Water-Data Report 2013

02471019 TENSAW RIVER NEAR MT VERNON, AL

Mobile Bay-Tombigbee Basin
Mobile-Tensaw Subbasin

LOCATION.--Lat 31°04′01″, long 87°57′31″ referenced to North American Datum of 1927, Mobile County, AL, Hydrologic Unit 03160204, 2.0 mi downstream of the Old Fort Stoddard Boat Landing in Mt. Vernon, and ¼ mi downstream of the Mobile River / Tensaw River split.

DRAINAGE AREA.--Approximately 42,900 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2003 to current Year.

GAGE.--Non-recording gage. Discharge is computed using a regression equation based on the discharge at station 02470629 - Mobile River at river mile 31.0 at Bucks.

REMARKS.--Record fair.

Streamflow at this site is affected by astronomical tides. Daily mean discharge was computed using the Godin low-pass filter to remove tidal effects from instantaneous values.

By convention, the U.S. Geological Survey has established ebb (streamward)flows as postive flows, and flood (landward)flows as negative flows.

Astronomical tides cause significant cycles of approximately 24.84 hours at this site. Because a different portion of the 24.84 hours tidal cycle is averaged in successive daily (24-hour) computations, a systematic secondary oscillation, unrelated to basin hydrology and having a period of about 2 weeks many be apparent in daily data published prior to October 1, 2010.

EXTREMES FOR PERIOD OF RECORD.--Minimum instantaneous discharge -13,200 ft^3/s, July 23, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 63,700 ft^3/s, Jan. 21; minimum discharge, 4,260 ft^3/s, Nov. 25.

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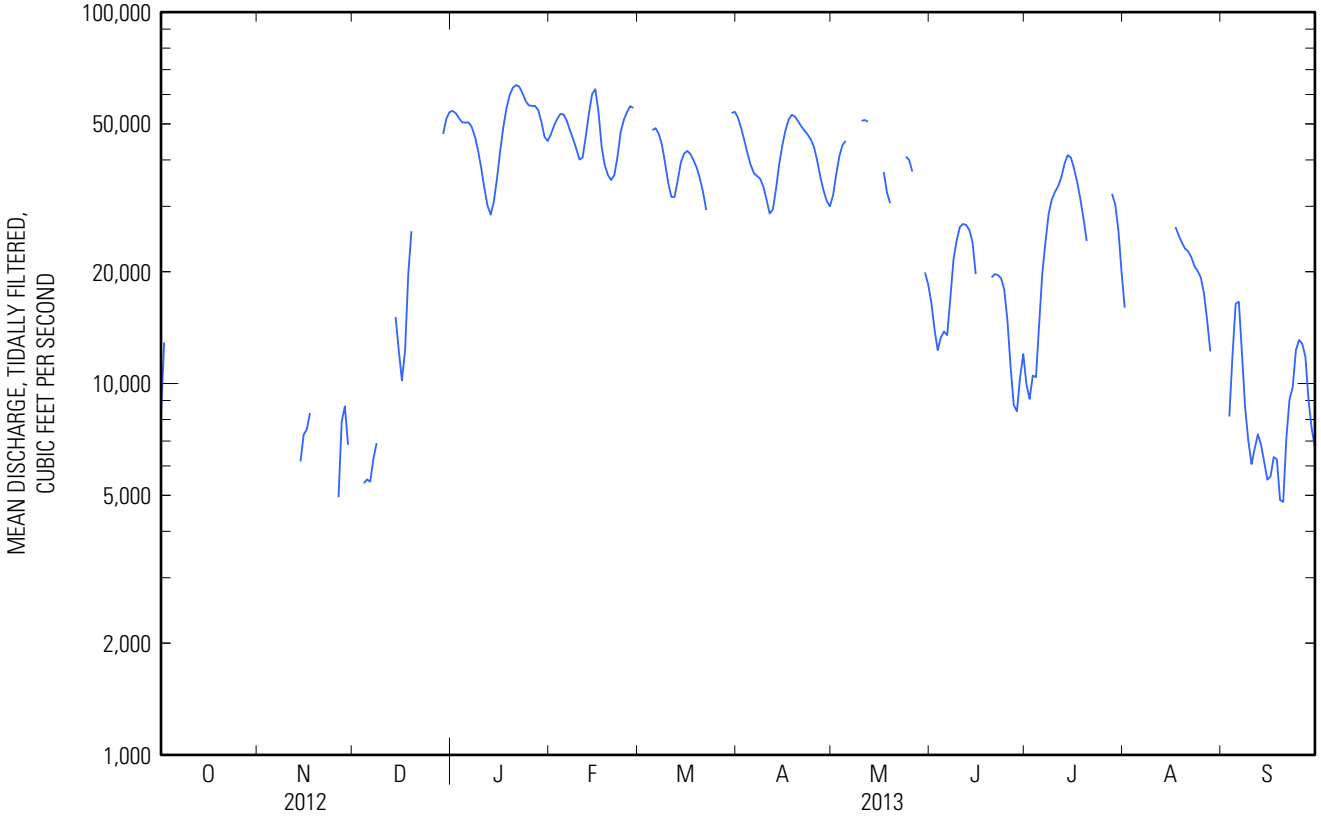
DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8,230	---	---	54,200	46,900	---	52,000	32,100	16,500	9,950	16,000	---
2	12,900	---	---	53,400	49,500	---	48,700	36,600	14,000	9,090	---	---
3	---	---	---	51,800	51,600	---	45,200	41,000	12,300	10,500	---	8,150
4	---	---	5,390	50,500	53,200	---	41,700	43,900	13,300	10,400	---	11,900
5	---	---	5,520	50,400	53,000	48,100	38,800	45,000	13,800	14,400	---	16,400
6	---	---	5,440	50,500	51,000	48,700	36,900	---	13,500	19,800	---	16,600
7	---	---	6,260	49,100	48,100	47,100	36,200	---	17,000	24,000	---	12,000
8	---	---	6,910	46,300	45,500	44,000	35,600	---	21,600	28,600	---	8,590
9	---	---	---	42,500	42,900	39,300	33,900	---	24,300	31,300	---	7,000
10	---	---	---	38,100	40,100	34,700	31,300	51,000	26,400	32,800	---	6,070
11	---	---	---	33,600	40,600	31,800	28,700	51,200	26,900	34,000	---	6,680
12	---	---	---	30,100	46,200	31,800	29,400	50,700	26,700	35,900	---	7,300
13	---	---	---	28,500	53,500	35,300	33,400	---	25,900	39,000	---	6,840
14	---	6,170	15,100	30,900	60,200	39,400	38,900	---	24,000	41,200	---	6,150
15	---	7,280	12,300	35,700	62,000	41,600	43,800	---	19,700	40,600	---	5,510
16	---	7,530	10,200	42,300	53,900	42,300	48,100	---	---	38,000	---	5,620
17	---	8,330	12,300	49,100	43,400	41,500	51,400	37,100	---	34,900	26,400	6,340
18	---	---	19,700	55,200	38,700	39,900	52,900	32,700	---	31,400	25,100	6,240
19	---	---	25,700	59,800	36,400	38,100	52,300	30,600	---	27,800	24,000	4,860
20	---	---	---	62,600	35,300	35,600	50,800	---	19,300	24,200	23,100	4,800
21	---	---	---	63,600	36,400	32,700	49,200	---	19,700	---	22,700	7,150
22	---	---	---	63,000	40,800	29,300	48,000	---	19,600	---	21,900	9,070
23	---	---	---	60,600	47,500	---	46,800	---	19,200	---	20,700	9,780
24	---	---	---	57,700	51,300	---	45,400	40,800	17,900	---	20,100	12,300
25	---	---	---	56,100	53,800	---	43,300	40,000	14,800	---	19,300	13,100
26	---	4,940	---	55,900	55,800	---	39,800	37,200	11,100	---	17,500	12,800
27	---	7,900	---	55,900	55,200	---	36,000	---	8,750	---	14,800	11,800
28	---	8,680	---	54,500	---	---	33,100	---	8,420	32,400	12,200	8,990
29	---	6,840	47,000	50,600	---	---	31,000	---	10,400	30,400	---	7,540
30	---	---	51,600	46,100	---	53,500	30,000	19,900	12,000	25,900	---	6,750
31	---	---	53,800	45,000	---	53,900	---	18,500	---	20,000	---	---
Mean	---	---	---	49,150	---	---	41,090	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2011 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,799	7,081	11,260	33,850	30,510	41,260	32,670	13,410	6,682	---	7,331	13,980

SUMMARY STATISTICS

	Water Years 2011 - 2013	
Highest daily mean	65,200	Mar 13, 2011
Lowest daily mean	534	Aug 28, 2012
Annual seven-day minimum	2,770	Aug 28, 2011

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