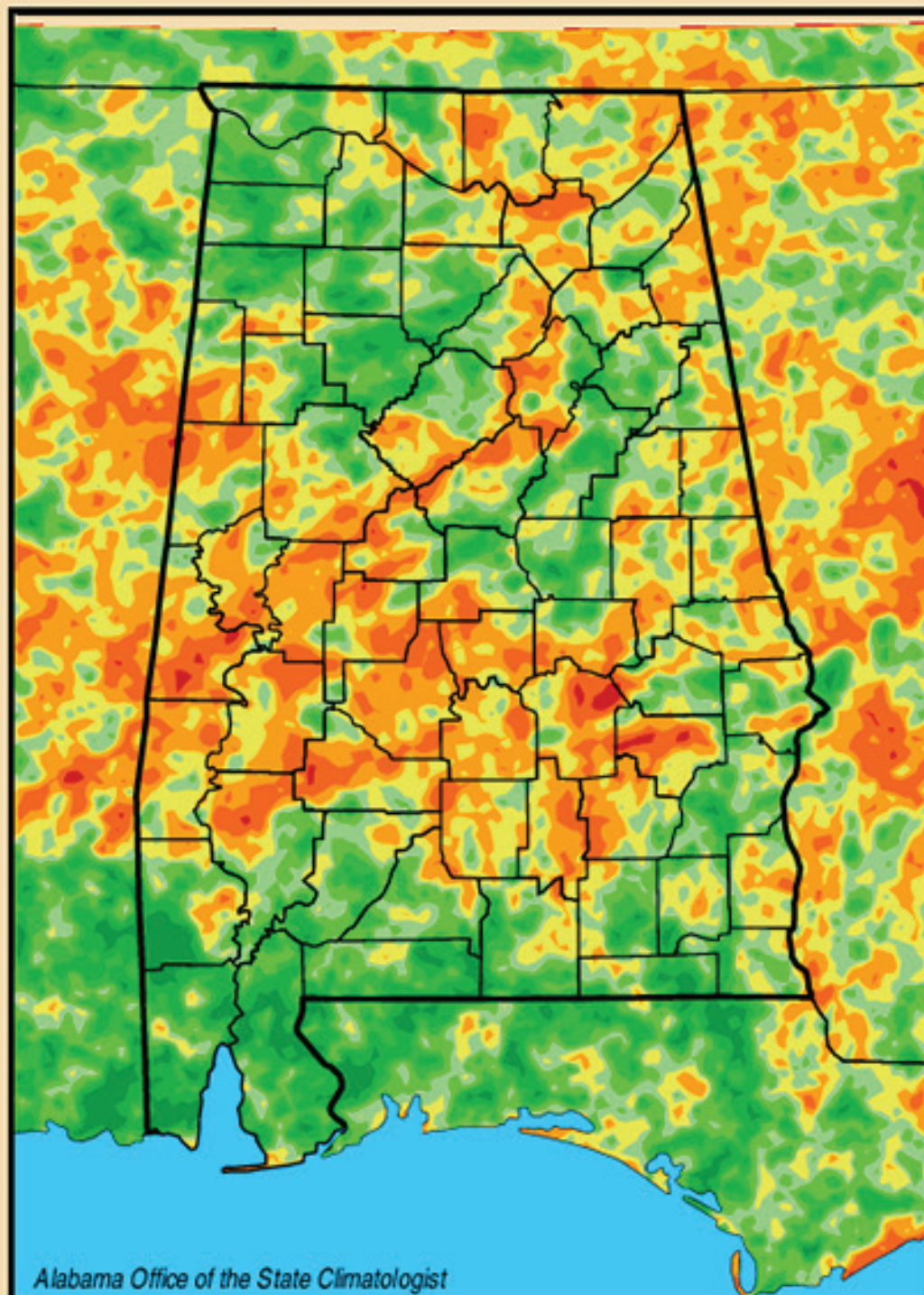
**Author:**

*Brad Rippey  
U.S. Department of Agriculture*



<http://droughtmonitor.unl.edu/>

# Lawn-and-Garden Moisture Index for August 1, 2016



# Alabama Monthly Climate Summaries

July 2016

	Station Began	July Mean		July Hi Temp		July Low Temp		Total Precip.		Wettest July		Heaviest Day	
		July Norm	July Norm	Record Hi	Record Hi	Record Low	Record Low	Normal Prec.	Normal Prec.	Driest July	Driest July	Record Day	Record Day
Anniston	2/1903	82.6°	99°	7/9/16	62°	7/1/16	3.02"	12.21"	1975	1.01"	7/10/16		
		80.1°	105°	7/13/80	50°	7/15/67	4.49"	0.79"	1983	5.13"	7/7/75		
Auburn	1/1893	83.1°	97°	7/20/16	69°	7/12/16	1.95"	15.73"	1916	0.53"	7/9/16		
		79.9°	108°	7/11/30	52°	7/15/67	5.37"	1.39"	1914	7.00"	7/10/48		
Birmingham	1/1930	83.7°	98°	7/20/16	64°	7/1/16	7.08"	10.07"	1985	2.52"	7/9/16		
		80.2°	107°	7/29/30	51°	7/15/67	5.09"	0.30"	1983	5.47"	7/27/85		
Brewton	4/1977	78.9°	94.2°	7/2/16	68.9°	7/2/16	5.28"	19.08"	1975	1.00"	7/17/16		
		80.1°	106°	7/24/52	51°	7/15/67	7.04"	1.86"	2000	7.88"	7/31/75		
Calera	9/1900	83.0°	99°	7/9/16	63°	7/1/16	2.77"	18.52"	1916	0.70"	7/31/16		
		79.3°	105°	7/7/77	50°	7/15/67	5.36"	0.42"	1983	7.00"	7/7/1916		
Clanton	2/1893	80.2°	96.0°	7/8/16	62.8°	7/1/16	3.48"	13.97"	1971	0.77"	7/16/16		
		79.2°	108°+	7/26/52	53°	7/15/67	5.76"	1.29"	1995	7.14"	7/4/40		
Courtland		80.4°	96.6°	7/4/16	61.9°	7/1/16	4.57"			0.94"	7/10/16		
		M	M		M		M	M	M	M			
Cullman	7/1907	78.7°	96.3°	7/21/16	55.5°	7/1/16	3.69"			1.02"	7/5/16		
		M	M		M		4.44"	M	M	M			
Decatur	2/1880	82.0°	98°	7/21/16	60°	7/1/16	3.84"	10.89"	1958	1.41"	7/9/16		
		80.5°	107°	7/12/1901		M	4.22"	0.67"	1962	4.65"	7/16/50		
Dothan	2/1902	83.3°	97°	7/9/16	71°	7/22/16	8.58"	12.73"	1948	2.39"	7/17/16		
		81.3°	103°	7/24/52	57°	7/5/1902	5.86"	2.12"	1903	6.73"	7/9/48		
Fairhope	8/1917	81.1°	93.6°	7/2/16	69.8°	7/15/16	4.60"	28.58"	1997	1.79"	7/24/16		
		81.5°	101°	7/16/80	59°	7/16/67	8.00"	0.82"	1983	14.52"	7/20/97		
Gadsden	7/1893	78.2°	95.9°	7/21/16	56.3°	7/1/16	4.52"	13.41"	1985	1.26"	7/21/16		
		79.8°	103°+	7/15/66	52°	7/11/63	4.47"	0.79"	1980	3.36"	7/9/58		
Gainesville Lock	6/1948	M#	M#		M#		M#	M#		M#			
		M#	M#		M#		M#	M#	M#	M#			
Greensboro	2/1890	80.3°	95.5°	7/8/16	61.0°	7/1/16	5.03"	11.03"	1985	2.16"	7/14/16		
		81.9°	107°+	7/16/80	56°	7/23/47	5.38"	1.19"	2000	3.90"	7/18/36		
Highland Home	3/1892	79.3°	94.2°	7/8/16	67.5°	7/13/16	4.86"	10.79"	1994	0.94"	7/14/16		
		79.6°	105°	7/15/80	54°	7/15/67	4.93"	1.19"	1978	3.15"	7/8/48		
Huntsville	1/1959	83.4°	100°	7/21/16	61°	7/1/16	4.93"	14.81"	1967	1.70"	7/14/16		
		79.5°	104°	7/14/66	53°	7/15/67	4.50"	0.79"	1983	4.81"	7/5/2001		

# Alabama Monthly Climate Summaries

July 2016

	Station Began	July Mean July Norm	July Hi Temp Record Hi	July Low Temp Record Lo	Total Precip. Normal Prec.	Wettest July Driest July	Heaviest Day Record Day
Mobile	3/1900	82.9°	97° 7/2/16	71° 7/15/16	6.75"	13.14" 1982	1.56" 7/21/16
		81.5°	104° 7/25/52	62°+ 7/16/87	6.54"	1.72" 1983	4.21" 7/18/89
Montgomery	6/1948	84.9°	100° 7/2/16	71° 7/15/16	5.61"	9.99" 1988	1.50" 7/11/16
		81.8°	105°+ 7/25/52	60° 7/1/50	5.31"	1.69" 2000	3.84" 7/14/73
Muscle Shoals	12/1940	82.6°	99° 7/8/16	63° 7/1/16	5.05"	14.40" 1975	1.37" 7/6/16
		80.2°	106°+ 6/29/52	53°+ 6/7/72	4.52"	0.92" 1977	5.60" 7/28/72
Russellville	9/1953	78.5°	95.1° 7/26/16	58.3° 7/1/16	5.06"	10.82" 1994	1.97" 7/10/16
		78.0°	103° 7/18/80	45° 7/8/70	4.65"	1.27" 1978	3.10" 7/24/83
Scottsboro	10/1891	79.3°	97.5° 7/21/16	57.8° 7/1/16	3.81"	7.59" 1984	2.04" 7/5/16
		78.6°	109° 7/13/30	49°+ 7/10/83	4.53"	1.32" 1980	3.43" 7/22/41
Selma	1/1895	80.3°	97.0° 7/21/16	65.8° 7/1/16	1.82"	8.45" 1994	0.56" 7/30/16
		81.5°	107°+ 7/14/80	57° 7/15/87	4.28"	1.11" 2000	3.96" 7/7/94
Talladega	2/1888	81.0°	98.9° 7/9/16	62.0° 7/1/16	5.37"	9.11" 1985	1.61" 7/14/16
		78.2°	107°+ 7/17/80	51°+ 7/6/72	4.75"	1.40" 1991	3.05" 7/8/58
Thomasville	9/1891	79.6°	95.1° 7/21/16	67.7° 7/2/16	2.59"	15.91" 1988	0.93" 7/13/16
		81.4°	107° 7/13/30	56° 7/15/87	6.05"	0.69" 2000	5.52" 7/6/88
Troy	6/1908	81.5°	96° 7/2/16	67° 7/13/16	4.05"	15.59" 1994	1.03" 7/12/16
		80.5°	107° 7/7/36	56° 7/15/87	5.80"	1.66" 2000	4.55" 7/1/84
Tuscaloosa	6/1948	82.4°	96° 7/21/16	60° 7/1/16	4.15"	12.27" 1997	1.19" 7/14/16
		81.8°	107° 7/24/52	54° 7/1/50	5.00"	0.72" 1970	4.57" 7/21/97
Valley Head	1/1893	77.0°	94.1° 7/4/16	57.1° 7/1/16	6.03"	11.74" 1976	2.76" 7/9/16
		76.2°	105°+ 7/29/52	45° 7/15/87	5.18"	0.94" 1987	4.52" 7/5/76
Statewide July 2015		81.21° /	100° 2 stations	55.5° Cullman	4.56"	28.58" Fairhope	2.76" Valley Head
July Norm		80.11° /	109° Scottsboro	45° 2 stations	5.26"	0.30" Birmingham	14.52" Fairhope

M: Data is missing or not available

\*New Record

#This data is missing this month due to an instrument malfunction

^ This record differs from long-term data in the AOSC climate database:

[http://nsstc.uah.edu/alclimate/climate/daily\\_climate\\_and\\_normals.php](http://nsstc.uah.edu/alclimate/climate/daily_climate_and_normals.php)

# New Local Climate Records<sup>1</sup>

## July 2016

### Precipitation, Daily

	New Record	Previous Year	Previous Record	Period of Record
<b>5 July 2016</b>				
WALNUT GROVE	2.77	2005-07-05	2.00	75
<b>6 July 2016</b>				
JACKSONVILLE	1.20	2011-07-06	0.77	68
<b>10 July 2016</b>				
FORT PAYNE	2.29	1958-07-10	2.07	80
JASPER	4.93	2005-07-10	2.90	55
TALLADEGA	2.00	2005-07-10	1.77	128
<b>13 July 2016</b>				
SYLACAUGA 4 NE	1.78	2009-07-13	1.32	61
<b>14 July 2016</b>				
GREENSBORO	2.15	1948-07-14	1.87	124
RUSSELLVILLE No 2	0.90	1963-07-14	0.79	62
HUNTSVILLE AIRPRT	1.70	2011-07-14	1.52	57
<b>15 July 2016</b>				
ALICEVILLE LAND D	3.66	1988-07-15	0.88	36
JACKSON	1.88	2011-07-15	1.78	54
JASPER	1.12	1973-07-15	0.98	55
T'LOOSA OLIVER DM	1.30	2013-07-15	1.20	116
<b>17 July 2016</b>				
JONES BLUFF L&D	1.72	2010-07-17	1.48	35
OPELIKA	1.40	1988-07-17	1.30	59

<b>21 July 2016</b>				
THORSBY EXP STA	2.16	1970-07-21	1.42	58
<b>22 July 2016</b>				
CLAYTON	2.70	1939-07-22	2.15	87
ENTERPRISE 2 W	1.25	1986-07-22	1.16	50
MOBILE DNTWN APRT	2.48	1958-07-22	2.02	67
SYLACAUGA 4 NE	1.66	1970-07-22	0.73	61
TALLADEGA	2.81	1892-07-22	1.94	128
<b>24 July 2016</b>				
CAHABA PUMP HS	1.52	2013-07-24	1.32	34
<b>27 July 2016</b>				
BAY MINETTE	1.50	1948-07-27	1.25	102
COFFEEVILLE L&D	1.18	2001-07-27	0.50	33
<b>29 July 2016</b>				
HAMILTON 3 S	1.94	1995-07-29	1.07	54
JACKSON	1.10	1980-07-29	0.90	54
MOULTON 2	0.96	1982-07-29	0.85	59
<b>30 July 2016</b>				
HALEYVILLE	1.85	1972-07-30	1.25	113
<b>31 July 2016</b>				
JASPER	2.37	2012-07-31	2.26	55

### Precipitation, Wettest July Day

#### Maximum High Temperature, Daily

	New Record	Previous Hottest Day	Previous Record	Period of Record
<b>3 July 2016</b>				
CLAYTON	99	1960-07-03	98	60
<b>4 July 2016</b>				
CLAYTON	98	2014-07-04	96	60
<b>5 July 2016</b>				
ALEXANDER CITY	100	2012-07-05	98	46
<b>22 July 2016</b>				
MARION JUNCTION 2 NE	100	2015-07-22	98	66

	New Record	Previous Wettest Day	Previous Record	Period of Record
<b>10 July 2016</b>				
JASPER	4.93	1985-07-27	3.60	55

### Minimum Low Temperature, Daily

	New Record	Previous Year	Previous Record	Period of Record
<b>22 July 2016</b>				
OPELIKA.....	55	1971-07-22	59	59
<b>23 July 2016</b>				
OPELIKA.....	55	1971-07-23	59	59
<b>28 July 2016</b>				
DEMOPOLIS LOCK & DAM.....	61	2009-07-26	64	64

<sup>1</sup> <http://wf.ncdc.noaa.gov/extremes/records/>

# Community Collaborative Rain, Hail & Snow Network (CoCoRAHS)

July 2016

	Total Precip.	# Stations
Autauga	2.19	2
Baldwin	5.43	22
Barbour	n.a.	0
Bibb	n.a.	0
Blount	5.12	8
Bullock	n.a.	0
Butler	7.61	1
Calhoun	5.26	2
Chambers	n.a.	0
Cherokee	5.34	1
Chilton	4.97	1
Choctaw	4.35	1
Clarke	4.06	1
Clay	n.a.	0
Cleburne	n.a.	0
Coffee	4.27	1
Colbert	4.78	6
Conecuh	n.a.	0
Coosa	3.68	1
Covington	n.a.	0
Crenshaw	n.a.	0
Cullman	3.30	5
Dale	6.35	1
Dallas	3.15	1
DeKalb	5.74	3
Elmore	2.83	5
Escambia	9.72	1
Etowah	n.a.	0
Fayette	3.35	1
Franklin	n.a.	0
Geneva	n.a.	0
Greene	n.a.	0
Hale	n.a.	0
Henry	n.a.	0

	Total Precip.	# Stations
Houston	7.29	3
Jackson	4.84	7
Jefferson	3.50	13
Lamar	n.a.	0
Lauderdale	4.42	10
Lawrence	6.75	2
Lee	1.72	4
Limestone	4.87	10
Lowndes	n.a.	0
Macon	n.a.	0
Madison	3.31	41
Marengo	n.a.	0
Marion	2.30	1
Marshall	4.10	10
Mobile	7.95	13
Monroe	5.77	2
Montgomery	3.80	4
Morgan	5.76	5
Perry	n.a.	0
Pickens	3.93	1
Pike	n.a.	0
Randolph	3.66	2
Russell	4.00	2
St. Clair	4.06	6
Shelby	3.20	16
Sumter	n.a.	0
Talladega	6.57	4
Tallapoosa	3.68	3
Tuscaloosa	3.16	5
Walker	n.a.	0
Washington	5.34	1
Wilcox	5.18	2
Winston	4.73	2

## Normal July

### Precipitation\*

Abbeville	6.14"
Alberta	5.00"
Alex City	5.14"
Aliceville	4.55"
Andalusia	6.47"
Ashland	5.64"
Athens	4.30"
Bay Minette	8.08"
Bessemer	5.25"
Billingsley	5.33"
Centreville WSMO	5.15"
Chatom	6.21"
Claiborne L&D	5.39"
Clayton	5.91"
Dauphin Isl.	6.43"
Elba	6.45"
Eufaula WR	5.14"
Evergreen	6.41"
Fayette	4.77"
Geneva 2	5.94"
Greenville	5.86"
Haleyville	4.94"
Hamilton 3S	4.67"
Heflin	4.82"
Hurtsboro	5.23"
Jasper	5.25"
Lafayette	5.52"
Livingston	5.76"
Melvin	5.94"
Milstead	5.19"
Moulton	4.47"
Oneonta	5.66"
Perryville	5.04"
Plantersville	5.18"
Rock Mills	5.12"
Rockford	5.82"
Sylacauga	5.13"
Union Springs	5.62"
Uniontown	5.11"
Vernon	5.29"
Warrior L&D	4.12"
Wetumpka	4.71"

\*Southeast Regional Climate Center  
www.serc.com

**Alabama State Climatologist**

**John R. Christy**

Alabama State Climatologist

The University of Alabama

in Huntsville

christy@nsstc.uah.edu

256-961-7763

**Contact:**

**Phillip Gentry**

UAHuntsville Communications

The University of Alabama in Huntsville

gentry@nsstc.uah.edu

256.961.7618

**Bob Clymer**

Assistant State Climatologist

The University of Alabama in Huntsville

bob.clymer@nsstc.uah.edu

256-961-7771

<http://nsstc.uah.edu/alclimatereport>