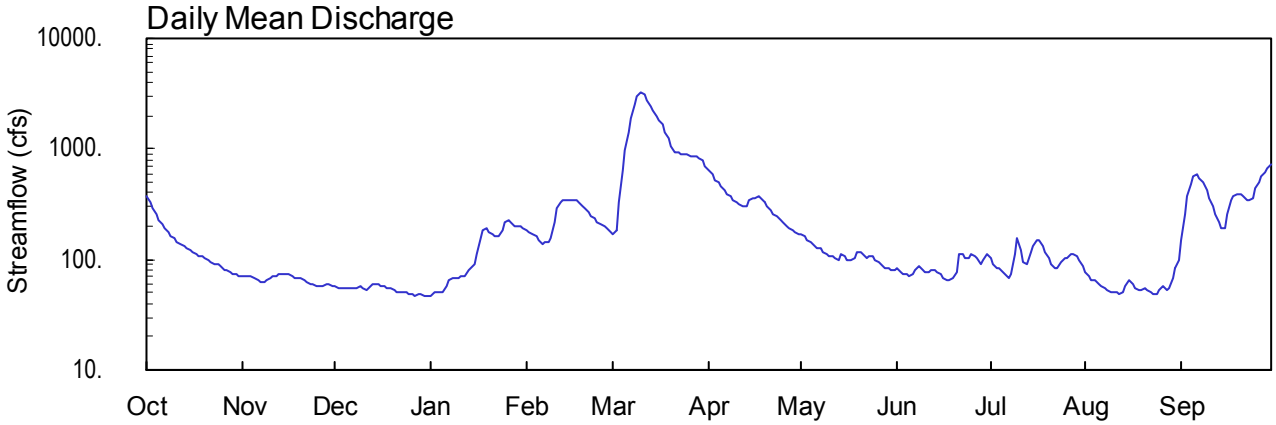
SATILLA RIVER BASIN

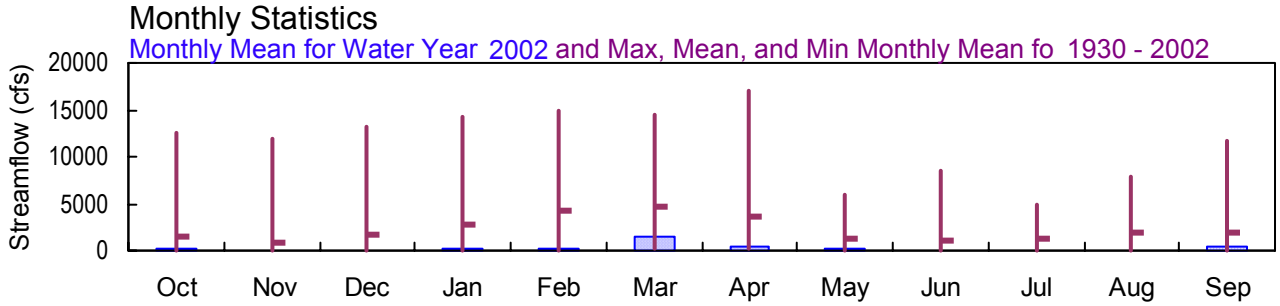
2002 Water Year

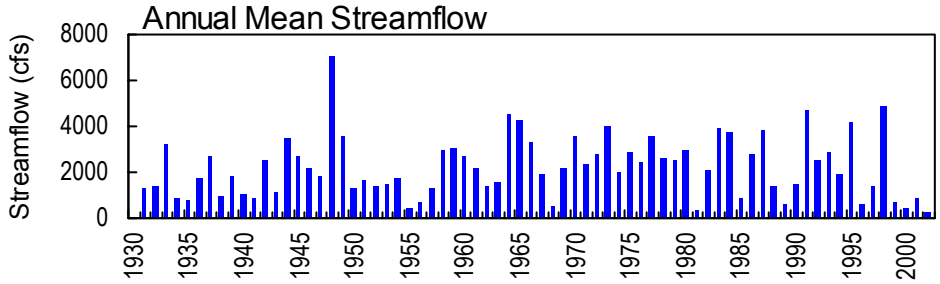
02228000 SATILLA RIVER AT ATKINSON, GA

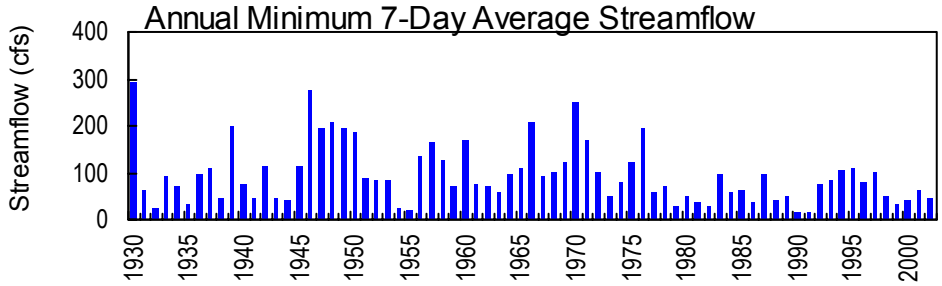
Latitude: 31°13'16" Longitude: 81°52'03" Hydrologic Unit Code: 03070201 Brantley County

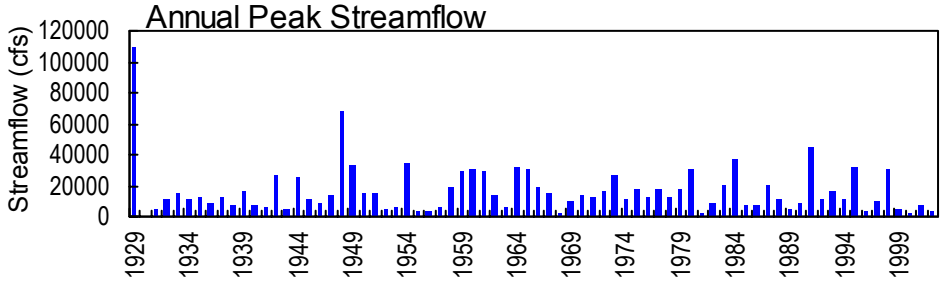
Drainage Area: 2,790. mi^2 Datum: 14.79 feet











SATILLA RIVER BASIN
2002 Water Year

02228000 SATILLA RIVER AT ATKINSON, GA

LOCATION.—Lat 31°13'16", long 81°52'03" referenced to North American Datum (NAD) of 1927, Brantley County, Hydrologic Unit 03070201, on left bank piling 25.0 feet upstream from bridge on U.S. 82, 400.0 feet downstream from Seaboard Coast Line Railroad bridge, and 1.0 mile west of Atkinson.

DRAINAGE AREA.—2,790 mi^2, approximately.

COOPERATION.—USGS National Streamflow Information Program (NSIP).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—March 1930 to current year. Monthly discharge only for March 1930, published in WSP 1304.

REVISED RECORDS.—WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 14.79 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to December 6, 1933, and from November 21, 1961, to September 30, 1964, a non-recording gage was located at same site and datum.

REMARKS.—Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1862, 27.2 feet in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 5,800 ft^3/s and maximum (*):

DATE	TIME	DISCHARGE (ft^3/s)	GAGE HEIGHT (ft)
Mar. 10	1245	3,310*	11.25*

02228000 SATILLA RIVER AT ATKINSON, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—March 1930 to current year. Monthly discharge only for March 1930, published in WSP 1304.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 14.79 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to December 6, 1933, and from November 21, 1961, to September 30, 1964, a non-recording gage was located at same site and datum.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 11.25 feet, March 10; minimum gage-height recorded, 2.28 feet, August 11-13, 23-25.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02228000 SATILLA RIVER AT ATKINSON, GA SOURCE AGENCY USGS STATE 13 COUNTY 025
LATITUDE 311316 LONGITUDE 0815203 NAD27 DRAINAGE AREA 2790.00* CONTRIBUTING DRAINAGE AREA DATUM 14.79 NGVD29
Date Processed: 2003-03-10 11:09 By acday
APPROVED
DD #2, DCP

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	72	57	46	184	172	643	166	84	101	78	152
2	333	72	56	50	174	186	581	160	78	92	70	262
3	294	71	55	51	170	336	531	152	75	85	66	366
4	259	70	54	50	160	645	490	144	74	83	64	475
5	230	67	55	50	148	992	454	135	71	78	59	556
6	207	64	55	57	140	1400	422	129	73	73	57	580
7	188	62	54	64	144	1930	394	124	81	68	55	545
8	173	62	55	67	144	2530	370	118	86	73	52	490
9	161	64	58	68	153	3030	348	113	80	112	51	429
10	153	68	54	69	218	3280	329	108	78	155	50	363
11	145	70	52	71	296	3130	314	106	78	121	50	304
12	138	72	55	72	329	2770	302	102	79	96	48	255
13	132	74	59	79	343	2460	305	100	80	91	51	214
14	126	74	61	82	346	2200	340	111	78	115	58	189
15	123	74	60	90	344	2000	352	105	73	133	65	191
16	116	74	57	111	345	1830	361	100	67	147	60	262
17	111	71	57	154	341	1650	373	99	64	147	55	341
18	107	69	56	184	327	1440	356	104	64	132	53	377
19	105	68	54	191	307	1240	331	117	67	116	52	388
20	103	68	53	178	286	1050	305	116	77	103	54	385
21	99	66	51	169	265	938	282	110	114	92	52	370
22	95	62	50	163	244	921	262	104	110	84	50	349
23	92	59	50	163	234	897	244	106	102	85	49	342
24	90	59	51	186	222	890	228	105	102	96	49	355
25	86	58	49	220	209	894	217	99	110	101	52	435
26	81	57	48	226	200	874	203	93	108	104	58	509
27	79	57	47	214	190	855	194	89	102	110	52	561
28	76	59	48	204	179	859	186	85	92	112	54	618
29	75	59	48	204	---	837	177	83	97	107	68	674
30	73	58	47	201	---	777	170	81	110	97	82	719
31	72	---	46	194	---	708	---	80	---	87	99	---
TOTAL	4499	1980	1652	3928	6642	43721	10064	3444	2554	3196	1813	12056
MEAN	145	66.0	53.3	127	237	1410	335	111	85.1	103	58.5	402
MAX	377	74	61	226	346	3280	643	166	114	155	99	719
MIN	72	57	46	46	140	172	170	80	64	68	48	152
CFSM	0.05	0.02	0.02	0.05	0.09	0.51	0.12	0.04	0.03	0.04	0.02	0.14
IN.	0.06	0.03	0.02	0.05	0.09	0.58	0.13	0.05	0.03	0.04	0.02	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

MEAN	1445	880	1680	2845	4200	4632	3513	1263	1157	1358	1874	1930
MAX	12540	11850	13130	14350	14790	14430	17000	5981	8496	4870	7917	11630
(WY)	1948	1948	1948	1987	1991	1959	1948	1979	1973	1963	1971	1949
MIN	25.9	24.9	38.6	63.2	79.6	262	172	66.7	40.2	31.0	43.6	25.4
(WY)	1955	1955	1932	1932	1932	1955	1938	1999	1935	1990	1954	1990

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	273905		95549			
ANNUAL MEAN	750		262		2217	
HIGHEST ANNUAL MEAN					7048	1948
LOWEST ANNUAL MEAN					262	2002
HIGHEST DAILY MEAN	7860	Mar 27	3280	Mar 10	67200	Apr 6 1948
LOWEST DAILY MEAN	46	Dec 31	46	Dec 31	15	Sep 26 1990
ANNUAL SEVEN-DAY MINIMUM	48	Dec 25	47	Dec 26	16	Sep 25 1990
MAXIMUM PEAK FLOW			3310	Mar 10	68100	Apr 6 1948
MAXIMUM PEAK STAGE			11.25	Mar 10	23.90	Apr 6 1948
INSTANTANEOUS LOW FLOW					15	Sep 26 1990
ANNUAL RUNOFF (CFSM)	0.27		0.094		0.79	
ANNUAL RUNOFF (INCHES)	3.65		1.27		10.80	
10 PERCENT EXCEEDS	1350		549		5950	
50 PERCENT EXCEEDS	421		107		816	
90 PERCENT EXCEEDS	59		54		105	

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GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.71	2.88	2.76	2.66	3.81	3.74	5.97	3.30	2.66	2.80	2.60	3.19
2	4.52	2.88	2.75	2.70	3.75	3.81	5.69	3.26	2.60	2.73	2.52	3.89
3	4.34	2.87	2.74	2.72	3.72	4.56	5.46	3.20	2.57	2.67	2.48	4.53
4	4.16	2.86	2.73	2.71	3.66	5.97	5.24	3.14	2.56	2.65	2.46	5.15
5	3.99	2.83	2.74	2.71	3.57	7.26	5.04	3.08	2.53	2.60	2.41	5.58
6	3.86	2.81	2.74	2.79	3.51	8.35	4.85	3.03	2.55	2.55	2.39	5.69
7	3.75	2.79	2.74	2.86	3.54	9.38	4.69	2.99	2.63	2.50	2.36	5.53
8	3.66	2.79	2.75	2.89	3.54	10.34	4.55	2.94	2.67	2.55	2.33	5.24
9	3.58	2.81	2.79	2.90	3.61	10.95	4.42	2.90	2.62	2.89	2.32	4.89
10	3.52	2.85	2.74	2.91	4.00	11.21	4.30	2.87	2.60	3.22	2.31	4.51
11	3.46	2.87	2.72	2.93	4.41	11.05	4.22	2.85	2.60	2.97	2.30	4.16
12	3.41	2.89	2.75	2.94	4.56	10.65	4.14	2.82	2.61	2.77	2.28	3.85
13	3.36	2.91	2.80	3.01	4.63	10.24	4.16	2.80	2.62	2.71	2.32	3.60
14	3.33	2.91	2.82	3.03	4.65	9.85	4.37	2.89	2.60	2.92	2.39	3.44
15	3.30	2.92	2.82	3.11	4.63	9.52	4.44	2.84	2.55	3.06	2.47	3.45
16	3.26	2.92	2.79	3.29	4.64	9.22	4.50	2.80	2.49	3.16	2.42	3.87
17	3.21	2.89	2.78	3.61	4.62	8.88	4.57	2.79	2.46	3.17	2.36	4.30
18	3.18	2.87	2.78	3.81	4.55	8.45	4.47	2.84	2.46	3.05	2.34	4.47
19	3.16	2.86	2.75	3.85	4.46	7.97	4.32	2.94	2.49	2.93	2.33	4.49
20	3.14	2.86	2.74	3.77	4.36	7.46	4.16	2.93	2.59	2.82	2.35	4.43
21	3.11	2.84	2.72	3.71	4.26	7.10	4.02	2.88	2.91	2.73	2.33	4.31
22	3.08	2.81	2.71	3.68	4.15	7.04	3.90	2.83	2.88	2.66	2.30	4.15
23	3.06	2.78	2.71	3.67	4.10	6.96	3.78	2.85	2.81	2.66	2.29	4.08
24	3.04	2.78	2.71	3.82	4.03	6.93	3.68	2.84	2.81	2.77	2.29	4.12
25	3.01	2.77	2.69	4.02	3.96	6.95	3.62	2.79	2.88	2.81	2.32	4.49
26	2.96	2.76	2.68	4.05	3.91	6.88	3.54	2.74	2.87	2.83	2.40	4.82
27	2.94	2.76	2.67	3.99	3.84	6.81	3.48	2.70	2.81	2.88	2.33	5.02
28	2.91	2.78	2.68	3.93	3.78	6.82	3.43	2.67	2.73	2.90	2.35	5.24
29	2.90	2.79	2.68	3.93	---	6.75	3.37	2.65	2.77	2.86	2.50	5.45
30	2.89	2.78	2.67	3.91	---	6.52	3.32	2.63	2.89	2.77	2.64	5.60
31	2.88	---	2.66	3.87	---	6.24	---	2.62	---	2.69	2.79	---
MEAN	3.41	2.84	2.74	3.35	4.08	7.87	4.32	2.88	2.66	2.82	2.40	4.52
MAX	4.71	2.92	2.82	4.05	4.65	11.21	5.97	3.30	2.91	3.22	2.79	5.69
MIN	2.88	2.76	2.66	2.66	3.51	3.74	3.32	2.62	2.46	2.50	2.28	3.19