

Volume 16, Number 3:: August 2024



August's weather was warmer and much drier than normal, statewide. The average temperature was 1.7°F warmer than the 20th-century mean of 79.3°F. However, the most notable aspect of the month was the lack of rainfall. Statewide, only 1.29 inches of precipitation was recorded—3.05 inches below normal—making this August the driest on record. The previous driest August was in 1925 (1.81") which was soon followed by the hottest temperature ever recorded in Alabama 5 days into September, 112°F in Centreville.

Most of the month was unseasonably warm with 35 stations reaching or eclipsing 100°F. Two stations, FWS Bon Secour station and Muscle Shoals Airport, recorded the warmest location of the month at 103°F on the 6th and 16th respectively. While most of the month was warmer than normal, there was a nice reprieve from the heat from about the 19th through the 26th of August thanks to an upper-level trough that brought in lower humidity and cooler temperatures. During this unseasonal cool period, the Vinemont 2NNW station recorded the coldest temperature of the month at 51°F on the 21st.

From a precipitation perspective—or rather, the lack thereof—most of Alabama saw little to no rainfall throughout the month of August, partly due to being on the dry side of Hurricane Debby earlier in the month. Unlike a typical August, when rainfall is unevenly distributed across the state, most stations reported drier-than-normal conditions. Over 100 stations recorded their driest August on record, many with long observation histories. Notable records from long-term observing stations (75+ years) include Greenville (1900-present), Montgomery Airport (1948-present), Gainesville Lock (1948-present), and Bay Minette (1913-present). While all these stations were exceptionally dry, the Florence 9.9 NW and Hillsboro 4.1 SSW stations stood out as the driest for the month, recording no measurable rainfall with no missing observations. It's worth noting that one station in Oneonta also reported no measurable rainfall but nearby stations and radar-derived rainfall data suggest this may be inaccurate.

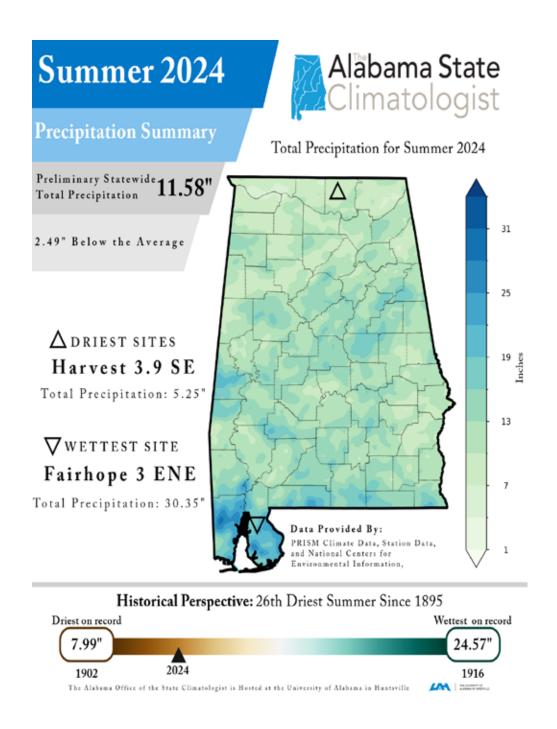
As such, we saw drought conditions ramp back up. By the end of August more than a quarter of the state was experiencing severe drought, according to the U.S. Drought Monitor. Areas in North and Northwest Alabama, never fully recovered in July, and have now been in D1 (Moderate Drought) or worse since July 2nd. Overall, this summers' dryness is taking its toll on the State's famers. The corn harvest is projected to be 50% or less than last year, with many farmers seeing total losses. The August dryness is being to effect peanuts and soybeans with worries of below normal yields due to the lack of moisture. In particular, pastures are being stunted by both the lack of moisture and the rise of army worms. Many producers continued with supplemental feeding.

While most of the state was dry, a few stations across the state received a decent amount of rainfall

such as along the Gulf coast. One such station was the Fairhope 3 NE station which recorded 6.58 inches of rainfall, the wettest location in August. However, even this total was still 0.39 inches below the station's normal of 6.97 inches.

The end of August signals the end of climatological summer (June, July, August). How hot was it this summer? Depends on your location within the state. Residents of Oneonta had a cooler than normal summer on average. While residents from Mobile had the 2nd hottest summer observed in their 77-year record! Statewide, this summer was the 15th warmest on record, with an average temperature of 80.5°F, which is +1.6°F warmer than normal. Precipitation-wise, this summer was the 26th driest on record, with 11.58 inches of precipitation, which is 2.49 inches drier than normal.

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



August 2024



Precipitation Summary

Monthly Total Precipitation for August 2024

Preliminary Statewide 1.29"
Total Precipitation

3.05" Below the Average

△DRIEST SITES
Florence 9.9 NW

Total Precipitation: 0.00"

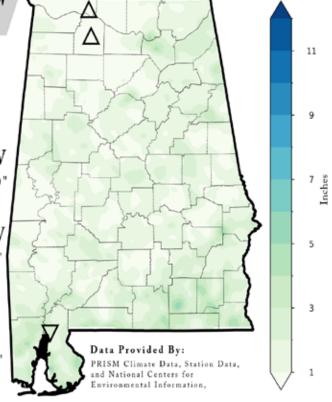
&

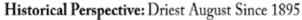
Hillsboro 4.1 SSW

Total Precipitation: 0.00"

V WETTEST SITE
Fairhope 3 NE

Total Precipitation: 6.58"







August 2024



Temperature Summary

Monthly Average Temperature for August 2024

Preliminary Statewide 81.0°F

1.7°F Above the Average

△HOTTEST SITES

Muscle Shoals

Airport

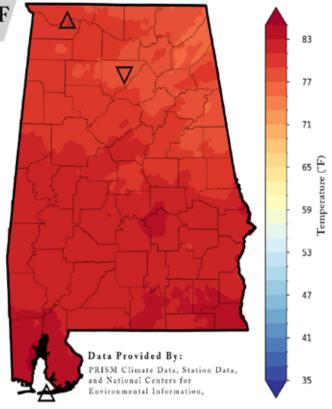
103°F on August 16th

FWS Bon Secour

103°F on August 6th

Vinemont 2 NNW

51°F on August 21st





The Alabama Office of the State Climatologist is Hosted at the University of Alabama in Huntsville

Summer 2024



Temperature Summary

Average Temperature for Summer 2024

Preliminary Statewide 80.5°F

1.6°F Above the Average

AVERAGE HOTTEST SITE Average Maximum Temperature

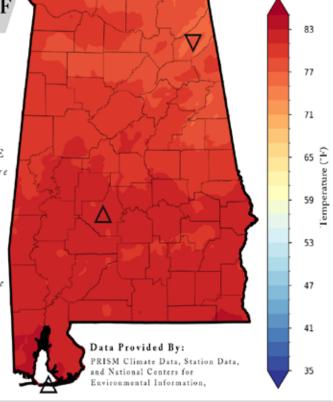
△ Selma

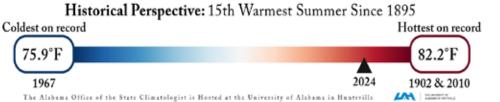
95.7°F for the summer

AVERAGE COLDEST SITE Average Minimum Temperature

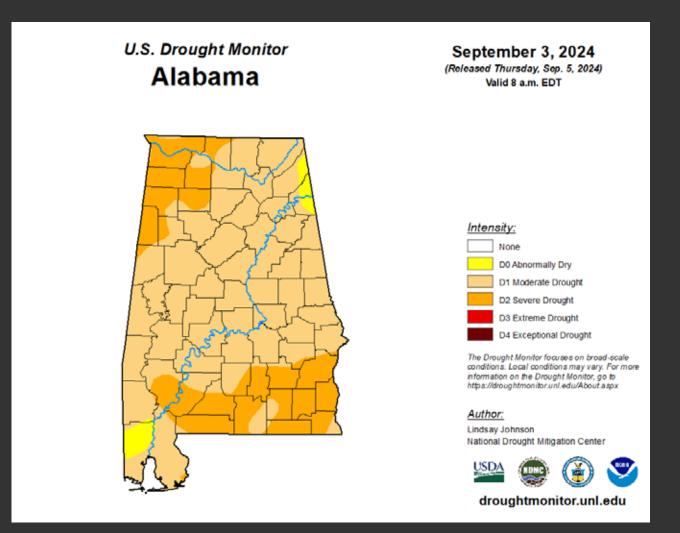
∇ Liri

63.8°F for the summer





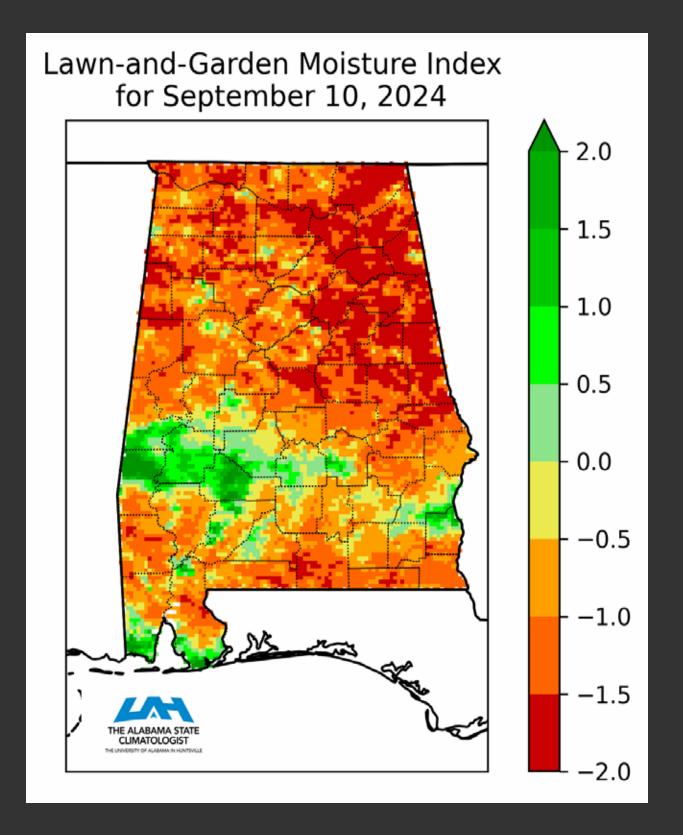
DROUGHT MONITOR



ALABAMA MONTHLY CLIMATE SUMMARIES

Alabama Monthly Climate Summaries									
			August 20	24					
	Aug. Mean Aug. Nom	Aug. High Temp Record High	Aug. Low Temp Record Low	Total Precip. Normal Precip.	Wettest Aug. Driest Aug.	Heaviest Aug. Record Aug.			
Anniston	96	96 8/28/24	61 8/24/24	1.82"	7.54" 1974	1.23" 8/17/24			
Allilistoli	79.5 M	106 8/21/83	50 8/28/52	3.35"	.50" 1983	5.57" 8/24/67			
Aubum	79.7	M 106 8/20/25	M 54 8/29/68	M 4.29"	11.03" 1944 .01" 1925	M 3.73" 8/17/39			
	82.1	99 8/29/24	62 8/21/24	1.09"	8.98" 1998	.54* 8/29/24			
Birmingham	79.6	104 8/8/35	51 8/31/46	3.48"	.38" 1989	4.15" 8/2/41			
Brewton	80.4 79.7	96 8/18/24 104+ 8/13/54	63.6 8/21/24 53+ 8/30/68	.51" 5.64"	14.69" 1977 1.67" 1980	.25* 8/17/24 7.20* 8/4/95			
	81.5	99 8/29/24	63 8/24/24	1.47"	15.00" 1939	.61* 8/31/24			
Calera	78.4	102 8/10/56	50 8/26/66	4.23"	.33" 1998	5.70" 8/26/08			
Clanton	78.9	94.3 8/29/24	60.1 8/24/24	2.96"	7.98" 1974	.67* 8/29/24			
	78.3 79.2	105 8/8/35 99 8/28/24	51 8/24/57 56.8 8/21/24	3.73"	.45" 1990 M	6.75* 8/26/70 .04* 8/16/24			
Courtland	M	99 0/20/24 M	M	.10 M	M	.04 6/16/24 M			
Cullman (St. Bernard)	76.6	97.4 8/30/24	54.8 8/21/24	.32"	M	.19* 8/31/24			
Culman (St. Bernard)	М	М	M	M	M	M			
Decatur (Pryor Field)	80.9 79.8	101 8/29/24 107 8/1/35	58 8/21/24 52 8/26/17	.82" 3.61"	11.93" 1919 .00" 1962	.74" 8/17/24 3.95" 8/22/60			
	84.3	100 8/18/24	68 8/23/24	.95"	20.85" 1939	.78* 8/31/24			
Dothan	81.2	103 8/26/38	43 8/24/1902	4.81"	1.47" 1958	4.80" 8/10/31			
Fairhope	81.7	95.6 8/14/24	64.9 8/21/24	6.59"	14.23" 1984	3.25" 8/16/24			
1 0 1110	81.1 75.2	102 8/30/00 92.6 8/29/24	60+ 8/30/92 54.1 8/21/24	6.22" 1.80"	1.25" 1997 9.52" 1992	5.74" 8/2/84 .89" 8/17/24			
Gadsden	78.9	105 8/16/54	52+ 8/12/67	3.65"	.10" 1983	3.32" 8/6/60			
Coloravilla Look	80.6	101.4 8/18/24	60.9 8/24/24	.19"	8.11" 1992	.10* 8/17/24			
Gainesville Lock	80.3	103+8/30/00	55 8/30/86	2.91"	.37" 1990	4.12" 8/10/70			
Greensboro	79.9 81.3	97.2 8/18/24 107 8/26/43	63.9 8/24/24 55 8/22/56	.89" 3.30"	7.01" 1993 1.16" 1989	.42* 8/18/24 4.22* 8/31/61			
	M	M	M	3.30 M	10.33" 1981	4.22 0/31/01 M			
Guntersville	78.2	105 8/21/83	48 8/29/92	3.36"	.33" 1990	5.76" 8/30/81			
Highland Home	80.3	96 8/28/24	64.3 8/24/24	.63"	8.28" 1984	.23* 8/28/24			
Tiginana Tomo	79 81.3	103 8/9/54 101 8/29/24	56 8/29/92 58 8/21/24	4.30"	.89" 1997 9.81" 1986	3.65" 8/12/86 .62" 8/2/24			
Huntsville	78.9	108 8/8/30	50 8/10/1954	3.42"	.58" 1998	4.29" 8/10/86			
Mobile	85.6	101 8/14/24	68 8/21/24	2.24"	15.19" 1984	1.80" 8/17/24			
Mobile	81.3	105 8/29/2000	57 8/25/1891	6.20"	1.04" 1997	5.65" 8/1/84			
Montgomery	84 81.2	100 8/28/24 104+ 8/24/83	65 8/20/24 56 8/29/92	.38" 3.63"	10.43" 1984 .73" 1997	.23* 8/18/24 5.38* 8/2/84			
	79.8	100 8/16/24	58.9 8/25/24	.63"	6.78" 1979	.34" 8/31/24			
Muscle Shoals Airport	79.1	105+8/16/54	53+ 8/29/92	2.96"	.15" 1990	3.43" 8/25/76			
Puesali illa	77.6	98 8/28/24	53.9 8/21/24	.10"	6.83" 1997	.09* 8/31/24			
Russellville	77	103+ 8/30/00	46+ 8/29/67	2.97"	.07" 1999	3.69" 8/16/85			
Scottsboro	76.1 77.7	98.5 8/30/24	55.1 8/25/24	1.66"	7.70" 1985	.94" 8/2/24 4.39" 8/11/01			
	80.8	105+ 8/16/54 98.5 8/28/24	46 8/23/82 60.3 8/24/24	3.43"	.74* 1999 8.84" 1984	.55* 8/18/24			
Selma	81	105+ 8/30/54	57+ 8/30/92	4.01"	.71" 1990	5.35" 8/15/39			
Talladega	78.7	97.1 8/29/24	58.4 8/25/24	2.22"	9.11" 1984	1.55" 8/2/24			
	77.3 79.5	103 8/16/54 96.7 8/18/24	46 8/23/50 62.7 8/26/24	3.52"	.60" 1999 9.01" 1996	4.30" 8/11/82 .29" 8/18/24			
Thomasville	80.9	105+ 8/31/54	53 8/22/56	3.88"	1.02" 1989	6.05" 8/14/39			
Troy	79.8	95.8 8/28/24	64 8/26/24	3.21"	8.38" 1996	2.89" 8/3/24			
Troy	80.2	106 8/28/54	55 8/31/46	3.56"	.55* 1989	6.75" 8/31/61			
Tuscaloosa	81.7 81.2	98 8/28/24 107 8/10/07	62 8/24/24 53 8/22/56	1.78" 3.80"	8.84" 1970 .57" 1953	.85" 8/2/24 2.87" 8/10/67			
	74.8	94.9 8/29/24	56 8/21/24	1.57"	6.68" 1981	1.19" 8/16/24			
Valley Head	75.3	105 8/16/54	46 8/13/64	3.49"	.58" 1983	3.61" 8/4/84			

LAWN & GARDEN



NEW ALABAMA CLIMATE RECORDS

Highest Maximum Temperature Monthly Record						
Station	Date	Record	Prev. Date	Prev. Record	Number of Years	Difference
GENEVA NUMBER 2, AL US	8/19/24	107	8/2/10	101	48	6
·						
Highest Minimum Temperature Monthly Record						
MUSCLE SHOALS AIRPORT, AL US	8/1/24	78	8/21/83	78	83	0
CLAYTON, AL US	8/2/24	77	8/23/23	77	68	0
HAMILTON, AL US	8/2/24	75	8/31/12	75	62	0
MOBILE DOWNTOWN AIRPORT, AL US	8/2/24	83	8/10/23	83	75	0
MOULTON 2, AL US	8/17/24	76	8/3/10	76	67	0
Highest Precipitation for One Day Monthly Record	d					
HEADLAND, AL US	8/5/24	5.75	8/17/21	5.47	74	0.28
Highest Maximum Temperature Daily Record						
MOBILE DOWNTOWN AIRPORT, AL US	8/2/24	100	8/2/10	99	75	1
MOBILE DOWNTOWN AIRPORT, AL US	8/4/24	97	8/4/23	97	75	0
MOBILE DOWNTOWN AIRPORT, AL US	8/6/24	100	8/6/23	99	75	1
MOBILE REGIONAL AIRPORT, AL US	8/6/24	98	8/6/23	98	76	0
MOBILE DOWNTOWN AIRPORT, AL US	8/10/24	98	8/10/23	98	75	0
MOBILE REGIONAL AIRPORT, AL US	8/14/24	101	8/14/23	99	76	2
DOTHAN REGIONAL AIRPORT, AL US	8/18/24	100	8/18/00	100	54	0
GAINESVILLE LOCK, AL US	8/19/24	101	8/19/99	100	66	1
GENEVA NUMBER 2, AL US	8/19/24	107	8/19/00	100	48	7
GENEVA NUMBER 2, AL US	8/20/24	106	8/20/11	98	48	8
GENEVA NUMBER 2, AL US	8/21/24	106	8/21/11	99	48	7
ATHENS, AL US	8/27/24	97	8/27/07	95	32	2
RUSSELLVILLE NUMBER 2, AL US	8/27/24	97	8/27/06	97	70	0
ATHENS, AL US	8/28/24	100	8/28/06	94	32	6
MUSCLE SHOALS AIRPORT, AL US	8/28/24	102	8/28/90	102	83	0
RUSSELLVILLE NUMBER 2, AL US	8/29/24	100	8/29/54	100	70	0
ATHENS, AL US	8/30/24	98	8/30/00	98	32	0
GUNTERSVILLE, AL US	8/30/24	97	8/30/94	97	114	0
MOULTON 2, AL US	8/30/24	101	8/30/00	99	67	2
HUNTSVILLE INTNL AIRPORT, AL US	8/30/24	100	8/30/00	98	65	2
GUNTERSVILLE, AL US	8/31/24	97	8/31/59	97	114	0
HUNTSVILLE INTNL AIRPORT, AL US	8/31/24	97	8/31/16	97	65	0
MONTGOMERY AIRPORT, AL US	8/31/24	98	8/31/51	98	76	0

NEW ALABAMA CLIMATE RECORDS

Highest Minimum Temperature Daily Record						
ATHENS, AL US	8/1/24	77	8/1/10	76	32	1
DEMOPOLIS LOCK AND DAM, AL US	8/1/24	77	8/1/10	77	72	0
FAYETTE, AL US	8/1/24	76	8/1/1892	75	115	1
HAMILTON, AL US	8/1/24	72	8/1/20	72	62	0
JACKSON, AL US	8/1/24	76	8/1/98	76	40	0
RUSSELLVILLE NUMBER 2, AL US	8/1/24	75	8/1/11	75	70	0
MOBILE REGIONAL AIRPORT, AL US	8/1/24	79	8/1/12	79	76	0
MUSCLE SHOALS AIRPORT, AL US	8/1/24	78	8/1/10	76	83	2
TUSCALOOSA AIRPORT ASOS, AL US	8/1/24	76	8/1/12	76	76	0
ATHENS, AL US	8/2/24	76	8/2/06	75	32	1
ATMORE, AL US	8/2/24	78	8/2/10	78	84	0
CLAYTON, AL US	8/2/24	77	8/2/12	74	68	3
GENEVA NUMBER 2, AL US	8/2/24	75	8/2/86	75	48	0
HAMILTON, AL US	8/2/24	75	8/2/10	72	62	3
MOULTON 2, AL US	8/2/24	75	8/2/99	74	67	1
MOBILE DOWNTOWN AIRPORT, AL US	8/2/24	83	8/2/10	80	75	3
DOTHAN REGIONAL AIRPORT, AL US	8/2/24	79	8/2/09	79	54	0
MOBILE REGIONAL AIRPORT, AL US	8/2/24	80	8/2/10	79	76	1
MONTGOMERY AIRPORT, AL US	8/2/24	77	8/2/10	77	76	0
MUSCLE SHOALS AIRPORT, AL US	8/2/24	76	8/2/99	76	83	0
ATMORE, AL US	8/3/24	76	8/3/11	76	84	0
BAY MINETTE, AL US	8/3/24	78	8/3/29	78	109	0
MOBILE DOWNTOWN AIRPORT, AL US	8/3/24	79	8/3/08	79	75	0
GREENSBORO, AL US	8/5/24	79	8/5/95	78	132	1
LAFAYETTE 2 W, AL US	8/5/24	72	8/5/16	72	79	0
MONTGOMERY AIRPORT, AL US	8/5/24	76	8/5/17	76	76	0
DEMOPOLIS LOCK AND DAM, AL US	8/6/24	76	8/6/07	76	72	0
SELMA, AL US	8/6/24	77	8/6/07	77	127	0
MUSCLE SHOALS AIRPORT, AL US	8/8/24	74	8/8/00	74	83	0
RUSSELLVILLE NUMBER 2, AL US	8/11/24	76	8/11/10	75	70	1
MOULTON 2, AL US	8/17/24	76	8/17/87	76	67	0
FAIRHOPE 2 NE, AL US	8/28/24	76	8/28/00	76	106	0
MOBILE REGIONAL AIRPORT, AL US	8/28/24	77	8/28/00	77	76	0
BESSEMER 3 WSW, AL US	8/29/24	74	8/29/16	74	47	0
RUSSELLVILLE NUMBER 2, AL US	8/29/24	73	8/29/12	73	70	0
RUSSELLVILLE NUMBER 2, AL US	8/31/24	73	8/31/03	73	70	0
MOBILE REGIONAL AIRPORT, AL US	8/31/24	77	8/31/17	76	76	1

Lowest Minimum Temperature Daily Record						
BANKHEAD LOCK AND DAM, AL US	8/20/24	56	8/20/91	59	67	-3
ATHENS, AL US	8/21/24	57	8/21/12	60	32	-3
HEFLIN, AL US	8/21/24	55	8/21/91	55	68	0
MOULTON 2, AL US	8/21/24	55	8/21/12	57	67	-2
ONEONTA, AL US	8/21/24	56	8/21/91	56	129	0
Highest Precipitation Daily Record						
BEVILL LOCK AND DAM, AL US	8/3/24	1.25	8/3/21	0.42	44	0.83
HOLT LOCK AND DAM, AL US	8/3/24	1.55	8/3/22	1.4	43	0.15
TROY, AL US	8/3/24	1.7	8/3/43	1.31	116	0.39
WALNUT GROVE, AL US	8/3/24	1.33	8/3/68	1.09	83	0.24
HEADLAND, AL US	8/5/24	5.75	8/5/16	1.05	74	4.7
ALEXANDER CITY, AL US	8/19/24	1.23	8/19/94	1.1	54	0.13

CoCoRAHS

		Community Col	laborative Rain, Hail and Sno	ow Network (CoCoRAHS)		
			August 2024				
						Normal August	
	Ave. Total Precip.	#Stations		Ave. Total Precip.	#Stations	Precipitation*	
Autauga	0.30	28	Houston	2.19	4	Abbeville	4.63
Baldwin	3.57	44	Jackson	2.55	6	Alberta	4.22
Barbour	2.26	1	Jefferson	1.65	14	Alex City	4.50
Bibb	n.a.	0	Lamar	1.90	1	Aliceville	3.57
Blount	1.78	6	Lauderdale	0.25	8	Andalusia	5.65
Bullock	n.a.	0	Lawrence	0.10	2	Ashland	4.47
Butler	0.45	5	Lee	0.94	5	Athens	3.39
Calhoun	1.41	3	Limestone	1.14	9	Bay Minette	6.44
Chambers	n.a.	0	Lowndes	n.a.	0	Bessemer	3.72
Cherokee	n.a.	0	Macon	n.a.	0	Billingsly	4.16
Chilton	2.42	1	Madison	1.35	30	Centreville WSM	5.02
Choctaw	0.30	1	Marengo	n.a.	0	Chatom	4.69
Clarke	0.70	2	Marion	0.67	1	Claiborne L&D	4.09
Clay	2.14	1	Marshall	2.95	10	Clayton	4.10
Cleburne	n.a.	0	Mobile	2.57	25	Dauphin Isl.	7.19
Coffee	n.a.	0	Monroe	1.45	4	Elba	4.49
Colbert	0.53	4	Montgomery	1.89	4	Eufaula WR	3.57
Conecuh	n.a.	0	Morgan	1.16	10	Evergreen	5.07
Coosa	n.a.	0	Perry	n.a.	0	Fayette	3.84
Covington	1.76	1	Pickens	n.a.	0	Geneva 2	5.03
Crenshaw	n.a.	0	Pike	n.a.	0	Greenville	4.76
Cullman	0.61	5	Randolph	0.73	2	Haleyville	4.35
Dale	n.a.	0	Russell	2.36	1	Hamilton 3S	4.01
Dallas	0.95	1	St. Clair	1.15	7	Heflin	3.55
DeKalb	2.31	6	Shelby	1.40	17	Hurtsboro	3.37
Elmore	1.09	3	Sumter	n.a.	0	Jasper	3.33
Escambia	1.23	2	Talladega	1.78	2	Lafayette	4.20
Etowah	2.30	2	Tallapoosa	2.07	1	Livingston	4.51
Fayette	1.69	1	Tuscaloosa	2.32	5	Melvin	6.86
Franklin	n.a.	0	Walker	0.67	3	Milstead	4.12
Geneva	1.85	1	Washington	0.25	1	Moulton	3.66
Greene	n.a.	0	Wilcox	2.44	2	Oneonta	3.31
Hale	n.a.	0	Winston	0.36	4	Perryville	3.56
Henry	n.a.	0				Plantersville	4.45
						Rock Mills	3.85
						Rockford	4.90
						Sylacauga	3.79
						Union Springs	4.48
						Uniontown	4.59
						Vernon	2.78
						Warrior L&D	4.02
						Wetumpka	4.30

Alabama State Climatologist

John R. Christy

Alabama State Climatologist

The University of Alabama

in Huntsville

christy@nsstc.uah.edu

256-961-7763

Assistant State Climatologist

Robert Junod

The University of Alabama in Huntsville

rjunod@nsstc.uah.edu

256-961-7743

Associate State Climatologist

Lee Ellenburg

The University of Alabama in Huntsville

wleoooo1@uah.edu

256-961-7498

For questions, please contact:

alabama.climate@nsstc.uah.edu http://nsstc.uah.edu/alclimatereport