Water-Data Report 2012

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 cylce 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 data prior to October 1, 2010.

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

EXTREMES FOR 2011 WATER YEAR.--Maximum discharge, >65,400 ft^3/s, Mar. 13; minimum discharge, 2,060 ft^3/s, Sept. 3.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 54,900 ft^3/s, Feb. 1; minimum discharge, -1,250 ft^3/s, Aug. 28.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 02471019, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/02471019.2012.pdf

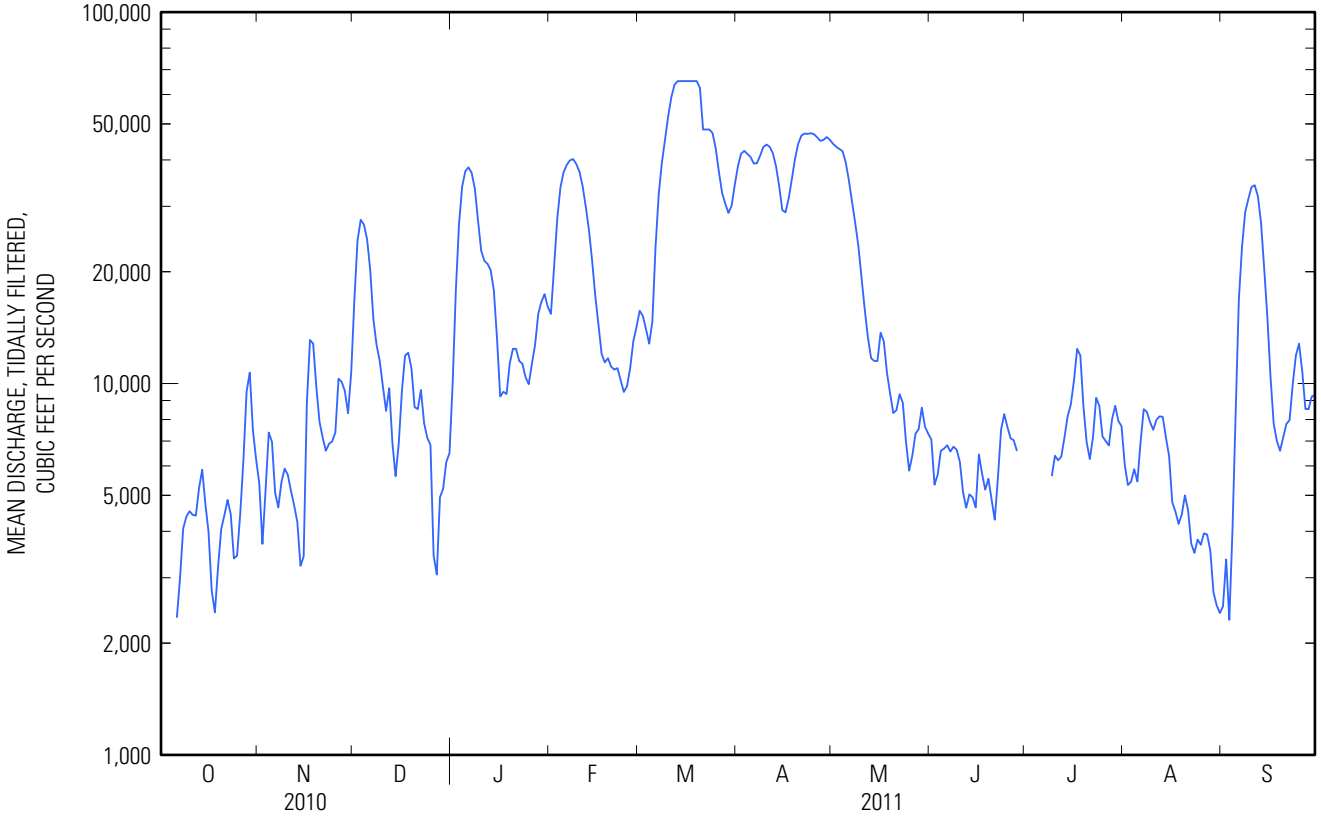
02471019 TENSAW RIVER NEAR MT VERNON, AL—Continued

DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[>, greater than]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	5,390	16,800	10,000	15,400	15,700	38,500	44,200	7,070	---	6,060	2,510
2	---	3,700	24,300	17,700	20,600	15,200	41,600	43,400	5,340	---	5,330	3,360
3	---	5,180	27,600	26,800	27,800	14,000	42,300	42,800	5,680	---	5,440	2,310
4	---	7,380	26,800	33,900	33,700	12,800	41,500	42,200	6,590	---	5,880	4,040
5	---	6,970	24,500	37,300	37,100	14,700	40,700	39,400	6,680	---	5,450	8,360
6	2,340	5,080	20,200	38,200	38,800	23,300	39,100	35,200	6,820	---	6,950	16,800
7	2,990	4,640	14,900	36,900	39,900	32,300	39,200	30,800	6,560	---	8,530	23,300
8	4,070	5,430	12,700	33,500	40,200	39,300	41,100	27,000	6,760	---	8,380	28,900
9	4,380	5,900	11,500	27,500	39,000	45,400	43,300	23,400	6,630	5,630	7,870	31,400
10	4,530	5,680	9,820	22,800	37,200	52,500	44,000	19,200	6,150	6,390	7,510	33,800
11	4,430	5,140	8,440	21,400	34,000	59,100	43,400	15,800	5,100	6,210	7,980	34,200
12	4,410	4,700	9,710	21,000	29,900	63,800	41,700	13,300	4,630	6,360	8,160	32,000
13	5,230	4,240	6,920	20,200	25,900	65,200	38,500	11,700	5,030	7,160	8,130	27,100
14	5,860	3,230	5,630	17,800	21,400	>65,200	34,000	11,500	4,940	8,170	7,160	20,400
15	4,740	3,420	6,900	13,200	17,200	>65,200	29,300	11,500	4,640	8,780	6,380	15,100
16	3,980	8,820	9,550	9,230	14,400	>65,200	28,900	13,700	6,440	10,200	4,790	10,400
17	2,770	13,100	11,900	9,500	12,000	>65,200	31,500	13,000	5,720	12,400	4,520	7,790
18	2,420	12,800	12,100	9,370	11,400	>65,200	35,500	10,700	5,180	11,900	4,190	7,000
19	3,200	9,780	11,000	11,300	11,700	>65,200	40,300	9,390	5,540	8,640	4,440	6,590
20	4,060	7,890	8,640	12,400	11,100	>62,500	44,200	8,330	4,880	6,940	5,000	7,160
21	4,420	7,150	8,530	12,400	10,900	>48,300	46,500	8,480	4,300	6,260	4,550	7,780
22	4,860	6,590	9,610	11,500	11,000	>48,300	47,100	9,350	5,570	7,180	3,700	7,970
23	4,450	6,880	7,820	11,300	10,200	48,300	47,000	8,880	7,510	9,150	3,500	9,940
24	3,380	6,990	7,140	10,400	9,490	47,200	47,200	6,970	8,270	8,700	3,800	11,900
25	3,440	7,380	6,840	9,960	9,830	42,900	46,900	5,830	7,640	7,200	3,680	12,800
26	4,470	10,300	3,440	11,300	11,000	37,100	46,000	6,390	7,120	7,000	3,950	10,800
27	6,220	10,100	3,060	12,700	13,000	32,600	45,000	7,320	7,030	6,810	3,920	8,540
28	9,510	9,540	4,940	15,400	14,200	30,500	45,300	7,540	6,580	8,010	3,550	8,530
29	10,700	8,320	5,210	16,600	---	28,800	46,100	8,610	---	8,710	2,740	9,230
30	7,470	10,700	6,150	17,400	---	30,100	45,300	7,650	---	7,930	2,530	9,310
31	6,250	---	6,490	16,100	---	34,300	---	7,330	---	7,670	2,410	---
Mean	---	7,081	11,260	18,550	21,730	43,080	41,370	17,770	---	---	5,370	13,980

02471019 TENSAW RIVER NEAR MT VERNON, AL—Continued



02471019 TENSAW RIVER NEAR MT VERNON, AL—Continued

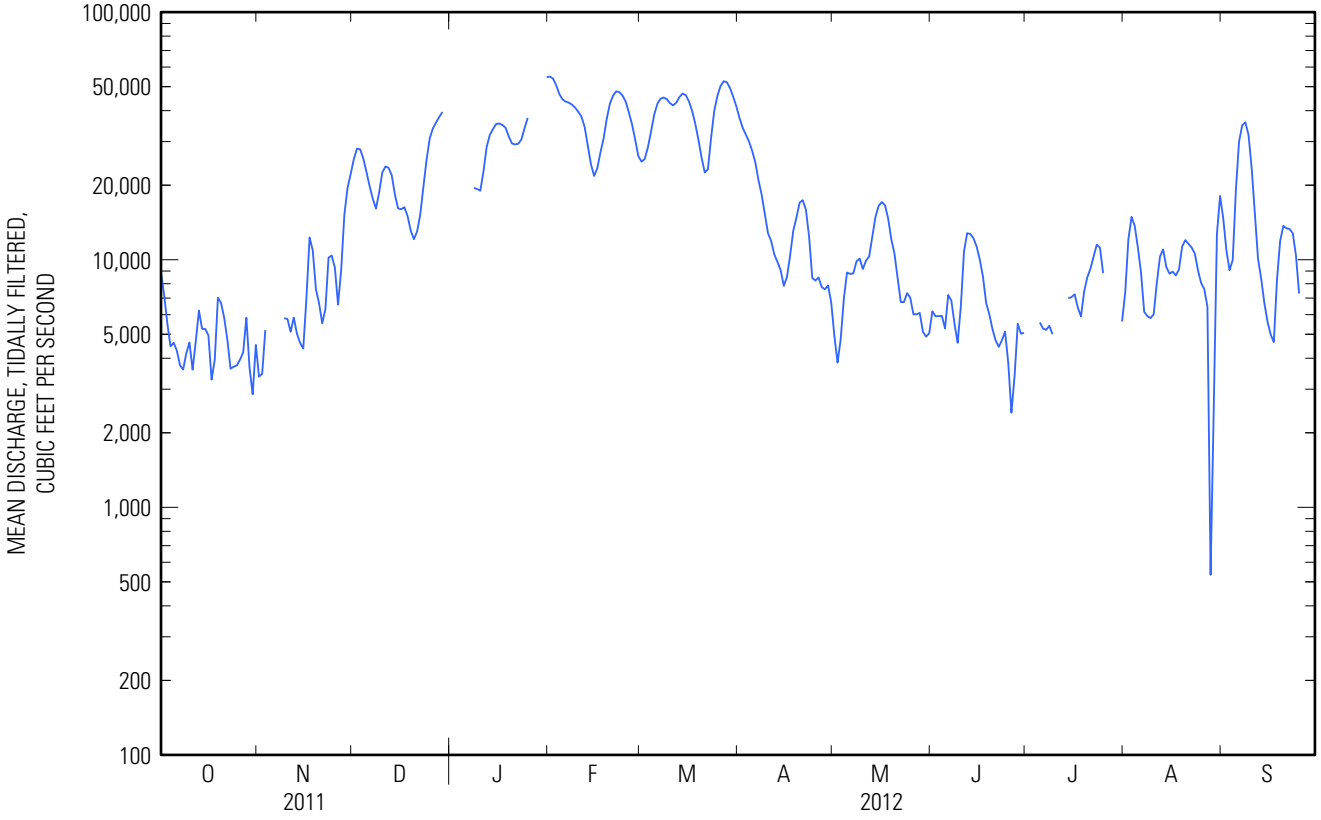
DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8,890	3,370	25,500	---	54,900	24,900	37,300	4,920	6,190	---	7,390	14,700
2	7,190	3,460	28,100	---	53,900	25,500	34,100	3,840	5,910	---	12,100	10,900
3	5,540	5,200	27,900	---	50,700	28,400	32,000	4,780	5,920	---	14,900	9,070
4	4,470	---	25,600	---	46,700	32,900	30,000	6,980	5,930	---	13,700	9,980
5	4,620	---	22,600	---	44,400	38,500	27,500	8,880	5,280	5,580	11,200	19,100
6	4,300	---	19,800	---	43,500	42,600	24,700	8,760	7,200	5,270	8,860	30,000
7	3,750	---	17,600	---	43,100	44,700	20,900	8,810	6,840	5,210	6,160	34,900
8	3,600	---	16,100	19,500	42,300	45,200	18,300	9,850	5,510	5,410	5,920	35,900
9	4,190	5,810	18,700	19,300	41,100	44,500	15,300	10,100	4,620	5,000	5,810	31,900
10	4,630	5,760	22,500	19,000	39,600	42,900	12,800	9,170	6,490	---	6,020	23,400
11	3,600	5,120	23,800	22,700	37,800	42,000	11,900	9,910	10,800	---	8,090	15,400
12	4,680	5,840	23,500	28,500	34,400	43,100	10,500	10,300	12,800	---	10,300	10,100
13	6,230	5,030	21,900	31,900	28,900	45,400	9,800	12,400	12,700	---	11,000	8,390
14	5,260	4,610	18,300	33,700	24,300	46,900	9,080	14,900	12,200	6,990	9,340	6,690
15	5,250	4,380	16,100	35,300	21,800	46,200	7,840	16,500	11,300	7,060	8,790	5,630
16	4,950	6,990	16,000	35,500	23,400	43,600	8,520	17,100	10,000	7,250	8,950	4,990
17	3,280	12,300	16,300	35,000	27,100	39,900	10,400	16,600	8,540	6,410	8,640	4,650
18	3,940	10,900	15,000	34,100	30,900	35,400	13,100	14,700	6,690	5,900	9,130	8,300
19	7,020	7,610	13,100	31,500	37,100	30,500	14,800	12,100	6,030	7,430	11,300	11,900
20	6,690	6,660	12,100	29,500	42,700	25,800	17,000	10,600	5,250	8,490	12,000	13,700
21	5,820	5,540	13,000	29,200	46,000	22,500	17,400	8,440	4,720	9,200	11,600	13,400
22	4,740	6,310	15,200	29,400	47,900	23,200	15,900	6,750	4,450	10,300	11,200	13,300
23	3,630	10,200	19,700	30,600	47,500	31,100	12,400	6,740	4,730	11,500	10,600	12,800
24	3,700	10,400	25,300	34,000	46,000	39,900	8,450	7,330	5,120	11,200	9,080	10,400
25	3,740	9,290	30,900	37,400	43,500	45,900	8,240	7,030	3,830	8,830	8,060	7,300
26	3,950	6,590	33,900	---	39,300	50,300	8,480	6,020	2,410	---	7,610	---
27	4,230	9,110	35,800	---	35,200	52,600	7,750	6,020	3,390	---	6,470	---
28	5,830	15,200	37,700	---	30,500	52,100	7,600	6,100	5,510	---	534	---
29	3,670	19,500	39,500	---	26,200	49,300	7,870	5,120	5,030	---	2,510	---
30	2,860	22,200	---	---	---	45,500	6,720	4,890	5,060	---	12,700	---
31	4,530	---	---	54,600	---	41,600	---	5,050	---	5,630	18,100	---
Mean	4,799	---	---	---	38,990	39,450	15,560	9,055	6,682	---	9,292	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2011 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,799	7,081	11,260	18,550	30,510	41,260	28,460	13,410	6,682	---	7,331	13,980

SUMMARY STATISTICS

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

02471019 TENSAW RIVER NEAR MT VERNON, AL—Continued