

The Alabama Climate Report

Brought to you by the Office of the Alabama Climatologist

Volume 6, Number 2, November 2015



Dr. John Christy, Alabama State Climatologist

Warmer and wetter. That was November, at least for most of us in Alabama.

With more than 12 and a quarter inches of rain at the official weather station, Dothan saw its wettest November in the 120-year climate record. The solitary CoCoRAHS volunteer in Houston County reported 11.9 inches for the month, which also would be a November record.

Anniston (3.84"), Dothan (4.82"), Huntsville (3.87") and Opelika (4.10") all recorded their wettest November day on record, while 82 day-specific rain records were broken. That includes the 4.25" that fell on Talladega, breaking the Nov. 7 record set in 1943, and the 2.37" that fell on Evergreen, breaking the Nov. 19 record set in

1928.

Of course, there were exceptions. Birmingham, Clanton, Greensboro, Mobile and Muscle Shoals all saw less rain in November than normal. Thomasville got exactly one inch less than normal.

It isn't surprising that November was also warmer than normal. Our sample of cities showed the mean temperature for the month was more than five degrees warmer than normal for November (59.12° for the month compared to the norm of 53.98°). That's a pretty common pattern for Alabama, where we get big rain when a cold front (or in this case three cold fronts) slams into warm, moist air typically flowing up from the coast.

In our sample of 25 cities, only four didn't top 80 degrees in November. Montgomery saw its all-time November high of 88° on November 6.

And, as usual, temperatures were more consistent than rainfall. None of the 25 cities and towns on our monthly survey was cooler than normal in November.

Next month it will be time to look back at the highlights (or otherwise) from 2015. We might have to spend a couple of paragraphs looking at the record-setting snowfall we had in February.

Do you remember the February snow? That seems like a long time ago.

Have a merry Christmas, happy holidays and a joyous New Year.

- John Christy

U.S. Drought Monitor Alabama

December 1, 2015
(Released Thursday, Dec. 3, 2015)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 11/24/2015	94.20	5.80	0.00	0.00	0.00	0.00
3 Months Ago 09/01/2015	57.18	42.82	11.16	0.00	0.00	0.00
Start of Calendar Year 12/01/2014	62.49	37.51	3.77	0.00	0.00	0.00
Start of Water Year 09/01/2015	37.12	62.88	4.86	0.00	0.00	0.00
One Year Ago 12/01/2014	36.15	63.85	14.76	3.39	0.00	0.00

Intensity:

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

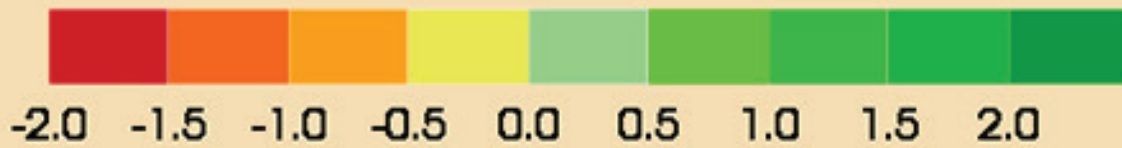
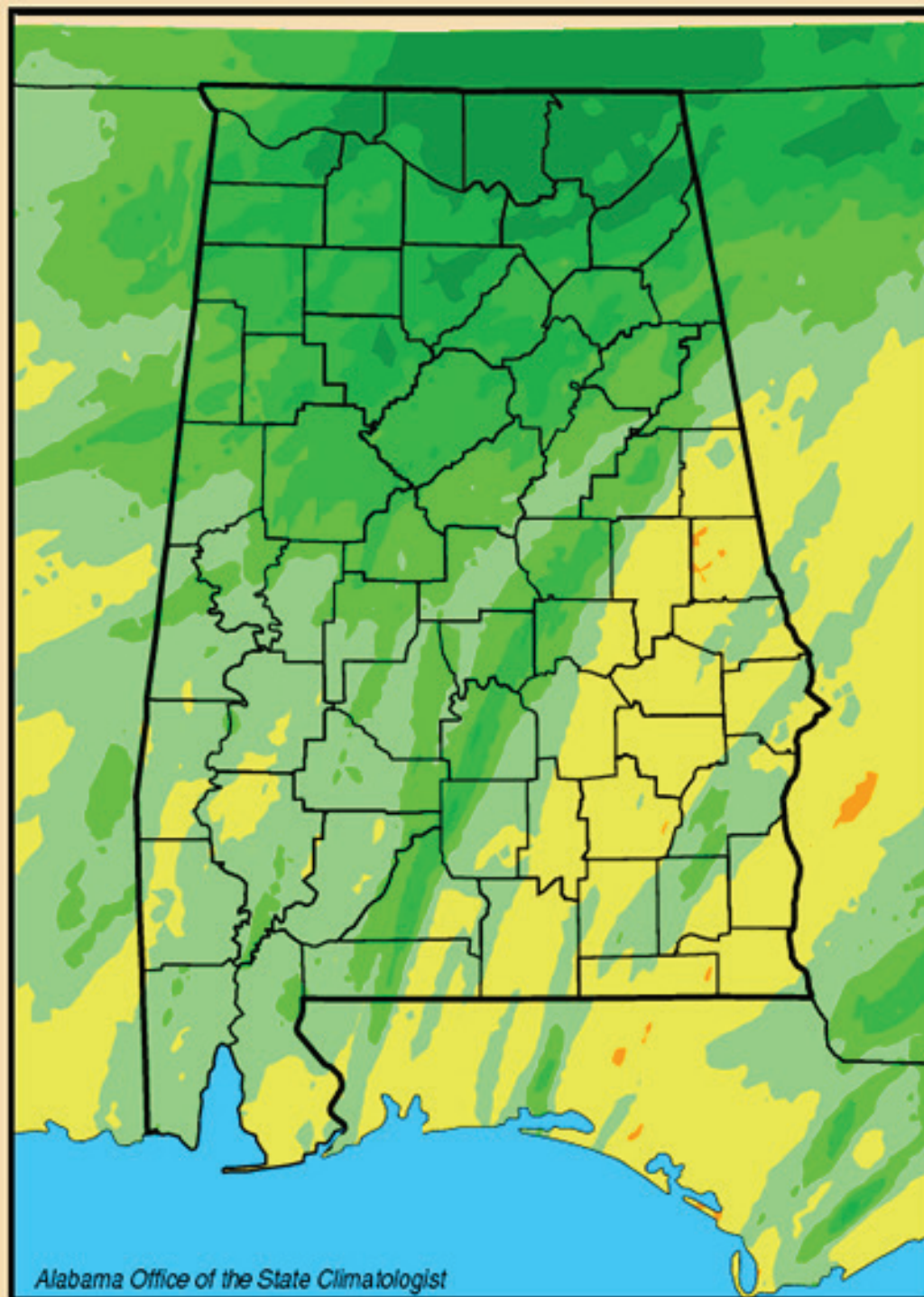
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
David Simeral
Western Regional Climate Center



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

Lawn-and-Garden Moisture Index for December 3, 2015



Alabama Monthly Climate Summaries

November 2015

	Station Began	Nov. Mean Nov. Norm	Nov. Hi Temp Record Hi	Nov. Low Temp Record Low	Total Precip. Normal Prec.	Wettest Nov. Driest Nov.	Heaviest Day Record Day
Anniston	2/1903	58.8°	81° 11/6/15	26° 11/23/15	6.90"	10.32° 1992	*3.68" 11/6/15
		53.4°	88° 11/2/74	5° 11/25/50	4.20"	1.03° 1980	3.21" 11/28/48
Auburn	1/1893	62.6°	84° 11/6/15	32° 11/24/15	6.73"	17.77° 1948	3.45" 11/2/15
		53.4°	90° 11/1/35	9° 11/25/50	3.47"	.23° 1924	7.05" 11/27/48
Birmingham	1/1930	59.5°	81° 11/6/15	27° 11/23/15	4.54"	9.86° 1986	2.03" 11/6/15
		53.1°	85°+ 11/1/00	5° 11/25/50	4.63"	1.67° 1981	4.41" 11/27/83
Brewton	4/1977	61.3°	85° 11/6/15	29.6° 11/23/15	5.85"	13.01° 1989	2.11" 11/8/15
		56.0°	89°+ 11/1/81	15° 11/28/38	5.16"	1.20° 1993	4.52" 11/8/89
Calera	9/1900	59.7°	83° 11/6/15	29° 11/23/15	6.28"	16.94° 1948	2.75" 11/1/15
		53.0°	86° 11/2/74	12° 11/30/50	3.69"	0.00° 1924	4.70" 11/12/29
Clanton	2/1893	58.0°	81.8° 11/6/15	29.3° 11/24/15	4.53"	17.37° 1986	2.44" 11/18/15
		53.0°	88° 11/1/35	8° 11/25/50	4.96"	.80° 1981	5.50" 11/12/29
Courtland		56.1°	78.1° 11/5/15	23.2° 11/23/15	5.32"	M	1.69" 11/18/15
		M	M	M	M	M	M
Cullman	7/1907	55.8°	79.5° 11/6/15	21.4° 11/23/15	6.04"	M	2.65" 11/18/15
		M	M	M	M	M	M
Decatur	2/1880	56.2°	78° 11/5/15	21° 11/23/15	6.22"	14.26° 1957	2.56" 11/18/15
		51.0°	86° 11/3/35	3° 11/25/50	3.69"	0.00° 1910	3.97" 11/10/91
Dothan	2/1902	63.5°	84° 11/7/15	32° 11/23/15	*12.26"	10.29° 1930	*4.82" 11/1/15
		58.0°	88° 11/5/46	17° 11/25/50	3.01"	.05° 1931	4.50" 11/7/12
Fairhope	8/1917	62.5°	84.6° 11/6/15	32.6° 11/22/15	5.52"	12.03° 1997	1.92" 11/8/15
		59.5°	91° 11/2/71	21° 11/25/50	5.19"	.81° 1981	4.88" 11/2/95
Gadsden	7/1893	54.9°	78.5° 11/6/15	22.7° 11/23/15	5.22"	8.97° 1982	2.44" 11/18/15
		51.8°	87° 11/1/00	14°+ 11/25/70	4.56"	1.30° 1981	4.31" 11/28/73
Gainesville Lock	6/1948	58.1°	83.4° 11/6/15	25.8° 11/23/15	7.05"	10.24° 1986	2.55" 11/7/15
		53.6°	87° 11/1/81	17°+ 11/30/76	4.51"	.93° 1998	3.58" 11/28/01
Greensboro	2/1890	59.1°	81.3° 11/5/15	27.2° 11/23/15	4.01"	14.70° 1986	2.34" 11/18/15
		55.7°	98° 11/7/40	12° 11/25/50	4.47"	.75° 1981	4.55" 11/12/29
Highland Home	3/1892	60.5°	82.3° 11/6/15	31.5° 11/23/15	7.06"	11.87° 1997	2.64" 11/8/15
		56.0°	88°+ 11/1/84	10° 11/25/50	4.71"	.73° 1999	3.20" 11/28/48
Huntsville	1/1959	58.8°	79° 11/5/15	26° 11/23/15	7.97"	11.53° 1977	*3.87" 11/18/15
		51.2°	84°+ 11/1/00	15°+ 11/30/76	5.22"	1.82° 1971	3.33" 11/27/73

Alabama Monthly Climate Summaries

November 2015

	Station Began	Nov. Mean Nov. Norm	Nov. Hi Temp Record Hi	Nov. Low Temp Record Lo	Total Precip. Normal Prec.	Wettest Nov. Driest Nov.	Heaviest Day Record Day
Mobile	3/1900	63.6°	86° 11/5/15	32° 11/23/15	5.35"	12.70" 1992	2.64" 11/1/15
		58.9°	87°+ 11/2/71	22° 11/25/50	5.41"	.85" 1981	7.01" 11/6/75
Montgomery	6/1948	62.2°	*88° 11/6/15	28° 11/23/15	5.23"	10.18" 1988	2.41" 11/18/15
		56.1°	87°+ 11/8/86	13° 11/25/50	4.53"	.51" 1981	8.16" 11/26/48
Muscle Shoals	12/1940	57.3°	81° 11/5/15	22° 11/23/15	4.58"	11.06" 1988	1.65" 11/18/15
		51.5°	85° 11/1/00	2° 11/25/50	5.09"	1.90" 1971	3.65" 11/30/91
Russellville	9/1953	55.3°	79.3° 11/5/15	18.3° 11/23/15	5.50"	9.76" 1988	2.22" 11/18/15
		50.1°	85°+ 11/2/00	10°+ 11/25/70	5.08"	.84" 1971	3.80" 11/2/99
Scottsboro	10/1891	55.2°	80.5° 11/6/15	22.4° 11/23/15	5.36"	11.43" 1977	1.42" 11/18/15
		50.2°	85°+ 11/2/00	1° 11/25/50	4.98"	1.52" 1971	4.90" 11/17/27
Selma	1/1895	58.8°	82.3° 11/6/15	22.6° 11/23/15	4.67"	10.44" 1988	2.91" 11/18/15
		56.2°	91° 11/3/30	13° 11/25/50	4.32"	.53" 1981	3.62" 11/27/48
Talladega	2/1888	57.2°	81.1° 11/6/15	25.3° 11/23/15	8.21"	10.69" 1992	2.28" 11/7/15
		51.4°	86°+ 11/2/74	5° 11/25/50	4.59"	.66" 1981	3.31" 11/2/92
Thomasville	9/1891	59.0°	83° 11/6/15	26.1° 11/23/15	4.31"	11.26" 1988	1.74" 11/18/15
		56.3°	90° 11/4/35	14° 11/25/50	5.31"	.86" 1981	3.80" 11/6/59
Troy	6/1908	62.1°	85° 11/6/15	28° 11/23/15	6.65"	10.53" 1992	3.03" 11/8-9/15
		56.2°	89° 11/4/35	12° 11/25/50	4.44"	1.33" 1990	6.12" 11/8/43
Tuscaloosa	6/1948	59.5°	83° 11/6/15	26° 11/23/15	5.47"	10.04" 2000	2.69" 11/6-7/15
		55.3°	87°+ 11/3/00	10° 11/25/50	4.84"	.84" 1985	3.67" 11/11/95
Valley Head	1/1893	54.4°	80.7° 11/6/15	20.7° 11/23/15	5.32"	9.76" 1983	2.53" 11/18/15
		48.5°	84°+ 11/3/74	-2° 11/25/50	5.00"	1.19" 1971	4.06" 11/5/77
Statewide Nov. 2015		59.12° /	88° Montgomery	18.3° Russellville	6.03"	17.77" Auburn	4.82" Dothan
Nov. Norm		53.98° /	98° Greensboro	-2° Valley Head	4.60"	0.00" 2 stations	8.16" Montgomery

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

New Local Climate Records¹

November 2015

Precipitation, Daily

	New Record	Previous Year	Previous Record	Period of Record	18 November 2015				
01 November 2015					ALICEVILLE LAND D	1.22	1996-11-18	1.15	35
ALEXANDER CITY	0.81	1985-11-01	0.78	45	ATHENS	2.86	1957-11-18	2.22	74
ALICEVILLE LAND D	1.10	1991-11-01	0.78	35	ATMORE	1.14	1944-11-18	0.70	75
ASHLAND	1.57	1967-11-01	1.00	75	BESSEMER 3 WSW	2.00	1996-11-18	0.88	38
BILLINGSLEY	2.58	1967-11-01	2.40	76	BILLINGSLEY	2.88	1968-11-18	2.30	76
CALERA	3.00	1967-11-01	1.90	114	BIRMINGHAM AIRPORT	1.80	2003-11-18	1.17	85
CHATOM	2.02	1951-11-01	1.66	65	HALEYVILLE	2.05	1962-11-18	1.26	112
CHILDERSBURG WATER	2.31	1967-11-01	2.00	58	HAMILTON 3 S	1.88	1962-11-18	1.08	53
COFFEEVILLE LAND D	1.65	1997-11-01	1.00	32	HUNTSVILLE INTL ARPT	3.87	2003-11-18	0.95	56
DEMOPOLIS LAND D	2.00	1969-11-01	1.18	63	MOBILE DT AIRPORT	2.56	2000-11-18	1.56	66
GENEVA NUMBER 2	1.72	1985-11-01	1.49	39	MOULTON 2	1.15	1996-11-18	0.99	58
JACKSONVILLE	1.45	1967-11-01	0.89	67	RUSSELLVILLE No. 2	2.17	1968-11-18	1.31	61
JONES BLUFF LAND D	0.82	1985-11-01	0.70	34	TALLAPOOSA WATER	1.50	1982-11-18	1.10	37
LAY DAM	1.53	1958-11-01	1.17	78	TUSCALOOSA MUNI ARPT	2.29	1957-11-18	1.16	67
MILLERS FERRY L&D	1.61	1991-11-01	1.10	34	WALNUT GROVE	2.05	1962-11-18	1.75	74
MOBILE DT AIRPORT	2.35	1951-11-01	1.25	66	19 November 2015				
WARRIOR L&D	2.50	1967-11-01	0.52	57	ADDISON	2.82	1938-11-19	2.00	77
02 November 2015					ASHLAND	3.81	2003-11-19	3.58	75
BRUNDIDGE	3.75	1999-11-02	1.50	84	BANKHEAD L&D	2.36	1957-11-19	1.61	58
CLAIBORNE L&D	2.00	1992-11-02	1.10	62	BELLE MINA	2.60	1974-11-19	1.48	65
COFFEEVILLE L&D	1.17	1999-11-02	0.92	32	CHATOM	1.56	1952-11-19	1.40	65
GENEVA NUMBER 2	3.00	1999-11-02	1.88	39	CHILDERSBURG WATER	2.00	2000-11-19	1.46	58
MELVIN	2.18	1967-11-02	0.77	75	CLAYTON	3.33	1957-11-19	1.80	86
OPELIKA	4.10	1979-11-02	1.51	58	COFFEEVILLE L&D	1.91	1991-11-19	1.71	32
03 November 2015					DAUPHIN ISLAND No. 2	1.22	2003-11-19	0.87	39
FT BENNING LAWSON FD	0.67	1995-11-03	0.12	66	DEMOPOLIS L&D	2.23	1952-11-19	2.16	63
06 November 2015					ENTERPRISE 2 W	2.25	2003-11-19	1.65	49
HEADLAND	1.90	1977-11-06	1.46	65	EVERGREEN	2.37	1928-11-19	1.27	119
07 November 2015					GENEVA NUMBER 2	1.90	2003-11-19	1.70	39
ALEXANDER CITY	0.66	1975-11-07	0.63	45	HOLT LOCK AND DAM	2.91	2003-11-19	1.16	34
ANNISTON METRO APT	3.30	2000-11-07	2.21	112	JASPER	2.71	2003-11-19	1.83	54
ASHLAND	1.47	1995-11-07	0.98	75	JORDAN DAM	2.72	1986-11-19	2.05	78
BANKHEAD L&D	2.04	1989-11-07	1.92	58	LAY DAM	1.92	1986-11-19	1.69	78
BOAZ	2.20	1951-11-07	1.20	77	MARION JUNCTION 2 NE	2.28	2000-11-19	1.98	65
CALERA	2.98	1996-11-07	2.50	114	MILLERS FERRY L&D	2.25	2003-11-19	1.75	34
CHILDERSBURG WATER	4.12	1995-11-07	1.75	58	MITCHELL DAM	3.28	1983-11-19	1.78	78
GAINESVILLE	3.52	2006-11-07	2.24	67	PINE APPLE	2.85	2003-11-19	1.16	47
HOLT LOCK AND DAM	3.10	1989-11-07	1.31	34	SAND MT SUBSTATION	2.35	2003-11-19	1.70	66
TALLADEGA	4.25	1943-11-07	1.98	127	SELMA	3.10	1948-11-19	2.08	120
T'LOOSA OLIVER DAM	2.30	2006-11-07	1.90	115	THORSBY EXP STATION	2.45	2000-11-19	2.12	57
T'LOOSA MUNI AIRPORT	1.61	2000-11-07	1.12	67	WALLACE	3.30	1948-11-19	1.80	74
08 November 2015					20 November 2015				
CAHABA PUMP HOUSE	2.00	1995-11-08	1.85	33	JONES BLUFF L&D	2.13	1983-11-20	1.45	34
MOBILE DT AIRPORT	2.05	1962-11-08	0.89	66	29 November 2015				
					ATHENS	2.09	2001-11-29	1.54	74
					RUSSELLVILLE No. 2	2.00	1977-11-29	1.23	61

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

New Local Climate Records¹

November 2015

One-Day Precipitation, November

	New Record	Previous Year	Previous Record	Period of Record
17 April 2015 OPELIKA	4.10	1986-11-17	3.84	58

Max High Temperature, November

	New Record	Previous Hottest Day	Previous Record	Period of Record
06 November 2015 MONTGOMERY AIRPORT	88	2004-11-01	87	67
10 November 2015 DAUPHIN ISLAND No 2	85	2004-11-04	84	39

Maximum High Temperature, Daily

	New Record	Previous Hottest Day	Previous Record	Period of Record
05 November 2015 MOBILE DT AIRPORT	84	1959-11-05	83	66
MOBILE REG AIRPORT	86	1981-11-05	85	67
06 November 2015 ANNISTON METRO APRT	81	1978-11-06	78	112
BESSEMER 3 WSW	83	2003-11-06	81	38
CHATOM	84	1994-11-06	82	65
DAUPHIN ISLAND No 2	82	2003-11-06	81	39
ENTERPRISE 2 W	85	2003-11-06	81	49
FAIRHOPE 2 NE	89	1933-11-06	87	97
JACKSON	85	2000-11-06	83	31
MONTGOMERY AIRPORT	88	2003-11-06	84	67
T'LOOSA MUNI AIRPORT	83	2005-11-06	81	67
07 November 2015 ALEXANDER CITY	82	1986-11-07	80	45
ATMORE	86	2003-11-07	84	75
BAY MINETTE	84	2003-11-07	83	100
CLAYTON	85	1975-11-07	84	59
DEMOPOLIS L&D	85	1996-11-07	82	63
FAIRHOPE 2 NE	88	1935-11-07	86	97
GAINESVILLE	84	2005-11-07	80	57
JACKSON	85	2005-11-07	83	31
OPELIKA	82	2003-11-07	78	58
SAND MT SUBSTATION	79	2005-11-07	78	65
SCOTTSBORO	83	2005-11-07	82	123
SYLACAUGA 4 NE	81	2003-11-07	80	60
10 November 2015 DAUPHIN ISLAND No 2	85	1986-11-10	81	39
30 November 2015 ATMORE	78	1949-11-30	77	75
CLAYTON	77	1991-11-30	76	59
DAUPHIN ISLAND No 2	76	2001-11-30	74	39

¹ This record differs from long-term data in the AOSC climate database:
http://nsstc.uah.edu/akclimate/climate/daily_climate_and_normals.php

Community Collaborative Rain, Hail & Snow Network (CoCoRAHS)

November 2015

	Ave. Total Precip.	# Stations
Autauga	6.75	2
Baldwin	6.01	23
Barbour	n.a.	0
Bibb	8.80	1
Blount	5.47	9
Bullock	n.a.	0
Butler	n.a.	0
Calhoun	7.25	2
Chambers	n.a.	0
Cherokee	6.46	1
Chilton	6.56	2
Choctaw	4.88	1
Clarke	6.17	1
Clay	n.a.	0
Cleburne	n.a.	0
Coffee	9.58	1
Colbert	5.76	7
Conecuh	n.a.	0
Coosa	6.85	2
Covington	n.a.	0
Crenshaw	n.a.	0
Cullman	6.94	4
Dale	10.17	1
Dallas	6.06	1
DeKalb	6.06	3
Elmore	5.35	7
Escambia	12.09	1
Etowah	6.65	1
Fayette	9.52	1
Franklin	n.a.	0
Geneva	n.a.	0
Greene	n.a.	0
Hale	n.a.	0
Henry	n.a.	0

	Ave. Total Precip.	# Stations
Houston	11.93	1
Jackson	7.29	7
Jefferson	5.81	15
Lamar	8.74	1
Lauderdale	6.15	11
Lawrence	7.55	2
Lee	10.19	3
Limestone	8.05	10
Lowndes	n.a.	0
Macon	n.a.	0
Madison	6.92	47
Marengo	n.a.	0
Marion	7.21	1
Marshall	4.85	11
Mobile	6.91	13
Monroe	6.05	2
Montgomery	5.56	3
Morgan	7.52	6
Perry	n.a.	0
Pickens	6.50	1
Pike	n.a.	0
Randolph	7.80	1
Russell	9.78	2
St. Clair	6.74	4
Shelby	7.13	20
Sumter	n.a.	0
Talladega	10.78	5
Tallapoosa	4.78	4
Tuscaloosa	8.56	4
Walker	n.a.	0
Washington	8.27	1
Wilcox	5.05	2
Winston	6.47	2

Normal November Precipitation*

Abbeville	4.19"
Alberta	4.12"
Alex City	4.34"
Aliceville	4.39"
Andalusia	4.19"
Ashland	4.50"
Athens	4.59"
Bay Minette	4.36"
Bessemer	5.11"
Billingsley	4.27"
Centreville WSMO	5.04"
Chatom	4.33"
Claiborne L&D	4.26"
Clayton	3.60"
Dauphin Isl.	4.15"
Elba	3.96"
Eufaula WR	4.26"
Evergreen	4.05"
Fayette	4.41"
Geneva 2	5.16"
Greenville	3.94"
Haleyville	5.02"
Hamilton 3S	4.92"
Heflin	4.44"
Hurtsboro	4.57"
Jasper	4.61"
Lafayette	4.01"
Livingston	3.86"
Melvin	3.73"
Milstead	3.74"
Moulton	4.87"
Oneonta	3.89"
Perryville	3.95"
Plantersville	4.31"
Rock Mills	4.16"
Rockford	4.23"
Sylacauga	4.30"
Union Springs	3.70"
Uniontown	3.48"
Vernon	5.14"
Warrior L&D	4.16"
Wetumpka	3.48"

*Southeast Regional Climate Center
www.serc.com

Alabama Climate Report Climate Extremes

Hottest - Coldest

Statewide Average Temperature

http://www.sercc.com/climateinfo/monthly_seasonal.html

Record begins in 1895

Alabama Climate Report Climate Extremes

Wettest - Driest

Statewide Average Precipitation

http://www.sercc.com/climateinfo/monthly_seasonal.html

Record begins in 1895

Year-to-date

Hottest	1.	1921	65.7°
	2.	1927	65.6°
	3.	1911	65.3°
	4.	1922	65.2°
	5.	1933	65.1°
		1998	65.1°
	7.	1925	65.0°
	8.	1990	64.9°
		2012	64.9°
	10.	1938	64.5°
	11.	2007	64.4°
	12.	1896	64.3°
January through Dec. 2014		AVG	63.1°
	24.	2014	62.2°
Coldest		1963	61.7°
	11.	1966	61.7°
	10.	1895	61.6°
	9.	1960	61.5°
		1901	61.4°
		1969	61.4°
	6.	1979	61.4°
		1940	61.2°
		1958	61.2°
	3.	1983	61.2°
	2.	1968	61.0°
	1.	1976	60.7°

Year to Date

Wettest	1.	1929	75.08"
	2.	1975	74.77"
	3.	2009	73.78"
	4.	1983	70.36"
	5.	1961	69.83"
	6.	1979	67.92"
	7.	1948	67.64"
	8.	1973	67.17"
	9.	1912	66.56"
	10.	1964	66.50"
	11.	1919	65.97"
	12.	1900	65.85"
January through Dec. 2014	56.	2014	55.95"
		AVG	55.10"
Driest		1941	46.19"
	12.	1910	46.19"
	11.	1896	46.16"
		1981	45.80"
	9.	1930	45.80"
	8.	1921	45.44"
	7.	1914	45.33"
	6.	1968	45.22"
	5.	1931	43.84"
	4.	2000	42.50"
	3.	1904	40.60"
	2.	2007	37.87"
1.	1954	35.39"	

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