

## CALOOSAHATCHEE RIVER

02293241 SAN CARLOS CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°36'11", long 81°57'48", in NW ¼ SW ¼ NE ¼ sec.36, T.44 S., R.23 E., Lee County, Hydrologic Unit 03090205, near right bank on upstream side of wingwall of bridge on SE 26th Terrace, 300 ft west of Retunda Parkway and 2.4 mi upstream of Caloosahatchee River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1986 to current year.

REVISED RECORDS.--WDR FL-01-2A, 2000.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department bench mark).

REMARKS.--No estimated daily discharges. Records poor. Station is subject to disruption of the stage discharge relationship based on heavy debris buildup on the carp grates, which are installed on top of the weir. Removal of carp grates and stop logs during highflow events also alters the stage discharge relationship. There are many days of no flow during the water year.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 17 complete water years of discharge (1988-2004).

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	4.42	3.46	3.84	4.85	5.09	5.05	4.49	5.25	4.40	5.14	5.53	5.28
2	4.35	3.43	3.85	4.87	5.08	5.03	4.48	5.17	4.34	5.16	5.76	5.23
3	4.33	3.42	3.87	4.86	5.06	5.01	4.48	5.13	4.27	5.15	5.77	5.20
4	4.30	3.44	3.88	4.80	5.03	4.99	4.46	5.12	4.25	5.17	5.75	5.19
5	4.28	3.46	3.90	4.75	5.01	5.01	4.43	5.08	4.18	5.19	5.60	5.25
6	4.25	3.50	3.94	4.70	5.03	5.00	4.40	5.06	4.02	5.19	5.63	5.43
7	4.22	3.56	3.95	4.65	5.03	4.99	4.40	5.06	4.13	5.17	5.47	5.42
8	4.19	3.59	3.95	4.59	4.99	4.97	4.39	5.05	4.95	5.14	5.34	5.34
9	4.17	3.56	3.96	4.60	4.95	4.93	4.38	5.03	5.37	5.13	5.28	5.27
10	4.19	3.52	4.00	4.61	4.92	4.89	4.40	5.01	5.29	5.12	5.32	5.24
11	4.19	3.49	4.06	4.57	4.89	4.83	4.41	5.01	5.23	5.11	5.36	5.20
12	4.20	3.45	4.09	4.53	4.85	4.85	4.57	5.00	5.19	5.14	5.27	5.17
13	4.21	3.41	4.13	4.49	4.88	4.82	4.71	4.98	5.22	5.13	5.74	5.15
14	4.21	3.42	4.43	4.47	4.87	4.77	4.76	4.97	5.63	5.11	5.91	5.13
15	4.21	3.45	4.69	4.45	4.94	4.73	4.78	4.97	5.61	5.08	5.47	5.12
16	4.16	3.47	4.79	4.48	4.95	4.71	4.81	4.96	5.58	5.08	5.38	5.11
17	4.16	3.50	5.08	4.45	4.93	4.74	4.84	4.97	5.40	5.10	5.39	5.11
18	4.16	3.52	5.11	4.67	4.90	4.70	4.86	4.96	5.35	5.10	5.38	5.11
19	4.08	3.57	5.13	4.98	4.86	4.70	4.87	4.94	5.30	5.11	5.36	5.10
20	4.00	3.62	5.12	5.01	4.88	4.68	4.87	4.94	5.24	5.18	5.29	5.09
21	3.93	3.66	5.11	5.01	4.87	4.61	4.86	4.92	5.22	5.21	5.25	5.10
22	3.85	3.69	5.10	5.01	4.83	4.52	4.87	4.91	5.17	5.19	5.41	5.09
23	3.79	3.71	5.09	5.04	4.80	4.50	4.87	4.87	5.13	5.25	5.61	5.07
24	3.77	3.73	5.08	5.03	4.76	4.51	4.87	4.84	5.17	5.22	5.47	5.07
25	3.73	3.75	5.05	5.01	4.94	4.53	4.85	4.81	5.18	5.26	5.51	5.05
26	3.66	3.77	5.07	4.99	5.19	4.54	4.84	4.78	5.17	5.34	5.45	5.07
27	3.57	3.78	5.05	4.98	5.19	4.54	4.84	4.74	5.15	5.31	5.35	5.12
28	3.50	3.83	4.99	4.97	5.12	4.53	4.82	4.69	5.16	5.32	5.27	5.12
29	3.50	3.85	4.95	4.93	5.08	4.52	4.82	4.63	5.16	5.42	5.22	5.10
30	3.47	3.85	4.92	4.98	---	4.51	4.99	4.56	5.17	5.43	5.17	5.07
31	3.46	---	4.88	5.05	---	4.49	---	4.48	---	5.39	5.17	---
TOTAL	124.51	107.46	141.06	148.38	143.92	147.20	140.42	152.89	150.63	161.04	168.88	155.00
MEAN	4.02	3.58	4.55	4.79	4.96	4.75	4.68	4.93	5.02	5.19	5.45	5.17
MAX	4.42	3.85	5.13	5.05	5.19	5.05	4.99	5.25	5.63	5.43	5.91	5.43
MIN	3.46	3.41	3.84	4.45	4.76	4.49	4.38	4.48	4.02	5.08	5.17	5.05

## 02293241 SAN CARLOS CANAL AT CAPE CORAL, 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	22	0.00	0.00	0.00	5.5	2.8	0.00	15	0.00	8.0	36	9.6
2	17	0.00	0.00	0.00	4.6	1.7	0.00	9.9	0.00	9.0	53	6.9
3	15	0.00	0.00	0.00	3.3	0.79	0.00	8.1	0.00	8.3	53	9.8
4	12	0.00	0.00	0.00	1.6	0.19	0.00	7.2	0.00	9.3	49	17
5	9.6	0.00	0.00	0.00	0.55	0.64	0.00	5.1	0.00	11	36	21
6	7.8	0.00	0.00	0.00	1.7	0.33	0.00	3.5	0.00	11	39	34
7	5.0	0.00	0.00	0.00	1.3	0.07	0.00	3.3	0.00	9.8	26	30
8	2.5	0.00	0.00	0.00	0.21	0.02	0.00	2.4	8.6	7.9	17	22
9	1.3	0.00	0.00	0.00	0.01	0.00	0.00	1.1	22	7.5	13	17
10	2.9	0.00	0.00	0.00	0.00	0.00	0.00	0.54	17	7.1	21	15
11	2.9	0.00	0.00	0.00	0.00	0.00	0.00	0.48	13	5.9	29	12
12	3.3	0.00	0.00	0.00	0.00	0.00	0.00	0.19	11	7.9	22	10
13	4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.02	14	7.5	67	9.3
14	4.2	0.00	0.00	0.00	0.00	0.00	0.00	0.01	43	6.3	80	8.6
15	3.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42	4.2	36	7.9
16	0.95	0.00	0.04	0.00	0.00	0.00	0.00	0.01	39	4.4	24	7.3
17	0.82	0.00	5.2	0.00	0.00	0.00	0.00	0.01	25	5.3	23	7.6
18	0.66	0.00	7.5	0.00	0.00	0.00	0.00	0.00	21	5.6	22	7.2
19	0.01	0.00	8.4	0.15	0.00	0.00	0.00	0.00	17	6.2	20	6.9
20	0.00	0.00	8.0	0.68	0.00	0.00	0.00	0.00	14	10	14	6.1
21	0.00	0.00	7.3	0.64	0.00	0.00	0.00	0.00	12	12	11	6.6
22	0.00	0.00	7.0	0.51	0.00	0.00	0.00	0.00	9.5	11	22	6.0
23	0.00	0.00	6.5	2.4	0.00	0.00	0.00	0.00	7.5	14	34	4.9
24	0.00	0.00	5.2	1.5	0.00	0.00	0.00	0.00	9.5	12	23	4.8
25	0.00	0.00	3.5	0.51	3.2	0.00	0.00	0.00	10	15	25	3.6
26	0.00	0.00	4.9	0.17	11	0.00	0.00	0.00	9.4	20	20	4.6
27	0.00	0.00	3.2	0.07	11	0.00	0.00	0.00	8.5	18	14	8.0
28	0.00	0.00	0.47	0.05	7.4	0.00	0.00	0.00	8.8	19	9.1	8.0
29	0.00	0.00	0.01	0.00	4.8	0.00	0.00	0.00	8.9	26	6.0	6.6
30	0.00	0.00	0.00	0.48	---	0.00	0.84	0.00	9.4	28	2.6	5.0
31	0.00	---	0.00	2.9	---	0.00	---	0.00	---	24	2.4	---
TOTAL	116.04	0.00	67.22	10.06	56.17	6.54	0.84	56.86	380.10	351.2	849.1	323.3
MEAN	3.74	0.00	2.17	0.32	1.94	0.21	0.03	1.83	12.7	11.3	27.4	10.8
MAX	22	0.00	8.4	2.9	11	2.8	0.84	15	43	28	80	34
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	2.4	3.6
AC-FT	230	0.00	133	20	111	13	1.7	113	754	697	1,680	641

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.53	2.61	2.23	2.77	1.58	1.27	0.52	0.55	9.06	11.4	14.7	13.4
MAX	19.8	18.0	14.3	9.77	12.7	5.60	2.03	3.63	34.1	33.8	56.3	39.5
(WY)	(1996)	(2003)	(2003)	(1998)	(1998)	(1998)	(1987)	(1996)	(1995)	(1995)	(2003)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	4.48	2.39
(WY)	(1999)	(2001)	(1991)	(1997)	(1996)	(1995)	(1990)	(1988)	(2001)	(1997)	(1999)	(1987)

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1987 - 2004
ANNUAL TOTAL	3,708.32	2,217.43	
ANNUAL MEAN	10.2	6.06	5.65
HIGHEST ANNUAL MEAN			13.1
LOWEST ANNUAL MEAN			2.39
HIGHEST DAILY MEAN	311	80	330
LOWEST DAILY MEAN	0.00*	0.00*	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00*	0.00*	0.00**
MAXIMUM PEAK FLOW		157	577
MAXIMUM PEAK STAGE		6.57	7.58
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	7,360	4,400	4,090
10 PERCENT EXCEEDS	30	20	15
50 PERCENT EXCEEDS	0.01	0.20	1.3
90 PERCENT EXCEEDS	0.00	0.00	0.00

\* Many days.

\*\* Many days during water years 1987, 1989-2004.

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.