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SEPTEMBER 2024



Volume 16, Number 3 :: September 2024



Fall in Alabama typically brings drier conditions, a welcome change for farmers and gardeners who depend on the drier weather to harvest their crops. However, the 2024 fall season started abnormally wet, with September recording 6.42 inches of rainfall statewide—over 2 inches more than the long-term average of 3.78 inches. The majority of the rainfall was due to Hurricanes Francine and Helene.

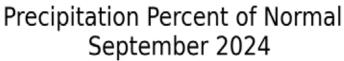
In contrast to August's predominantly dry conditions, September experienced a mixed bag of wetter and drier than normal conditions across the state. Regions from northwest to southeast Alabama benefited most from the tropical rains, while the rest of the state remained drier than normal, as shown in Figure 1. Notably, the Eufaula Weedon Field Airport station in southeast Alabama recorded the most rainfall of the month at 22.8 inches—setting a new all-time monthly record for the station since observations began in 2006. Conversely, the Douglas 6.8 NW station recorded the least amount rainfall with only 2.42 inches of rainfall and no missing observations.

Temperature-wise, the statewide average temperature was 0.8°F warmer than the 20th-century mean of 74.7°F, driven primarily by warmer-than-average low temperatures (2.9°F warmer than normal). This above-average nighttime warmth can be partly attributed to the increased cloudiness from the tropical systems that impacted Alabama. While the cloudiness generally suppressed daytime high temperatures, there were still a few exceptionally hot days, with the Dothan Regional Airport station recording the hottest temperature of the month at 101°F on the 2nd. On the cooler side, the Russellville 4 SSE station observed the lowest temperature of the month at 43°F on the 8th.

After record dryness in August, the State saw widespread severe drought (D-2) and reaching extreme drought (D3) in the North. Drought conditions across the state improved significantly with the arrival of Francine and Helene. By the end of September, only 30% of the state was in moderate drought. Though Francine and Helene brought record levels of rainfall, it did not erase the all dryness, as there is still memory of record dryness in June/July and August. Nearly 90% of the state is still considered abnormally dry for this time of year.

September also marked the end of the 2024 water year (October 2023 – September 2024). Statewide, Alabama received 54.77 inches of precipitation, close to the long-term average of 55.27 inches, just a touch drier than normal. Regionally, however, southeast Alabama saw wetter-than-normal conditions, while the remainder of the state was generally drier, as depicted in Figure 2.

Monthly summaries are provided by Dr. Rob Junod, Lee Ellenburg and John Christy.



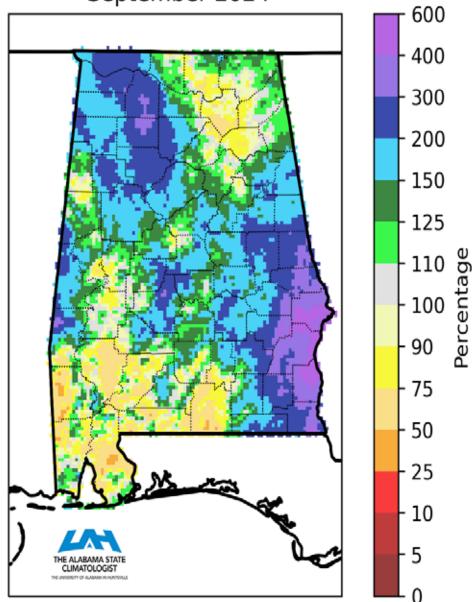


Figure 1. Data source: NCEP Stage IV Quantitative Precipitation Estimates

Precipitation Percent of Normal Water Year 2024

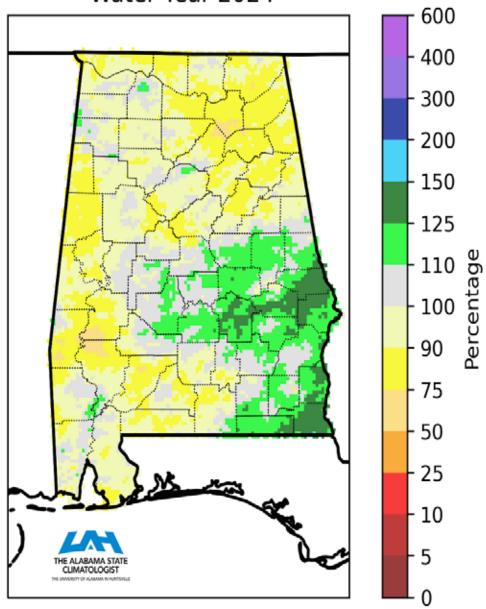


Figure 2.

Data source: NCEP Stage IV Quantitative Precipitation Estimates

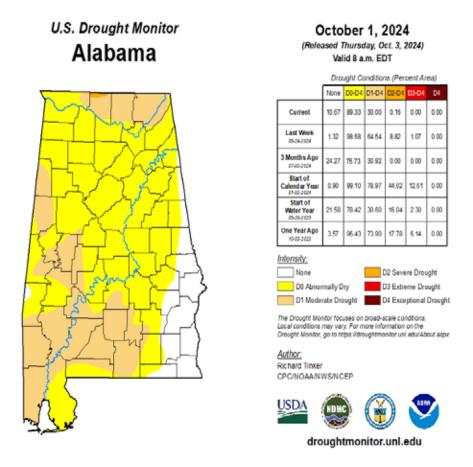


Figure 3: Drought Conditions as depicted by the US Drought Monitor as of Oct 1, 2024

September 2024



Precipitation Summary

Monthly Total Precipitation for September 2024

Preliminary Statewide 6.42"
Total Precipitation

2.64" Above the Average

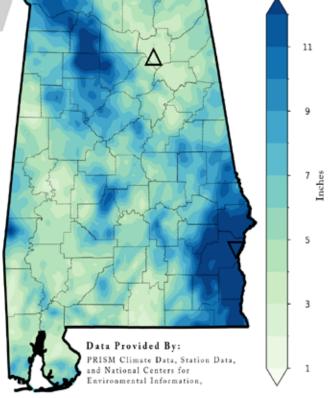
△ DRIEST SITE

Douglas 6.8 NW

Total Precipitation: 2.42"

V WETTEST SITE
Eufaula Weedon
Field AP

Total Precipitation: 22.8"



Historical Perspective: 14th Wettest September Since 1895



September 2024



Temperature Summary

Monthly Average Temperature for September 2024

Preliminary Statewide 75.5°F

0.8°F Above the Average

△ HOTTEST SITE

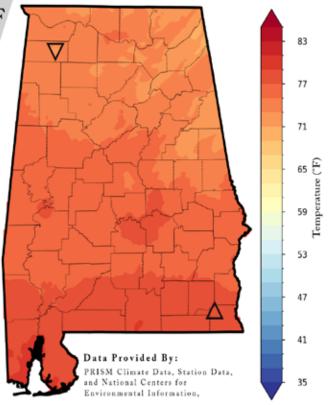
Dothan Regional

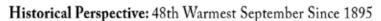
Airport

102°F on September 2nd

V COLDEST SITE
Russellville 4SSE

43°F on September 8th







The Alahama Climate Renort

DROUGHT MONITOR

U.S. Drought Monitor Alabama



October 1, 2024

(Released Thursday, Oct. 3, 2024) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

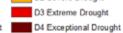
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	10.67	89.33	30.00	0.16	0.00	0.00
Last Week 09-24-2024	1.32	98.68	64.54	8.82	1.07	0.00
3 Month's Ago 07-02-2024	24.27	75.73	30.92	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	0.90	99.10	78.97	44.62	12.61	0.00
Start of Water Year 09-26-2029	21.58	78.42	30.60	16.04	2.30	0.00
One Year Ago 10-03-2023	3.57	96.43	73.90	17.78	6.14	0.00

Intensity:

None

D2 Severe Drought

D0 Abnormally Dry
D1 Moderate Drought



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

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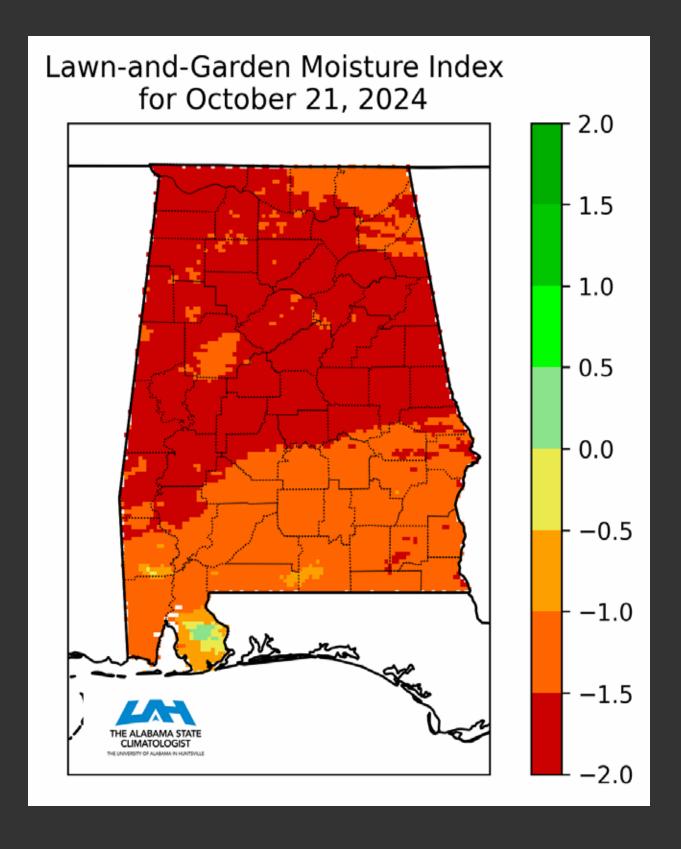


droughtmonitor.unl.edu

ALABAMA MONTHLY CLIMATE SUMMARIES

Alabama Monthly Climate Summaries									
			September 2						
	Sept. Mean	Sept. High Temp	Sept. Low Temp	Total Precip.	Wettest Sept.	Heaviest Sept.			
	Sept. Norm	Record High	Record Low	Normal Precip.	Driest Sept.	Record Sept.			
Anniston	73.9	93 9/21/24	59 9/29/24	3.76"	7.22" 1975	2.16* 9/25/24			
7411101011	73.8 M	101+ 9/1/57	34 9/30/67	3.32"	.33" 1984 10.19" 1956	3.99* 9/21/95			
Auburn	75.9	M 108 9/5/25	M 34 9/30/67	M 3.60"	.36" 1919	M 6.48* 9/26/56			
	76.4	94 9/21/24	56 9/8/24	5.47"	10.43" 1977	3.63* 9/14/24			
Birmingham	73.8	102 9/19/31	37 9/30/67	4.05"	.16" 1984	3.70* 9/27/79			
Brewton	76	97.7 9/2/24	61.7 9/28/24	5.70"	25.20" 1998	3.36* 9/13/24			
Brewton	75.1	101+9/15/72	32 9/30/67	5.51"	0.02" 2019	9.30* 9/28/98			
Calera	77.4	94 9/21/24	63 9/29/24	4.38"	12.75" 1906	2.24" 9/14/24			
	73.6 73.8	101 9/15/80 92.7 9/1/24	33 9/30/67 58.4 9/8/24	3.76" 5.98"	.07" 1955 10.30" 1979	7.05" 9/29/1906 2.11" 9/12/24			
Clanton	73	101+ 9/16/80	36 9/30/67	4.66"	.37" 1990	5.20* 9/28/79			
	72.8	91.2 9/21/24	50.9 9/8/24	11.58"	M	7.74* 9/14/24			
Courtland	M	M	M	M	М	М			
Culiman (St. Bernard)	71.6	91.2 9/1/24	48.8 9/8/24	7.91"	М	2.81* 9/14/24			
Cuman (St. Bernard)	M	M	M	M	M	M			
Decatur (Pryor Field)	74.9 74.4	93 9/21/24 104 9/9/25	49 9/8/24 37 9/27/1899	4.24" 2.95"	8.49" 1946 0.01" 2019	2.26* 9/13/24 4.34* 9/10/46			
	78.6	104 9/9/25	65 9/28/24	10.46"	13.86" 1929	3.81* 9/25/24			
Dothan	76.9	100 9/3/40	45 9/29/67	5.02"	0.06" 2019	8.00* 9/30/29			
	76.9	93.1 9/2/24	64 9/30/24	5.67"	24.11" 1998	1.73* 9/16/24			
Fairhope	77.3	100 9/10/54	41 9/30/67	5.97"	0.02" 2019	9.18* 9/28/98			
Gadsden	70.6	90.6 9/21/24	46.9 9/8/24	4.37"	9.29" 1979	1.51* 9/27/24			
	73.1 75.1	102 9/3/54	33 9/30/67	4.13"	0.09" 2019	4.07* 9/22/58			
Gainesville Lock	75.1 74.9	96.5 9/1/24 102 9/10/80	57.2 9/9/24 38 9/30/67	5.48" 3.61"	11.85" 1974 0.02" 2019	1.66* 9/24/24 4.26* 9/5/49			
	74.8	93.7 9/1/24	59.1 9/8/24	3.96*	9.13" 1974	2.54" 9/12/24			
Greensboro	76.1	104+ 9/5/54	39 9/30/67	3.93"	0.00" 2019	4.79" 9/5/49			
Contracodilla	М	M	M	M	11.07" 1977	M			
Guntersville	72.2	102 9/4/54	38 9/30/67	4.23"	.12" 1984	4.06* 9/12/88			
Highland Home	75.2	95.2 9/2/24	62.9 9/27/24	8.28"	13.19" 1975	2.85* 9/26/24			
	74.7 75.8	102 9/11/80	37+ 9/30/67	4.03" 4.43"	0.02" 2019	6.35* 9/26/53			
Huntsville	72.9	94 9/21/24 101 9/7/90	55 9/9/24 37 9/30/67	3.94"	9.78" 1980 0.27" 2019	1.98* 9/13/24 3.93* 9/25/80			
	80.1	99 9/2/24	63 9/27/24	4.85*	24.13" 1998	1.75* 9/11/24			
Mobile	77.2	99+ 9/4/90	42 9/29/67	6.01"	.74" 1984	8.60* 9/28/98			
Montgomony	77.9	99 9/2/24	62 9/30/24	4.49"	9.47" 1998	1.22* 9/11/24			
Montgomery	76.3	101+ 9/10/80	39 9/30/67	4.22"	0.05" 2019	8.72* 9/26/53			
Muscle Shoals Airport	75.7	9/24/24	53 9/9/24	10.63"	10.13" 1979	6.02* 9/13/24			
massic onoais Airport	72.9	103 9/4/54	39+ 9/23/82	4.30"	0.11" 2019	5.71* 9/13/79			
Russellville	71.8	92.7 9/1/24	43.6 9/8/24	7.42"	10.06" 1975	3.50* 9/14/24			
	71.2 72.2	102+ 9/6/54 95.4 9/22/24	30 9/30/67 48.6 9/8/24	4.18" 3.68"	.34" 1999 10.99" 1977	5.33* 9/14/79 1.97* 9/27/24			
Scottsboro	71.5	105+ 9/6/54	36+ 9/27/40	4.81"	0.00" 2019	4.92* 9/28/79			
	75	94.5 9/1/24	58.7 9/29/24	3.82*	10.96" 1998	1.33* 9/12/24			
Selma	76.2	105 9/6/54	40 9/30/67	3.87"	0.02" 2019	6.15* 9/29/98			
Talladega	73.6	94 9/1/24	57.7 9/29/24	2.94"	8.04" 1979	1.15* 9/14/24			
ranaueya	71.8	103 9/4/54	35 9/30/67	3.76"	0.07" 2019	4.00* 9/23/75			
Thomasville	74.6	94.9 9/2/24	60.3 9/9/24	5.03"	13.42" 1998	2.55" 9/6/24			
	76.2 76.4	104 9/11/80 98 9/2/24	39 9/29/67 62 9/30/24	4.13" 6.59"	0.06" 2019 13.29" 1998	7.30" 9/8/74 1.73" 9/14/24			
Troy	75.8	104 9/8/54	38 9/30/67	3.52"	0.29" 1998	7.46" 9/1/37			
	76.3	94 9/22/24	59 9/9/24	5.26"	10.91" 2009	2.09* 9/11/24			
Tuscaloosa	75.6	104 9/1/51	37 9/30/67	3.48"	0.00" 1955	6.28" 9/3/01			
Valley Head	70.4	92.2 9/22/24	46.6 9/8/24	5.37"	9.77" 1977	2.45* 9/27/24			
valley nead	69.3	100+ 9/7/54	29 9/30/67	4.27"	0.64" 2019	5.38* 9/17/60			

LAWN & GARDEN



NEW ALABAMA CLIMATE RECORDS

Highest Precipitation for One Day I	Monthly Record					
Station	Date	Record	Prev. Date Pre	ev. Record	Number of Years D	ifference
ADDISON, AL US	9/14/24	7.85	9/6/11	4.52	86	3.33
Highest Maximum Temperature Da						
BREWTON 3 ENE, AL US	9/2/24		-1-1	95		2
FAIRHOPE 2 NE, AL US	9/2/24	95	9/2/64	95		0
GENEVA NUMBER 2, AL US	9/2/24	96	9/2/14	96	48	0
MOBILE DOWNTOWN AIRPORT, AL US	9/2/24	99	9/2/19	96	75	3
DOTHAN REGIONAL AIRPORT, AL US	9/2/24	101	9/2/14	97	54	4
MOBILE REGIONAL AIRPORT, AL US	9/2/24	99	9/2/89	98	76	1
MONTGOMERY AIRPORT, AL US	9/2/24	99	9/2/15	97	76	2
BREWTON 3 ENE, AL US	9/3/24	97	9/3/89	97	47	0
CLAYTON, AL US	9/3/24	99	9/3/14	98	68	1
GENEVA NUMBER 2, AL US	9/3/24	97	9/3/14	97	48	0
JACKSON, AL US	9/3/24	97	9/3/89	97	40	0
MOBILE REGIONAL AIRPORT, AL US	9/3/24	98	9/3/19	95	76	3
VERNON, AL US	9/22/24	96	9/22/22	96	67	0
MOBILE DOWNTOWN AIRPORT, AL US	9/25/24	92	9/25/19	92	75	0
Highest Minimum Temperature Da	ily Record					
CLAYTON, AL US	9/1/24	73	9/1/20	73	68	0
OPELIKA, AL US	9/1/24		-1-1	71		0
OPELIKA, AL US	9/3/24			72		0
DOTHAN REGIONAL AIRPORT, AL US	9/3/24		-,,,,,	75		2
BREWTON 3 ENE, AL US	9/5/24		-1-1	73		0
DEMOPOLIS LOCK AND DAM, AL US	9/5/24			74		0
JACKSON, AL US	9/5/24		-1-1	75		0
MOBILE DOWNTOWN AIRPORT, AL US	9/5/24			79	- 11	0
DOTHAN REGIONAL AIRPORT, AL US	9/5/24		-,-,	75		0
			-7-7	77		0
MOBILE REGIONAL AIRPORT, AL US	9/5/24		-1-1-	74		0
GENEVA NUMBER 2, AL US	9/6/24		-1-1	72		0
MARION JUNCTION 2 NE, AL US	9/16/24					
CLAYTON, AL US	9/23/24	70	9/23/16	70	68	0
Lowest Maximum Temperature Da	ily Record					
FAYETTE, AL US	9/7/24	74	9/7/67	74	115	0
GAINESVILLE LOCK, AL US	9/7/24	74	9/7/67	74	66	0
MOBILE DOWNTOWN AIRPORT, AL US	9/11/24	78	9/11/98	78	75	0
MOBILE REGIONAL AIRPORT, AL US	9/11/24	77	9/11/17	77	76	0
ONEONTA, AL US	9/12/24	71	9/12/15	74	129	-3
OPELIKA, AL US	9/12/24	75	9/12/69	75	67	0
CLANTON, AL US	9/13/24	71	9/13/00	74	130	-3
ATHENS, AL US	9/14/24	73	9/14/96	73	32	0
BESSEMER 3 WSW, AL US	9/14/24	78	9/14/79	78	47	0
HALEYVILLE, AL US	9/14/24	72	9/14/79	72	121	0
ONEONTA, AL US	9/14/24	70	9/14/85	71	129	-1
HAMILTON, AL US	9/15/24	75	9/15/74	75	62	0
BREWTON 3 ENE, AL US	9/16/24	72	9/16/21	74	47	-2
HEFLIN, AL US	9/16/24	72	9/16/63	72	68	0
Lowest Minimum Temperature Dai	ily Record					
ATHENS, AL US	9/8/24	52	9/8/17	56	32	-4
HALEYVILLE, AL US	9/8/24			53		-1
SCOTTSBORO, AL US	9/8/24			48		0

NEW ALABAMA CLIMATE RECORDS

Highest Precipitation Daily Record						
BELLE MINA 2 N, AL US	9/1/24	1.84	9/1/76	1.34	74	0.5
COFFEEVILLE LOCK AND DAM, AL US	9/7/24	1.33	9/7/07	0.98	41	0.35
MOBILE DOWNTOWN AIRPORT, AL US	9/11/24	0.8	9/11/20	0.63	75	0.17
BESSEMER 3 WSW, AL US	9/12/24	2.19	9/12/78	1.94	47	0.25
GENEVA NUMBER 2, AL US	9/12/24	1.65	9/12/17	1.55	48	0.1
HEADLAND, AL US	9/12/24	3.63	9/12/64	1.84	74	1.79
TUSCALOOSA AIRPORT ASOS, AL US	9/12/24	2.02	9/12/66	1.63	76	0.39
BANKHEAD LOCK AND DAM, AL US	9/13/24	3.18	9/13/66	2.47	67	0.71
BILLINGSLEY, AL US	9/13/24	3.05	9/13/66	1.86	85	1.19
GENEVA NUMBER 2, AL US	9/13/24	1.98	9/13/79	1.44	48	0.54
HALEYVILLE, AL US	9/13/24	2.05	9/13/79	1.8	121	0.25
TUSCALOOSA OLIVER DAM, AL US	9/13/24	2.19	9/13/83	1.2	124	0.99
ADDISON, AL US	9/14/24	7.85	9/14/90	0.86	86	6.99
ATHENS, AL US	9/14/24	1.62	9/14/57	1	83	0.62
BANKHEAD LOCK AND DAM, AL US	9/14/24	2.6	9/14/79	1.23	67	1.37
BELLE MINA 2 N, AL US	9/14/24	1.81	9/14/79	1.62	74	0.19
BESSEMER 3 WSW, AL US	9/14/24	2.06	9/14/07	1.9	47	0.16
BIRMINGHAM AIRPORT, AL US	9/14/24	3.63	9/14/61	1.15	94	2.48
MUSCLE SHOALS AIRPORT, AL US	9/14/24	4.72	9/14/07	1.15	83	3.57
ADDISON, AL US	9/15/24	2.15	9/15/09	0.57	86	1.58
ALEXANDER CITY, AL US	9/15/24	3.83	9/15/95	1.33	54	2.5
CHILDERSBURG WATER PLANT, AL US	9/15/24	4.95	9/15/59	0.61	67	4.34
CLAYTON, AL US	9/15/24	2	9/15/61	1	95	1
HOLT LOCK AND DAM, AL US	9/15/24	1.04	9/15/07	0.75	43	0.29
LAFAYETTE 2 W, AL US	9/15/24	1.83	9/15/47	1.7	79	0.13
OPELIKA, AL US	9/15/24	1.3	9/15/92	1.01	67	0.29
SYLACAUGA 4 NE, AL US	9/15/24	3.26	9/15/59	0.8	69	2.46
TALLADEGA, AL US	9/15/24	2.25	1888-09-15	2.1	136	0.15
BEVILL LOCK AND DAM, AL US	9/16/24	1.8	9/16/88	1.05	44	0.75
JACKSON, AL US	9/17/24	2.15	9/17/23	2.14	62	0.01
GAINESVILLE LOCK, AL US	9/25/24	2.05	9/25/91	1.64	76	0.41

CoCoRAHS

		Community Collabor	rative Rain, Hail and Sn	ow Network (CoCoRAHS)				
		,	September 2024					
							Normal	
	Ave. Total Precip.	#Stations		Ave. Total Precip.	#Stations	Pr	ecipitation*	
Autauga	2,64	1	Houston	11.56	4	Abbe	ille	3.53
Baldwin	5.41	45	Jackson	4.35	6	Albert	a	3.47
Barbour	16.97	1	Jefferson	7.13	14	Alex C	ity	4.10
Bibb	n.a.	0	Lamar	4.66	1	Alice		3.76
Blount	5.76	6	Lauderdale	10.74	8	Andal		4.62
Bullock	n.a.	0	Lawrence	11.81	4	Ashlar	nd	3.73
Butler	6.28	5	Lee	7.90	5	Athen	s	4.09
Calhoun	3.57	3	Limestone	4.77	8	Bay M	inette	5.82
Chambers	n.a.	0	Lowndes	n.a.	0	Besse	ner	3.85
Cherokee	4.75	1	Macon	n.a.	0	Billin	gsly	2.22
Chilton	6.36	1	Madison	3.88	30	Centr	eville WSMO	4.38
Choctaw	4.51	1	Marengo	n.a.	0	Chato	m	3.96
Clarke	5.11	3	Marion	7.60	1	Claibo	rneL&D	3.57
Clay	7.71	1	Marshall	3.22	10	Clayto	n	3.50
Cleburne	n.a.	0	Mobile	5.90	26	Daup	nin Isl.	5.38
Coffee	n.a.	0	Monroe	4.20	4	Elba		4.12
Colbert	10.97	4	Montgomery	8.49	4	Eufau	a WR	3.62
Conecuh	n.a.	0	Morgan	5.68	10	Everg	reen	4.31
Coosa	n.a.	0	Perry	n.a.	0	Fayet	e	3.36
Covington	2.65	1	Pickens	n.a.	0	Genes	a 2	4.25
Crenshaw	n.a.	0	Pike	n.a.	0	Green	ville	4.17
Cullman	6.31	4	Randolph	6.46	2	Haley	ville	4.33
Dale	n.a.	0	Russell	16.47	1	Hamii	ton 3S	3.88
Dallas	10.19	1	St. Clair	4.69	7	Heflin		3.27
DeKalb	5.16	6	Shelby	6.25	17	Hurts	boro	3.31
Elmore	6.72	3	Sumter	n.a.	0	Jaspe		4.26
Escambia	5.38	2	Talladega	6.62	1	Lafaye	tte	3.71
Etowah	3.59	2	Tallapoosa	7.94	1	Living	ston	3.24
Fayette	7.59	1	Tuscaloosa	5.68	5	Melvi	n	4.05
Franklin	n.a.	0	Walker	9.60	3	Milsto	ad	3.64
Geneva	7.20	1	Washington	6.10	1	Moult	on	3.86
Greene	n.a.	0	Wilcox	6.77	2	Oneo	vta	3.61
Hale	n.a.	0	Winston	10.50	4	Perry	ille	3.34
Henry	n.a.	0				Plant	ersville	4.05
						Rock		3.79
						Rockf	ord	3.96
						Sylaca		3.47
						Union	Springs	4.12
						Union	town	3.52
						Verno	n	3.46
						Warri	orL&D	3.55
						Wetu	mpka	3.37

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