

02283200 PLANTATION ROAD CANAL AT S-33, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°08'05", long 80°11'42", in SW ¼ sec.31, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, 15 ft streamward from left bank, 130 ft upstream from salinity-control structure 33, 0.5 mi east of bridge on U.S. Highway 441, 3 mi above mouth, and 4 mi west of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1955 to February 1962 (gage heights only), March 1962 to current year. Discontinued.

GAGE.--Water-stage recorders upstream and downstream. Gate-opening recorder discontinued on February 24, 2002. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is at times affected by tide and is occasionally reversed. Flow is regulated by operation of salinity-control structure 33. 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 stage. Prior to the 2002, water year daily mean for downstream stage was published. Records of gage heights prior to October 1961 are available in files of the U.S. Geological Survey.

COOPERATION.--Gate-opening records provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 34 complete water years of discharge (1963-86,1988-89, 1993, 1998-2004).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 6.27 ft Oct. 15, 1999; minimum, -0.82 ft Mar. 4, 1958.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 4.16 ft Aug. 2; minimum, 1.73 ft Feb. 1.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.85 ft Feb. 1; minimum, -.99 ft June 30.

UPSTREAM
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	2.62	3.21	3.37	3.27	3.03	3.49	2.95	2.86	2.19	2.03	3.29	3.03
2	2.82	3.16	3.35	3.25	3.83	3.47	3.00	2.82	2.17	2.02	3.47	2.58
3	3.32	3.46	3.32	3.23	3.89	3.45	3.08	2.88	2.14	2.07	3.58	2.61
4	3.49	3.48	3.31	3.22	3.97	3.44	3.10	3.24	2.13	2.11	3.92	2.65
5	3.54	3.50	3.34	3.21	3.97	3.44	3.08	3.26	2.16	2.15	3.88	2.72
6	3.54	3.70	3.69	3.20	3.92	3.43	3.04	3.17	2.22	2.21	3.91	2.44
7	3.53	3.89	3.67	3.18	3.90	3.43	2.98	3.06	2.33	2.26	3.90	2.61
8	3.53	3.70	3.63	3.15	3.84	3.41	2.95	2.99	2.38	2.24	3.85	2.66
9	3.52	3.67	3.58	3.15	3.79	3.38	2.93	2.95	2.40	2.23	3.80	2.58
10	3.48	3.59	3.57	3.14	3.75	3.35	2.96	2.94	2.43	2.18	3.79	2.63
11	3.46	3.78	3.57	3.12	3.70	3.31	2.95	2.87	2.48	2.15	3.73	2.64
12	3.43	3.92	3.53	3.09	3.64	3.34	3.05	2.79	2.49	2.14	3.66	2.63
13	3.39	3.93	3.48	3.08	3.58	3.30	3.37	2.72	2.48	2.20	3.21	2.66
14	3.36	3.82	3.51	3.07	3.54	3.25	3.52	2.70	2.46	2.15	2.92	2.73
15	3.32	3.87	3.61	3.09	3.52	3.27	3.47	2.66	2.42	2.19	3.26	3.28
16	3.28	3.85	3.60	3.09	3.50	3.30	3.44	2.64	2.35	2.32	3.36	3.53
17	3.25	3.83	3.60	3.07	3.49	3.31	3.38	2.63	2.29	2.27	3.43	3.59
18	3.24	3.79	3.53	3.14	3.47	3.26	3.32	2.62	2.27	2.30	3.47	3.62
19	3.23	3.76	3.49	3.29	3.44	3.22	3.26	2.62	2.26	2.43	3.46	3.67
20	3.22	3.72	3.46	3.31	3.43	3.11	3.21	2.59	2.27	2.73	3.44	3.70
21	3.20	3.68	3.45	3.30	3.43	3.04	3.15	2.55	2.31	2.90	3.47	3.55
22	3.20	3.64	3.43	3.31	3.42	2.98	3.07	2.51	2.50	3.05	3.51	3.90
23	3.18	3.61	3.46	3.31	3.40	2.93	3.01	2.47	2.62	2.96	3.54	3.69
24	3.14	3.58	3.46	3.31	3.39	2.97	2.98	2.43	2.54	2.84	3.61	3.91
25	3.11	3.55	3.44	3.31	3.45	3.08	2.96	2.40	2.49	2.78	3.85	3.31
26	3.13	3.51	3.41	3.33	3.63	3.23	2.94	2.37	2.41	2.71	3.94	2.71
27	3.14	3.48	3.37	3.40	3.59	3.22	2.93	2.34	2.31	2.72	3.94	2.54
28	3.12	3.45	3.34	3.42	3.55	3.16	2.89	2.30	2.23	2.80	3.90	2.58
29	3.35	3.43	3.32	3.40	3.53	3.11	2.88	2.27	2.17	2.80	3.86	2.56
30	3.31	3.39	3.31	3.39	---	3.05	2.90	2.24	2.11	2.75	3.86	2.57
31	3.26	---	3.29	3.60	---	3.01	---	2.21	---	2.79	3.77	---
MEAN	3.28	3.63	3.47	3.24	3.61	3.25	3.09	2.68	2.33	2.43	3.63	3.00
MAX	3.54	3.93	3.69	3.60	3.97	3.49	3.52	3.26	2.62	3.05	3.94	3.91
MIN	2.62	3.16	3.29	3.07	3.03	2.93	2.88	2.21	2.11	2.02	2.92	2.44

02283200 PLANTATION ROAD CANAL AT S-33, NEAR FORT LAUDERDALE, 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	18	0.00	0.00	0.00	e72	0.00	0.00	0.00	0.00	0.00	12	e60
2	9.0	0.00	0.00	0.00	1.9	0.00	0.00	0.00	0.00	0.00	63	20
3	0.00	0.00	0.00	0.00	6.4	0.00	0.00	0.00	0.00	0.00	17	17
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27
5	0.00	0.00	9.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1	e60
6	0.00	0.00	0.00	0.00	4.6	0.00	0.00	0.00	0.00	0.00	0.00	61
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73
8	0.00	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55
9	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100
10	0.00	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e75
11	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	e47
12	0.00	6.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e49
13	1.7	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e48	33
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	7.2
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	3.5
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	e51
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	e52
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e63
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	26
31	0.00	---	0.00	6.7	---	0.00	---	0.00	---	0.00	0.30	---
TOTAL	28.70	133.10	9.20	6.70	84.90	0.00	0.00	0.00	0.00	0.00	189.40	1,016.30
MEAN	0.93	4.44	0.30	0.22	2.93	0.00	0.00	0.00	0.00	0.00	6.11	33.9
MAX	18	47	9.2	6.7	72	0.00	0.00	0.00	0.00	0.00	63	100
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	57	264	18	13	168	0.00	0.00	0.00	0.00	0.00	376	2,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	20.5	15.3	9.03	8.70	9.24	7.70	9.21	10.8	25.6	22.1	21.1	26.1
MAX	57.9	59.6	41.9	48.1	43.4	55.5	60.3	70.5	79.6	80.0	75.9	54.3
(WY)	(1968)	(1970)	(1968)	(1968)	(1972)	(1970)	(1977)	(1979)	(1977)	(1988)	(1976)	(1973)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1971)	(1963)	(1963)	(1963)	(1971)	(1963)	(1963)	(1962)	(1971)	(1971)	(1987)	(1989)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1962 - 2004

ANNUAL TOTAL	1,632.70	1,468.30	
ANNUAL MEAN	4.47	4.01	16.5
HIGHEST ANNUAL MEAN			40.1
LOWEST ANNUAL MEAN			0.99
HIGHEST DAILY MEAN	266	100	748
LOWEST DAILY MEAN	0.00	0.00	-77
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	-28
ANNUAL RUNOFF (AC-FT)	3,240	2,910	11,920
10 PERCENT EXCEEDS	12	7.7	46
50 PERCENT EXCEEDS	0.00	0.00	0.00
90 PERCENT EXCEEDS	0.00	0.00	0.00

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.