Water-Data Report 2013

02231000 ST. MARYS RIVER NEAR MACCLENNY, FL

St. Marys-Satilla Basin
St. Marys Subbasin

LOCATION.--Lat 30°21′31″, long 82°04′54″ referenced to North American Datum of 1927, in NW ¼ sec.2, T.2 S., R.22 E., Baker County, FL, Hydrologic Unit 03070204, on right bank 200 ft downstream from site of former Stokes Bridge, 1 mi downstream from confluence of North and South Prongs, 6 mi northeast of Macclenny, and 100 mi upstream from mouth.

DRAINAGE AREA.--700 mi^2, approximately, includes part of watershed in Okefenokee Swamp, which is indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1923 to June 1923 (discharge measurements only), October 1926 to current year.

REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 40.00 ft above NGVD of 1929 (levels by Mees and Mees) and 39.06 ft above NAVD of 1988. Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939 to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft upstream, at same datum.

REMARKS.--Records fair.

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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	413	148	66	74	51	1,150	714	326	205	551	1,070	1,460
2	382	138	65	72	51	952	630	324	192	660	1,070	1,490
3	359	131	64	71	50	790	569	668	185	1,080	980	1,250
4	370	126	64	71	50	660	552	1,650	181	1,570	908	1,050
5	403	120	63	73	49	564	611	2,230	178	2,060	812	896
6	556	117	62	76	49	489	758	2,340	201	2,790	736	821
7	642	114	61	81	49	430	796	2,060	494	3,070	687	784
8	960	111	60	89	49	384	732	1,750	694	2,730	640	662
9	1,460	108	60	90	48	346	643	1,480	583	2,230	589	550
10	1,290	104	60	87	48	314	566	1,250	456	1,780	528	464
11	1,000	101	60	84	48	288	505	1,070	384	1,440	455	397
12	792	97	62	81	47	269	453	905	334	1,270	392	357
13	642	94	66	78	47	255	410	772	290	1,240	344	327
14	545	91	75	75	47	243	379	660	260	1,220	308	296
15	523	90	76	72	47	229	382	563	263	1,240	284	268
16	506	88	73	70	47	214	387	486	276	1,280	279	245
17	456	87	70	68	47	202	367	426	256	1,240	290	225
18	405	85	68	65	46	192	338	382	230	1,120	341	218
19	365	83	68	63	45	184	309	359	210	951	418	321
20	336	81	68	62	46	178	304	723	195	972	493	386
21	310	80	68	60	45	172	388	935	197	1,150	646	310
22	284	77	69	59	44	167	473	862	272	1,280	852	238
23	264	75	70	58	45	173	636	753	450	1,520	966	208
24	247	73	69	57	64	621	652	599	575	1,650	1,470	219
25	231	72	68	56	217	1,380	618	465	599	1,530	2,420	278
26	217	70	69	55	1,070	1,540	543	378	521	1,440	2,100	279
27	203	69	70	55	1,540	1,380	465	322	452	1,300	1,730	257
28	192	68	73	54	1,390	1,210	405	284	419	1,160	1,490	224
29	181	67	73	53	---	1,070	362	257	438	1,080	1,310	196
30	168	67	73	52	---	947	342	236	491	994	1,150	176
31	158	---	74	52	---	822	---	219	---	961	1,110	---
Total	14,860	2,832	2,087	2,113	5,376	17,815	15,289	25,734	10,481	44,559	26,868	14,852
Mean	479	94.4	67.3	68.2	192	575	510	830	349	1,437	867	495
Max	1,460	148	76	90	1,540	1,540	796	2,340	694	3,070	2,420	1,490
Min	158	67	60	52	44	167	304	219	178	551	279	176
Cfsm	0.68	0.13	0.10	0.10	0.27	0.82	0.73	1.19	0.50	2.05	1.24	0.71
In.	0.79	0.15	0.11	0.11	0.29	0.95	0.81	1.37	0.56	2.37	1.43	0.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	754	250	357	568	804	933	710	306	388	595	913	990
Max	6,240	4,155	2,470	2,404	5,940	5,119	6,564	3,303	4,766	2,731	4,488	6,569
(WY)	(1948)	(1948)	(1948)	(1942)	(1998)	(2003)	(1973)	(1964)	(2012)	(2012)	(2008)	(2004)
Min	17.2	15.9	18.0	21.7	20.2	43.3	25.7	12.9	16.8	31.3	24.9	21.4
(WY)	(2007)	(1932)	(1932)	(1932)	(1934)	(2012)	(1935)	(2007)	(2011)	(1954)	(1954)	(1990)

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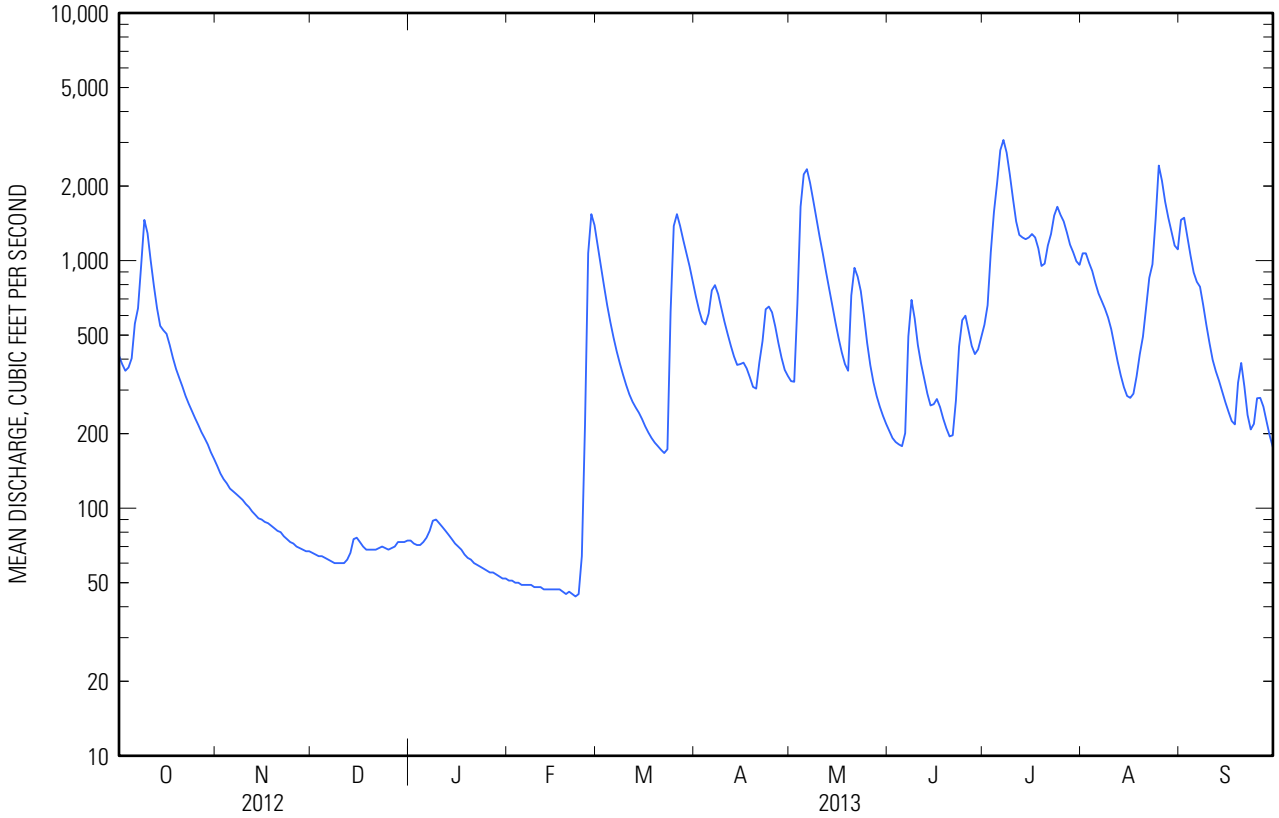
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1927 - 2013	
Annual total	313,241		182,866			
Annual mean	856		501		630	
Highest annual mean					2,285	1948
Lowest annual mean					77.7	2011
Highest daily mean	33,300	Jun 28	3,070	Jul 7	33,300	Jun 28, 2012
Lowest daily mean	14	May 25-27	44	Feb 22	9.6	Jun 17, 2002
Annual seven-day minimum	15	May 21	45	Feb 17	10	May 26, 2007
Maximum peak flow			3,140	Jul 7	34,800	Jun 28, 2012
Maximum peak stage			13.15	Jul 7	24.38	Jun 28, 2012
Annual runoff (cfsm)	1.22		0.716		0.900	
Annual runoff (inches)	16.65		9.72		12.23	
10 percent exceeds	1,250		1,270		1,550	
50 percent exceeds	74		314		204	
90 percent exceeds	28		60		36	



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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	5.78	3.63	2.54	2.70	2.29	9.26	7.29	4.84	3.35	6.15	8.96	10.28
2	5.58	3.53	2.53	2.67	2.28	8.44	6.84	4.81	3.22	6.80	8.96	10.38
3	5.43	3.45	2.51	2.65	2.28	7.67	6.49	6.88	3.13	8.91	8.55	9.63
4	5.50	3.38	2.51	2.65	2.26	7.00	6.39	10.73	3.09	10.54	8.22	8.87
5	5.73	3.32	2.49	2.69	2.25	6.46	6.73	11.90	3.06	11.61	7.77	8.22
6	6.65	3.27	2.48	2.73	2.25	6.00	7.52	12.08	3.30	12.71	7.39	7.88
7	7.12	3.23	2.47	2.82	2.25	5.61	7.71	11.63	5.71	13.08	7.14	7.70
8	8.55	3.20	2.46	2.94	2.24	5.28	7.38	11.00	7.01	12.62	6.89	7.09
9	10.28	3.16	2.45	2.96	2.23	5.00	6.91	10.32	6.35	11.90	6.61	6.47
10	9.79	3.11	2.45	2.91	2.23	4.74	6.47	9.61	5.51	11.07	6.25	5.94
11	8.75	3.07	2.46	2.86	2.22	4.52	6.10	8.86	4.98	10.21	5.80	5.51
12	7.85	3.02	2.49	2.82	2.21	4.36	5.76	8.11	4.57	9.70	5.36	5.22
13	7.12	2.97	2.57	2.77	2.20	4.24	5.47	7.43	4.20	9.58	5.02	5.01
14	6.60	2.93	2.71	2.72	2.21	4.13	5.25	6.81	3.92	9.51	4.74	4.76
15	6.48	2.91	2.73	2.67	2.21	3.99	5.27	6.23	3.95	9.60	4.54	4.54
16	6.38	2.89	2.68	2.63	2.22	3.85	5.30	5.72	4.07	9.72	4.50	4.34
17	6.09	2.86	2.64	2.61	2.20	3.73	5.16	5.30	3.88	9.60	4.60	4.17
18	5.77	2.84	2.61	2.56	2.18	3.63	4.94	4.96	3.62	9.11	5.00	4.10
19	5.50	2.81	2.60	2.52	2.17	3.54	4.70	4.78	3.41	8.37	5.56	4.97
20	5.29	2.79	2.60	2.50	2.18	3.47	4.66	7.11	3.25	8.47	6.06	5.47
21	5.10	2.76	2.61	2.47	2.16	3.41	5.31	8.26	3.26	9.25	6.95	4.92
22	4.90	2.73	2.63	2.44	2.15	3.35	5.89	7.90	4.04	9.73	8.00	4.32
23	4.73	2.69	2.64	2.42	2.17	3.41	6.87	7.33	5.42	10.45	8.51	4.04
24	4.59	2.67	2.62	2.40	2.43	6.58	6.96	6.45	6.30	10.76	10.24	4.16
25	4.46	2.64	2.60	2.39	3.94	10.04	6.77	5.57	6.45	10.48	12.18	4.68
26	4.33	2.62	2.61	2.37	8.90	10.49	6.33	4.93	5.95	10.23	11.70	4.70
27	4.21	2.60	2.64	2.36	10.49	10.06	5.84	4.48	5.49	9.81	10.94	4.52
28	4.10	2.59	2.69	2.35	10.09	9.48	5.43	4.14	5.24	9.31	10.37	4.23
29	3.99	2.57	2.69	2.33	---	8.96	5.12	3.89	5.39	8.97	9.84	3.97
30	3.86	2.56	2.69	2.32	---	8.41	4.97	3.69	5.75	8.60	9.27	3.77
31	3.75	---	2.71	2.31	---	7.84	---	3.51	---	8.45	9.14	---
Mean	5.94	2.96	2.58	2.60	3.10	6.03	6.06	7.07	4.56	9.85	7.58	5.80
Max	10.28	3.63	2.73	2.96	10.49	10.49	7.71	12.08	7.01	13.08	12.18	10.38
Min	3.75	2.56	2.45	2.31	2.15	3.35	4.66	3.51	3.06	6.15	4.50	3.77