

The
Alabama
Climate Report

Brought to you by the Office of the Alabama Climatologist

JUNE 2023



THE UNIVERSITY OF
ALABAMA IN HUNTSVILLE

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Unlike last year's toasty and dry June, June 2023 was quite different with cooler and wetter than normal conditions. Statewide, the average temperature was 0.9°F cooler than the long-term average of 77.5°F. Rainfall was 0.82 inches wetter than the long-term average of 4.28 inches.

With the exception of the last few days, when many stations recorded their warmest temperatures of the month, the majority of June was generally cool. Over 40 stations recorded temperatures at or above 95°F within the last few days. The warmest location of the month occurred at the Muscle Shoals Airport on June 30th, with a recorded temperature of 100°F. In contrast, a station in DeSoto State Park recorded the coldest temperature of the month at 47°F on the 10th.

As stated above, wetter than normal conditions prevailed for Alabama statewide during the month of June. The distribution of precipitation, however, exhibited a clear divide. The northern part of the state experienced drier than normal conditions, while the southern part experienced above-average rainfall. One significant result to note is that over 30 stations in southern Alabama recorded 10 inches or more of precipitation across a large area, as seen in the figure below. The Fairhope 7.4 S station recorded an impressive 19.70 inches, which was the most rainfall recorded this June. In contrast, the Birmingham Airport recorded the least amount of rainfall at 1.48 inches, with no missing observations.

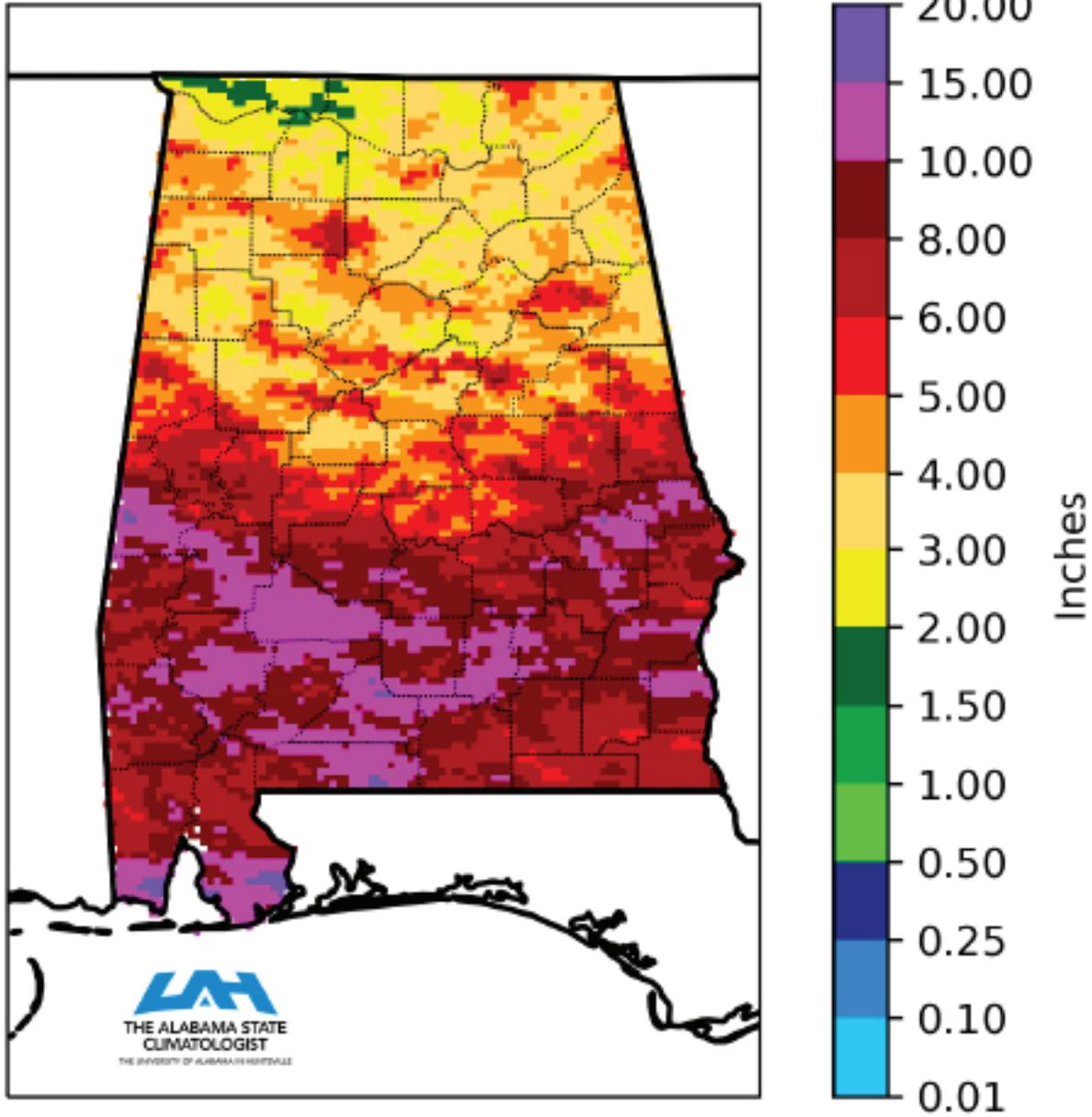
June is a sensitive time for corn in Alabama. Just 1 or 2 weeks of below normal rainfall can make a big difference in end of season yields. Conditions deteriorated for agriculture in the most northern counties in mid to late June, when rainfall was below normal and temperatures rose. As of June 27, the state had ~5% of its areas under D-1 (moderate drought) conditions, all confined to the north. Elsewhere, crops were progressing on target.

With the conclusion of June, we are halfway through 2023. Let's review how Alabama has fared thus far. Statewide, the first half of 2023 was the 5th warmest on record, with an average temperature of 62.7°F, which is 2.9°F warmer than normal. Precipitation-wise, Alabama was the 51st wettest on record, with 30.74 inches of precipitation, which is 0.89 inches wetter than normal. There have been 61 preliminary reported tornadoes so far in 2023, which is already much above the average of about 50 (1991–2020 reference period).

June 1st signifies the official start of hurricane season. This hurricane season is expected to be near-normal, according to the NOAA Climate Prediction Center, with 12–17 named storms, 5–9 hurricanes, and 1-4 major hurricanes (defined as Cat 3 or higher). Regardless of how much activity is predicted, all coastal residents/businesses should take proper precautions every season, as it only takes one hurricane making landfall to make it an active season for them. More information on how to prepare here: <https://www.ready.gov/hurricanes>.

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

Observed Precipitation June 2023



DROUGHT MONITOR

U.S. Drought Monitor Alabama

July 4, 2023
(Released Thursday, Jul. 6, 2023)
Valid 8 a.m. EDT



Intensity:

-  None
-  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. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

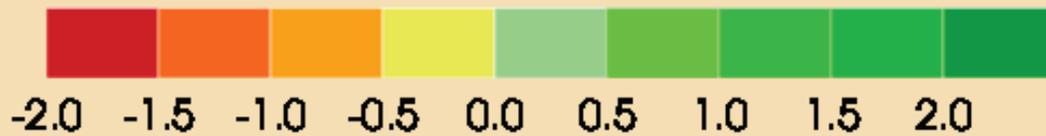
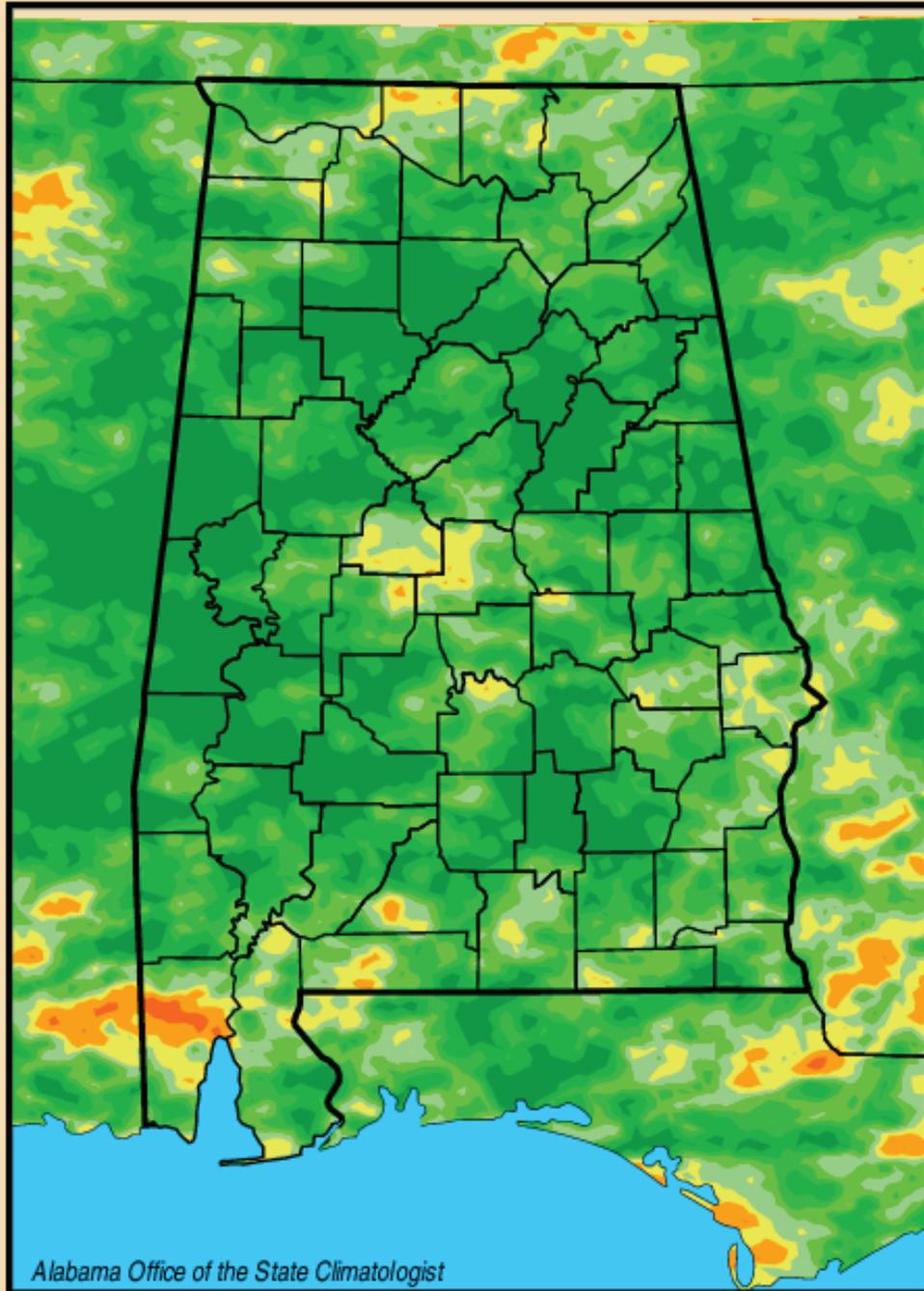
Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

LAWN AND GARDEN

Lawn-and-Garden Moisture Index
for July 10, 2023



ALABAMA MONTHLY CLIMATE SUMMARIES

Alabama Monthly Climate Summaries

June 2023

	June Mean June Norm	June High Temp Record High	June Low Temp Record Low	Total Precip. Normal Precip.	Wettest June Driest June	Heaviest June Record June
Anniston	75.7 76.6	93 6/30/23 102+ 6/27/54	58 6/10/23 42 6/1/72	3.07" 4.14"	9.27" 1982 .00" 1988	1.16" 6/25/23 3.60" 6/4/50
Auburn	M 78.3	M 107 6/19/33	M 39 6/3/56	M 4.17"	8.64" 1909 .57" 1931	M 3.64" 6/5/28
Birmingham	83.3 76.4	98 6/1/23 106 6/29/31	71 6/8/23 42 6/1/66	1.29" 3.78"	9.04" 1999 .79" 1988	.94" 6/3/23 3.85" 6/23/57
Brewton	76.5 77.3	94.3 6/30/23 109 6/18/33	62.8 6/6/23 40 6/3/56	8.61" 5.97"	13.80" 1989 1.90" 1998	2.33" 6/12/23 6.45" 6/3/70
Calera	77.2 76	97 6/30/23 103 6/29/69	62 6/4/23 37 6/1/66	3.87" 4.15"	14.58" 2003 .06" 1902	1.41" 6/16/23 5.04" 6/12/42
Clanton	75.3 76	94.5 6/30/23 106 6/19/36	58.7 6/10/23 42 6/3/56	4.26" 4.16"	11.82" 1991 .69" 1988	1.61" 6/15/23 7.82" 6/26/91
Courtland	74.9 M	95.9 6/30/23 M	58.4 6/10/23 M	2.79" M	M M	.54" 6/2/23 M
Cullman (St. Bernard)	73.3 M	92.7 6/30/23 M	55.5 6/10/23 M	2.05" M	M M	.72" 6/14/23 M
Decatur (Pryor Field)	75.9 77.9	96 6/30/23 108 6/10/14	58 6/10/23 44 6/3/56	2.13" 3.58"	11.07" 1900 .20" 1931	1.03" 6/25/23 3.06" 6/4/34
Dothan	80 80.1	98 6/30/23 104 6/27/52	66 6/15/23 49 6/3/56	4.97" 4.31"	8.52" 1942 1.10" 1945	1.53" 6/21/23 3.78" 6/22/49
Fairhope	79.1 79.2	94.1 6/30/23 100+ 6/11/54	62.6 6/6/23 52 6/1/84	8.57" 5.94"	18.52" 1989 .71" 1977	2.48" 6/23/23 7.80" 6/9/89
Gadsden	71.8 75.8	87.5 6/30/23 102 6/27/54	53.7 6/10/23 42 6/3/56	2.00" 4.34"	10.30" 1994 .13" 1988	.79" 6/18/23 3.10" 6/25/99
Gainesville Lock	76.1 77.2	94.9 6/30/23 101 6/24/77	62.4 6/4/23 42 6/1/84	4.50" 4.07"	9.56" 1983 .61" 1988	1.01" 6/18/23 3.49" 6/13/87
Greensboro	75.8 78.9	94.1 6/30/23 105+ 6/29/54	60.9 6/4/23 41 6/1/66	6.00" 3.72"	10.25" 1999 .66" 1988	1.61" 6/15/23 5.50" 6/3/70
Guntersville	M 75.4	M 103 6/26/88	M 44 6/4/56	M 3.85"	9.94" 1999 .19" 1988	M 4.20"+ 6/19/76
Highland Home	76.1 76.9	91.7 6/30/23 104+ 6/7/85	62.4 6/5/23 45 6/1/84	8.76" 4.70"	12.90" 1983 1.22" 1971	3.11" 6/15/23 4.30" 6/3/70
Huntsville	77.4 76.5	97 6/30/23 101 6/29/69	60 6/13/23 45 6/1/72	3.33" 4.10"	14.99" 1989 .17" 1988	1.41" 6/25/23 4.46" 6/14/69
Mobile	81.8 79.3	99 6/30/23 102+ 6/29/54	67 6/24/23 49 6/1/84	7.11" 5.01"	11.00" 1982 1.26" 1977	3.42" 6/16/23 6.08" 6/20/61
Montgomery	79.3 78.9	98 6/30/23 105 6/28/54	63 6/10/23 49+ 6/1/84	4.74" 4.13"	14.44" 1989 .33" 1979	2.08 6/14/23 3.91" 6/28/57
Muscle Shoals Airport	75 76.5	96.4 6/30/23 104 6/28/52	56.7 6/13/23 44 6/1/72	2.34" 4.90"	13.43" 1989 1.03" 1988	.41" 6/2/23 5.60" 6/12/92
Russellville	72.9 73.7	93.5 6/30/23 102 6/28/54	56.3 6/10/23 36+ 6/4/69	4.74" 4.23"	12.71" 1997 .50" 1988	1.69" 6/14/23 3.30" 6/8/94
Scottsboro	72.3 75.5	89.5 6/30/23 107+ 6/29/31	51.8 6/10/23 39 6/3/56	4.68" 4.38"	9.08" 1989 .65" 1988	1.08" 6/21/23 3.72" 6/29/41
Selma	76.3 80	94 6/30/23 108 6/28/54	59.7 6/4/23 42 6/1/84	6.84" 4.13"	10.32" 1989 .34" 1988	2.02" 6/14/23 3.65" 6/25/91
Talladega	74.8 77	93.4 6/30/23 102 6/27/54	55.8 6/10/23 39 6/1/72	3.90" 4.64"	11.97" 1989 .32" 1988	1.30" 6/11/23 4.60" 6/22/97
Thomasville	75.5 78.7	93.1 6/30/23 108 6/26/30	59.2 6/4/23 46+ 6/1/84	9.76" 4.92"	12.69" 1989 .93" 1988	2.42" 6/15/23 3.98" 6/29/43
Troy	75.4 77.5	93.3 6/30/23 105 6/19/33	59.8 6/10/23 43 6/9/00	8.79" 4.78"	12.63" 1989 1.04" 1986	3.07" 6/15/23 4.36" 6/4/70
Tuscaloosa	77.8 78.7	96 6/30/23 105 6/28/52	61 6/4/23 45 6/3/56	2.92" 4.20"	11.98" 1989 1.22" 1988	1.01" 6/14/23 3.41" 6/18/63
Valley Head	70.9 72.2	87.5 6/25/23 101 6/28/52	51.4 6/10/23 35 6/1/66	4.31" 4.33"	9.19" 1976 .54" 1988	.99" 6/22/23 3.08" 6/10/61

NEW ALABAMA CLIMATE RECORDS

Highest Minimum Temperature Monthly Record						
STATION	DATE	RECORD	PREV. DATE	PREV. RECC	NUMBER O	DIFFERENCE
MOBILE DOWNTOWN AIRPORT, AL US	6/15/23	83	6/15/63	82	74	1
MOBILE REGIONAL AIRPORT, AL US	6/15/23	82	6/18/22	79	75	3
Highest Maximum Temperature Daily Record						
DAUPHIN ISLAND NUMBER 2, AL US	6/11/23	91	6/11/07	91	47	0
DAUPHIN ISLAND NUMBER 2, AL US	6/13/23	91	6/13/16	91	47	0
Highest Minimum Temperature Daily Record						
RUSSELLVILLE NUMBER 2, AL US	6/5/23	72	6/5/08	72	69	0
MOBILE DOWNTOWN AIRPORT, AL US	6/14/23	79	6/14/15	79	74	0
MOBILE REGIONAL AIRPORT, AL US	6/14/23	78	6/14/98	77	75	1
MOBILE DOWNTOWN AIRPORT, AL US	6/15/23	83	6/15/63	82	74	1
MOBILE REGIONAL AIRPORT, AL US	6/15/23	82	6/15/98	79	75	3
ATMORE, AL US	6/27/23	75	6/27/18	75	83	0
DAUPHIN ISLAND NUMBER 2, AL US	6/29/23	85	6/29/09	84	47	1
MOBILE DOWNTOWN AIRPORT, AL US	6/29/23	79	6/29/52	79	74	0
Lowest Maximum Temperature Daily Record						
GREENSBORO, AL US	6/14/23	76	6/14/40	76	131	0
JACKSON, AL US	6/14/23	81	6/14/96	81	39	0
HUNTSVILLE INTNL AIRPORT, AL US	6/14/23	80	6/14/09	80	64	0
BELLE MINA 2 N, AL US	6/15/23	78	6/15/77	78	73	0
HAMILTON, AL US	6/15/23	78	6/15/09	79	61	-1
HEFLIN, AL US	6/15/23	74	6/15/99	75	67	-1
DOTHAN REGIONAL AIRPORT, AL US	6/15/23	73	6/15/85	77	53	-4
BREWTON 3 ENE, AL US	6/19/23	79	6/19/97	83	46	-4
JACKSON, AL US	6/19/23	79	6/19/19	81	39	-2
GENEVA NUMBER 2, AL US	6/22/23	76	6/22/83	77	47	-1
GUNTERSVILLE, AL US	6/23/23	75	6/23/63	76	113	-1
Lowest Minimum Temperature Daily Record						
THORSBY EXPERIMENTAL STATION, AL US	6/9/23	53	6/9/14	56	65	-3
GENEVA NUMBER 2, AL US	6/12/23	57	6/12/80	59	47	-2
DAUPHIN ISLAND NUMBER 2, AL US	6/18/23	70	6/18/00	71	47	-1
DAUPHIN ISLAND NUMBER 2, AL US	6/20/23	70	6/20/83	70	47	0
Highest Precipitation Daily Record						
VERNON, AL US	6/6/23	0.99	6/6/79	0.85	85	0.14
BREWTON 3 ENE, AL US	6/13/23	2.48	6/13/94	0.86	46	1.62
GAINESVILLE LOCK, AL US	6/14/23	1	6/14/65	0.86	75	0.14
OPELIKA, AL US	6/14/23	4.45	6/14/87	4	66	0.45
TROY, AL US	6/14/23	2.04	6/14/03	1.55	115	0.49
BILLINGSLEY, AL US	6/15/23	2.27	6/15/04	1.1	84	1.17
CLANTON, AL US	6/15/23	1.95	6/15/08	1.46	128	0.49
GREENSBORO, AL US	6/15/23	2.25	6/15/06	1.4	131	0.85
HEFLIN, AL US	6/15/23	1.25	6/15/89	1.24	67	0.01
TROY, AL US	6/15/23	3.67	6/15/16	1.56	115	2.11
WETUMPKA, AL US	6/15/23	1.94	6/15/89	1.74	129	0.2
DAUPHIN ISLAND NUMBER 2, AL US	6/16/23	3	6/16/79	2.67	47	0.33
DEMOPOLIS LOCK AND DAM, AL US	6/16/23	1.25	6/16/98	1.18	71	0.07
MOBILE DOWNTOWN AIRPORT, AL US	6/16/23	3.1	6/16/65	2.62	74	0.48
MOBILE REGIONAL AIRPORT, AL US	6/16/23	3.42	6/16/51	2.37	75	1.05
BAY MINETTE, AL US	6/17/23	1.66	6/17/52	1.5	109	0.16
JACKSON, AL US	6/17/23	2.45	6/17/96	0.94	61	1.51
BANKHEAD LOCK AND DAM, AL US	6/19/23	1.95	6/19/71	1.47	66	0.48
JASPER, AL US	6/19/23	1.35	6/19/76	1.25	62	0.1
DAUPHIN ISLAND NUMBER 2, AL US	6/20/23	2.15	6/20/76	2.1	47	0.05
GADSDEN, AL US	6/20/23	1.65	6/20/98	1.57	70	0.08
MOBILE DOWNTOWN AIRPORT, AL US	6/21/23	2.81	6/21/21	2.7	74	0.11

CoCoRAHS

Community Collaborative Rain, Hail and Snow Network (CoCoRAHS)									
June 2023									
	Ave. Total Precip.	# Stations			Ave. Total Precip.	# Stations		Normal June Precipitation*	
Autauga	5.13	1		Houston	3.20	2		Abbeville	5.20
Baldwin	10.05	35		Jackson	2.94	6		Alberta	4.36
Barbour	10.12	2		Jefferson	3.32	17		Alex City	4.45
Bibb	n.a.	0		Lamar	4.00	1		Aliceville	4.88
Blount	3.15	4		Lauderdale	1.88	9		Andalusia	5.30
Bullock	n.a.	0		Lawrence	2.52	4		Ashland	4.35
Butler	6.11	1		Lee	8.87	5		Athens	4.69
Calhoun	5.96	2		Limestone	2.70	8		Bay Minette	6.46
Chambers	n.a.	0		Lowndes	n.a.	0		Bessemer	4.51
Cherokee	n.a.	0		Macon	n.a.	0		Billingsly	3.39
Chilton	3.60	1		Madison	3.16	22		Centreville WSMC	4.28
Choctaw	6.66	1		Marengo	n.a.	0		Chatom	4.71
Clarke	5.90	4		Marion	3.07	1		Claiborne L&D	4.10
Clay	4.20	1		Marshall	3.75	10		Clayton	5.08
Cleburne	n.a.	0		Mobile	8.91	28		Dauphin Isl.	5.14
Coffee	n.a.	0		Monroe	8.97	4		Elba	5.70
Colbert	2.81	6		Montgomery	7.45	4		Eufaula WR	4.60
Conecuh	n.a.	0		Morgan	4.11	7		Evergreen	5.52
Coosa	n.a.	0		Perry	n.a.	0		Fayette	4.92
Covington	7.99	1		Pickens	n.a.	0		Geneva 2	5.79
Crenshaw	n.a.	0		Pike	n.a.	0		Greenville	5.00
Cullman	2.99	3		Randolph	4.94	2		Haleyville	4.83
Dale	n.a.	0		Russell	8.20	1		Hamilton 3S	4.95
Dallas	n.a.	0		St. Clair	3.69	6		Heflin	4.31
DeKalb	4.45	7		Shelby	3.38	17		Hurtsboro	3.49
Elmore	4.36	4		Sumter	n.a.	0		Jasper	4.87
Escambia	9.78	2		Talladega	3.11	2		Lafayette	4.18
Etowah	3.53	3		Tallapoosa	4.75	2		Livingston	4.48
Fayette	n.a.	0		Tuscaloosa	3.76	7		Melvin	1.73
Franklin	0.46	1		Walker	3.35	2		Milstead	4.34
Geneva	n.a.	0		Washington	8.89	1		Moulton	4.40
Greene	n.a.	0		Wilcox	10.04	2		Oneonta	4.67
Hale	n.a.	0		Winston	6.99	3		Perryville	4.08
Henry	n.a.	0						Plantersville	3.95
								Rock Mills	5.46
								Rockford	3.82
								Sylacauga	4.25
								Union Springs	5.22
								Uniontown	3.81
								Vernon	4.53
								Warrior L&D	4.07
								Wetumpka	4.22



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