Water-Data Report 2013

02446500 SIPSEY RIVER NEAR ELROD, AL

Black Warrior-Tombigbee Basin
Sipsey Subbasin

LOCATION.--Lat 33°15′25″, long 87°46′35″ referenced to North American Datum of 1927, Tuscaloosa County, AL, Hydrologic Unit 03160107, on left bank at downstream side of bridge on State Highway 140, 0.2 mi upstream from Gulf, Mobile & Ohio Railroad bridge, 1.0 mi east of Elrod, 2.0 mi downstream from Box Creek, and at mile 50.7.

DRAINAGE AREA.--528 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1928 to March 1932, October 1939 to September 1971, October 1978 to current year.

REVISED RECORDS.-- WSP 1434: 1929. WDR AL-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 197.81 ft above NGVD of 1929. Prior to Mar. 31, 1932, nonrecording gage at railroad bridge 0.2 mi downstream from present site at datum 1.93 ft higher. Nov. 1 to Dec. 11, 1939, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Sep. 9, 10. Records good except those estimated which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 18	1900	*10,500	*15.77

Minimum discharge, 107 ft^3/s, Sept. 20, gage height, 5.43 ft.

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 02446500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02446500.2013.pdf

02446500 SIPSEY RIVER NEAR ELROD, AL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	435	178	264	2,550	1,150	2,190	1,770	1,130	270	140	1,080	185
2	702	172	238	2,870	1,130	1,700	1,330	1,280	304	136	724	176
3	821	167	218	2,560	1,190	1,400	1,170	1,820	276	130	513	170
4	868	162	208	2,020	1,360	1,250	1,160	2,940	259	153	474	165
5	922	163	257	1,860	1,510	1,140	1,170	2,610	252	744	404	161
6	992	174	259	2,150	1,360	1,040	1,120	1,880	255	1,170	352	169
7	1,050	186	280	2,540	1,210	943	1,060	1,710	511	1,210	373	169
8	938	182	273	2,300	1,090	847	1,010	2,170	579	1,320	342	158
9	568	173	262	1,770	987	770	982	3,050	474	2,770	332	e150
10	390	168	410	1,360	935	706	930	2,880	518	3,030	403	e142
11	316	166	670	1,180	1,120	825	892	2,370	506	3,450	494	135
12	268	177	633	1,130	1,260	1,100	1,110	1,800	389	3,360	552	131
13	239	230	609	1,110	1,570	1,090	1,140	1,360	310	2,480	624	128
14	218	273	533	1,430	1,910	1,070	1,200	1,180	268	1,820	931	125
15	230	308	429	3,070	2,180	1,090	1,690	1,070	235	1,760	1,030	121
16	281	315	410	4,790	2,280	1,140	2,280	930	207	1,640	823	119
17	268	280	788	6,930	2,070	1,130	2,470	728	197	1,330	638	115
18	481	240	934	9,440	1,870	1,050	2,000	640	206	1,200	475	113
19	729	216	992	9,330	1,750	919	1,950	599	258	1,120	766	111
20	673	201	1,100	6,960	1,460	782	1,830	656	406	1,020	939	109
21	560	192	1,300	5,100	1,260	696	1,490	747	481	878	712	140
22	475	187	1,510	3,870	1,810	655	1,450	888	408	681	530	185
23	362	184	1,430	3,030	2,480	744	1,750	965	274	579	433	185
24	291	179	1,280	2,410	2,180	1,410	1,700	868	216	847	361	337
25	256	174	1,270	1,890	2,100	1,970	1,550	627	190	934	360	428
26	232	173	1,790	1,490	2,610	1,820	1,270	471	174	1,010	377	293
27	217	183	1,620	1,270	3,360	2,530	1,090	387	164	1,100	311	216
28	207	247	1,380	1,150	2,860	3,060	997	334	157	1,250	255	190
29	196	286	1,560	1,060	---	3,450	1,110	300	157	1,750	227	174
30	189	286	2,060	1,080	---	2,820	1,120	274	144	1,820	209	166
31	181	---	2,330	1,180	---	2,250	---	264	---	1,330	196	---
Total	14,555	6,222	27,297	90,880	48,052	43,587	41,791	38,928	9,045	42,162	16,240	5,166
Mean	470	207	881	2,932	1,716	1,406	1,393	1,256	302	1,360	524	172
Max	1,050	315	2,330	9,440	3,360	3,450	2,470	3,050	579	3,450	1,080	428
Min	181	162	208	1,060	935	655	892	264	144	130	196	109
Cfsm	0.89	0.39	1.67	5.55	3.25	2.66	2.64	2.38	0.57	2.58	0.99	0.33
In.	1.03	0.44	1.92	6.40	3.39	3.07	2.94	2.74	0.64	2.97	1.14	0.36

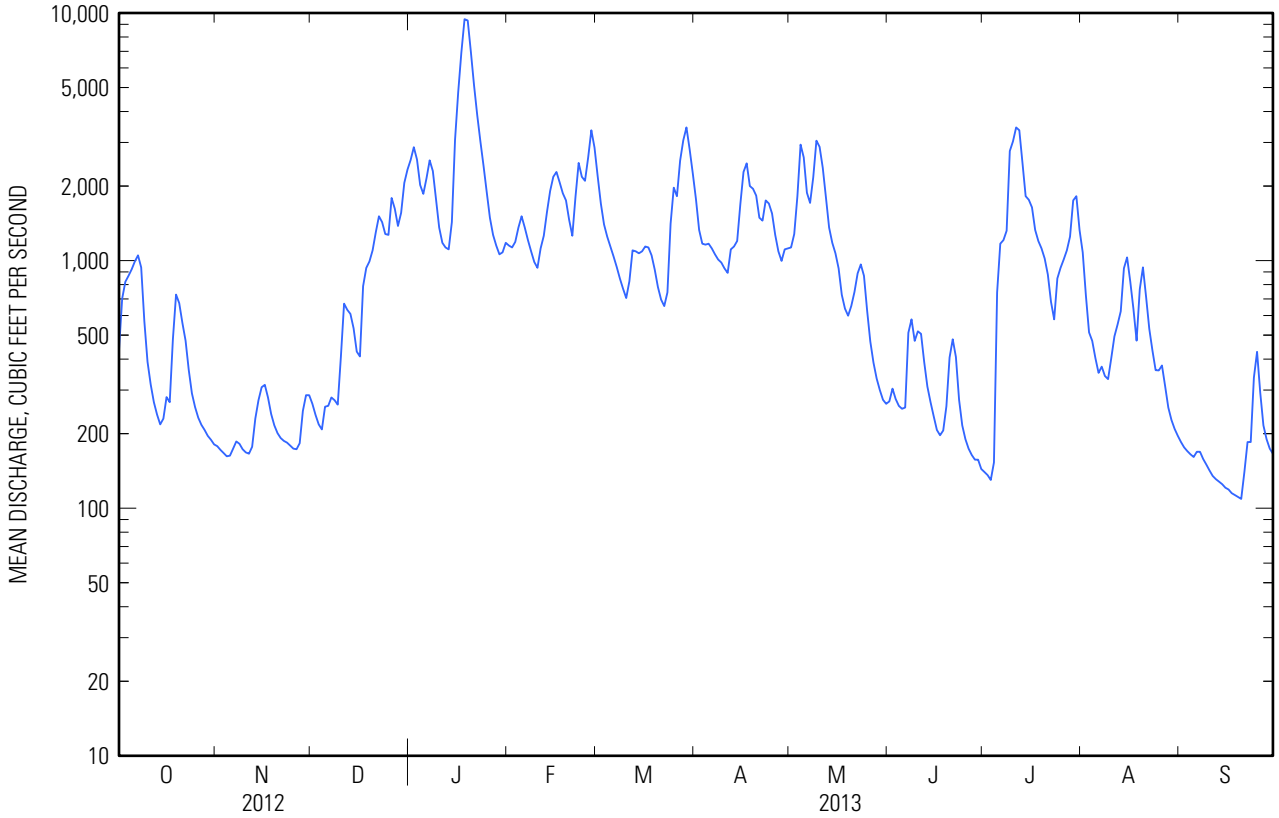
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	216	467	985	1,440	1,721	1,716	1,414	829	380	324	211	216
Max	2,285	3,163	3,955	4,048	4,813	4,390	4,163	4,902	2,177	2,026	1,030	1,307
(WY)	(2010)	(1930)	(1984)	(1949)	(1990)	(1980)	(1979)	(1991)	(1997)	(1940)	(1941)	(1950)
Min	25.2	69.3	126	133	523	416	239	130	65.6	49.6	28.4	26.6
(WY)	(1955)	(1954)	(1944)	(1956)	(2000)	(1988)	(1986)	(1941)	(1941)	(1954)	(1954)	(1954)

02446500 SIPSEY RIVER NEAR ELROD, AL—Continued

SUMMARY STATISTICS

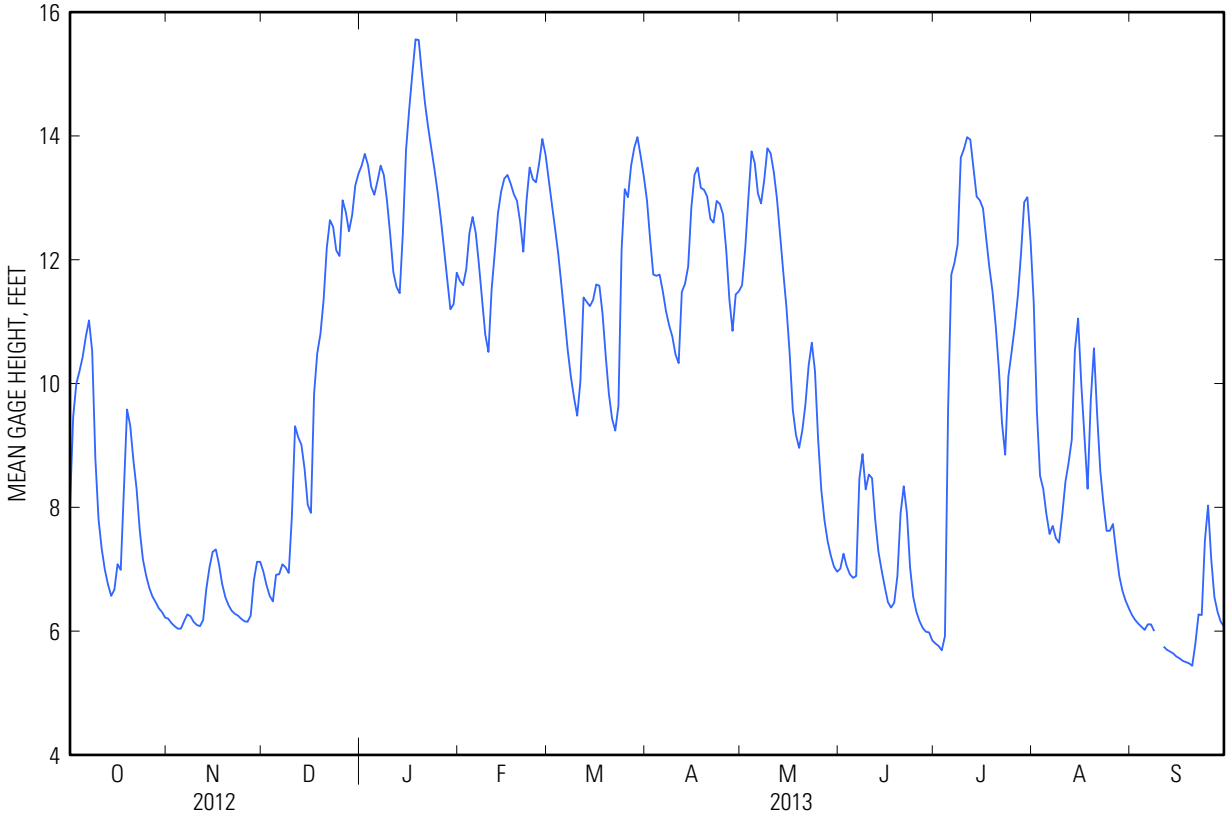
	Calendar Year 2012		Water Year 2013		Water Years 1928 - 2013	
Annual total	232,133		383,925			
Annual mean	634		1,052		820	
Highest annual mean					1,621	1991
Lowest annual mean					282	1988
Highest daily mean	3,470	Jan 28	9,440	Jan 18	23,500	Feb 23, 1961
Lowest daily mean	61	Jul 8	109	Sep 20	13	Sep 19, 1954
Annual seven-day minimum	64	Jul 2	116	Sep 14	15	Sep 14, 1954
Maximum peak flow			10,500	Jan 18	27,800	Feb 23, 1961
Maximum peak stage			15.77	Jan 18	18.83	Feb 23, 1961
Annual runoff (cfsm)	1.20		1.99		1.55	
Annual runoff (inches)	16.35		27.05		21.09	
10 percent exceeds	1,470		2,280		1,970	
50 percent exceeds	279		788		384	
90 percent exceeds	116		174		78	



02446500 SIPSEY RIVER NEAR ELROD, AL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.02	6.20	6.96	13.52	11.66	13.30	12.96	11.59	7.01	5.80	11.31	6.26
2	9.46	6.13	6.74	13.71	11.59	12.90	12.33	12.18	7.25	5.76	9.55	6.18
3	10.00	6.08	6.57	13.53	11.85	12.51	11.76	13.00	7.05	5.69	8.51	6.12
4	10.20	6.04	6.48	13.18	12.43	12.10	11.74	13.75	6.92	5.92	8.30	6.07
5	10.43	6.04	6.91	13.05	12.69	11.60	11.76	13.56	6.86	9.60	7.89	6.02
6	10.76	6.16	6.92	13.27	12.43	11.08	11.49	13.07	6.89	11.76	7.57	6.11
7	11.02	6.27	7.08	13.52	11.92	10.54	11.17	12.91	8.46	11.95	7.70	6.11
8	10.52	6.24	7.03	13.37	11.35	10.11	10.94	13.29	8.86	12.24	7.50	6.00
9	8.79	6.15	6.94	12.95	10.79	9.77	10.76	13.80	8.29	13.65	7.43	---
10	7.81	6.10	7.86	12.41	10.51	9.48	10.47	13.72	8.53	13.79	7.88	---
11	7.33	6.08	9.31	11.80	11.52	10.03	10.33	13.42	8.47	13.98	8.41	5.75
12	6.99	6.18	9.13	11.56	12.12	11.39	11.48	12.99	7.80	13.94	8.72	5.70
13	6.75	6.68	9.01	11.46	12.75	11.32	11.61	12.40	7.29	13.48	9.09	5.67
14	6.57	7.03	8.62	12.43	13.10	11.25	11.89	11.80	6.99	13.02	10.54	5.64
15	6.67	7.28	8.04	13.77	13.31	11.35	12.84	11.23	6.72	12.96	11.05	5.59
16	7.08	7.32	7.91	14.43	13.37	11.60	13.37	10.50	6.47	12.83	10.00	5.56
17	6.99	7.08	9.84	15.01	13.23	11.58	13.49	9.58	6.38	12.35	9.15	5.52
18	8.28	6.76	10.49	15.56	13.06	11.12	13.16	9.17	6.46	11.88	8.30	5.50
19	9.58	6.55	10.80	15.55	12.95	10.44	13.13	8.96	6.89	11.49	9.73	5.48
20	9.32	6.42	11.35	15.01	12.61	9.83	13.02	9.24	7.90	10.94	10.57	5.44
21	8.76	6.33	12.19	14.52	12.13	9.43	12.66	9.67	8.34	10.24	9.51	5.80
22	8.30	6.28	12.64	14.13	12.95	9.24	12.60	10.29	7.91	9.36	8.59	6.27
23	7.63	6.25	12.53	13.79	13.49	9.64	12.95	10.66	7.03	8.85	8.06	6.26
24	7.16	6.20	12.15	13.45	13.30	12.16	12.90	10.20	6.55	10.11	7.62	7.46
25	6.90	6.16	12.06	13.08	13.25	13.14	12.73	9.09	6.31	10.50	7.62	8.03
26	6.70	6.15	12.96	12.65	13.56	13.01	12.16	8.28	6.16	10.91	7.73	7.16
27	6.56	6.25	12.77	12.17	13.95	13.52	11.36	7.79	6.05	11.42	7.29	6.55
28	6.47	6.82	12.46	11.68	13.70	13.81	10.85	7.45	5.99	12.10	6.89	6.31
29	6.37	7.12	12.72	11.20	---	13.98	11.44	7.22	5.98	12.93	6.65	6.15
30	6.31	7.12	13.20	11.28	---	13.68	11.49	7.04	5.85	13.01	6.49	6.08
31	6.22	---	13.39	11.79	---	13.35	---	6.96	---	12.31	6.37	---
Mean	8.06	6.45	9.78	13.19	12.56	11.56	12.03	10.80	7.12	11.12	8.45	---
Max	11.02	7.32	13.39	15.56	13.95	13.98	13.49	13.80	8.86	13.98	11.31	---
Min	6.22	6.04	6.48	11.20	10.51	9.24	10.33	6.96	5.85	5.69	6.37	---

	Calendar Year 2012
Mean	8.31
Max	13.99
Min	4.79

02446500 SIPSEY RIVER NEAR ELROD, AL—Continued