Water-Data Report 2013

03575980 MCDONALD CREEK NEAR HUNTSVILLE, AL

Middle Tennessee-Elk Basin
Wheeler Lake Subbasin

LOCATION.--Lat 34°41′33″, long 86°37′39″ referenced to North American Datum of 1927, Madison County, AL, Hydrologic Unit 06030002, at bridge on Patton Road, 0.6 mi south of Goss Road, 0.6 mi from Arsenal Gate no. 10, and 3.1 mi south of intersection of Highway 72 Alternate and Alabama Highway 20.

DRAINAGE AREA.--9.64 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1984 to current year (flood hydrograph only).

REVISED RECORDS.-- WDR AL-99-1: 1985-98 (M), WDR AL-96-1 : Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 579.34 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated discharges. Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, Flood of June 28, 1999, 4,560 ft^3/s, gage height, 14.21 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sep 2	0350	*1,280	*6.64

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03575980, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03575980.2013.pdf

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DISCHARGE, IN CUBIC FEET PER SECOND, AND GAGE HEIGHT, IN FEET AT INDICATED TIME
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Time	Discharge	Gage Height	Date	Time	Discharge	Gage Height	Date	Time	Discharge	Gage Height
Jul 10	2320	383	3.88	**Aug 20**	0020	386	3.89	**Sep 2**	0315	303	3.62
	2325	597	4.64		0025	551	4.49		0320	612	4.69
	2330	747	5.13		0030	662	4.86		0325	810	5.32
	2335	943	5.72		0035	813	5.33		0330	1,020	5.94
	2340	968	5.79		0040	1,030	5.97		0335	1,150	6.31
	2345	1,170	6.35		0045	1,040	5.99		0340	1,070	6.08
	2350	1,110	6.19		0050	1,120	6.21		0345	1,210	6.46
	2355	1,240	6.53		0055	1,140	6.28		0350	1,280	6.64
Jul 11	0000	1,240	6.55		0100	1,090	6.14		0355	1,210	6.46
	0005	1,200	6.43		0105	1,180	6.37		0400	1,190	6.42
	0010	1,220	6.49		0110	1,150	6.31		0405	1,110	6.18
	0015	1,160	6.33		0115	1,200	6.44		0410	1,060	6.04
	0020	1,180	6.38		0120	1,200	6.44		0415	964	5.78
	0025	968	5.79		0125	1,100	6.17		0420	797	5.28
	0030	1,040	5.99		0130	1,010	5.92		0425	696	4.97
	0035	979	5.82		0135	979	5.82		0430	609	4.68
	0040	916	5.64		0140	902	5.60		0435	548	4.48
	0045	865	5.49		0145	803	5.30		0440	472	4.21
	0050	800	5.29		0150	747	5.13		0445	425	4.03
	0055	777	5.22		0155	671	4.89		0450	360	3.81
	0100	684	4.93		0200	563	4.53		0455	332	3.72
	0105	641	4.79		0205	528	4.41		0500	287	3.56
	0110	650	4.82		0210	467	4.19				
	0115	620	4.72		0215	428	4.04				
	0120	543	4.46		0220	380	3.87				
	0125	534	4.43								
	0130	464	4.18								
	0135	448	4.12								
	0140	422	4.02								
	0145	386	3.89								

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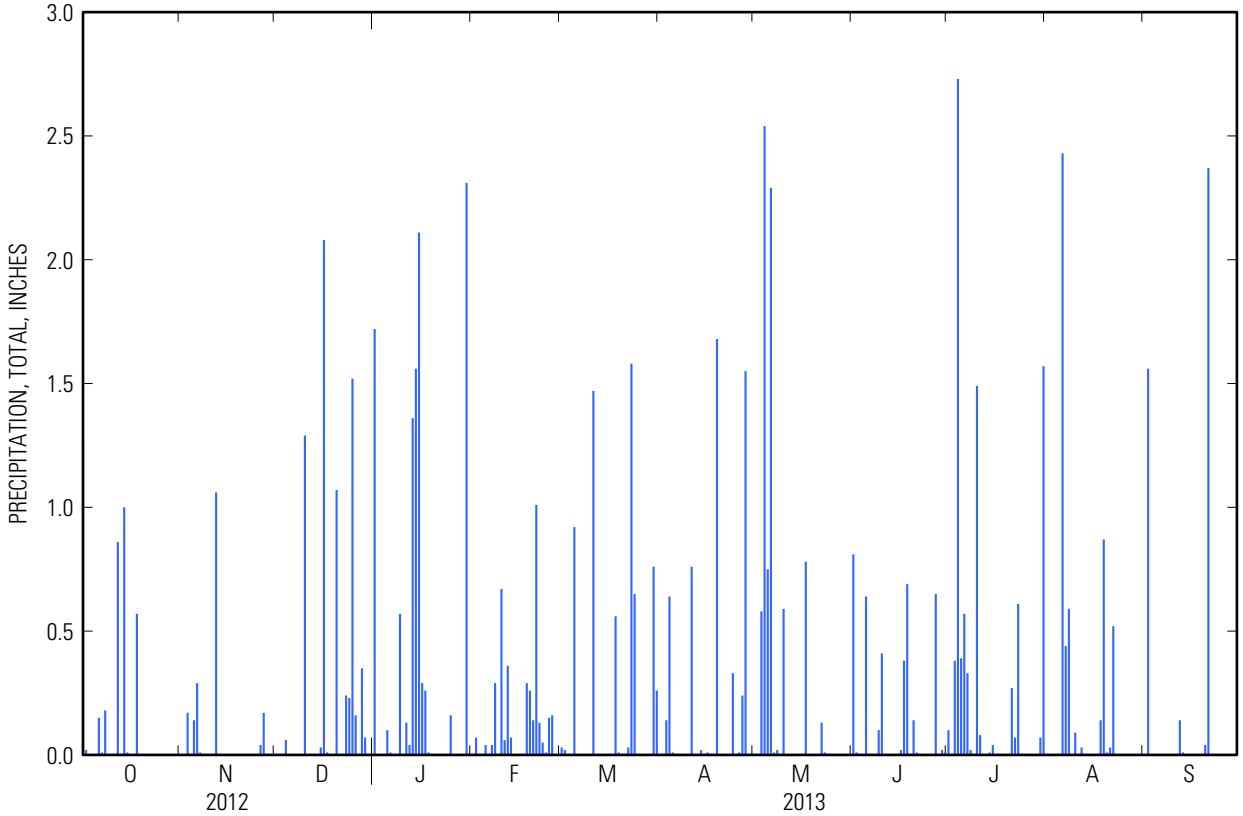
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 1984 to current year.

INSTRUMENTATION.--Tipping-bucket raingage.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.27	0.00	0.00	1.72	0.00	0.03	0.00	0.00	0.81	0.10	0.00	0.00
2	0.02	0.00	0.00	0.00	0.07	0.02	0.00	0.00	0.01	0.00	0.00	1.56
3	0.00	0.17	0.00	0.00	0.00	0.00	0.14	0.58	0.00	0.38	0.00	0.00
4	0.00	0.00	0.06	0.00	0.00	0.00	0.64	2.54	0.00	2.73	0.00	0.00
5	0.00	0.14	0.00	0.10	0.04	0.92	0.01	0.75	0.64	0.39	0.00	0.00
6	0.15	0.29	0.00	0.01	0.00	0.00	0.00	2.29	0.00	0.57	2.43	0.00
7	0.01	0.01	0.00	0.00	0.04	0.00	0.00	0.01	0.00	0.33	0.44	0.00
8	0.18	0.00	0.00	0.00	0.29	0.00	0.00	0.02	0.00	0.02	0.59	0.00
9	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
10	0.00	0.00	1.29	0.00	0.67	0.00	0.00	0.59	0.41	1.49	0.09	0.00
11	0.00	0.00	0.00	0.13	0.06	1.47	0.76	0.00	0.00	0.08	0.00	0.00
12	0.86	1.06	0.00	0.04	0.36	0.00	0.00	0.00	0.00	0.00	0.03	0.14
13	0.00	0.00	0.00	1.36	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.01
14	1.00	0.00	0.00	1.56	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00
15	0.01	0.00	0.03	2.11	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
16	0.00	0.00	2.08	0.29	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00
17	0.00	0.00	0.01	0.26	0.00	0.00	0.00	0.78	0.38	0.00	0.00	0.00
18	0.57	0.00	0.00	0.01	0.29	0.56	0.00	0.00	0.69	0.00	0.14	0.00
19	0.00	0.00	0.00	0.00	0.26	0.01	1.68	0.00	0.00	0.00	0.87	0.00
20	0.00	0.00	1.07	0.00	0.14	0.00	0.00	0.00	0.14	0.00	0.01	0.04
21	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.01	0.27	0.03	2.37
22	0.00	0.00	0.00	0.00	0.13	0.03	0.00	0.13	0.00	0.07	0.52	0.00
23	0.00	0.00	0.24	0.00	0.05	1.58	0.00	0.01	0.00	0.61	0.00	0.00
24	0.00	0.00	0.23	0.00	0.01	0.65	0.33	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	1.52	0.16	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.04	0.16	0.00	0.16	0.00	0.01	0.00	0.00	0.00	0.00	0.00
27	0.00	0.17	0.00	0.00	0.00	0.00	0.24	0.00	0.65	0.00	0.00	0.00
28	0.00	0.00	0.35	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.07	0.00	---	0.00	0.00	0.00	0.02	0.00	0.00	0.00
30	0.00	0.00	0.00	2.31	---	0.76	0.00	0.00	0.01	0.07	0.00	0.01
31	0.00	---	0.00	0.00	---	0.26	---	0.00	---	1.57	0.00	---
Total	4.07	1.88	7.11	10.63	3.80	6.29	5.39	7.70	3.89	8.73	5.15	4.13
Max	1.27	1.06	2.08	2.31	1.01	1.58	1.68	2.54	0.81	2.73	2.43	2.37

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