02236000 ST. JOHNS RIVER NEAR DE LAND, FL

St. Johns Basin
Upper St. Johns Subbasin

LOCATION.--Lat 29°00′29″, long 81°22′58″ referenced to North American Datum of 1927, in land grant 38, T.17 S., R.29 E., Lake County, FL, Hydrologic Unit 03080101, attached to fender pilings near center of channel under Francis P. Whitehair Bridge on State Highway 44 , 5 mi west of De Land, and 142 mi upstream from mouth.

DRAINAGE AREA.--3,066 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only prior to February 1934, published in WSP 1304.

REVISED RECORDS.--WDR FL-75-1: Drainage area, WDR FL-96-1A: 1995.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 0.09 ft below NGVD of 1929. Prior to May 28, 1936, nonrecording gage at site of former Crows Bluff Bridge about 1,000 ft downstream and May 28, 1936 to July 21, 1970, water-stage recorder at site 0.4 mi downstream at datum 1.11 ft lower. July 22, 1970 to Sept. 30, 1993, water-stage recorder at present site and datum. Oct. 1, 1993 to April 4, 2000, water-stage recorder near right bank 100 ft upstream. Oct. 1, 1959 to Sept. 30, 1975, Oct. 1, 1984 to Mar. 21, 1986, June 16 to Sept. 23, 1991, and Oct. 1, 1992 to Sept. 30, 1993, water-stage recorder for St. Johns River near Sanford (station 02234500) used as auxiliary gage for this station.

REMARKS.--Records fair.

02236000 ST. JOHNS RIVER NEAR DE LAND, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,980	2,080	2,020	1,930	2,150	1,110	710	815	1,400	1,420	1,730	1,480
2	2,890	1,970	1,900	1,590	1,030	564	505	807	1,470	1,420	1,630	1,470
3	2,750	503	1,920	1,730	-77	26	470	815	855	1,080	1,740	1,280
4	2,470	583	976	2,080	-4.2	481	259	794	1,760	596	1,740	1,150
5	2,220	487	782	2,120	1,160	432	-213	755	1,880	573	1,850	1,340
6	2,250	723	1,390	2,180	1,600	1,330	-841	217	1,950	767	1,960	1,430
7	2,130	930	1,070	2,390	2,100	1,280	-963	-184	1,940	1,270	2,010	1,410
8	2,020	902	-975	2,260	2,290	1,010	-415	-400	1,760	1,540	2,070	1,320
9	1,850	1,800	-18	1,800	2,400	515	223	-397	1,390	1,710	2,120	1,460
10	1,900	2,330	1,030	1,760	1,810	-700	431	-403	1,390	1,950	2,150	1,610
11	1,970	2,470	1,560	1,930	1,400	-387	455	-406	1,030	2,800	2,210	1,630
12	2,240	2,150	1,720	1,870	1,670	789	425	55	765	1,870	2,160	1,790
13	2,460	2,330	1,810	1,760	1,830	1,010	456	423	840	1,720	2,150	1,910
14	2,280	2,320	1,880	1,800	1,530	1,430	832	856	972	1,580	2,000	1,970
15	2,490	2,550	1,950	1,740	1,390	1,540	534	710	972	1,560	1,940	1,930
16	2,540	2,310	1,710	1,690	837	559	64	854	942	1,600	1,880	1,880
17	2,620	2,090	1,640	526	1,210	-371	783	1,180	1,220	1,530	1,880	1,350
18	2,700	2,020	1,500	-198	365	-64	739	1,130	1,570	1,590	1,950	710
19	2,700	1,920	1,470	257	1,300	209	304	969	1,660	1,680	2,020	458
20	2,700	1,240	1,560	215	1,690	229	-96	1,150	1,790	1,700	1,970	694
21	2,550	-383	1,400	1,140	1,690	373	-286	1,410	1,660	1,680	1,940	1,350
22	2,380	88	1,450	998	1,440	323	-116	1,480	1,300	1,560	1,920	1,720
23	1,510	904	967	652	1,160	436	32	1,450	1,390	1,160	1,830	1,990
24	1,210	738	1,340	946	1,100	583	699	1,260	1,560	1,100	1,660	2,160
25	2,080	426	1,810	152	1,150	433	1,240	1,060	1,620	1,270	1,610	2,430
26	2,190	72	1,220	608	690	490	1,110	1,150	1,650	1,500	1,570	2,650
27	2,470	394	1,560	1,530	754	423	1,010	1,340	1,540	1,600	1,650	2,530
28	2,150	857	2,130	1,310	486	373	741	1,430	1,520	1,600	1,630	2,630
29	2,170	1,380	2,100	943	---	414	697	1,480	1,500	1,710	1,510	2,570
30	2,320	1,870	1,970	1,930	---	-228	849	1,480	1,540	1,780	1,450	2,310
31	2,310	---	2,050	1,930	---	126	---	1,460	---	1,710	1,450	---
Total	71,500	40,054	44,892	43,569	36,150.8	14,738	10,638	24,740	42,836	46,626	57,380	50,612
Mean	2,306	1,335	1,448	1,405	1,291	475	355	798	1,428	1,504	1,851	1,687
Max	2,980	2,550	2,130	2,390	2,400	1,540	1,240	1,480	1,950	2,800	2,210	2,650
Min	1,210	-383	-975	-198	-77	-700	-963	-406	765	573	1,450	458
Cfsm	0.75	0.44	0.47	0.46	0.42	0.16	0.12	0.26	0.47	0.49	0.60	0.55
In.	0.87	0.49	0.54	0.53	0.44	0.18	0.13	0.30	0.52	0.57	0.70	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2007, BY WATER YEAR (WY)

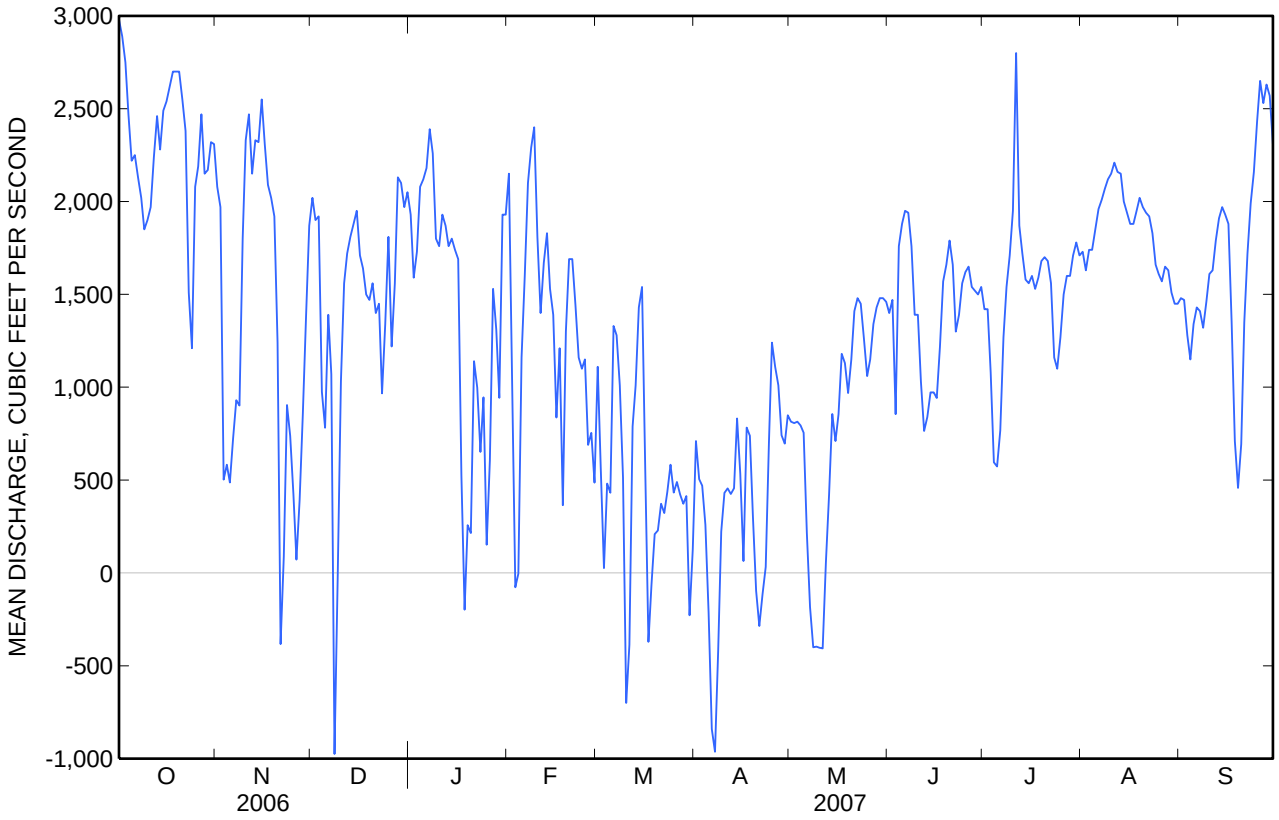
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,980	4,423	3,326	2,799	2,481	2,505	2,332	1,489	1,753	2,944	3,478	4,092
Max	15,800	10,680	8,528	8,509	7,106	9,912	9,811	5,170	7,004	11,750	10,280	12,060
(WY)	(1954)	(1954)	(1995)	(1998)	(1998)	(1998)	(1960)	(1983)	(1934)	(1968)	(1960)	(1960)
Min	446	251	234	763	591	256	284	-119	229	316	234	405
(WY)	(1982)	(1981)	(1981)	(1939)	(1982)	(2000)	(1999)	(2002)	(1962)	(2000)	(2000)	(1958)

02236000 ST. JOHNS RIVER NEAR DE LAND, FL—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1934 - 2007	
Annual total	584,386.0		483,735.8			
Annual mean	1,601		1,325		3,053	
Highest annual mean					6,433	1960
Lowest annual mean					743	1981
Highest daily mean	5,940	Jan 1	2,980	Oct 1	17,100	Oct 15, 1953
Lowest daily mean	-1,340	May 1	-975	Dec 8	-3,260	Sep 10, 2000
Annual seven-day minimum	-530	Aug 11	-217	Apr 4	-2,130	Sep 7, 2000
Maximum peak stage			2.25	Sep 20,21,23	6.06	Oct 11, 1953
Annual runoff (cfsm)	0.522		0.432		0.996	
Annual runoff (inches)	7.09		5.87		13.53	
10 percent exceeds	3,060		2,230		6,280	
50 percent exceeds	1,510		1,460		2,420	
90 percent exceeds	84		246		802	

Note.--Negative figures indicate reverse flow



02236000 ST. JOHNS RIVER NEAR DE LAND, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.25	0.94	1.09	1.01	0.54	0.38	0.37	0.31	0.78	0.64	1.05	1.07
2	1.25	0.97	0.99	1.05	0.81	0.41	0.34	0.28	0.91	0.66	1.19	1.13
3	1.27	1.12	0.93	1.07	0.98	0.47	0.32	0.25	0.96	0.75	1.22	1.21
4	1.33	1.27	0.96	1.11	1.08	0.46	0.29	0.24	0.79	0.99	1.23	1.29
5	1.39	1.38	1.00	1.07	1.05	0.46	0.32	0.27	0.59	1.15	1.21	1.35
6	1.44	1.45	0.96	1.00	0.96	0.37	0.41	0.39	0.47	1.19	1.16	1.37
7	1.48	1.49	0.95	0.90	0.83	0.35	0.57	0.71	0.40	1.18	1.12	1.39
8	1.61	1.53	1.09	0.79	0.66	0.38	0.64	0.99	0.40	1.13	1.06	1.41
9	1.66	1.45	1.18	0.75	0.54	0.41	0.58	1.19	0.47	1.05	1.02	1.45
10	1.69	1.33	1.15	0.69	0.54	0.56	0.54	1.32	0.50	0.98	0.95	1.44
11	1.70	1.23	1.06	0.64	0.61	0.63	0.56	1.46	0.59	0.88	0.86	1.41
12	1.67	1.19	0.95	0.63	0.59	0.60	0.56	1.47	0.73	0.77	0.80	1.37
13	1.62	1.12	0.87	0.63	0.55	0.53	0.56	1.42	0.91	0.67	0.83	1.28
14	1.57	1.02	0.81	0.60	0.49	0.42	0.46	1.41	1.07	0.71	0.89	1.22
15	1.51	0.93	0.82	0.56	0.48	0.33	0.37	1.47	1.18	0.72	0.93	1.20
16	1.47	0.88	0.83	0.50	0.50	0.35	0.44	1.44	1.23	0.71	0.94	1.19
17	1.41	0.84	0.83	0.57	0.52	0.54	0.31	1.35	1.24	0.70	0.92	1.30
18	1.35	0.76	0.82	0.77	0.54	0.60	0.29	1.30	1.17	0.67	0.84	1.55
19	1.28	0.73	0.81	0.85	0.53	0.61	0.40	1.31	1.08	0.58	0.74	1.88
20	1.23	0.79	0.79	0.89	0.44	0.63	0.61	1.28	1.00	0.47	0.68	2.16
21	1.21	0.91	0.81	0.88	0.38	0.61	0.86	1.22	0.92	0.46	0.64	2.23
22	1.20	1.03	0.82	0.87	0.33	0.56	0.97	1.13	1.00	0.65	0.61	2.20
23	1.27	1.06	0.96	0.90	0.33	0.55	0.94	1.06	1.01	0.84	0.60	2.19
24	1.33	1.08	0.97	0.88	0.34	0.51	0.83	1.06	0.92	0.94	0.67	2.17
25	1.23	1.12	0.98	0.94	0.33	0.45	0.67	1.10	0.87	0.97	0.77	2.14
26	1.20	1.22	1.06	0.98	0.33	0.36	0.52	1.10	0.84	0.98	0.83	2.14
27	1.13	1.28	1.05	0.93	0.34	0.32	0.40	1.03	0.81	0.96	0.84	2.16
28	1.13	1.29	0.95	0.86	0.37	0.27	0.34	0.96	0.78	0.93	0.84	2.16
29	1.09	1.26	0.96	0.86	---	0.22	0.33	0.90	0.73	0.92	0.87	2.17
30	1.00	1.19	1.00	0.71	---	0.30	0.33	0.85	0.67	0.88	0.92	2.21
31	0.95	---	1.03	0.62	---	0.39	---	0.80	---	0.91	0.98	---
Mean	1.35	1.13	0.95	0.82	0.57	0.45	0.50	1.00	0.83	0.84	0.91	1.65
Max	1.70	1.53	1.18	1.11	1.08	0.63	0.97	1.47	1.24	1.19	1.23	2.23
Min	0.95	0.73	0.79	0.50	0.33	0.22	0.29	0.24	0.40	0.46	0.60	1.07

	Water Year 2007
Mean	0.92
Max	2.23
Min	0.22