

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290710 BLACK CREEK CANAL AT S-21, NEAR GOULDS, FL

LOCATION.--Lat 25°32'34", long 80°19'52", in NE  $\frac{1}{4}$  sec.21, T.56 S., R.40 E., Dade County, Hydrologic Unit 03090202, in control house of salinity-control structure S-21, 0.5 mi upstream from mouth, and 3.5 mi east of Goulds.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to October 1969 (gage heights only), November 1969 to September 1977, October 1978 to September 2004. Discontinued.

REVISED RECORDS.--WDR FL-89-2A, 1988; WDR FL-01-2A, 2000.

GAGE.--Electronic data loggers for upstream and downstream stages and electronic data logger with shaft encoders for gate operation. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to August 9, 1960, water-stage recorder at site 270 ft upstream in north lateral borrow canal, and April 9, 1960 to July 8, 1968, at site 810 ft upstream in north lateral borrow canal, all at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by the operation of salinity-control structure S-21 and by some upstream pumpage for irrigation. 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 for each calendar day. Prior to the 2002 water year, the daily mean for the downstream stage was published. Discharge computed from relation between head, discharges and gate-openings at structure S-21. Records of gage heights prior to October 1962, are available in files of the U.S. Geological Survey. Discharge occurring under submerged weir flow conditions is considered estimated.

COOPERATION.--Supplementary gate-opening record and gage-height record provided by the South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 23 complete water years of discharge (1971-77, 1979-90, 1995, 1998, 2002, 2004).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 10.17 ft Aug. 24, 1992; minimum, -1.09 ft Aug. 24, 1992.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.07 ft Nov. 11; minimum, 0.27 ft Aug. 4.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 2.92 ft Nov. 10, 11; minimum, -0.92 ft Mar. 31.

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	1.90	2.12	1.92	2.36	1.67	2.10	2.23	2.03	2.04	1.75	2.29	1.73
2	1.93	2.13	1.89	2.08	1.84	2.10	2.21	2.32	2.01	1.72	2.01	1.73
3	2.03	2.07	1.98	2.20	1.73	2.33	2.19	2.05	1.98	1.77	1.81	1.64
4	2.23	2.16	2.04	2.26	1.65	2.03	2.17	1.89	1.96	1.82	1.32	1.78
5	2.19	2.15	2.11	2.29	1.73	2.29	2.16	2.11	1.93	1.82	1.51	1.66
6	2.18	2.14	2.15	2.29	1.72	1.99	2.14	2.13	1.92	1.82	1.53	1.59
7	2.19	1.70	2.15	2.30	1.93	2.21	2.13	2.14	1.91	1.81	1.51	1.63
8	2.10	1.78	2.16	2.29	1.93	2.11	2.13	2.22	1.90	1.78	1.60	1.59
9	2.15	1.77	2.17	2.28	1.79	2.19	2.12	1.98	1.90	1.75	1.94	1.64
10	2.17	1.90	2.24	2.29	1.84	2.10	2.11	2.22	1.96	1.72	2.11	1.67
11	2.14	2.44	2.10	2.28	1.93	2.15	2.10	2.14	1.97	1.70	1.82	1.69
12	2.09	2.24	2.13	2.25	1.87	2.27	2.15	2.14	1.97	1.71	1.62	1.72
13	2.03	1.87	2.23	2.24	1.98	2.31	2.26	2.10	1.96	1.75	1.69	1.75
14	1.99	2.12	2.11	2.24	1.86	2.33	2.09	2.30	1.95	1.83	1.82	1.61
15	2.01	2.11	2.18	2.23	1.85	2.35	2.17	2.22	1.91	1.83	1.80	1.70
16	2.08	2.09	2.23	2.21	2.02	1.95	2.23	1.99	1.89	1.84	1.94	1.76
17	2.06	2.08	2.10	2.20	1.87	2.16	2.24	2.23	1.88	1.92	1.92	1.76
18	2.07	2.07	2.29	2.23	1.99	2.23	2.24	2.30	1.86	1.97	1.94	1.77
19	2.09	2.13	2.08	2.31	1.98	2.26	2.24	2.32	1.84	2.08	1.92	1.67
20	2.02	2.08	2.22	2.31	2.12	2.27	2.23	2.33	1.84	2.25	1.92	1.97
21	2.00	2.10	2.30	2.31	2.13	2.27	2.21	2.32	1.84	2.30	1.88	2.14
22	1.99	2.11	2.30	2.03	2.14	2.28	2.19	2.30	1.83	2.31	1.81	2.11
23	2.09	2.16	2.01	2.09	2.14	2.27	2.17	2.28	1.81	2.30	1.77	2.03
24	2.12	2.10	2.27	2.15	2.13	2.26	2.16	2.26	1.78	2.29	1.80	1.76
25	2.10	2.06	2.30	2.17	2.19	2.26	2.15	2.23	1.76	2.05	1.98	1.73
26	2.14	1.99	1.97	2.18	2.05	2.27	2.12	2.20	1.74	2.14	2.05	1.78
27	2.07	1.98	2.24	2.20	2.09	2.27	2.11	2.17	1.72	2.05	2.10	1.75
28	2.04	1.94	2.31	2.21	1.97	2.26	2.16	2.14	1.70	2.10	2.14	1.72
29	1.93	1.89	2.34	2.19	2.18	2.25	2.26	2.12	1.75	2.09	2.12	1.69
30	2.01	1.91	2.34	1.78	---	2.24	2.29	2.10	1.76	2.28	2.13	1.68
31	2.15	---	2.35	1.79	---	2.24	---	2.07	---	2.04	1.95	---
TOTAL	64.29	61.39	67.21	68.24	56.32	68.60	65.36	67.35	56.27	60.59	57.75	52.45
MEAN	2.07	2.05	2.17	2.20	1.94	2.21	2.18	2.17	1.88	1.95	1.86	1.75
MAX	2.23	2.44	2.35	2.36	2.19	2.35	2.29	2.33	2.04	2.31	2.29	2.14
MIN	1.90	1.70	1.89	1.78	1.65	1.95	2.09	1.89	1.70	1.70	1.32	1.59



