

SAVANNAH RIVER BASIN
1999 Water Year

02197000 SAVANNAH RIVER AT AUGUSTA, GA

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, GA-Aiken County, SC, Hydrologic Unit 03060106, at New Savannah Bluff Lock and Dam, 0.2 miles upstream from Butler Creek, 12.0 miles downstream from Augusta, and at mile 187.4.

DRAINAGE AREA.--7,508 mi², including that of Butler Creek.

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge 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 the National Weather Service.

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

GAGE.—Satellite transmitter. Datum of gage is 96.58 feet above sea level (U.S. Army Corps of Engineers benchmark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, non-recording or recording gage at Fifth Street Bridge at datum 102.06 feet above sea level (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 feet above sea level (levels by U.S. Army Corps of Engineers). Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 miles downstream from present site and at present datum.

REMARKS.--Records good, except those for periods of estimated daily discharge, which are poor. Flow regulated by Lake Burton since 1919, Mathis Reservoir since 1915, Hartwell Lake since February 1961, Richard B. Russell Reservoir since October 1983, and Thurmond Lake since December 1951 (See "Lakes and Reservoirs in Savannah River Basin", stations 02178500, 02179500, 02187250, 02189004, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the U.S. Geological Survey. Periods of monthly discharge only are not included in statistics computations. Current water year information can be obtained by contacting the USGS, South Carolina District.

STATION NUMBER 02197000 SAVANNAH RIVER AT AUGUSTA, GA STREAM SOURCE AGENCY USGS
 LATITUDE 332225 LONGITUDE 0815635 DRAINAGE AREA 7508. DATUM 96.58 STATE 13 COUNTY 245
 ,PUBLISHED
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7460	5160	6100	5040	8340	4710	5100	5220	4210	5540	4800	6380
2	6360	5390	6100	4500	14000	3870	5830	4920	4530	6330	4650	7330
3	5460	6620	5230	5000	14600	5330	5530	4670	4840	5510	4660	7630
4	4930	7110	5440	5140	8820	6540	5190	5020	4890	4890	4920	7200
5	5530	7280	5050	6440	6350	5500	6020	4950	4560	5290	4690	6520
6	5410	6800	5030	6230	7360	4560	6400	5020	4390	5290	4620	7660
7	6120	5870	5210	5020	7010	4850	6040	4650	5210	5560	4440	7430
8	6360	5290	6080	4580	8430	6050	7100	4850	4860	e5120	4030	8110
9	5830	5970	5990	5110	11200	6420	7020	5130	4270	e5210	5130	7350
10	6090	6340	5880	5470	11300	5600	5510	4760	4790	5150	6380	7340
11	6000	6440	5250	6120	11000	4800	5960	4320	4240	4940	6430	5540
12	5270	6190	5390	4930	10100	4960	6170	4600	4380	5750	6470	4700
13	5990	6120	5530	4690	8660	5310	5770	4670	4650	e5750	6080	5390
14	6180	6420	5840	5550	7900	5700	5610	4310	4280	e5940	5810	5140
15	7010	5760	6300	5440	7720	8420	6010	3880	4580	e5730	5570	5740
16	6550	6210	6720	5230	6340	9710	5600	3800	e5540	5580	7120	e5240
17	5230	5480	6170	5220	6090	6890	4370	4590	e7640	6180	8040	e4750
18	4820	6810	6150	7210	5650	5220	4520	5390	6290	5070	8260	4270
19	4620	6180	5610	6950	6440	5470	5340	5140	4800	5690	7920	4140
20	4500	6560	5410	5670	4330	5010	5800	4390	4610	5300	e7170	4690
21	4850	6500	5190	5540	4850	4780	5590	4820	4810	4980	6960	5330
22	6640	5130	5490	6410	5650	5820	5700	5090	4850	5220	5490	5110
23	5070	6050	5150	6310	7670	6070	5410	5250	4850	6620	5330	4960
24	4600	7700	5810	5150	6750	6130	5020	5210	4850	5590	e8030	4650
25	5100	7720	5580	8140	6160	5850	5610	4990	4870	5200	7450	4740
26	11300	6410	5060	7510	4270	6040	4770	5140	4800	5920	7380	4860
27	17500	4690	5000	5770	4110	5600	4860	4850	4730	6580	7590	5890
28	14700	5370	5130	5470	4820	5310	5310	3970	4970	5680	6410	6410
29	8070	5750	4790	4850	---	5290	5950	4720	e4790	5080	5870	5940
30	4570	6190	4990	5290	---	5280	5490	4510	5250	5100	5960	3910
31	5440	---	4910	5750	---	5720	---	3960	---	4670	7730	---

TOTAL	203560	185510	171580	175730	215920	176810	168600	146790	146330	170460	191390	174350
MEAN	6566	6184	5535	5669	7711	5704	5620	4735	4878	5499	6174	5812
MAX	17500	7720	6720	8140	14600	9710	7100	5390	7640	6620	8260	8110
MIN	4500	4690	4790	4500	4110	3870	4370	3800	4210	4670	4030	3910
CFSM	.87	.82	.74	.76	1.03	.76	.75	.63	.65	.73	.82	.77
IN.	1.01	.92	.85	.87	1.07	.88	.84	.73	.73	.84	.95	.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1999, BY WATER YEAR (WY)

MEAN	7303	7354	9142	10790	12320	14300	13160	9436	8286	7218	7547	7021
MAX	17740	18610	27270	30250	30600	29090	43850	27050	22830	13200	15820	14480
(WY)	1965	1996	1993	1993	1998	1952	1964	1964	1973	1976	1994	1964
MIN	2728	4017	3751	4084	4861	5637	5172	4476	4271	3627	3889	3332
(WY)	1952	1953	1953	1953	1956	1988	1988	1988	1988	1952	1952	1952

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1952 - 1999	
ANNUAL TOTAL	4990550		2127030			
ANNUAL MEAN	13670		5827		9474	
HIGHEST ANNUAL MEAN					16580 1964	
LOWEST ANNUAL MEAN					5344 1988	
HIGHEST DAILY MEAN	42700	Feb 7	17500	Oct 27	84500	Apr 10 1964
LOWEST DAILY MEAN	4500	Oct 20	3800	May 16	1770	Oct 18 1951
ANNUAL SEVEN-DAY MINIMUM	5010	Oct 18	4310	May 11	2090	Oct 20 1951
INSTANTANEOUS PEAK FLOW			19000	Feb 2	87100	Apr 9 1964
INSTANTANEOUS PEAK STAGE			14.72	Feb 2	24.16	Apr 9 1964
ANNUAL RUNOFF (CFSM)	1.82		.78		1.26	
ANNUAL RUNOFF (INCHES)	24.73		10.54		17.15	
10 PERCENT EXCEEDS	28000		7400		18100	
50 PERCENT EXCEEDS	7620		5490		6990	
90 PERCENT EXCEEDS	5440		4610		5140	

STATISTICS COMPUTED BY: sellisor

DATE: 04/12/2000 AT: 15:49:42

e Estimated