

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL

LOCATION.--Lat 26°43'25", long 81°41'55", in SW ¼ sec.23, T.43 S., R.26 E., Lee County, Hydrologic Unit 03090205, in control house at southeast end of lock at salinity-control structure 79, 1 mi upstream from Telegraph Creek, and 1.2 mi northeast of Olga.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1964 to March 1966 (gage heights only), April 1966 to current year.

REVISED RECORDS.--WDR FL-79-2A, 1978.

GAGE.--U.S. Army Corps of Engineers owned and operated satellite data collection platform with water-stage shaft encoders. Prior to October 16, 1998, similar equipment belonging to the U.S. Geological Survey was used. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Flow regulated by operation of salinity-control structure 79. Downstream stage is basically tidal, but at times is affected by gate operation. Starting in the 2002 water year the downstream stage record published is the maximum and minimum gage height for each calendar day. Prior to the 2002 water year daily mean for downstream stage was published. Discharge computed from relations between discharge, head, and gate opening. Satellite data collection platform with shaft encoders were installed August 30, 1991 to collect upstream and downstream stages. U.S. Army Corps of Engineers equipment installed on October 16, 1998.

COOPERATION.--Records of stage, gate and lock operation provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete years of discharge (1967-94, 1996-97, 2003-04).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 6.04 ft Sept. 14, 2001; minimum, 1.18 ft Sept. 22, 1966.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 4.63 ft Sept. 6; minimum, 2.28 ft Sept. 26.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Not available.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 5.41 ft Aug. 13; minimum, -1.04 ft Nov. 29.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.79	2.99	3.18	---	2.98	3.27	3.11	3.11	3.17	3.30	3.21	3.04
2	2.94	3.01	3.17	---	2.88	3.16	3.10	3.21	3.26	3.27	2.98	2.92
3	2.92	3.06	2.98	3.04	3.01	3.22	3.31	3.18	3.31	3.25	3.01	2.71
4	2.91	3.05	2.96	3.16	3.08	3.15	3.22	3.28	3.39	---	3.11	2.55
5	2.77	3.07	3.33	3.10	3.03	3.20	2.99	3.09	3.10	---	3.25	2.96
6	2.84	3.06	---	2.99	3.00	3.09	3.10	3.12	3.33	---	3.24	3.94
7	2.96	3.01	3.27	3.03	3.13	3.16	3.20	3.02	3.16	3.17	3.20	2.79
8	3.12	3.03	3.08	3.07	2.97	3.18	3.19	2.97	3.31	3.03	3.16	2.85
9	2.91	3.10	3.17	3.19	3.09	2.72	3.30	3.20	3.08	3.18	3.18	2.80
10	3.00	3.01	3.29	2.97	3.29	2.97	3.26	3.06	3.22	3.23	3.28	2.57
11	3.00	2.92	3.32	2.99	2.97	2.97	3.20	2.91	3.20	3.31	3.07	2.58
12	2.97	2.97	3.03	3.10	2.93	3.05	3.29	3.06	3.23	3.26	3.00	2.61
13	2.91	3.11	3.08	3.25	3.24	3.16	3.37	3.22	3.25	3.23	2.91	2.69
14	2.98	3.20	3.30	3.05	3.12	3.15	3.16	3.20	3.17	3.17	---	2.61
15	3.03	3.27	3.11	3.29	3.22	3.26	2.92	3.23	3.06	3.28	3.23	2.84
16	2.70	3.31	3.12	3.28	3.17	3.31	3.04	3.04	3.09	3.25	3.12	2.81
17	3.05	3.19	3.18	3.14	3.10	3.16	3.08	3.01	3.10	3.16	3.26	2.72
18	3.13	3.13	3.07	3.22	3.23	3.06	3.12	2.99	3.07	3.15	3.11	3.04
19	3.01	3.03	3.09	3.25	3.08	3.12	3.05	3.14	3.02	---	3.15	3.09
20	2.79	3.06	3.05	3.18	2.99	3.02	2.98	3.18	3.05	---	3.06	3.05
21	2.91	3.11	3.15	3.12	3.29	3.02	3.18	3.17	3.03	3.05	3.03	2.98
22	3.02	3.19	3.17	3.11	3.17	3.10	3.15	3.19	2.96	3.29	3.18	3.00
23	3.04	2.98	3.17	2.93	3.20	3.04	2.94	3.25	2.97	3.18	3.30	2.91
24	3.20	3.11	3.15	3.03	3.20	2.96	2.91	3.10	3.18	3.24	3.12	2.59
25	3.07	3.21	3.11	3.20	3.28	3.11	2.99	2.97	3.03	3.21	3.26	2.66
26	3.07	3.19	3.11	3.09	3.23	3.10	3.05	3.07	3.15	3.29	3.11	3.33
27	3.14	3.17	3.04	2.99	3.03	2.97	2.95	3.12	3.26	3.24	3.18	3.04
28	3.06	3.20	3.14	3.06	3.05	3.24	3.07	3.13	3.05	3.26	3.15	2.78
29	3.00	3.22	3.14	2.93	3.30	3.20	3.06	3.09	---	3.17	3.00	2.84
30	2.91	3.20	3.13	3.06	---	2.84	3.01	3.06	---	3.05	2.96	3.03
31	2.82	---	3.09	2.87	---	3.01	---	3.03	---	3.12	2.92	---
TOTAL	91.97	93.16	---	---	90.26	95.97	93.30	96.40	---	---	---	86.33
MEAN	2.97	3.11	---	---	3.11	3.10	3.11	3.11	---	---	---	2.88
MAX	3.20	3.31	---	---	3.30	3.31	3.37	3.28	---	---	---	3.94
MIN	2.70	2.92	---	---	2.88	2.72	2.91	2.91	---	---	---	2.55

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,310	1,340	0.00	e1,710	2,050	1,020	254	815	0.00	260	877	4,510
2	9,800	3,870	0.00	e929	1,460	424	381	158	0.00	409	1,700	4,230
3	8,680	6,400	894	751	639	861	486	39	0.00	78	1,510	3,820
4	7,980	6,960	1,080	725	506	1,130	1,120	597	691	339	1,960	3,350
5	7,450	5,430	e1,220	801	879	2,430	1,740	499	827	e260	2,580	2,910
6	6,650	4,320	e232	26	863	2,480	1,350	103	463	e319	3,310	9,120
7	6,140	3,540	215	0.00	3,340	2,710	1,090	0.00	817	534	3,040	7,850
8	6,250	2,270	0.00	0.00	3,570	1,310	756	0.00	1,220	332	2,960	7,820
9	5,720	1,160	88	802	2,910	278	662	0.00	2,400	454	2,220	8,600
10	4,740	1,010	248	3,090	2,560	162	482	0.00	1,380	0.00	2,010	6,510
11	3,770	810	732	2,820	1,510	107	302	0.00	1,610	278	2,190	5,560
12	4,890	0.00	545	3,060	898	69	1,160	664	2,350	710	3,450	4,900
13	7,280	0.00	96	2,150	1,480	530	1,150	1,340	1,980	612	2,150	3,540
14	5,870	0.00	953	2,560	1,330	1,440	1,750	803	1,840	205	e5,870	4,030
15	5,880	0.00	2,270	2,170	1,260	1,800	470	150	1,410	42	5,630	3,440
16	3,930	164	3,690	1,100	1,250	1,940	187	0.00	743	260	5,430	6,760
17	2,300	62	6,320	509	94	1,880	658	0.00	452	176	6,430	7,840
18	1,940	0.00	5,380	1,010	298	740	908	0.00	253	84	5,300	7,590
19	1,580	0.00	3,810	1,530	2,280	418	691	0.00	180	e716	5,990	6,800
20	799	0.00	1,860	1,630	2,310	322	498	0.00	120	e2,040	5,110	5,920
21	257	0.00	1,810	1,470	2,730	271	388	0.00	97	1,680	4,350	5,820
22	1,830	1,300	2,160	3,170	3,060	277	314	0.00	0.00	1,390	3,110	4,440
23	4,220	1,740	1,290	3,670	2,210	97	274	0.00	0.00	845	4,850	3,550
24	6,410	548	1,230	3,350	1,360	0.00	180	0.00	134	623	5,890	2,630
25	6,460	140	323	2,690	3,160	118	134	0.00	260	106	6,510	2,210
26	5,270	0.00	1,750	2,320	4,610	1,590	46	0.00	98	1,020	5,420	2,720
27	4,200	0.00	2,970	1,530	3,700	1,150	0.00	699	744	299	5,080	7,100
28	2,230	0.00	3,840	1,550	2,160	825	0.00	1,420	389	903	5,820	5,430
29	1,650	0.00	2,830	813	679	1,260	619	822	e65	1,490	5,740	6,610
30	1,040	0.00	2,520	1,370	---	334	1,220	153	e471	907	4,830	9,920
31	920	---	2,190	1,870	---	0.00	---	0.00	---	670	3,910	---
TOTAL	145,446	41,064.00	52,546.00	51,176.00	55,156	27,973.00	19,270.00	8,262.00	20,994.00	18,041.00	125,227	165,530
MEAN	4,692	1,369	1,695	1,651	1,902	902	642	267	700	582	4,040	5,518
MAX	9,800	6,960	6,320	3,670	4,610	2,710	1,750	1,420	2,400	2,040	6,510	9,920
MIN	257	0.00	0.00	0.00	94	0.00	0.00	0.00	0.00	0.00	877	2,210
AC-FT	288,500	81,450	104,200	101,500	109,400	55,480	38,220	16,390	41,640	35,780	248,400	328,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	2,108	1,082	743	1,239	1,395	1,633	1,215	766	2,035	2,473	2,913	2,703
MAX	10,390	6,869	5,519	7,486	10,080	10,320	8,198	2,914	6,053	7,376	10,750	9,357
(WY)	(1996)	(1970)	(1995)	(1970)	(1983)	(1983)	(1983)	(2000)	(1982)	(1974)	(1974)	(1995)
MIN	84.7	23.9	0.00	2.91	0.00	5.68	10.0	10.0	192	80.7	228	370
(WY)	(1973)	(1997)	(2001)	(1982)	(2001)	(1990)	(1967)	(1967)	(1979)	(1981)	(1972)	(1972)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1966 - 2004

ANNUAL TOTAL	1,305,671.00		730,685.00			
ANNUAL MEAN	3,577		1,996		1,638	
HIGHEST ANNUAL MEAN					5,203	
LOWEST ANNUAL MEAN					296	
HIGHEST DAILY MEAN	15,200	Jun 22	9,920	Sep 30	21,400	Mar 27, 1970
LOWEST DAILY MEAN	0.00	Feb 21	0.00	Nov 12	0.00	May 17, 1981
ANNUAL SEVEN-DAY MINIMUM	0.00	Nov 26	0.00	Nov 26	0.00	May 20, 1981
ANNUAL RUNOFF (AC-FT)	2,590,000		1,449,000		1,187,000	
10 PERCENT EXCEEDS	9,290		5,760		5,280	
50 PERCENT EXCEEDS	2,270		1,160		504	
90 PERCENT EXCEEDS	178		0.00		9.8	

e Estimated

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.