

# Alabamate Report

Brought to you by the Office of the Alabama Climatologist





# Volume 13, Number 7:: October 2021



Typically in Alabama, October is our driest month of the year statewide. This statement was far from the truth for parts of the state, thanks in part to a deluge of rain that occurred on the evening of October 6th in the Birmingham metro area and portions of northeast Alabama. From a statewide perspective, Alabama was 1.7 inches wetter than the 20th century normal of 2.83 inches.

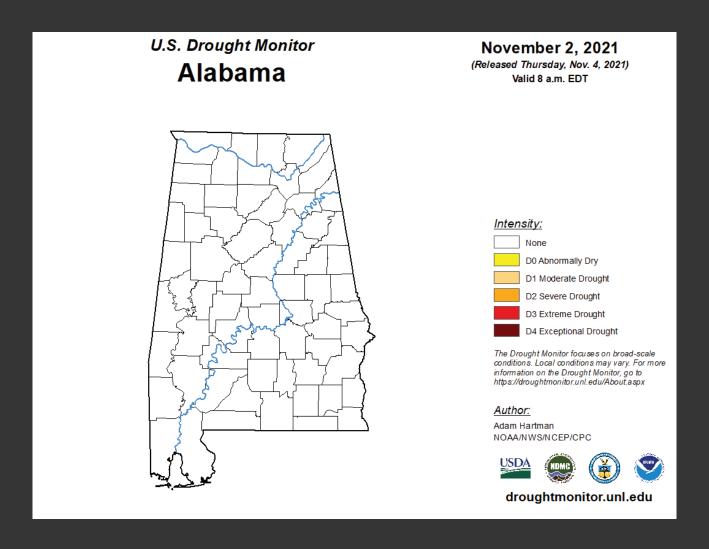
In the Birmingham metro area and portions of northeast Alabama, significant flooding occurred from the high rainfall rates and previously saturated ground. Most stations in these areas had over 60% of their October 2021 rainfall over the time span of a few hours! The torrential rain was due to a stalled stationary front west of Birmingham and strong southeasterly flow. Numerous stations exceeded their one-day rainfall record for October as well as their monthly rainfall record, mainly from this event. Unfortunately, there were four fatalities due to vehicles being swept off the road. More details about this event can be found here: https://www.weather.gov/bmx/event 10062021.

From a temperature perspective, Alabama was 3.4°F warmer than normal statewide. Most of this warmth was driven by the anomalous warm nights as the average day-time high temperatures were only 0.9°F warmer than normal in contrast to the average night-time low temperatures that were 6.0°F warmer than normal. Despite the much warmer than normal night-time low temperatures, several locations dipped in the mid/upper-30s in North Alabama, with the Valley Head 1 SSW and Russellville 4 SSE stations recording the coldest location of month at 36°F on the 18th. While no station broke a day-time high temperature record, eleven stations reported temperatures in the 90s this month and once again the Andalusia-Opp Airport station had the warmest location of the month at 93°F on the 1st & 15th. It should be noted that, the Greenville Mac Crenshaw Memorial Airport recorded a temperature of 100°F on the 25th but we believe this a bad reading based on a nearby station that was 21°F colder.

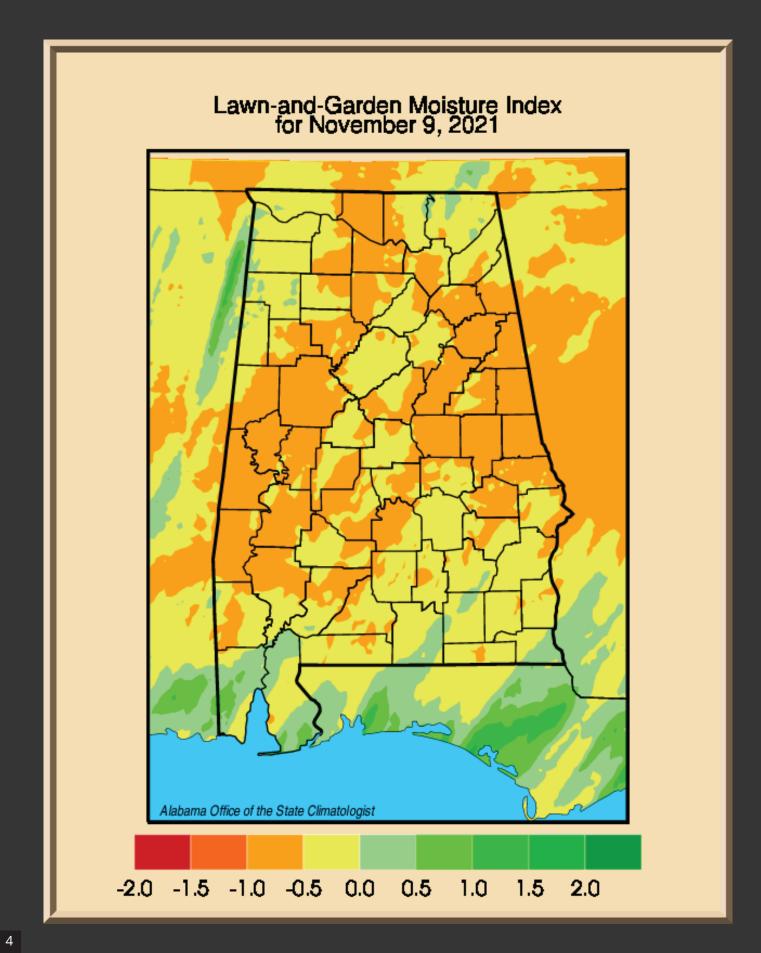
No reported tornadoes this month for Alabama but we would be remiss if we didn't remind everyone that in our state, tornado season never really ends and that there is a secondary peak in late fall. This November is the 20th anniversary of November 2001 24th-25th tornado outbreak of 36 tornadoes that were responsible for 4 fatalities and 102 injuries.

Let's be weather aware/prepared.

# DROUGHT MONITOR



## LAWN AND GARDEN



## ALABAMA MONTHLY CLIMATE SUMMARIES

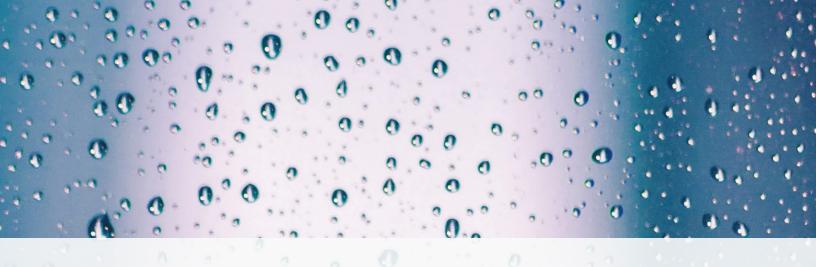
Alabama Monthly Climate Summaries								
	October 2021							
	Oct Moon	O-4 115-b T	O-4   T	Total Bussin	W-44 O-4	Handa at Day		
	Oct. Mean Oct. Norm	Oct. High Temp Record High	Oct. Low Temp Record Low	Total Precip. Normal Precip.	Wettest Oct. Driest Oct.	Heaviest Day Record Day		
A	67	87 10/1/21	40 10/17/21	2.80"	9.35" 1995	1.17" 10/21/21		
Anniston	62.9	99 10/05/54	22 10/30/52	2.87"	.15" 1978	3.96" 10/8/77		
Auburn	67.1	85 10/1/21	44 10/19/21	5.48"	10.24" 1970	2.05" 10/4/21		
	62.5	94+ 10/6/54	27+ 10/28/57	3.4"	0.00" 1963	5.72" 10/1/65		
Birmingham	67.9	87 10/1/21	45 10/17/21	9.39"	11.90" 1995	2.76" 10/6/21		
	62.9 67.4	94 10/06/54 87.3 10/1/21	27 10/28/57 44.7 10/17/21	3.23" 4.54"	.07" 1991 14.95" 1995	6.94" 10/3/95 1.37" 10/4/21		
Brewton	64.5	97+ 10/5/54	21 10/30/52	3.09"	.05" 1998	7.5" 10/5/95		
Calera	67.5	86 10/1/21	47 10/19/21	9.16"	10.74" 1918	3.84" 10/5/21		
- Calera	62.2	95 10/01/81	22 10/26/82	4.16"	0.00" 1924	4.70" 10/05/95		
Clanton	65 62	86.3 10/1/21 98 10/6/54	42.3 10/19/21 24+ 10/29/57	7.05" 3.14"	10.32" 1995 .00" 1978	3.77" 10/4/21 6.30" 10/5/95		
	64.3	84.9 10/1/21	39.6 10/18/21	6.86"	.00 1978 M	4.20" 10/5/21		
Courtland	M	M	M	M	M	M		
Cullman (St. Bernard)	62.7	82.6 10/1/21	38.1 10/17/21	4.28"	М	1.26" 10/5/21		
	М	М	M	М	М	M		
Decatur (Pryor Field)	65	86 10/8/21	39 10/18/21	3.06"	8.83" 1932	1.01" 10/5/21		
	62.8 70.4	100 10/05/1911 89 10/15/21	26 10/31/17 45 10/18/21	M 4.33"	0.00" 1924 12.41" 1932	6.40" 10/18/28 1.70" 10/7/21		
Dothan	68	95 10/01/33	29 10/29/08	3.25"	0.00" 1939	7.37" 10/31/32		
Fairkana	69.7	86.9 10/1/21	43.2 10/31/21	6.61"	13.08" 1985	4.32" 10/4/21		
Fairhope	67.9	93+ 10/5/54	33+ 10/21/89	3.57"	.00" 1978	7.37" 10/5/95		
Gadsden	62	81.8 10/15/21	37.6 10/18/21	4.08"	9.00" 1995	1.24" 10/3/21		
	61.8 66.3	96 10/5/54 86.2 10/15/21	23 10/30/54 43.1 10/18/21	2.95" 1.81"	.24" 1978 8.83" 1985	4.98" 10/26/97 .48" 10/21/21		
Gainesville Lock	63.5	94 10/1/81	30+ 10/29/2001	3.15"	.03" 1987	3.86" 10/25/77		
Greensboro	64.9	86.7 10/1/21	40.5 10/18/21	1.35"	10.00" 1995	.45" 10/27/21		
Greensboro	65.3	100+ 10/6/54	24 10/26/65	3.37"	.20" 1987	4.42" 10/21/59		
Guntersville	М	M	M	M	7.65" 1977	M		
	61.1 67	95 10/5/54 85.6 10/1/21	26 10/28/57 43.4 10/18/21	3.06" 6.63"	.03" 1991 12.13" 1995	4.00" 10/10/34 3.45" 10/4/21		
Highland Home	64.9	94 10/6/54	29 10/16/87	2.67"	.00" 1973	6.10" 10/1/65		
Livetoville	65.5	86 10/1/21	39 10/18/21	3.36"	12.06" 1975	1.13" 10/5/21		
Huntsville	61.3	96 10/08/1911	23 10/30/63	3.54"	.01" 2000	4.86" 10/7/75		
Mobile	70.5	88 10/15/21	32 10/31/21	4.47"	13.20" 1985	3.19" 10/27/21		
	67.7	95 10/02/1904	30 10/31/93	3.25"	.00" 1978	4.99" 10/29/85		
Montgomery	69.5 65.4	90 10/15/21 100 10/06/54	42 10/18/21 26 10/30/52	6.00" 2.58"	7.60" 1995 .01" 1978	3.02" 10/4/21 4.02" 10/4/64		
Marada Ob. 1 At. 1	68.1	88 10/13/21	43 10/18/21	5.56"	8.25" 1984	2.44" 10/5/21		
Muscle Shoals Airport	61.5	94+ 10/12/63	25 10/27/61	3.22"	.00" 2000	3.24" 10/24/86		
Russellville	63.2	84.1 10/1/21	35.6 10/18/21	5.06"	8.68" 1984	2.53" 10/5/21		
	59.6	93 10/6/54	19 10/28/61	3.43"	.16" 2000	3.33" 10/29/70		
Scottsboro	62.7 60	83.4 10/1/21 96 10/5/54	39.4 10/18/21 20 10/26/68	4.43" 3.61"	8.06"1984 .36" 1991	2.41" 10/6/21 4.70" 10/26/97		
	66.4	86.7 10/15/21	39.6 10/18/21	3.50"	9.24" 1995	.95" 10/21/21		
Selma	65.8	100+ 10/6/54	27 10/30/52	2.59"	.06" 2000	6.09" 10/5/95		
Talladega	64.3	85.4 10/1/21	36.8 10/18/21	4.31"	11.01" 1995	1.86" 10/21/21		
	60.3	99 10/5/54	23+ 10/25/65	3.36"	.02" 1978	5.51" 10/5/95		
Thomasville	66 65.7	85.4 10/15/21 100 10/7/54	42 10/19/21 29+ 10/31/93	3.14" 2.9"	10.41" 1997 .03" 1987	1.27" 10/4/21 5.80" 10/31/67		
_	70	90 10/15/21	41 10/18/21	4.51"	12.19" 1995	1.57" 10/5/21		
Troy	64.9	103 10/5/54	28 10/24/37	2.84"	.06" 1987	6.50 10/4/95		
Tuscaloosa	68.4	88 10/1/21	43 10/18/21	3.13"	9.11" 1995	1.87" 10/5/21		
	65	98 10/04/54	23 10/30/52	3.47"	.12" 1987	5.73" 10/25/77		
Valley Head	60.9	80.8 10/1/21	36 10/18/21	4.09"	9.91" 1995	1.19" 10/3/21		
	57.9	93+ 10/5/54	19 10/27/61	3.29"	.10" 1991	6.02" 10/5/95		

# NEW ALABAMA CLIMATE RECORDS

Highest Minimum Temperature Monthly Record						
STATION	DATE	RECORD	PREV. DATE	PREV. RECORD	NUMBER OF YEARS	DIFFERENCE
CHILDERSBURG WATER PLANT, AL US	10/1/21	77	10/10/18	75	64	2
Highest Maximum Temperature Daily Record						
DAUPHIN ISLAND NUMBER 2, AL US	10/12/21	86	10/12/19	86	45	0
MOBILE DOWNTOWN AIRPORT, AL US	10/12/21	90	10/12/19	87	72	3
DAUPHIN ISLAND NUMBER 2, AL US	10/15/21	85	10/15/12	85	45	0
MONTGOMERY AIRPORT, AL US	10/15/21	90	10/15/90	90	73	0
ENTERPRISE 4 W, AL US	10/16/21	90	10/16/18	89	55	1
MOBILE DOWNTOWN AIRPORT, AL US	10/25/21	89	10/25/16	85	72	4
DAUPHIN ISLAND NUMBER 2, AL US	10/26/21	86	10/26/04	84	45	2
Highest Minimum Temperature Daily Record						
CHILDERSBURG WATER PLANT, AL US	10/1/21	77	10/1/18	71	64	6
HEFLIN, AL US	10/3/21	65	10/3/19	65	65	0
ANNISTON METROPOLITAN AIRPORT, AL US	10/3/21	70 71	10/3/19	70 71	118	0
MONTGOMERY AIRPORT, AL US GADSDEN, AL US	10/3/21 10/7/21	68	10/3/19 10/7/59	68	73 68	0
VERNON, AL US	10/7/21	69	10/12/14	68	64	1
BIRMINGHAM AIRPORT, AL US	10/12/21	70	10/12/20	70	91	0
MUSCLE SHOALS AIRPORT, AL US	10/12/21	68	10/12/01	66	80	2
TUSCALOOSA AIRPORT ASOS, AL US	10/12/21	70	10/12/20	70	73	0
BELLE MINA 2 N, AL US	10/13/21	66	10/13/54	66	71	0
GUNTERSVILLE, AL US	10/13/21	67	10/13/14	66	111	1
HALEYVILLE, AL US	10/13/21	67	10/13/01	65	118	2
RUSSELLVILLE NUMBER 2, AL US	10/13/21	67	10/13/70	67	67	0
HUNTSVILLE INTNL AIRPORT, AL US	10/13/21	67	10/13/14	67	62	0
MUSCLE SHOALS AIRPORT, AL US	10/13/21	69	10/13/54	68	80	1
GUNTERSVILLE, AL US	10/14/21	66	10/14/14	66	111	0
MUSCLE SHOALS AIRPORT, AL US	10/14/21	65	10/14/12	65	80	0
MUSCLE SHOALS AIRPORT, AL US	10/15/21	66	10/15/49	64	80	2
DEMOPOLIS LOCK AND DAM, AL US	10/21/21	68 66	10/21/84	67 66	69 73	0
TUSCALOOSA AIRPORT ASOS, AL US MARION JUNCTION 2 NE, AL US	10/21/21 10/22/21	67	10/21/85 10/22/50	67	71	0
WARRION JONE HON 2 NE, AE 03	10/22/21	07	10/22/30	07	71	0
Lowest Maximum Temperature Daily Record						
TUSCALOOSA AIRPORT ASOS, AL US	10/29/21	56	10/29/17	56	73	0
HEFLIN, AL US	10/30/21	54	10/30/73	54	65	0
MOBILE REGIONAL AIRPORT, AL US	10/30/21	58	10/30/54	58	73	0
BREWTON 3 ENE, AL US	10/31/21	59	10/31/80	59	44	0
GENEVA NUMBER 2, AL US	10/31/21	61	10/31/80	63	45	-2
OPELIKA, AL US	10/31/21	58	10/31/80	58	64	0
Highest Precipitation Daily Record	10/1/21	0.50	10/1/62	0.3	72	0.26
MOBILE DOWNTOWN AIRPORT, AL US WALNUT GROVE, AL US	10/1/21 10/3/21	0.56 1.49	10/1/62 10/3/61	1.4	80	0.26 0.09
FORT PAYNE, AL US	10/4/21	1.41	10/4/37	0.94	85	0.47
HAMILTON, AL US	10/4/21	0.98	10/4/90	0.82	59	0.16
ATMORE, AL US	10/5/21	1.87	10/5/09	1.42	81	0.45
BESSEMER 3 WSW, AL US	10/5/21	1.89	10/5/95	1.25	44	0.64
MONTGOMERY AIRPORT, AL US	10/5/21	3.1	10/5/19	0.58	73	2.52
MUSCLE SHOALS AIRPORT, AL US	10/5/21	2.44	10/5/60	0.9	80	1.54
TUSCALOOSA AIRPORT ASOS, AL US	10/5/21	1.87	10/5/60	1.84	73	0.03
BEVILL LOCK AND DAM, AL US	10/6/21	0.95	10/6/01	0.77	41	0.18
BANKHEAD LOCK AND DAM, AL US	10/6/21	1.14	10/6/60	0.96	64	0.18
BOAZ, AL US	10/6/21	1.73	10/6/01	0.87	83	0.86
BREWTON 3 ENE, AL US	10/6/21	7.8	10/6/98	0.76	44	7.04
CAHABA PUMP HOUSE, AL US	10/6/21	1.86	10/6/13	1.52	39	0.34
HOLT LOCK AND DAM, AL US MOULTON 2, AL US	10/6/21 10/6/21	0.73 2.54	10/6/09	0.06 1.19	40 64	0.67 1.35
RUSSELLVILLE NUMBER 2, AL US	10/6/21	1.85	10/6/82 10/6/76	1.19	67	0.85
CAHABA PUMP HOUSE, AL US	10/0/21	4.1	10/7/02	1.98	39	2.12
ENTERPRISE 4 W, AL US	10/7/21	1.73	10/7/00	0.8	55	0.93
GUNTERSVILLE, AL US	10/7/21	2.81	10/7/55	1.8	116	1.01
SCOTTSBORO, AL US	10/7/21	3.18	10/7/55	2.28	129	0.9
DOTHAN REGIONAL AIRPORT, AL US	10/7/21	1.7	10/7/82	1.59	51	0.11
BELLE MINA 2 N, AL US	10/16/21	0.79	10/16/64	0.37	71	0.42
TALLAPOOSA WATER PLANT, AL US	10/21/21	1.5	10/21/19	0.4	43	1.1
BILLINGSLEY, AL US	10/22/21	1.83	10/22/59	1.05	82	0.78
MOBILE DOWNTOWN AIRPORT, AL US	10/27/21	1.23	10/27/02	1.16	72	0.07
MOBILE REGIONAL AIRPORT, AL US	10/27/21	3.19	10/27/84	3.03	73	0.16

# CoCoRAHS

Community Collaborative Rain, Hail and Snow Network (CoCoRAHS)									
October 2021									
	Ave. Total			A	ve. Total			Normal	
	Precip.	# Stations			Precip.	# Stations		Precipitation*	
Autauga	1.32	2	Housto	on	3.32	2		Abbeville	3.11
Baldwin	5.78	32	Jackson	n	4.40	5		Alberta	3.41
Barbour	3.22	1	Jeffers	on	8.01	19		Alex City	3.08
Bibb	n.a.	0	Lamar		4.74	1		Aliceville	3.17
Blount	5.26	4	Lauder	rdale	5.57	10		Andalusia	3.71
Bullock	n.a.	0	Lawrer	nce	6.01	3		Ashland	3.95
Butler	4.06	1	Lee		6.36	5		Athens	3.81
Calhoun	2.18	2	Limest	one	4.89	8		Bay Minette	3.76
Chambers	n.a.	0	Lownd	es	n.a.	0		Bessemer	3.74
Cherokee	n.a.	0	Macon		n.a.	0		Billingsly	2.77
Chilton	5.64	1	Madiso	on	5.34	24		Centreville WSMO	3.83
Choctaw	3.15	1	Maren	_	n.a.	0		Chatom	3.61
Clarke	3.61	3	Marior	n	4.01	1		Claiborne L&D	2.82
Clay	n.a.	0	Marsha	all	5.40	11		Clayton	2.50
Cleburne	n.a.	0	Mobile	e	4.26	19		Dauphin Isl.	3.85
Coffee	n.a.	0	Monro	e	4.37	3		Elba	3.53
Colbert	5.69	6	Montg	omery	5.70	4		Eufaula WR	2.96
Conecuh	n.a.	0	Morga	n	4.12	6		Evergreen	3.55
Coosa	2.67	2	Perry		n.a.	0		Fayette	3.63
Covington	7.65	1	Picken	s	n.a.	0		Geneva 2	3.52
Crenshaw	n.a.	0	Pike		n.a.	0		Greenville	3.64
Cullman	4.38	3	Randol	lph	3.79	1		Haleyville	4.15
Dale	n.a.	0	Russell		4.35	2		Hamilton 3S	3.83
Dallas	1.87	1	St. Clai	r	4.28	5		Heflin	3.45
DeKalb	4.32	7	Shelby	'	8.16	17		Hurtsboro	3.40
Elmore	3.48	5	Sumte	r	n.a.	0		Jasper	4.00
Escambia	11.70	1	Tallade	_	3.53	4		Lafayette	3.28
Etowah	2.63	3	Tallapo	oosa	2.26	1		Livingston	3.73
Fayette	3.11	1	Tuscalo	oosa	2.44	5		Melvin	2.90
Franklin	n.a.	0	Walker	r	5.04	1		Milstead	3.07
Geneva	n.a.	0	Washir	ngton	2.38	1		Moulton	3.92
Greene	n.a.	0	Wilcox	١	5.18	2		Oneonta	3.50
Hale	n.a.	0	Winsto	on	5.85	2		Perryville	3.06
Henry	n.a.	0						Plantersville	3.30
								Rock Mills	2.86
								Rockford	2.89
								Sylacauga	3.47
								Union Springs	3.06
								Uniontown	3.32
								Vernon	3.76
								Warrior L&D	3.56
								Wetumpka	2.90



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