Water-Data Report 2013

02428400 ALABAMA RIVER AT CLAIBORNE LOCK AND DAM NEAR MONROEVILLE, AL

Alabama Basin
Lower Alabama Subbasin

LOCATION.--Lat 31°36′54″, long 87°33′02″ referenced to North American Datum of 1927, Monroe County, AL, Hydrologic Unit 03150204, at control house and downstream end of lock, 3.5 miles upstream of Flat Creek, 3.8 miles downstream of Silver Creek, 15 miles northwest of Monroeville, and at river mile 81.9.

DRAINAGE AREA.--21,473 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.-- WDR AL-84-1: Drainage area. WDR AL-86-1: 1981, 1983-85 (maximum gage heights).

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929 (datum published incorrectly 1976-77, 1979-85).

REMARKS.--No estimated daily discharges. Record considered good. Flow regulated by reservoirs on Etowah, Coosa, Tallapoosa, and Alabama Rivers. (See Reservoirs in Mobile River basin).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 173,000 ft^3/s, Feb. 15; minimum discharge, 2,190 ft^3/s, Dec. 4.

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 02428400, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02428400.2013.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,800	6,120	4,390	38,400	75,500	125,000	35,600	58,300	8,970	9,290	22,300	7,940
2	13,700	5,370	4,750	29,700	77,100	119,000	31,800	68,600	8,190	25,000	34,200	8,640
3	22,400	9,080	4,730	42,600	74,600	98,200	26,700	62,700	16,100	10,300	38,300	27,800
4	10,200	5,080	4,090	50,300	65,800	68,800	26,700	57,800	18,800	25,700	23,600	34,200
5	6,950	6,000	5,530	47,500	58,600	52,700	28,300	70,500	10,500	25,900	12,400	28,100
6	6,200	6,810	7,310	31,300	54,700	55,900	39,100	69,900	19,400	29,800	25,800	15,500
7	6,630	6,770	7,340	33,200	49,400	44,700	43,900	76,200	31,100	48,900	21,100	8,910
8	4,630	8,130	7,900	30,600	52,300	28,700	34,500	79,700	39,100	53,600	25,400	9,430
9	6,000	5,870	6,580	27,400	48,000	31,400	28,200	77,600	37,400	63,900	26,500	9,050
10	8,190	14,300	4,390	19,700	45,500	32,100	22,000	75,700	27,600	74,100	33,300	12,400
11	12,000	10,000	9,720	13,100	98,100	30,200	21,200	74,600	32,700	73,400	36,200	10,200
12	8,170	6,450	14,500	10,200	129,000	41,500	46,100	69,900	23,900	70,100	32,200	9,670
13	9,530	7,660	11,100	14,500	141,000	44,900	74,100	63,200	25,500	66,900	23,500	8,300
14	6,500	7,850	10,300	27,100	152,000	42,200	77,700	51,800	18,500	69,800	27,200	9,380
15	6,110	5,600	8,780	59,000	162,000	37,900	92,700	44,100	16,000	66,100	45,800	11,600
16	5,920	7,020	12,400	74,600	161,000	28,100	96,900	39,700	15,700	48,800	42,900	10,600
17	6,230	7,120	22,400	83,000	157,000	28,300	86,300	28,900	19,600	31,600	32,600	13,100
18	6,480	6,480	26,200	93,400	135,000	23,800	64,700	27,500	25,700	32,800	26,300	8,570
19	7,360	8,210	25,000	95,800	97,900	26,700	55,500	44,700	28,000	28,800	33,400	7,920
20	6,760	7,300	24,100	93,400	66,600	22,700	55,400	63,000	31,800	9,970	30,300	8,710
21	9,420	8,730	25,500	85,100	56,900	24,500	57,800	74,700	32,300	7,400	27,000	10,600
22	5,980	8,200	26,600	70,000	54,700	22,600	54,000	76,300	32,900	18,700	26,100	6,390
23	5,800	10,300	26,300	55,200	68,200	24,000	41,900	72,100	26,400	27,700	27,000	16,000
24	5,680	5,470	28,000	47,400	84,200	38,100	38,100	65,200	21,300	48,000	26,500	14,100
25	5,680	4,630	28,500	49,100	99,100	65,000	25,100	52,200	7,040	62,600	21,500	17,000
26	7,170	8,050	46,900	47,800	116,000	77,500	24,500	38,000	6,600	68,500	17,900	12,400
27	7,100	11,300	75,100	46,000	125,000	77,600	28,400	29,900	8,150	52,700	12,900	10,900
28	6,610	6,520	76,100	31,700	126,000	75,800	31,900	20,600	11,300	43,600	12,000	9,020
29	5,450	5,730	75,700	26,100	---	67,500	24,600	19,300	24,600	22,100	12,500	7,060
30	6,020	5,700	73,400	28,600	---	52,500	39,000	32,500	9,790	10,300	10,100	8,990
31	6,070	---	62,500	58,500	---	43,700	---	17,800	---	9,430	9,430	---
Total	236,740	221,850	766,110	1,460,300	2,631,200	1,551,600	1,352,700	1,703,000	634,940	1,235,790	796,230	372,480
Mean	7,637	7,395	24,710	47,110	93,970	50,050	45,090	54,940	21,160	39,860	25,680	12,420
Max	22,400	14,300	76,100	95,800	162,000	125,000	96,900	79,700	39,100	74,100	45,800	34,200
Min	4,630	4,630	4,090	10,200	45,500	22,600	21,200	17,800	6,600	7,400	9,430	6,390
Cfsm	0.36	0.34	1.15	2.19	4.38	2.33	2.10	2.56	0.99	1.86	1.20	0.58
In.	0.41	0.38	1.33	2.53	4.56	2.69	2.34	2.95	1.10	2.14	1.38	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15,030	22,590	34,740	44,610	53,880	62,440	46,680	28,930	18,550	17,600	12,940	12,190
Max	57,680	66,330	100,300	90,120	126,000	145,000	147,600	100,800	62,470	64,600	44,030	37,580
(WY)	(1976)	(2010)	(2010)	(1993)	(1990)	(1990)	(1979)	(2003)	(1989)	(2003)	(1984)	(2009)
Min	4,152	3,653	2,937	7,846	12,820	15,700	9,125	6,063	5,029	4,495	4,575	4,592
(WY)	(2008)	(2008)	(2008)	(2008)	(2009)	(2007)	(2007)	(2007)	(2007)	(2008)	(2007)	(2007)

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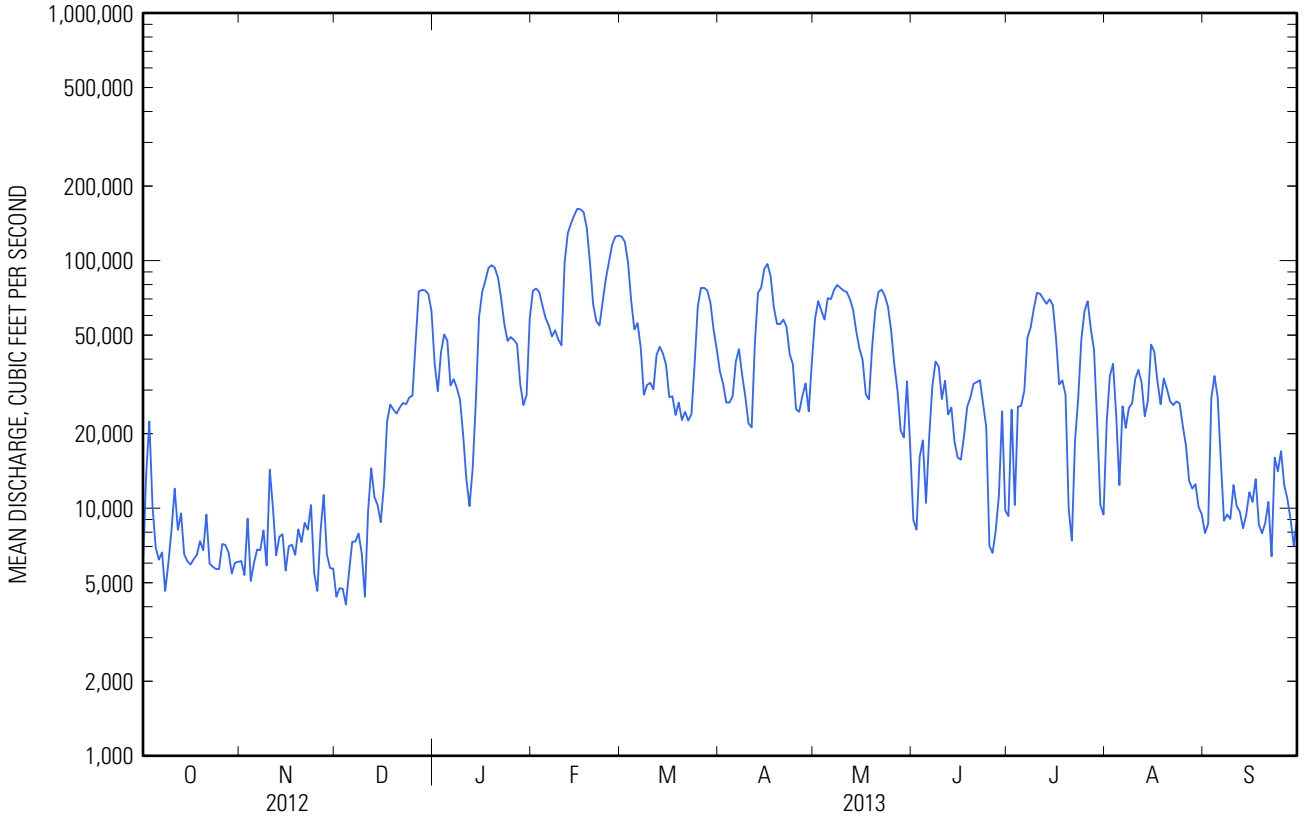
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1976 - 2013	
Annual total	6,287,080		12,962,940			
Annual mean	17,180		35,510		30,740	
Highest annual mean					49,920	2003
Lowest annual mean					12,230	2008
Highest daily mean	110,000	Jan 29	162,000	Feb 15	255,000	Mar 25, 1990
Lowest daily mean	3,590	Jul 5	4,090	Dec 4	1,540	Oct 17, 2007
Annual seven-day minimum	3,990	Jun 30	4,990	Nov 29	2,540	Dec 8, 2007
Maximum peak flow			173,000	Feb 15	255,000	Mar 25, 1990
Maximum peak stage			51.84	Feb 16	57.59	Mar 25, 1990
Annual runoff (cfsm)	0.800		1.65		1.43	
Annual runoff (inches)	10.89		22.46		19.45	
10 percent exceeds	36,600		75,700		81,300	
50 percent exceeds	8,840		27,000		16,700	
90 percent exceeds	4,880		6,560		6,500	



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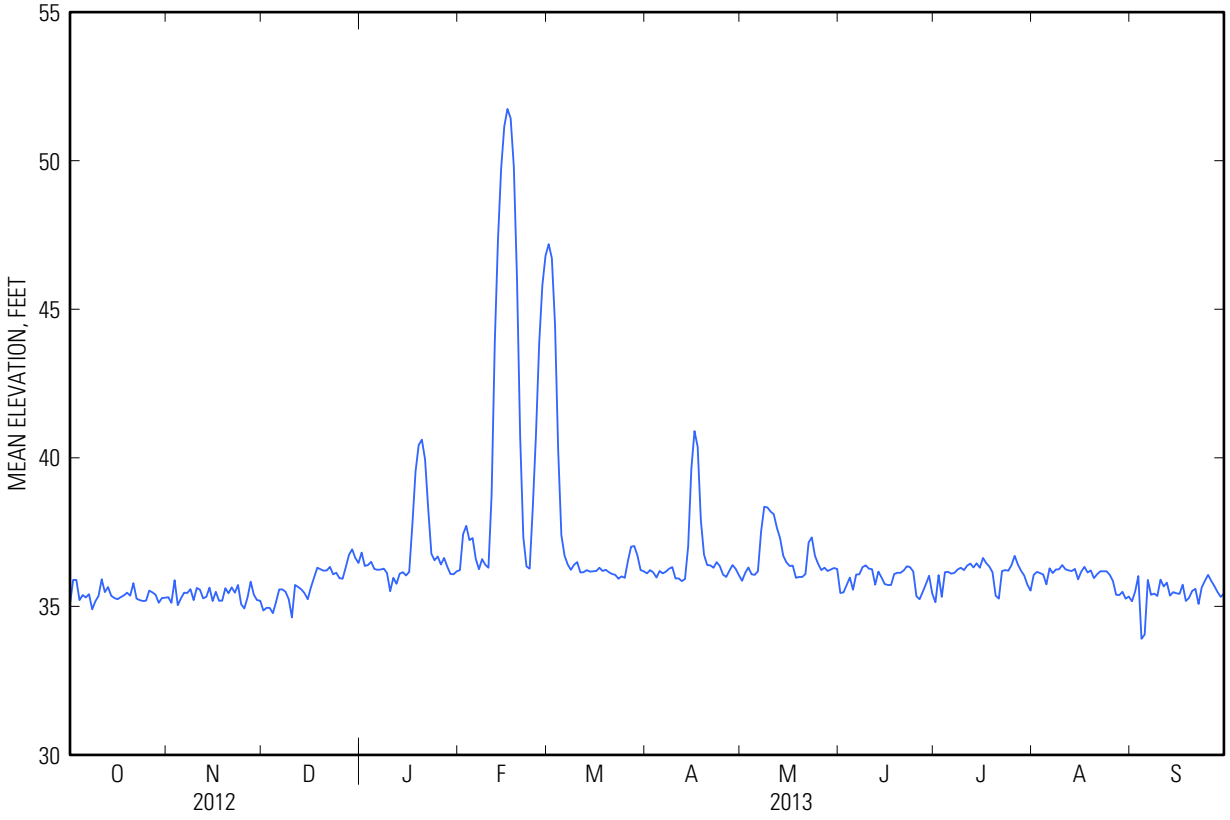
ELEVATION, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35.09	35.31	34.86	36.81	36.22	47.19	36.11	35.86	35.45	35.14	36.06	35.17
2	35.89	35.12	34.95	36.36	37.43	46.72	36.22	36.13	35.47	36.05	36.16	35.50
3	35.89	35.88	34.95	36.39	37.71	44.48	36.14	36.31	35.72	35.32	36.12	36.02
4	35.21	35.04	34.77	36.50	37.23	40.24	35.97	36.08	35.97	36.15	36.07	33.91
5	35.38	35.27	35.15	36.26	37.30	37.40	36.19	36.06	35.56	36.16	35.74	34.05
6	35.30	35.46	35.57	36.23	36.60	36.71	36.11	36.18	36.07	36.10	36.28	35.89
7	35.41	35.45	35.57	36.24	36.25	36.41	36.17	37.51	36.08	36.13	36.12	35.39
8	34.90	35.58	35.49	36.27	36.59	36.23	36.27	38.35	36.32	36.24	36.24	35.43
9	35.17	35.21	35.24	36.12	36.40	36.40	36.32	38.33	36.38	36.30	36.25	35.35
10	35.35	35.62	34.63	35.51	36.30	36.49	35.94	38.19	36.27	36.22	36.39	35.90
11	35.91	35.56	35.72	35.96	38.77	36.14	35.94	38.10	36.25	36.37	36.25	35.67
12	35.48	35.27	35.65	35.76	43.89	36.15	35.85	37.64	35.73	36.44	36.21	35.80
13	35.65	35.32	35.57	36.10	47.33	36.22	35.92	37.29	36.17	36.31	36.19	35.36
14	35.36	35.63	35.44	36.15	49.73	36.17	37.02	36.70	35.97	36.45	36.26	35.48
15	35.28	35.18	35.24	36.04	51.16	36.18	39.62	36.48	35.75	36.30	35.91	35.44
16	35.24	35.49	35.64	36.16	51.74	36.19	40.90	36.36	35.72	36.63	36.17	35.42
17	35.31	35.19	35.97	37.75	51.43	36.30	40.37	36.37	35.72	36.46	36.33	35.73
18	35.37	35.19	36.30	39.54	49.81	36.19	37.90	35.96	36.09	36.34	36.14	35.18
19	35.46	35.61	36.25	40.43	46.05	36.23	36.74	35.99	36.13	36.15	36.21	35.29
20	35.36	35.44	36.20	40.61	40.73	36.15	36.39	35.99	36.13	35.36	35.95	35.52
21	35.78	35.64	36.21	39.95	37.33	36.09	36.38	36.09	36.21	35.26	36.08	35.59
22	35.26	35.46	36.33	38.28	36.34	36.06	36.30	37.15	36.35	36.19	36.18	35.08
23	35.21	35.72	36.08	36.77	36.27	35.93	36.49	37.32	36.32	36.22	36.18	35.64
24	35.18	35.07	36.13	36.55	38.36	36.01	36.35	36.70	36.17	36.20	36.18	35.86
25	35.19	34.93	35.95	36.68	40.81	35.96	36.07	36.43	35.34	36.39	36.06	36.06
26	35.53	35.30	35.93	36.41	43.84	36.53	35.99	36.22	35.24	36.70	35.85	35.86
27	35.47	35.83	36.32	36.63	45.80	37.01	36.20	36.30	35.49	36.41	35.39	35.68
28	35.39	35.39	36.73	36.34	46.80	37.03	36.39	36.19	35.75	36.20	35.38	35.48
29	35.12	35.21	36.92	36.09	---	36.71	36.26	36.24	36.03	36.04	35.49	35.32
30	35.28	35.19	36.63	36.08	---	36.22	36.05	36.29	35.43	35.73	35.26	35.43
31	35.29	---	36.46	36.18	---	36.18	---	36.26	---	35.53	35.33	---
Mean	35.38	35.39	35.77	36.88	41.58	37.42	36.69	36.68	35.91	36.11	36.01	35.45
Max	35.91	35.88	36.92	40.61	51.74	47.19	40.90	38.35	36.38	36.70	36.39	36.06
Min	34.90	34.93	34.63	35.51	36.22	35.93	35.85	35.86	35.24	35.14	35.26	33.91

	Water Year 2013
Mean	36.57
Max	51.74
Min	33.91

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