Water-Data Report 2013

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS

Yazoo Basin
Lower Yazoo Subbasin

LOCATION.--Lat 32°26′39″, long 90°54′51″ referenced to North American Datum of 1983, in SE ¼ sec.4, T.17 N., R.3 E., Warren County, MS, Hydrologic Unit 08030208, Washington Meridian, on left bank at downstream abandoned Eagle Lake Ferries site, 1.5 mi downstream from Steele Bayou, 2.5 mi northwest of Long Lake, and at river mile 9.5 upstream of the confluence of the Yazoo River Diversion Canal with the Mississippi River.

DRAINAGE AREA.--13,355 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1996 to current year.

PERIOD OF DAILY RECORD WATER QUALITY.--
SPECIFIC CONDUCTANCE: June 1996 to January 1998.
WATER TEMPERATURE: June 1996 to January 1998.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Discharges estimated October 1 - December 3, on many days. Records are poor. Satellite telemeter at station.

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 07288955, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07288955.2013.pdf

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS—Continued

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	15,000	9,320	6,680	24,500	43,500	35,500	36,700	9,960	60,000	26,700	8,620	8,310
2	19,900	9,240	6,610	34,900	44,300	33,900	41,600	10,900	59,400	23,800	7,350	8,230
3	21,700	9,100	6,570	38,300	42,400	31,300	42,100	12,700	60,700	20,100	6,520	8,180
4	21,500	8,990	6,320	37,500	40,000	29,800	39,900	16,900	62,100	16,800	6,750	8,690
5	20,600	8,850	6,360	34,400	36,800	28,100	38,100	17,800	56,000	14,700	8,980	8,430
6	19,300	8,740	10,000	31,300	32,800	26,500	36,500	19,200	47,300	13,900	12,200	8,420
7	17,400	8,450	11,900	28,500	30,600	24,200	34,700	18,800	39,300	10,900	12,000	8,700
8	15,700	8,160	10,700	26,300	29,600	23,000	32,200	17,700	31,000	9,080	11,300	8,500
9	13,800	7,980	8,130	24,700	26,200	22,800	28,100	17,500	23,600	7,740	9,870	8,060
10	11,100	7,800	10,900	38,800	28,800	21,300	24,200	17,700	19,000	6,610	10,400	7,730
11	10,000	7,660	15,400	57,700	37,800	22,100	25,900	17,000	17,000	5,120	10,600	7,820
12	9,840	7,550	18,000	61,700	41,300	22,500	37,900	15,800	14,300	4,270	10,600	7,910
13	9,800	7,510	15,500	63,100	48,400	22,700	42,000	14,500	14,200	4,150	10,700	7,910
14	9,880	8,410	13,100	63,900	50,500	22,900	44,500	14,500	13,200	3,990	10,500	8,060
15	10,200	9,140	11,100	64,300	47,900	22,800	43,800	15,100	12,900	4,740	8,650	8,110
16	10,500	9,330	10,100	65,800	45,600	21,000	41,000	13,400	12,700	4,920	7,980	8,440
17	10,800	9,210	18,900	64,400	44,000	17,800	37,900	12,500	13,700	4,890	8,130	8,960
18	12,100	9,050	29,400	62,900	40,700	15,400	34,100	12,600	15,200	5,140	8,830	9,060
19	13,600	8,740	29,300	62,100	39,600	14,900	36,600	13,000	16,800	5,410	9,220	8,770
20	14,200	8,160	23,500	58,900	38,900	14,400	38,600	15,400	16,300	5,390	9,400	8,770
21	12,800	7,690	18,100	56,600	38,100	13,700	36,200	18,000	16,400	5,410	9,670	9,320
22	11,700	7,470	15,300	53,400	37,500	13,400	33,700	17,300	21,500	5,890	12,200	9,230
23	11,000	7,470	12,900	51,700	34,800	15,300	30,400	18,600	22,900	10,900	12,700	9,040
24	10,500	7,660	10,600	49,500	33,600	25,500	28,000	19,300	24,500	14,500	12,700	11,200
25	10,200	7,660	14,100	49,300	32,700	39,800	26,000	19,400	24,600	17,200	12,800	17,000
26	10,100	7,380	26,500	48,100	37,500	42,200	25,000	22,000	26,600	18,900	10,700	20,000
27	10,000	7,370	33,000	46,700	38,600	42,600	24,400	24,000	28,800	21,400	9,700	15,800
28	9,890	7,260	32,000	44,700	36,500	40,900	19,300	31,800	29,100	19,300	9,420	10,700
29	9,820	7,080	28,600	43,300	---	39,100	14,100	40,200	29,100	16,000	9,190	9,390
30	9,680	6,790	25,100	43,500	---	35,300	12,200	49,600	28,300	13,700	8,960	14,200
31	9,570	---	22,300	43,100	---	33,100	---	54,800	---	12,000	8,750	---
Total	402,180	245,220	506,970	1,473,900	1,079,000	813,800	985,700	617,960	856,500	353,550	305,390	292,940
Mean	12,970	8,174	16,350	47,550	38,540	26,250	32,860	19,930	28,550	11,400	9,851	9,765
Max	21,700	9,330	33,000	65,800	50,500	42,600	44,500	54,800	62,100	26,700	12,800	20,000
Min	9,570	6,790	6,320	24,500	26,200	13,400	12,200	9,960	12,700	3,990	6,520	7,730
Med	11,000	8,070	14,100	48,100	38,400	23,000	35,400	17,500	24,000	10,900	9,670	8,700
Cfsm	0.97	0.61	1.22	3.56	2.89	1.97	2.46	1.49	2.14	0.85	0.74	0.73
In.	1.12	0.68	1.41	4.11	3.01	2.27	2.75	1.72	2.39	0.98	0.85	0.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12,910	12,880	21,130	27,210	28,290	23,930	20,520	13,540	17,700	11,990	10,790	11,620
Max	36,370	28,370	48,970	50,040	45,070	49,290	43,620	39,780	42,530	25,930	23,850	28,900
(WY)	(2010)	(2003)	(2002)	(2002)	(1997)	(2001)	(1997)	(2008)	(2011)	(2004)	(2009)	(2008)
Min	4,819	6,947	5,763	3,996	3,650	4,140	3,142	-6,230	4,251	3,658	2,251	3,852
(WY)	(1999)	(2006)	(2011)	(2000)	(2000)	(2007)	(2007)	(2011)	(2006)	(2006)	(2007)	(2012)

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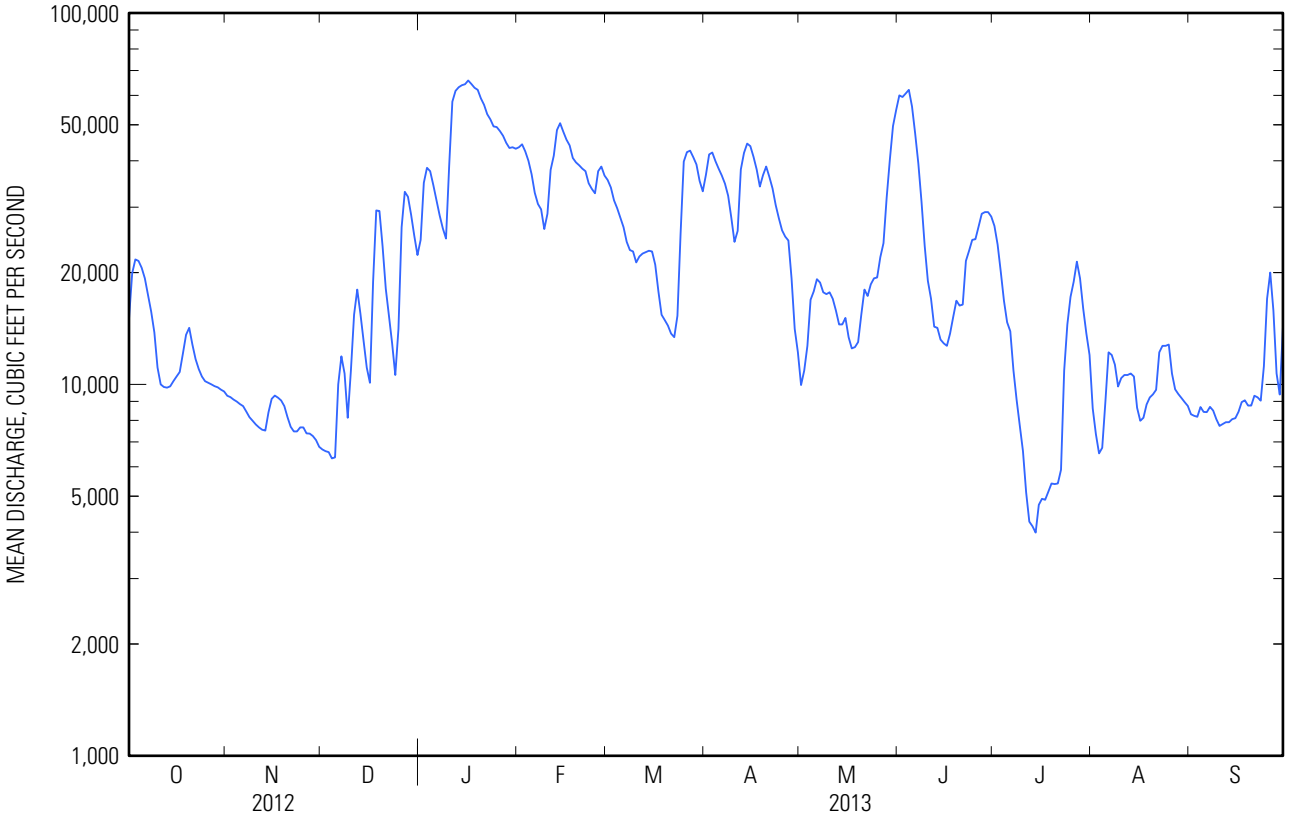
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1996 - 2013	
Annual total	3,911,090		7,933,110			
Annual mean	10,690		21,730		17,950	
Highest annual mean					26,550	2002
Lowest annual mean					10,080	2011
Highest daily mean	38,900	Jan 1	65,800	Jan 16	86,100	Jun 12, 2009
Lowest daily mean	1,470	May 8	3,990	Jul 14	-49,400	May 12, 2011
Annual seven-day minimum	2,260	Sep 7	4,580	Jul 11	-41,900	May 10, 2011
Maximum peak flow			65,800	Jan 16	89,600	Jun 12, 2009
Maximum peak stage			92.58	May 22	106.41	May 21, 2011
Annual runoff (cfsm)	0.800		1.63		1.34	
Annual runoff (inches)	10.89		22.10		18.26	
10 percent exceeds	22,100		43,400		39,900	
50 percent exceeds	8,580		16,000		12,800	
90 percent exceeds	2,980		7,780		4,590	



07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS—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	54.43	50.97	50.43	66.99	81.53	72.62	82.06	87.50	88.13	82.17	69.88	61.42
2	57.96	51.29	50.15	68.50	80.51	71.85	81.50	87.99	87.46	81.03	69.26	61.06
3	60.27	51.44	49.86	69.30	79.36	71.10	80.70	88.48	86.65	79.94	68.89	60.22
4	60.54	51.46	49.48	69.51	78.18	70.51	79.80	88.91	85.95	79.07	68.30	59.79
5	59.76	51.48	49.17	69.42	77.21	70.09	78.99	89.22	85.49	78.36	67.28	59.89
6	58.83	51.55	50.19	69.26	76.83	69.88	78.12	89.60	85.29	77.83	66.57	60.03
7	56.27	52.07	50.95	69.06	76.88	70.13	77.10	89.85	85.41	77.51	65.77	59.75
8	54.06	53.12	50.35	68.55	77.07	70.33	75.82	90.18	85.73	77.39	65.00	59.49
9	53.42	54.41	49.59	67.83	77.44	70.25	74.55	90.48	85.93	77.63	64.07	59.39
10	52.73	55.56	50.40	68.51	78.12	70.37	73.47	90.85	86.34	78.19	63.38	59.26
11	51.68	56.47	52.42	69.87	79.09	70.83	72.85	91.07	86.76	78.96	62.82	58.52
12	51.13	56.99	53.09	70.89	80.06	71.52	73.33	91.33	87.23	79.76	62.63	57.67
13	50.93	56.87	52.43	71.09	81.00	71.90	74.15	91.50	87.60	80.44	63.25	56.87
14	50.72	56.45	52.17	71.74	81.35	72.08	74.63	91.72	87.98	80.99	64.14	56.65
15	50.82	55.69	52.83	72.55	81.31	72.25	74.80	91.92	88.35	81.68	65.57	55.81
16	51.19	54.85	54.17	73.40	80.86	72.99	75.07	92.09	88.53	82.18	67.44	55.23
17	51.30	54.11	56.81	74.14	80.03	74.49	75.43	92.25	88.51	82.67	69.26	54.79
18	50.87	53.41	60.11	75.35	79.02	76.33	76.43	92.33	88.48	83.09	70.65	54.18
19	51.56	52.92	61.89	76.85	77.98	77.95	78.22	92.37	88.30	83.24	71.43	53.64
20	52.10	52.65	62.85	78.11	77.01	79.25	79.69	92.42	88.04	83.35	71.84	53.59
21	51.69	52.31	63.39	79.15	76.25	80.14	80.97	92.42	87.77	83.37	71.78	53.58
22	51.37	52.12	63.66	80.03	75.70	80.61	82.16	92.40	87.51	83.36	71.45	53.61
23	51.34	52.07	63.45	80.76	75.21	81.15	83.23	92.40	87.34	83.01	70.71	53.82
24	51.32	52.16	62.68	81.33	74.77	81.89	84.17	92.39	87.15	82.37	69.61	53.88
25	51.11	52.23	62.12	81.76	74.22	82.74	84.89	92.28	86.92	81.39	68.46	54.22
26	50.97	52.11	62.62	82.01	73.76	83.16	85.47	92.16	86.54	79.90	66.84	54.72
27	50.83	51.95	63.12	82.18	73.30	83.44	85.90	91.73	85.99	78.33	65.05	54.42
28	50.65	51.57	63.53	82.26	73.05	83.38	86.28	91.24	85.34	76.51	63.71	53.76
29	50.57	51.13	64.04	82.22	---	83.21	86.70	90.57	84.50	74.47	63.03	53.75
30	50.61	50.75	65.00	82.16	---	82.94	87.08	89.75	83.53	72.72	62.42	54.34
31	50.72	---	65.89	82.03	---	82.51	---	89.04	---	71.06	61.82	---
Total	1,641.75	1,592.16	1,758.84	2,316.81	2,177.10	2,351.89	2,383.56	2,818.44	2,604.75	2,471.97	2,072.31	1,697.35
Mean	52.96	53.07	56.74	74.74	77.75	75.87	79.45	90.92	86.83	79.74	66.85	56.58
Max	60.54	56.99	65.89	82.26	81.53	83.44	87.08	92.42	88.53	83.37	71.84	61.42
Min	50.57	50.75	49.17	66.99	73.05	69.88	72.85	87.50	83.53	71.06	61.82	53.58
Med	51.34	52.19	54.17	73.40	77.71	72.99	79.34	91.33	87.04	79.94	66.84	55.52

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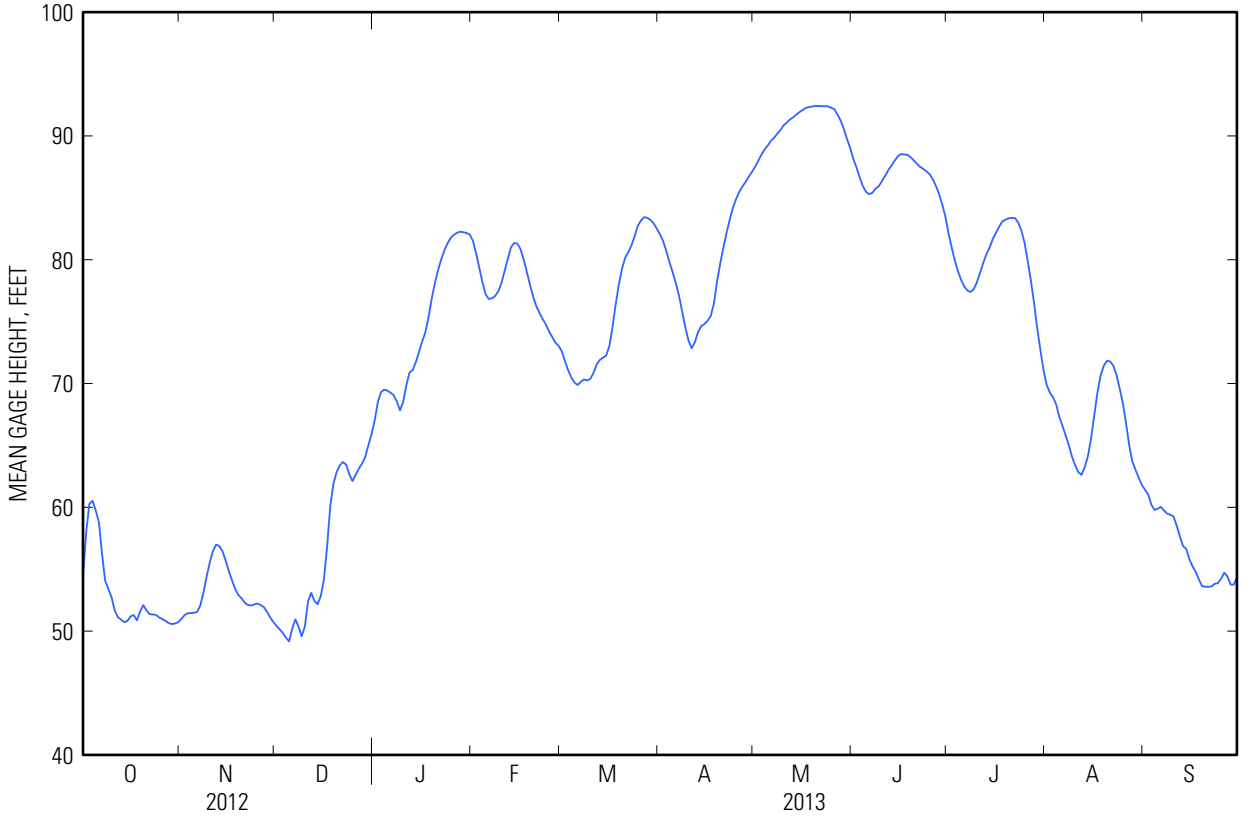

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

REMARKS.--Twice-daily measurements of specific conductance and water temperature collected by local observer from June 1996 to January 1998. In water years 1961-62 and 1972-93, data were collected 8.5 mi upstream (station 07288800). Site affected by backwater from the Mississippi River.

Little Sunflower River Drainage Structure WY13 closure dates: Dates available from U.S. Army Corps of Engineers, Vicksburg, MS.

Steele Bayou Drainage Structure WY13 closure dates: Dates available from by U.S. Army Corps of Engineers, Vicksburg, MS.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 6

[$CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Discharge, instantaneous, ft^3/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)
10-17-2012	**1500**	762	27.8	.131	.096	10,400	7.3	7.4	120
11-13-2012	**1200**	765	12.5	.091	.065	7,060	10.0	7.3	105
12-06-2012	**1530**	761	22.5	.132	.098	9,680	10.0	7.0	246
01-17-2013	**1430**	770	7.2	.210	.163	66,400	8.4	--	70
01-29-2013	**1400**	757	25.0	.214	.165	39,500	8.5	7.2	79
02-05-2013	**1430**	759	14.4	.109	.082	38,500	8.7	7.1	67
02-20-2013	**1330**	760	10.5	.221	.170	41,900	9.3	7.0	80
03-04-2013	**1330**	760	21.1	.232	.178	29,700	9.9	7.3	83
03-27-2013	**1130**	769	10.5	.262	.208	34,600	8.2	7.1	82
04-09-2013	**1000**	762	23.9	.257	.199	25,800	7.6	6.9	102
04-23-2013	**1000**	764	22.8	.280	.220	29,500	5.5	6.6	71
05-07-2013	**1100**	764	17.9	.266	.209	19,000	5.3	7.2	88
05-21-2013	**1030**	760	28.9	.223	.172	14,200	3.7	7.3	108
06-06-2013	**1100**	758	27.2	.282	.218	45,000	1.7	6.5	102
06-27-2013	**0930**	763	31.7	.204	.152	24,300	2.5	6.2	108
07-16-2013	**1200**	767	30.0	.149	.109	2,930	3.8	7.3	256
08-01-2013	**1000**	763	30.6	.131	.094	8,410	3.9	6.8	218
09-05-2013	**1230**	762	35.0	.115	.081	9,580	5.9	7.4	172

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 2 of 6

[$CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Gage height, ft (00065)	Sample purpose (71999)	Purpose, site visit (50280)	Type of quality assurance data associated with sample (99111)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
10-17-2012	**1500**	21.3	160	52.74	NAWQA	Fixed frequency SW	No assoc QA data	83
11-13-2012	**1200**	14.8	52	58.36	NAWQA	Fixed frequency SW	No assoc QA data	65
12-06-2012	**1530**	15.2	170	51.61	NAWQA	Fixed frequency SW	More than one type	144
01-17-2013	**1430**	10.0	430	74.33	NAWQA	Fixed frequency SW	No assoc QA data	38
01-29-2013	**1400**	9.8	220	82.32	NAWQA	Fixed frequency SW	No assoc QA data	51
02-05-2013	**1430**	10.6	360	77.22	NAWQA	Fixed frequency SW	No assoc QA data	54
02-20-2013	**1330**	10.5	210	77.16	NAWQA	Fixed frequency SW	Replicate sample	62
03-04-2013	**1330**	9.3	300	70.74	NAWQA	Fixed frequency SW	No assoc QA data	65
03-27-2013	**1130**	11.9	410	83.54	NAWQA	Fixed frequency SW	No assoc QA data	63
04-09-2013	**1000**	15.7	220	75.00	NAWQA	Fixed frequency SW	No assoc QA data	72
04-23-2013	**1000**	19.4	260	83.20	NAWQA	Fixed frequency SW	No assoc QA data	63
05-07-2013	**1100**	17.9	180	89.74	NAWQA	Fixed frequency SW	No assoc QA data	55
05-21-2013	**1030**	23.2	57	92.30	NAWQA	Fixed frequency SW	No assoc QA data	72
06-06-2013	**1100**	25.6	64	85.63	NAWQA	Fixed frequency SW	No assoc QA data	74
06-27-2013	**0930**	28.3	28	86.36	NAWQA	Fixed frequency SW	Blank	69
07-16-2013	**1200**	29.6	24	82.44	NAWQA	Fixed frequency SW	No assoc QA data	153
08-01-2013	**1000**	30.0	64	70.53	NAWQA	Fixed frequency SW	Blank	141
09-05-2013	**1230**	29.8	64	62.41	NAWQA	Fixed frequency SW	No assoc QA data	116

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 6

[$CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)
10-17-2012	**1500**	10.3	3.44	3.64	6.67	39	47	3.60	5.59
11-13-2012	**1200**	8.83	2.89	2.75	7.35	34	42	2.02	5.24
12-06-2012	**1530**	26.3	8.38	3.88	11.6	97	118	7.90	9.19
01-17-2013	**1430**	6.61	2.13	2.73	2.78	25	30	6.37	1.93
01-29-2013	**1400**	6.81	2.38	3.21	3.24	28	34	3.33	2.59
02-05-2013	**1430**	6.51	2.12	2.78	3.12	27	33	5.38	2.44
02-20-2013	**1330**	7.48	2.55	2.78	3.36	26	31	4.21	2.67
03-04-2013	**1330**	7.40	2.55	2.61	3.82	25	31	5.47	2.73
03-27-2013	**1130**	6.94	2.13	2.61	3.69	23	28	7.96	2.92
04-09-2013	**1000**	8.91	2.81	2.77	4.72	30	37	3.33	3.31
04-23-2013	**1000**	6.58	2.04	2.85	3.22	23	28	3.77	1.97
05-07-2013	**1100**	8.73	2.94	2.74	3.35	35	42	4.00	2.15
05-21-2013	**1030**	9.60	3.24	2.66	4.24	30	37	1.74	3.30
06-06-2013	**1100**	10.0	3.11	3.64	3.57	35	43	2.27	2.52
06-27-2013	**0930**	10.7	3.22	3.17	4.15	38	46	1.46	2.97
07-16-2013	**1200**	25.4	7.45	3.12	10.7	80	98	1.73	9.77
08-01-2013	**1000**	21.4	7.23	3.86	10.0	87	106	1.70	5.95
09-05-2013	**1230**	17.5	5.49	2.81	8.49	61	74	1.86	5.60

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[$CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)
10-17-2012	**1500**	0.08	0.15	6.79	9.24	0.35	1.0	0.064	0.192	0.010
11-13-2012	**1200**	.07	< .03	6.85	9.27	.28	.55	.022	.103	.002
12-06-2012	**1530**	.13	.32	9.44	13.3	.40	1.3	.043	.236	.005
01-17-2013	**1430**	.08	.06	6.49	3.45	.41	1.4	.078	.235	.005
01-29-2013	**1400**	.08	< .03	7.85	4.08	.41	1.0	.081	.195	.005
02-05-2013	**1430**	.08	.17	7.18	4.30	.43	1.1	.078	.278	.007
02-20-2013	**1330**	.07	< .03	7.20	4.85	.47	1.1	.084	.318	.006
03-04-2013	**1330**	.07	< .03	7.22	5.46	.50	1.4	.078	.321	.006
03-27-2013	**1130**	E .10	.09	5.90	6.03	.94	2.3	.218	1.03	.022
04-09-2013	**1000**	E .08	< .03	6.85	6.59	.57	1.4	.093	.857	.023
04-23-2013	**1000**	--	.06	6.44	3.72	.60	1.3	.107	.546	.022
05-07-2013	**1100**	.08	< .03	6.99	3.75	.44	1.0	.084	.525	.019
05-21-2013	**1030**	.08	< .03	5.78	6.04	.40	.66	.026	.664	.005
06-06-2013	**1100**	.11	< .03	5.96	4.15	.58	.86	.057	.424	.006
06-27-2013	**0930**	.10	< .03	5.26	5.02	.46	.75	.059	.365	.004
07-16-2013	**1200**	.14	< .03	6.76	22.7	.39	.46	.014	1.46	.011
08-01-2013	**1000**	.16	< .03	7.90	12.2	.47	.77	.036	.460	.019
09-05-2013	**1230**	.11	< .03	6.54	12.3	.27	.59	.024	.167	.008

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[$CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Orthophosphate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Iron, water, filtered, µg/L (01046)	Lithium, water, filtered, µg/L (01130)	Strontium, water, filtered, µg/L (01080)
10-17-2012	**1500**	0.024	0.450	0.03	0.42	--	105	1.04	59.6
11-13-2012	**1200**	.022	.256	.03	.13	--	61.7	.68	54.9
12-06-2012	**1530**	.028	1.28	.04	.67	--	96.7	2.54	118
01-17-2013	**1430**	.041	1.16	.05	.62	--	241	.85	30.4
01-29-2013	**1400**	.072	.525	.08	.38	--	356	.86	35.9
02-05-2013	**1430**	.055	.858	.06	.46	--	269	.95	32.9
02-20-2013	**1330**	.050	.586	.07	.39	--	286	.99	40.4
03-04-2013	**1330**	.029	.740	.04	.47	--	291	.92	41.4
03-27-2013	**1130**	.049	1.23	.06	.66	--	229	.78	41.1
04-09-2013	**1000**	.052	.778	.06	.38	--	232	1.19	49.3
04-23-2013	**1000**	.067	.546	.07	.42	--	317	.77	37.1
05-07-2013	**1100**	.063	.906	.07	.39	--	244	.60	46.3
05-21-2013	**1030**	.082	.322	.08	.22	1.00	283	.99	48.9
06-06-2013	**1100**	.151	.498	.15	.32	.97	283	1.40	51.4
06-27-2013	**0930**	.107	.276	.11	.21	.80	182	1.25	56.5
07-16-2013	**1200**	.085	.393	.09	.15	1.81	260	2.25	108
08-01-2013	**1000**	.048	.266	.05	.20	.81	63.9	2.09	106
09-05-2013	**1230**	.046	.341	.05	.19	.46	42.6	1.59	87.9

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[$CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Vanadium, water, filtered, µg/L (01085)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen-tration, mg/L (80154)
10-17-2012	**1500**	1.4	1.7	21	0.22	3.45	4.82	98	482
11-13-2012	**1200**	.71	.98	19	.16	2.02	3.52	100	87
12-06-2012	**1530**	1.0	1.2	36	.21	7.58	4.55	91	1,270
01-17-2013	**1430**	1.3	1.3	16	.20	6.31	5.48	95	513
01-29-2013	**1400**	1.3	1.2	15	.22	3.33	6.13	100	146
02-05-2013	**1430**	1.1	1.2	16	.19	5.21	5.91	100	314
02-20-2013	**1330**	1.1	1.1	15	.18	4.19	6.16	99	226
03-04-2013	**1330**	1.1	.98	14	.18	5.44	5.83	99	341
03-27-2013	**1130**	.91	1.0	12	.23	7.87	5.60	100	465
04-09-2013	**1000**	1.3	1.3	18	.24	3.33	6.24	100	208
04-23-2013	**1000**	1.3	1.5	17	.20	3.71	5.54	100	220
05-07-2013	**1100**	1.1	1.3	14	.17	4.00	6.50	100	113
05-21-2013	**1030**	1.2	1.8	16	.21	1.74	5.27	100	36
06-06-2013	**1100**	1.5	2.9	18	.24	2.27	5.58	100	51
06-27-2013	**0930**	1.2	2.8	18	.22	1.46	5.52	100	23
07-16-2013	**1200**	1.8	1.9	27	.37	1.73	4.16	100	24
08-01-2013	**1000**	2.0	2.4	29	.25	1.70	4.90	100	73
09-05-2013	**1230**	1.6	1.9	20	.22	1.86	4.42	100	88