

Water-Data Report 2011

02197000 SAVANNAH RIVER AT AUGUSTA, GA

Savannah Basin
Middle Savannah Subbasin

LOCATION.--Lat 33°22'25", long 81°56'35" referenced to North American Datum of 1927, Richmond County, GA, Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi upstream from Butler Creek, 12.0 mi downstream from Augusta, and at mile 187.4.

DRAINAGE AREA.--7,510 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharges only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932 (M). WRD SC-77-1: 1975. WRD SC-94-1: Peaks outside period of record, 1796, 1840, 1852, 1864, 1865, 1908.

GAGE.--Data collection platform. Datum of gage is NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Oct. 1, 2008 at same site at datum of 95.58 ft above NGVD of 1929. Prior to October 1, 2001, at same site at datum of 96.58 ft above NGVD of 1929. Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896, to Dec. 31, 1906, Jan. 1, 1925, to Sept. 30, 1932, nonrecording or recording gage at Fifth Street Bridge at datum 102.06 ft above NGVD of 1929 (levels by Southeastern Engineering Co.). Oct. 1, 1932, to Sept. 30, 1936, recording gage at Thirteenth Street bridge at datum 104.56 ft above NGVD OF 1929 (levels by U.S. Army Corps of Engineers). Oct. 1, 1936, to Nov. 10, 1948, recording gage at site 0.2 mi downstream from present site.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Thurmond Lake (see sta 02194500), Hartwell Lake, Richard B. Russell Lake, and by other powerplants above station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 307,000 ft³/s, Aug. 27, 1908, gage height, 38.8 ft, at site and datum at Fifth Street gage. Stages and discharges for other floods at site and datum at Fifth Street gage are as follows: 280,000 ft³/s, Jan. 17, 1796, gage height (determined by analysis of historical documents), 38 ft; 260,000 ft³/s, May 28, 1840, gage height, 37.5 ft; 230,000 ft³/s, Aug. 29, 1852, gage height, 36.8 ft; 160,000 ft³/s, Jan. 1, 1864, gage height, 34.0 ft; 220,000 ft³/s, Jan. 11, 1865, gage height, 36.4 ft. Stages for the 1840, 1852, 1864, and 1865 floods were obtained from the City of Augusta, Georgia, gage records that were copied in the log books of the National Weather Service. These floods and floods recorded by the National Weather Service beginning in 1876 are stored in the USGS peak flow database. Other historical documents indicated floods of unknown magnitude occurred in 1722 and 1741.

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,720	4,520	4,640	4,380	4,610	6,070	23,500	5,000	4,680	4,680	4,290	4,080
2	4,420	4,180	4,250	4,450	4,620	4,730	22,300	4,780	4,710	5,230	3,800	3,960
3	4,400	4,410	4,560	4,490	4,450	5,220	16,300	4,830	4,370	5,040	3,730	4,230
4	4,500	4,760	4,490	4,470	5,070	5,030	12,700	4,860	4,490	6,060	3,820	4,140
5	4,310	4,330	5,080	4,420	7,250	4,830	12,000	5,230	4,430	5,810	3,880	4,250
6	4,580	4,710	5,100	4,720	9,810	5,010	12,900	3,520	4,300	6,050	4,720	4,170
7	4,360	4,600	4,520	6,360	8,320	4,930	11,100	7,500	4,350	5,550	4,690	3,950
8	4,590	4,560	4,250	3,890	5,500	4,900	9,120	5,050	4,490	5,800	4,040	4,050
9	4,370	4,450	4,320	3,570	5,410	4,850	8,320	4,980	4,530	5,220	4,610	4,140
10	4,290	4,180	4,260	4,350	5,290	5,130	6,830	5,950	4,360	7,820	4,840	4,050
11	4,300	4,410	4,350	4,580	5,390	5,700	6,200	4,930	4,450	6,900	4,430	4,160
12	4,510	4,420	4,310	4,390	4,970	6,140	6,010	4,850	4,270	5,330	4,320	4,190
13	4,320	4,390	4,270	4,480	5,030	5,160	6,010	4,910	4,200	5,510	4,410	4,190
14	4,510	4,580	4,390	4,280	5,070	4,960	5,340	4,580	4,410	6,130	4,720	4,180
15	4,490	4,230	4,480	4,830	4,750	4,810	3,750	5,030	4,580	5,890	4,260	4,070
16	4,170	4,680	4,410	4,630	4,750	4,740	3,660	4,700	4,380	6,260	4,070	4,250
17	4,190	4,310	4,320	4,420	4,820	4,870	3,370	4,490	4,390	6,030	4,230	4,060
18	4,220	4,100	4,350	4,340	4,750	4,760	3,420	5,060	4,750	5,340	4,270	4,220
19	4,160	4,370	4,240	4,470	4,790	4,630	3,440	6,270	4,260	4,870	4,200	4,270
20	4,190	4,260	4,280	4,480	4,640	4,620	4,170	4,810	4,600	5,310	4,240	3,890
21	4,490	4,360	4,550	4,510	4,620	4,890	4,450	3,980	4,230	5,880	4,160	4,220
22	4,320	4,320	4,540	4,400	4,480	5,080	4,480	4,150	4,320	5,670	4,140	4,540
23	4,400	4,150	4,340	4,590	4,550	5,270	4,710	4,270	4,380	6,170	3,960	4,440
24	4,440	4,170	4,480	4,520	5,340	4,540	5,020	4,540	4,450	4,640	3,940	4,510
25	4,700	4,540	4,310	4,580	4,890	4,640	4,590	5,840	4,570	4,470	4,150	4,310
26	4,630	4,410	4,400	4,560	4,830	5,080	4,360	4,880	5,160	4,450	4,210	4,420
27	4,660	4,360	4,270	4,550	4,550	6,460	4,370	4,300	5,770	4,560	4,290	4,400
28	5,080	4,510	4,540	4,710	4,590	11,500	5,230	4,000	4,880	4,290	4,180	4,290
29	4,750	4,670	4,710	4,730	---	21,400	5,790	4,260	5,120	4,500	4,040	4,330
30	4,970	4,400	4,500	4,740	---	16,300	5,490	4,440	4,580	4,230	4,060	4,280
31	4,800	---	4,390	4,710	---	21,300	---	4,720	---	4,260	4,020	---
Total	138,840	132,340	137,900	140,600	147,140	207,550	228,930	150,710	136,460	167,950	130,720	126,240
Mean	4,479	4,411	4,448	4,535	5,255	6,695	7,631	4,862	4,549	5,418	4,217	4,208
Max	5,080	4,760	5,100	6,360	9,810	21,400	23,500	7,500	5,770	7,820	4,840	4,540
Min	4,160	4,100	4,240	3,570	4,450	4,540	3,370	3,520	4,200	4,230	3,730	3,890
Cfsm	0.60	0.59	0.59	0.60	0.70	0.89	1.02	0.65	0.61	0.72	0.56	0.56
In.	0.69	0.66	0.68	0.70	0.73	1.03	1.13	0.75	0.68	0.83	0.65	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,907	7,080	8,893	9,961	11,410	13,150	11,880	8,780	7,908	7,083	7,256	6,687
Max	17,740	18,610	27,270	30,250	30,600	29,090	43,850	27,050	22,830	16,850	15,820	14,480
(WY)	(1965)	(1996)	(1993)	(1993)	(1998)	(1952)	(1964)	(1964)	(1973)	(2003)	(1994)	(1964)
Min	2,728	3,872	3,751	3,404	3,929	4,687	4,310	3,796	3,808	3,627	3,825	3,332
(WY)	(1952)	(2008)	(1953)	(2009)	(2009)	(2002)	(2008)	(2008)	(2008)	(1952)	(2008)	(1952)

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1952 - 2011	
Annual total	3,180,780		1,845,380			
Annual mean	8,714		5,056		8,945	
Highest annual mean					16,580	1964
Lowest annual mean					4,194	2008
Highest daily mean	29,200	Feb 17	23,500	Apr 1	84,500	Apr 10, 1964
Lowest daily mean	3,380	Jun 12	3,370	Apr 17	1,770	Oct 18, 1951
Annual seven-day minimum	4,090	May 12	3,750	Apr 15	2,090	Oct 20, 1951
Maximum peak flow			24,500	Apr 1	87,100	Apr 9, 1964
Maximum peak stage			112.61	Apr 1	^a 24.16	Apr 9, 1964
Annual runoff (cfsm)	1.16		0.673		1.19	
Annual runoff (inches)	15.76		9.14		16.18	
10 percent exceeds	24,100		5,880		17,200	
50 percent exceeds	5,540		4,520		6,680	
90 percent exceeds	4,310		4,160		4,360	

^a Adjusted to current datum.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1883 - 1951, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,988	6,923	9,645	13,560	16,950	17,490	13,660	8,566	7,962	8,042	8,864	7,916
Max	42,170	21,250	27,390	40,950	39,560	52,440	58,700	20,670	22,700	19,480	35,030	47,850
(WY)	1930	1949	1993	1936	1903	1929	1936	1929	1900	1906	1887	1888
Min	2,079	2,614	4,263	5,137	4,812	6,298	5,298	3,427	3,258	2,811	1,706	1,453
(WY)	1905	1932	1884	1890	1938	1898	1896	1927	1925	1893	1925	1925

SUMMARY STATISTICS

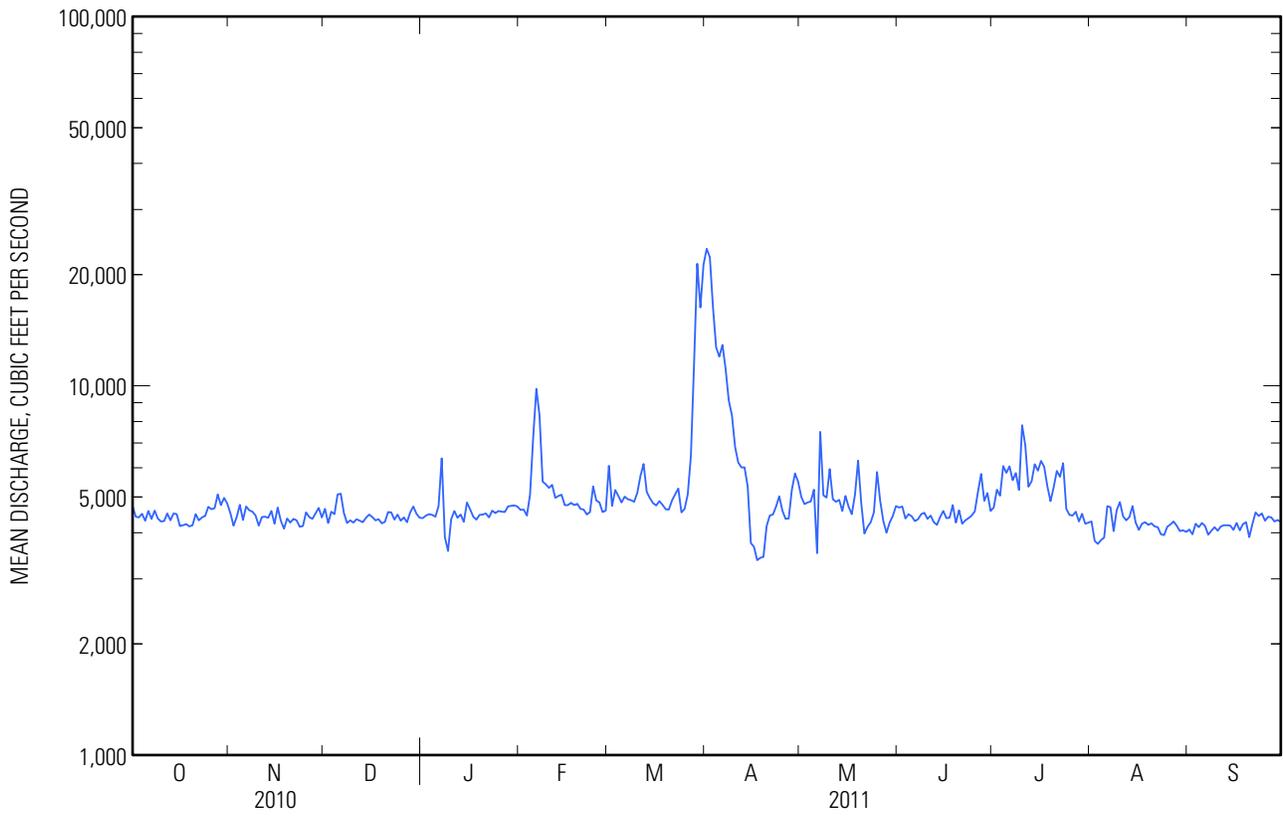
	Water Years 1883 - 1951	
Annual total		
Annual mean	10,640	
Highest annual mean	16,500	1929
Lowest annual mean	5,836	1904
Highest daily mean	315,000	Oct 3, 1929
Lowest daily mean	1,040	Oct 2, 1927
Annual seven-day minimum	1,170	Aug 23, 1925
Maximum peak flow	^a 350,000	Oct 3, 1929
Maximum peak stage	^b 46.30	Sep 27, 1929
Minimum peak flow	^c 648	Sep 24, 1939
Annual runoff (cfsm)	1.42	
Annual runoff (inches)	19.25	
10 percent exceeds	19,900	
50 percent exceeds	6,720	
90 percent exceeds	3,180	

^aGage height 45.10 ft, at site and datum then in use.

^bAt site and datum then in use.

^cFrom rating curve extended below 1,400 cfs.

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued



02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

TEMPERATURE: April 2010 to current year.

TURBIDITY: April 2010 to current year.

INSTRUMENTATION.--Water-quality multiprobe and data collection platform.

REMARKS.--Temperature records rated excellent except for May 14-18, 21-23, 27, 28, June 30, and Aug 2-4, 8, which are poor. Turbidity records rated good except for Oct. 1-13, Dec. 21 to Jan. 27, and May 13 to Aug. 10, which are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.6°C, Aug. 3, 5, 2011; minimum, 1.9°C, Jan. 9, 2011.

TURBIDITY: Maximum, 160 FNU, Mar. 29, 2011; minimum, <1.0 FNU many days in 2010, 2011.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.6°C, Aug. 3, 5; minimum, 1.9°C, Jan. 9.

TURBIDITY: Maximum, 160 FNU, Mar. 29; minimum, <1.0 FNU many days in October, November, July, August.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	22.0	21.2	21.5	19.4	18.9	19.2	16.0	15.7	15.8	10.3	9.3	9.9
2	22.1	21.3	21.6	19.4	18.8	19.1	15.8	15.4	15.6	11.2	10.3	10.8
3	22.1	21.2	21.6	18.9	18.5	18.7	15.5	14.4	15.0	11.4	11.0	11.1
4	21.5	21.0	21.2	18.6	18.1	18.5	14.4	13.7	13.9	11.0	10.5	10.8
5	21.1	20.4	20.7	18.1	17.5	17.9	13.9	13.5	13.8	10.5	9.7	10.0
6	20.6	19.9	20.3	17.5	16.6	17.1	13.7	13.0	13.5	9.7	9.2	9.6
7	20.4	18.0	19.5	16.7	16.1	16.5	13.0	11.9	12.5	9.2	9.0	9.1
8	20.7	18.5	20.1	16.4	15.8	16.1	11.9	11.1	11.5	9.2	3.5	7.6
9	21.2	19.9	20.5	16.7	15.9	16.3	11.1	10.8	10.9	7.2	1.9	4.6
10	21.7	20.4	21.0	17.3	16.2	16.8	11.0	10.5	10.8	8.4	4.0	7.6
11	21.9	20.7	21.2	17.8	16.8	17.3	11.5	11.0	11.2	7.9	7.0	7.5
12	22.1	21.0	21.5	17.6	17.0	17.3	11.6	11.0	11.3	7.0	6.6	6.8
13	22.2	21.3	21.7	17.5	16.8	17.1	11.2	10.4	10.8	6.9	6.6	6.8
14	22.1	21.3	21.7	17.0	16.4	16.7	10.4	9.2	9.9	6.7	6.4	6.5
15	21.8	21.1	21.4	16.9	16.2	16.6	9.2	8.1	8.5	7.2	6.5	6.9
16	21.1	20.3	20.7	17.1	16.6	16.8	9.2	8.1	8.6	7.5	7.0	7.2
17	20.4	19.6	20.0	17.3	16.9	17.1	10.0	9.2	9.6	7.8	7.4	7.7
18	20.1	19.3	19.7	17.2	16.8	16.9	10.6	10.0	10.4	8.2	7.7	8.0
19	20.4	19.5	19.9	16.9	16.5	16.7	10.9	10.5	10.7	8.8	8.2	8.5
20	20.3	19.7	20.0	16.8	16.3	16.5	10.8	10.2	10.5	9.2	8.6	8.9
21	20.4	19.8	20.1	16.9	16.3	16.6	10.2	9.8	10	9.5	9.1	9.3
22	20.4	19.7	20.0	17.1	16.4	16.8	10.3	9.8	10.0	9.2	8.7	9.0
23	20.2	19.6	19.9	17.6	16.8	17.2	10.3	10.0	10.2	8.8	8.3	8.6
24	20.1	19.4	19.7	18.2	17.5	17.8	10.7	10.1	10.4	8.4	8.1	8.2
25	20.0	19.7	19.9	18.3	17.9	18.1	10.2	9.7	9.9	8.3	8.0	8.2
26	21.0	19.8	20.3	18.2	17.9	18.1	9.7	9.1	9.5	8.6	8.2	8.4
27	21.1	20.6	20.8	17.9	17.1	17.5	9.1	8.6	8.9	8.4	8.0	8.2
28	21.9	21.1	21.5	17.1	15.9	16.5	8.6	7.9	8.2	8.5	8.2	8.3
29	21.8	21.0	21.6	15.9	15.2	15.5	8.0	7.7	7.9	8.5	8.2	8.3
30	21.0	19.8	20.6	15.8	15.2	15.5	8.7	7.9	8.3	9.0	8.3	8.7
31	19.9	19.2	19.6	---	---	---	9.4	8.6	9.0	9.3	8.8	9.1
Month	22.2	18.0	20.6	19.4	15.2	17.2	16.0	7.7	10.9	11.4	1.9	8.4

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	9.5	9.1	9.4	13.9	13.1	13.5	12.8	11.9	12.2	19.9	17.9	18.8
2	9.9	9.4	9.6	14.6	13.4	14.0	13.5	12.8	13.1	19.8	18.0	18.7
3	9.6	9.4	9.5	13.8	12.8	13.4	14.0	13.4	13.6	19.9	18.3	19.0
4	9.5	8.7	9.3	12.8	12.1	12.6	14.8	14.0	14.4	19.9	18.3	19.0
5	8.7	8.0	8.3	12.3	11.8	12.1	15.6	14.7	15.2	19.7	17.6	18.5
6	8.2	7.7	7.9	12.3	11.7	12.0	15.0	14.0	14.3	18.3	17.3	17.6
7	8.0	7.6	7.8	12.1	11.7	11.9	15.3	14.8	15.1	18.9	17.8	18.3
8	8.0	7.6	7.8	12.5	11.9	12.2	15.8	15.0	15.5	18.6	17.3	17.8
9	8.4	7.9	8.1	12.3	11.9	12.1	16.4	15.3	16.0	19.8	18.5	19.2
10	8.4	8.2	8.3	12.8	12.1	12.5	18.0	15.7	16.8	20.9	19.5	20.2
11	8.8	8.2	8.5	12.7	12.1	12.4	18.3	16.4	17.4	21.3	20.8	21.0
12	8.8	8.4	8.6	12.4	11.8	12.1	17.9	16.5	17.2	21.8	20.8	21.3
13	8.8	8.4	8.5	12.5	11.9	12.3	17.2	15.5	16.3	21.8	21.1	21.4
14	9.2	8.4	8.8	13.8	12.5	13.3	17.3	15.5	16.4	21.8	21.1	21.5
15	9.8	8.9	9.3	14.5	13.4	14.0	17.4	16.8	17.1	21.4	20.4	21.0
16	10.1	9.5	9.8	14.3	13.8	14.1	17.5	17.1	17.3	---	---	---
17	10.5	9.8	10.1	14.2	13.4	13.8	17.7	16.9	17.5	---	---	---
18	11.0	10.1	10.6	14.5	13.4	13.9	17.5	16.8	17.1	18.7	18.1	18.4
19	11.9	10.7	11.3	15.3	13.9	14.6	18.2	16.9	17.7	18.7	18.1	18.3
20	12.2	11.5	11.8	15.5	14.6	15.0	18.8	17.9	18.4	19.3	18.6	18.9
21	12.5	11.7	12.0	16.4	14.9	15.5	19.3	17.7	18.4	---	---	---
22	12.4	11.8	12.0	16.1	15.4	15.7	18.9	17.0	17.7	22.1	19.7	21.2
23	12.7	11.7	12.1	16.2	15.6	15.9	18.0	17.0	17.5	22.9	20.5	22.0
24	12.8	12.2	12.5	16.8	15.8	16.3	19.6	16.9	17.9	23.4	22.3	22.8
25	12.9	12.3	12.5	16.6	15.6	16.0	20.0	18.0	18.8	22.6	22.1	22.4
26	12.8	12.3	12.5	16.0	15.0	15.7	20.4	18.9	19.5	22.5	21.6	22.1
27	13.4	12.3	12.8	15.0	14.2	14.7	20.6	19.2	19.8	22.5	20.2	21.8
28	13.6	12.6	13.1	14.2	12.2	13.3	20.7	18.9	19.7	23.1	21.0	22.2
29	---	---	---	12.5	11.5	11.9	20.0	18.7	19.2	22.8	21.9	22.4
30	---	---	---	12.7	12.4	12.5	19.6	17.6	18.6	23.3	21.8	22.5
31	---	---	---	12.5	12.1	12.3	---	---	---	24.2	23.0	23.5
Month	13.6	7.6	10.1	16.8	11.5	13.6	20.7	11.9	16.9	---	---	---

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	24.2	23.4	23.8	24.3	23.5	24.0	26.1	25.0	25.5	---	---	---
2	24.2	23.6	23.9	24.1	23.4	23.8	26.1	25.0	25.5	---	---	---
3	24.1	23.6	23.8	24.0	23.0	23.5	26.6	24.9	25.6	---	---	---
4	24.9	23.6	24.2	23.7	22.9	23.3	26.5	25.4	25.9	---	---	---
5	24.2	23.5	23.9	23.4	21.9	22.6	26.6	25.8	26.1	---	---	---
6	24.4	23.5	24.0	23.1	22.0	22.6	26.3	25.2	25.9	---	---	---
7	24.5	23.5	24.0	23.1	22.3	22.7	25.3	24.4	25.0	---	---	---
8	24.3	23.3	23.8	23.3	22.2	22.9	25.1	24.4	24.7	---	---	---
9	24.4	23.4	23.9	23.5	23.0	23.3	25.3	24.4	24.8	---	---	---
10	23.8	22.8	23.3	23.5	21.8	22.6	---	---	---	---	---	---
11	23.8	22.8	23.3	23.9	21.1	22.4	---	---	---	---	---	---
12	24.2	23.2	23.7	24.0	23.0	23.3	---	---	---	---	---	---
13	24.5	23.3	23.9	24.9	23.3	24.1	---	---	---	---	---	---
14	24.7	23.8	24.2	24.4	22.9	23.6	---	---	---	---	---	---
15	24.3	23.4	23.9	23.7	22.1	22.7	---	---	---	---	---	---
16	---	---	---	23.0	22.0	22.5	---	---	---	---	---	---
17	23.9	23.0	23.4	22.7	21.6	22.2	---	---	---	---	---	---
18	23.8	22.9	23.3	23.3	22.3	22.6	---	---	---	---	---	---
19	24.0	23.3	23.6	23.7	23.2	23.5	---	---	---	---	---	---
20	24.9	23.5	24.1	24.4	23.7	24.2	---	---	---	---	---	---
21	25.4	24.4	24.9	24.6	23.6	24.1	---	---	---	---	---	---
22	25.6	24.7	25.1	24.8	23.5	24.0	---	---	---	---	---	---
23	25.6	24.6	25.0	25.1	23.3	24.2	---	---	---	---	---	---
24	24.6	23.9	24.3	25.1	24.0	24.4	---	---	---	---	---	---
25	24.0	23.3	23.8	25.6	24.0	25.0	---	---	---	---	---	---
26	24.1	23.2	23.6	25.9	25.0	25.4	---	---	---	---	---	---
27	24.2	23.4	23.8	25.7	24.8	25.1	---	---	---	---	---	---
28	24.3	23.4	23.9	25.8	25.2	25.5	---	---	---	---	---	---
29	24.2	23.4	23.8	26.0	25.2	25.6	---	---	---	---	---	---
30	24.2	23.5	23.8	25.8	25.2	25.5	---	---	---	---	---	---
31	---	---	---	26.0	25.1	25.5	---	---	---	---	---	---
Month	---	---	---	26.0	21.1	23.8	---	---	---	---	---	---

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[<, less than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	2.2	1.6	1.8	2.9	2.2	2.5	1.2	1.0	1.1	1.8	1.3	1.5
2	2.2	1.6	1.8	2.6	1.6	2.0	1.8	1.1	1.3	1.8	1.4	1.5
3	4.7	1.5	1.8	2.0	1.5	1.7	1.6	<1.0	1.3	1.7	1.4	1.5
4	2.6	1.4	1.6	2.1	1.3	1.6	1.2	1.0	1.1	2.4	1.4	1.6
5	2.2	1.3	1.7	2.0	1.4	1.6	1.2	1.0	1.1	1.6	1.4	1.5
6	1.9	1.1	1.5	2.2	1.4	1.6	1.3	1.0	1.1	1.8	1.3	1.4
7	---	---	---	1.6	1.1	1.3	1.4	1.1	1.2	1.7	1.4	1.6
8	---	---	---	1.9	1.2	1.4	4.4	1.1	1.3	---	---	---
9	2.0	<1.0	1.3	1.6	1.1	1.3	1.4	1.1	1.2	---	---	---
10	1.9	1.1	1.3	2.9	1.0	1.3	1.5	1.1	1.2	---	---	---
11	1.9	1.0	1.3	1.4	<1.0	1.1	1.3	1.0	1.1	1.9	1.5	1.7
12	1.6	<1.0	1.0	1.3	<1.0	1.1	1.4	1.0	1.2	1.9	1.4	1.6
13	2.0	<1.0	1.3	1.9	<1.0	1.1	1.7	1.1	1.3	1.7	1.3	1.5
14	1.5	1.0	1.3	1.5	<1.0	1.1	1.6	1.2	1.4	1.9	1.5	1.6
15	1.8	1.0	1.2	1.3	<1.0	<1.0	2.0	1.0	1.3	1.7	1.3	1.5
16	1.5	1.1	1.3	1.3	<1.0	1.0	1.7	1.3	1.4	2.0	1.3	1.6
17	1.8	1.1	1.3	1.4	1.1	1.2	1.5	1.3	1.3	1.8	1.3	1.5
18	2.2	1.1	1.4	1.6	1.1	1.3	1.6	1.0	1.2	1.9	1.2	1.5
19	2.1	1.0	1.3	1.6	1.0	1.2	1.4	1.0	1.2	2.1	1.3	1.5
20	3.0	1.1	1.4	1.3	1.0	1.1	1.8	1.2	1.5	1.7	1.2	1.5
21	2.7	1.0	1.2	1.5	<1.0	1.1	1.9	1.5	1.6	1.6	1.2	1.3
22	1.7	<1.0	1.2	6.0	1.0	1.5	1.8	1.4	1.5	1.5	1.2	1.3
23	1.7	1.0	1.2	5.9	1.0	1.3	2.6	1.5	1.6	1.4	1.1	1.3
24	2.1	1.0	1.2	6.4	<1.0	1.1	1.8	1.4	1.6	1.5	1.0	1.3
25	2.0	1.0	1.2	1.2	<1.0	1.0	1.7	1.5	1.5	1.6	1.1	1.3
26	1.7	1.0	1.3	1.3	<1.0	1.0	1.6	1.4	1.5	1.6	1.1	1.4
27	1.7	<1.0	1.2	1.1	<1.0	<1.0	1.7	1.4	1.5	2.0	1.4	1.7
28	1.3	<1.0	1.1	1.2	<1.0	1.0	1.8	1.4	1.5	2.0	1.4	1.7
29	4.1	1.0	1.8	4.4	<1.0	1.0	1.7	1.3	1.4	1.9	1.4	1.6
30	5.1	2.5	3.6	1.2	<1.0	1.0	2.3	1.3	1.4	1.8	1.4	1.6
31	3.1	2.1	2.5	---	---	---	2.9	1.2	1.5	1.8	1.5	1.6
Month	---	---	---	6.4	1.0	1.3	4.4	1.0	1.3	---	---	---

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[<, less than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	1.8	1.4	1.6	5.9	2.7	3.7	42	14	23	7.1	4.5	5.6
2	1.9	1.4	1.6	6.1	3.3	4.6	24	8.6	14	6.7	3.6	4.5
3	2.3	1.6	1.8	4.4	2.9	3.4	11	7.5	9.1	4.6	2.5	3.1
4	2.4	1.6	1.9	4.3	2.8	3.3	9.1	4.9	6.3	4.4	2.5	2.9
5	5.8	1.5	2.8	3.8	2.8	3.2	12	5.1	7.6	4.2	2.6	3.0
6	36	5.7	13	3.4	2.5	2.9	9.5	4.4	6.1	2.8	1.9	2.4
7	71	33	45	3.1	2.3	2.7	10	3.8	5.6	3.0	2.2	2.7
8	35	28	32	3.0	1.7	2.3	9.9	3.6	5.5	2.8	1.8	2.3
9	28	14	22	2.4	1.7	1.9	7.5	3.8	5.3	2.9	2.2	2.4
10	18	8.9	14	2.4	1.8	2.0	7.9	3.5	4.7	2.6	2.0	2.2
11	11	6.7	9.3	3.1	2.0	2.5	7.2	2.9	3.8	2.5	2.0	2.2
12	8.0	6.3	7.1	4.5	2.3	3.2	4.3	2.1	3.1	2.4	1.2	1.8
13	6.6	5.1	5.8	4.9	3.5	4.3	4.2	2.1	2.8	2.2	<1.0	1.4
14	5.7	4.4	5.1	8.6	3.3	4.9	2.5	1.9	2.1	2.1	<1.0	1.4
15	5.3	4.1	4.7	5.2	3.3	4.2	2.8	1.6	1.9	2.8	1.0	1.8
16	4.8	3.3	4.0	4.6	3.1	3.6	2.7	1.9	2.2	---	---	---
17	4.4	3.2	3.7	3.5	2.5	2.9	2.6	2.0	2.2	---	---	---
18	4.6	2.7	3.4	3.3	2.6	2.9	3.7	1.9	2.2	1.9	1.1	1.4
19	3.9	2.7	3.1	3.3	2.3	2.8	2.8	1.9	2.1	2.0	1.0	1.5
20	3.6	2.6	3.1	6.0	2.1	2.6	2.4	1.8	2.1	---	---	---
21	3.6	2.6	3.1	5.6	2.4	3.0	2.5	1.4	1.8	---	---	---
22	4.8	2.9	3.7	3.5	2.1	2.8	2.2	1.5	1.9	---	---	---
23	5.1	2.9	3.8	4.1	2.1	2.5	6.5	1.8	4.4	---	---	---
24	5.4	2.4	3.1	2.6	1.8	2.3	6.9	2.6	3.7	1.8	1.2	1.5
25	3.8	2.4	3.0	2.5	1.6	2.1	3.8	2.1	2.8	2.7	1.2	1.5
26	3.5	2.4	2.9	6.2	1.6	2.0	3.7	1.9	2.5	2.1	1.0	1.4
27	8.4	2.5	4.0	2.3	1.5	1.8	4.0	2.0	2.6	---	---	---
28	5.9	3.6	4.6	130	2.0	28	3.8	2.3	2.9	---	---	---
29	---	---	---	160	32	77	10	3.8	7.1	4.6	1.5	2.5
30	---	---	---	41	24	32	6.3	3.5	4.5	2.2	1.3	1.8
31	---	---	---	38	20	27	---	---	---	2.6	1.0	1.6
Month	71	1.4	7.6	160	1.5	7.9	42	1.4	4.9	---	---	---

02197000 SAVANNAH RIVER AT AUGUSTA, GA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
 WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[<, less than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	1.8	<1.0	1.4	3.8	1.3	1.6	3.3	<1.0	<1.0	---	---	---
2	1.6	<1.0	1.2	1.9	1.2	1.4	---	---	---	---	---	---
3	2.8	<1.0	1.2	2.1	1.3	1.5	---	---	---	---	---	---
4	4.9	1.0	1.4	2.3	1.3	1.5	---	---	---	---	---	---
5	3.4	1.0	1.3	1.7	1.3	1.5	---	---	---	---	---	---
6	6.7	1.0	1.5	1.6	1.1	1.3	1.6	<1.0	<1.0	---	---	---
7	1.6	1.1	1.2	1.4	1.0	1.2	3.3	<1.0	<1.0	---	---	---
8	1.6	1.0	1.2	2.1	1.0	1.2	---	---	---	---	---	---
9	1.3	1.0	1.1	4.0	1.0	1.2	1.9	<1.0	<1.0	---	---	---
10	1.5	<1.0	1.1	3.5	1.6	2.1	---	---	---	---	---	---
11	1.7	<1.0	1.1	2.1	1.3	1.7	---	---	---	---	---	---
12	1.7	1.1	1.2	2.3	1.2	1.7	---	---	---	---	---	---
13	1.8	1.0	1.2	1.6	<1.0	1.2	---	---	---	---	---	---
14	1.9	1.1	1.4	1.8	<1.0	1.2	---	---	---	---	---	---
15	1.8	1.1	1.3	1.5	1.0	1.3	---	---	---	---	---	---
16	---	---	---	1.6	1.2	1.4	---	---	---	---	---	---
17	2.2	1.3	1.6	1.5	<1.0	1.2	---	---	---	---	---	---
18	2.0	1.2	1.5	2.5	<1.0	1.0	---	---	---	---	---	---
19	2.5	1.3	1.6	1.3	<1.0	1.0	---	---	---	---	---	---
20	1.9	1.3	1.6	1.4	<1.0	1.0	---	---	---	---	---	---
21	2.1	1.2	1.5	1.3	<1.0	1.0	---	---	---	---	---	---
22	2.2	1.2	1.5	1.1	<1.0	<1.0	---	---	---	---	---	---
23	1.9	1.2	1.6	1.2	<1.0	1.0	---	---	---	---	---	---
24	2.0	1.1	1.5	1.3	<1.0	1.0	---	---	---	---	---	---
25	2.3	1.3	1.5	2.0	<1.0	<1.0	---	---	---	---	---	---
26	2.1	1.4	1.7	1.3	<1.0	<1.0	---	---	---	---	---	---
27	2.0	1.3	1.5	1.9	<1.0	<1.0	---	---	---	---	---	---
28	1.9	1.1	1.5	1.8	<1.0	1.0	---	---	---	---	---	---
29	2.9	1.4	1.9	1.0	<1.0	<1.0	---	---	---	---	---	---
30	2.8	1.4	2.1	1.1	<1.0	<1.0	---	---	---	---	---	---
31	---	---	---	1.4	<1.0	<1.0	---	---	---	---	---	---
Month	---	---	---	4.0	1.0	1.2	---	---	---	---	---	---