

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL

LOCATION.--Lat 26°38'40", long 80°03'22", in NW $\frac{1}{4}$ sec.15, T.44 S., R.34 E., Palm Beach County, Hydrologic Unit 03090202, at structure S-155, on left bank in concrete control house north of control structure, 200 ft downstream from bridge on U.S. Highway 1, and 4.9 mi south of courthouse in West Palm Beach.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to current year. Discontinued. Records of gage heights prior to October 1961 are available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR FL-91-2A, 1986-89. WDR FL-03-2A, 2002 (downstream gage height only).

GAGE.--Electronic data logger with shaft encoders for upstream and downstream stages. Prior to November 17, 2003, electronic data logger for 3 gate recorders. Prior to September 23, 1999, digital gate recorders. Prior to November 17, 1999, digital water-stage recorders upstream and downstream. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). Prior to May 1, 1984, digital upstream stage recorder, and gate-opening indicator at site 200 ft upstream at same datum. Prior to April 26, 1940, nonrecording gage, April 26, 1940 to December 20, 1949, water-stage recorder, at same site at datum 0.25 ft higher, and December 20, 1949 to June 3, 1959, at same site and present datum. June 3, 1959 to September 30, 1985, water-stage and deflection vane recorder at site 800 ft upstream at present datum.

REMARKS.-- Records poor. Flow regulated by operation of control structure. Since January 1954, flow affected by control structures 20 mi upstream. Discharge computed from relations between discharge, head and gate openings. 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, daily mean was published.

COOPERATION.--Gate-operation record provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 58 complete water years of discharge (1941-84, 1986-90, 1993-94, 1998-2004).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 10.89 ft Oct. 13, 1947, present datum; minimum, 2.85 ft Dec. 3, 1953, Oct. 9, 1963, and Sept. 9, 1964.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 9.03 ft Sept. 26; minimum, 6.97 ft Sept. 27, 29.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 4.50 ft Sept. 25; minimum, -1.97 ft July 1.

REVISIONS.--Revised figures of discharge for the 2000-2003 water years, superseding those published in the reports for 2000-2003 are provided below due to revised ratings.

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	743	e2,840	1,170	999	197	0.00	0.00	0.00	0.00	0.00	296	0.00
2	757	1,700	1,100	848	0.00	0.00	0.00	0.00	0.00	158	509	0.00
3	828	1,250	1,190	839	198	0.00	0.00	0.00	0.00	160	801	0.00
4	891	1,270	1,210	805	197	0.00	0.00	0.00	0.00	171	494	0.00
5	964	1,310	1,010	848	3.7	0.00	0.00	0.00	0.00	169	469	0.00
6	653	1,050	1,200	720	0.00	0.00	0.00	0.00	0.00	238	257	0.00
7	778	1,040	1,190	716	192	0.00	0.00	0.00	0.00	200	320	182
8	1,260	1,080	807	707	133	0.00	0.00	0.00	0.00	396	518	0.00
9	1,180	1,200	620	698	222	0.00	0.00	0.00	265	365	474	0.00
10	989	1,270	851	688	159	0.00	0.00	0.00	136	510	15	0.00
11	979	1,200	944	830	0.00	0.00	0.00	0.00	345	522	77	0.00
12	996	1,180	915	708	82	0.00	458	0.00	7.9	663	134	0.00
13	1,150	1,180	1,050	699	174	0.00	527	228	2.7	527	96	0.00
14	e2,540	1,170	986	689	163	0.00	1,190	531	0.00	495	74	0.00
15	e4,040	1,170	925	671	156	0.00	1,290	203	0.00	376	131	0.00
16	e8,540	1,040	844	661	74	0.00	1,820	350	0.00	221	207	159
17	e6,050	1,040	1,100	650	0.00	13	947	262	0.00	308	334	403
18	e4,530	1,150	1,230	637	1.2	13	530	337	0.00	415	268	232
19	e3,630	1,240	859	247	0.00	527	546	398	0.00	436	216	826
20	e3,090	1,150	915	0.00	0.00	919	118	0.00	0.00	241	378	507
21	2,930	1,390	1,170	0.00	0.00	397	550	0.00	0.00	514	190	492
22	2,690	1,250	958	0.00	0.60	0.00	655	0.00	0.00	310	421	4.1
23	2,330	1,340	1,100	0.00	0.00	0.00	458	0.00	0.00	263	944	0.00
24	2,260	1,080	1,150	580	18	67	541	0.00	0.00	250	182	0.00
25	1,740	1,340	889	269	806	52	520	0.00	0.00	257	0.00	0.00
26	1,720	1,020	1,130	18	168	176	293	0.00	6.8	505	0.00	0.00
27	1,610	1,280	908	213	153	109	92	0.00	0.00	469	0.00	0.00
28	1,400	1,230	894	83	37	286	0.00	0.00	0.00	166	0.00	646
29	1,440	1,170	917	505	0.00	0.00	0.00	0.00	0.00	265	0.00	260
30	1,370	1,080	912	253	---	0.00	0.00	0.00	149	104	0.00	475
31	e1,980	---	925	0.00	---	0.00	---	0.00	---	502	0.00	---
TOTAL	66,058	37,710	31,069	15,581.00	3,134.50	2,559.00	10,535.00	2,309.00	912.40	10,176.00	7,805.00	4,186.10
MEAN	2,131	1,257	1,002	503	108	82.5	351	74.5	30.4	328	252	140
MAX	8,540	2,840	1,230	999	806	919	1,820	531	345	663	944	826
MIN	653	1,020	620	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	131,000	74,800	61,630	30,900	6,220	5,080	20,900	4,580	1,810	20,180	15,480	8,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	1,087	740	501	573	435	428	398	397	750	831	860	1,096
MAX	3,889	2,589	2,082	2,067	1,696	1,682	1,967	1,266	2,856	2,960	2,335	2,844
(WY)	(1948)	(1948)	(1995)	(1993)	(1941)	(1947)	(1942)	(1958)	(1942)	(1947)	(1947)	(1947)
MIN	11.5	4.93	0.00	0.06	0.00	0.00	0.00	0.01	30.4	155	89.8	140
(WY)	(1982)	(1990)	(1991)	(1989)	(1989)	(1990)	(1990)	(1992)	(2000)	(1981)	(1987)	(2000)

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1940 - 2000

ANNUAL TOTAL	295,122.00		192,035.00		671	
ANNUAL MEAN	809		525		1,542	1947
HIGHEST ANNUAL MEAN					129	1989
LOWEST ANNUAL MEAN					8,540	Oct 16, 1999
HIGHEST DAILY MEAN	8,540	Oct 16	8,540	Oct 16		
LOWEST DAILY MEAN	0.00	Feb 27	0.00	Jan 20	0.00	May 2, 1984
ANNUAL SEVEN-DAY MINIMUM	0.00	Mar 15	0.00	Feb 29	0.00	May 8, 1984
ANNUAL RUNOFF (AC-FT)	585,400		380,900		486,500	
10 PERCENT EXCEEDS	1,340		1,200		1,460	
50 PERCENT EXCEEDS	882		240		514	
90 PERCENT EXCEEDS	0.00		0.00		10	

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.

REVISED

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	392	0.00	194	0.00	0.00	0.00	153	0.00	296	863	1,240	54
2	700	0.00	82	0.00	0.00	0.00	0.00	0.00	358	610	e2,410	192
3	1,500	0.00	168	0.00	0.00	0.00	0.00	0.00	279	461	e3,610	216
4	2,880	0.00	76	69	0.00	0.00	0.00	0.00	261	522	e2,870	220
5	3,000	0.00	57	38	0.00	0.00	0.00	0.00	53	423	2,300	343
6	2,500	0.00	59	0.00	0.00	0.00	0.00	0.00	82	194	1,840	461
7	1,880	0.00	129	0.00	0.00	0.00	0.00	0.00	124	402	1,680	486
8	1,450	0.00	57	0.00	0.00	0.00	0.00	0.00	123	314	1,380	865
9	1,170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	249	591	1,300	762
10	746	0.00	221	0.00	0.00	0.00	0.00	0.00	89	781	1,130	1,090
11	617	0.00	e1,990	0.00	0.00	0.00	0.00	0.00	181	836	940	1,400
12	651	0.00	754	0.00	0.00	0.00	0.00	0.00	455	922	936	1,930
13	655	0.00	565	0.00	0.00	0.00	0.00	0.00	256	938	758	e3,570
14	276	0.00	260	0.00	0.00	0.00	0.00	0.00	124	868	656	e4,360
15	376	0.00	121	0.00	0.00	0.00	0.00	0.00	0.00	897	673	e3,170
16	237	0.00	316	0.00	0.00	0.00	0.00	0.00	83	922	491	2,270
17	19	0.00	179	0.00	0.00	0.00	0.00	0.00	106	949	518	1,570
18	138	0.00	1.6	0.00	0.00	0.00	0.00	0.00	41	1,670	462	1,160
19	8.4	0.00	186	0.00	0.00	e1,610	0.00	0.00	0.00	1,460	561	991
20	0.00	0.00	4.6	0.00	0.00	e1,000	0.00	0.00	0.00	1,100	474	776
21	301	0.00	0.00	0.00	0.00	363	0.00	0.00	0.00	1,140	566	789
22	0.00	0.00	14	27	0.00	184	0.00	0.00	320	1,380	721	519
23	87	0.00	16	70	0.00	159	0.00	0.00	477	e1,820	701	573
24	47	0.00	113	0.00	0.00	0.00	0.00	0.00	495	e3,080	488	622
25	153	e2,320	0.00	0.00	0.00	0.00	0.00	0.00	487	2,470	486	829
26	0.00	1,280	51	0.00	0.00	0.00	0.00	0.00	578	1,990	467	1,470
27	0.00	408	231	0.00	0.00	0.00	0.00	0.00	813	1,710	423	1,860
28	0.00	137	120	0.00	0.00	0.00	0.00	0.00	2,250	910	235	1,610
29	0.00	148	102	0.00	---	114	0.00	0.00	1,670	910	289	2,910
30	0.00	78	0.00	0.00	---	385	0.00	0.00	780	934	328	2,410
31	102	---	0.00	0.00	---	186	---	0.00	---	891	302	---
TOTAL	19885.40	4,371.00	6,067.20	204.00	0.00	4,001.00	153.00	0.00	11,030.00	32,958	31,235	39,478
MEAN	641	146	196	6.58	0.00	129	5.10	0.00	368	1,063	1,008	1,316
MAX	3,000	2,320	1,990	70	0.00	1,610	153	0.00	2,250	3,080	3,610	4,360
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194	235	54
AC-FT	39,440	8,670	12,030	405	0.00	7,940	303	0.00	21,880	65,370	61,950	78,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	MEAN	1,080	730	496	564	428	423	391	391	744	834	862	1,100
MEAN	3,889	2,589	2,082	2,067	1,696	1,682	1,967	1,266	2,856	2,960	2,335	2,844	
(WY)	(1948)	(1948)	(1995)	(1993)	(1941)	(1947)	(1942)	(1958)	(1942)	(1947)	(1947)	(1947)	(1947)
MIN	11.5	4.93	0.00	0.06	0.00	0.00	0.00	0.00	30.4	155	89.8	140	
(WY)	(1982)	(1990)	(1991)	(1989)	(1989)	(1990)	(1990)	(2001)	(2000)	(1981)	(1987)	(2000)	

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1940 - 2001

ANNUAL TOTAL	87,521.60	149,382.60	
ANNUAL MEAN	239	409	667
HIGHEST ANNUAL MEAN			1,542
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	3,000	Oct 5	4,360
LOWEST DAILY MEAN	0.00	Jan 20	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 29	0.00
ANNUAL RUNOFF (AC-FT)	173,600	296,300	483,000
10 PERCENT EXCEEDS	676	1,390	1,460
50 PERCENT EXCEEDS	58	16	508
90 PERCENT EXCEEDS	0.00	0.00	10

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.

REVISED

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2,090	1,100	0.00	59	267	621	0.00	0.00	0.00	e1,140	664	856
2	e1,860	1,020	0.00	5.8	0.00	435	0.00	0.00	4.5	1,390	776	958
3	1,690	859	0.00	0.00	0.00	509	0.00	0.00	2.4	812	740	926
4	1,000	1,000	0.00	0.00	0.00	503	0.00	0.00	0.00	716	853	906
5	1,030	585	0.00	0.00	0.00	495	0.00	0.00	0.00	681	880	994
6	973	770	0.00	0.00	0.00	491	0.00	0.00	0.00	792	821	929
7	949	944	632	0.00	38	e789	0.00	0.00	94	944	847	1,040
8	1,020	756	308	45	10	421	0.00	0.00	256	e1,250	802	978
9	704	671	0.00	0.00	0.00	528	0.00	0.00	219	e2,020	736	941
10	504	627	0.00	0.00	e1,880	520	0.00	0.00	97	e2,480	731	925
11	502	758	141	0.00	1,170	511	0.00	0.00	275	e2,130	731	e1,470
12	485	765	0.00	0.00	799	644	0.00	0.00	886	e2,030	833	1,170
13	464	730	0.00	0.00	350	496	0.00	0.00	462	e2,550	630	1,160
14	324	695	0.00	0.00	613	167	e1,380	0.00	450	e2,010	396	1,120
15	157	662	0.00	1.0	617	0.00	124	0.00	552	1,490	279	1,100
16	349	638	57	113	750	0.00	253	0.00	792	1,450	936	1,110
17	397	630	67	0.00	598	0.00	116	0.00	1,340	1,350	850	1,080
18	580	556	0.00	0.00	502	0.00	24	0.00	1,060	1,680	824	1,070
19	470	601	92	0.00	665	0.00	0.00	0.00	1,010	e1,830	848	1,130
20	306	710	1.0	0.00	741	0.00	0.00	108	901	1,330	805	1,020
21	396	697	0.00	0.00	224	0.00	0.00	189	2,770	1,210	1,050	1,000
22	e1,370	679	0.00	0.00	e899	0.00	0.00	9.8	1,490	957	760	984
23	1,070	474	0.00	0.00	821	0.00	0.00	0.00	1,170	1,090	832	801
24	614	207	0.00	0.00	277	0.00	0.00	0.00	1,010	1,200	706	992
25	745	92	47	0.00	498	0.00	0.00	0.00	1,300	1,220	740	779
26	963	0.00	182	0.00	593	0.00	0.00	0.00	1,090	1,140	884	960
27	944	0.00	0.90	0.00	464	0.00	0.00	0.00	708	1,090	948	938
28	805	0.00	0.00	0.00	470	0.00	0.00	0.00	685	997	959	924
29	822	0.00	0.00	0.00	---	0.00	0.00	0.00	663	1,010	808	910
30	e1,250	0.00	0.00	0.00	---	0.00	0.00	0.00	680	1,040	831	930
31	931	---	330	0.00	---	0.00	---	0.00	---	868	810	---
TOTAL	25,764	17,226.00	1,857.90	223.80	13,246.00	7,130.00	1,897.00	306.80	19,966.90	41,897	24,310	30,101
MEAN	831	574	59.9	7.22	473	230	63.2	9.90	666	1,352	784	1,003
MAX	2,090	1,100	632	113	1,880	789	1,380	189	2,770	2,550	1,050	1,470
MIN	157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	681	279	779
AC-FT	51,100	34,170	3,690	444	26,270	14,140	3,760	609	39,600	83,100	48,220	59,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

MEAN	1,075	728	489	555	429	420	386	384	743	843	861	1,098
MAX	3,889	2,589	2,082	2,067	1,696	1,682	1,967	1,266	2,856	2,960	2,335	2,844
(WY)	(1948)	(1948)	(1995)	(1993)	(1941)	(1947)	(1942)	(1958)	(1942)	(1947)	(1947)	(1947)
MIN	11.5	4.93	0.00	0.06	0.00	0.00	0.00	0.00	30.4	155	89.8	140
(WY)	(1982)	(1990)	(1991)	(1989)	(1989)	(1990)	(1990)	(2001)	(2000)	(1981)	(1987)	(2000)

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1940 - 2002

ANNUAL TOTAL	163,906.90	183,926.40	
ANNUAL MEAN	449	504	664
HIGHEST ANNUAL MEAN			1,542
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	4,360	2,770	8,540
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
ANNUAL RUNOFF (AC-FT)	325,100	364,800	480,900
10 PERCENT EXCEEDS	1,240	1,120	1,450
50 PERCENT EXCEEDS	92	464	506
90 PERCENT EXCEEDS	0.00	0.00	10

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.

REVISED

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	925	0.00	191	487	180	0.00	464	157	770	689	707	843
2	900	0.00	120	474	494	0.00	459	229	801	523	648	1,080
3	591	0.00	139	468	232	0.00	510	528	735	478	672	878
4	0.00	0.00	117	461	258	0.00	528	514	885	633	734	900
5	0.00	0.00	178	452	289	465	514	503	824	555	878	1,100
6	0.00	0.00	124	441	403	488	505	493	946	592	929	1,030
7	0.00	0.00	120	439	391	478	706	664	928	604	773	942
8	0.00	0.00	65	429	347	467	491	486	752	484	812	747
9	0.00	0.00	408	421	432	459	546	470	e1,460	471	940	807
10	0.00	0.00	615	140	303	446	533	464	1,040	456	1,030	774
11	0.00	0.00	244	0.00	234	443	519	453	946	439	831	815
12	0.00	0.00	516	346	296	439	508	309	812	453	1,100	742
13	0.00	0.00	506	123	463	367	494	419	961	526	1,100	747
14	166	0.00	273	289	140	216	473	463	835	506	1,250	804
15	139	0.00	267	130	0.00	627	453	236	953	712	747	766
16	80	348	169	344	0.00	505	474	0.00	660	508	983	719
17	0.00	376	0.00	240	0.00	664	644	0.00	760	499	816	540
18	0.00	0.00	88	540	0.00	585	574	0.00	872	659	902	481
19	0.00	0.00	222	528	0.00	562	497	0.00	994	473	904	523
20	0.00	192	548	262	173	576	484	167	978	459	1,040	479
21	0.00	485	489	182	0.00	674	474	107	1,150	451	973	259
22	0.00	197	480	112	388	639	459	e875	1,070	438	897	317
23	0.00	317	652	0.00	281	649	452	1,010	906	428	876	499
24	0.00	169	644	0.00	42	513	435	314	716	674	832	483
25	0.00	152	484	200	0.00	525	437	552	593	738	878	507
26	0.00	32	300	466	0.00	514	573	441	744	667	795	716
27	0.00	0.00	0.00	26	0.00	735	602	914	786	482	780	555
28	0.00	144	0.00	154	0.00	681	768	1,470	693	471	1,020	440
29	0.00	113	150	182	---	507	775	1,300	735	473	741	665
30	0.00	187	321	136	---	658	916	449	587	682	734	661
31	0.00	---	498	216	---	481	---	594	---	689	819	---
TOTAL	2,801.00	2,712.00	8,928.00	8,688.00	5,346.00	14,363.00	16,267	14,581.00	25,892	16,912	27,141	20,819
MEAN	90.4	90.4	288	280	191	463	542	470	863	546	876	694
MAX	925	485	652	540	494	735	916	1,470	1,460	738	1,250	1,100
MIN	0.00	0.00	0.00	0.00	0.00	0.00	435	0.00	587	428	648	259
AC-FT	5,560	5,380	17,710	17,230	10,600	28,490	32,270	28,920	51,360	33,540	53,830	41,290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	1,059	717	486	551	425	421	389	386	745	838	861	1,092
MAX	3,889	2,589	2,082	2,067	1,696	1,682	1,967	1,266	2,856	2,960	2,335	2,844
(WY)	(1948)	(1948)	(1995)	(1993)	(1941)	(1947)	(1942)	(1958)	(1942)	(1947)	(1947)	(1947)
MIN	11.5	4.93	0.00	0.06	0.00	0.00	0.00	0.00	30.4	155	89.8	140
(WY)	(1982)	(1990)	(1991)	(1989)	(1989)	(1990)	(1990)	(2001)	(2000)	(1981)	(1987)	(2000)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1940 - 2003

ANNUAL TOTAL	153,519.50	164,450.00	
ANNUAL MEAN	421	451	660
HIGHEST ANNUAL MEAN			1,542
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	2,770	Jun 21	8,540
LOWEST DAILY MEAN	0.00	Jan 3	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 17	0.00
ANNUAL RUNOFF (AC-FT)	304,500	326,200	478,200
10 PERCENT EXCEEDS	1,090	898	1,440
50 PERCENT EXCEEDS	166	473	504
90 PERCENT EXCEEDS	0.00	0.00	10

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.

REVISED

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL-Continued

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	8.05	8.53	7.98	8.15	7.73	8.07	8.36	8.13	8.18	7.84	7.60	7.76
2	8.11	8.21	7.97	8.13	8.09	8.15	8.32	8.12	8.23	8.05	7.24	7.33
3	8.13	8.16	8.04	8.01	8.10	8.01	8.33	8.06	8.19	8.02	7.30	7.26
4	8.15	8.25	8.19	8.05	8.02	8.15	8.30	8.00	8.22	8.16	7.35	7.30
5	8.08	8.03	8.56	8.02	8.19	8.03	8.11	8.14	8.01	8.06	8.01	8.23
6	7.99	7.44	8.51	8.10	8.18	8.06	8.24	8.13	8.06	8.05	8.00	7.45
7	8.09	7.78	8.55	8.13	8.09	8.11	8.32	8.11	7.94	8.00	8.07	7.30
8	8.13	8.11	8.51	8.04	7.96	8.02	8.35	8.04	7.91	7.95	8.24	7.25
9	7.94	7.98	8.52	8.09	7.92	8.12	8.35	8.07	7.99	7.88	8.13	7.32
10	8.17	7.94	8.46	8.12	7.98	8.17	8.14	8.02	8.08	8.01	8.03	7.41
11	8.20	8.07	8.59	8.16	8.05	8.21	8.01	8.13	8.13	8.08	8.03	7.24
12	8.09	8.12	8.54	8.06	8.05	8.36	8.10	8.09	8.03	8.05	8.01	7.32
13	8.17	8.09	8.48	8.12	7.98	8.50	8.18	8.08	7.93	8.04	8.01	7.25
14	8.02	8.01	8.57	8.12	8.08	8.64	8.08	8.06	7.99	7.97	8.00	7.28
15	8.07	8.11	8.26	8.14	7.97	8.37	8.07	8.09	7.89	8.04	8.07	7.34
16	8.10	8.14	8.13	8.11	8.01	8.02	8.15	8.08	7.96	8.05	8.07	7.38
17	8.01	7.99	8.15	8.05	8.13	7.98	8.12	8.05	7.99	8.01	8.03	7.27
18	8.14	7.96	8.55	8.11	8.11	8.08	8.13	8.02	8.03	8.02	8.15	7.39
19	8.09	8.10	8.62	8.23	7.97	8.15	8.11	8.08	8.02	8.16	8.11	7.23
20	8.07	8.05	8.49	8.17	7.93	8.14	8.15	8.04	8.11	8.00	8.03	7.28
21	8.17	7.89	8.56	8.26	8.16	8.06	8.26	8.05	8.02	8.10	8.01	7.23
22	8.12	7.92	8.50	8.26	8.06	7.98	8.15	7.99	8.08	8.19	8.12	7.18
23	8.27	8.03	8.62	8.19	8.01	7.92	8.18	7.99	8.04	7.97	8.14	7.26
24	8.26	8.17	8.21	8.17	8.06	8.13	8.31	7.97	8.03	7.97	7.97	7.12
25	8.21	8.29	8.18	8.12	7.97	8.17	8.29	8.03	8.02	7.95	8.03	7.37
26	7.93	8.15	8.00	8.10	7.93	8.10	8.26	7.98	8.03	7.94	8.12	8.52
27	8.11	8.14	8.15	8.15	7.91	8.08	8.11	7.98	8.04	8.09	8.09	7.49
28	8.13	8.13	8.04	8.19	8.19	8.07	8.06	8.09	7.91	8.06	8.04	7.24
29	8.05	8.02	8.04	8.01	8.06	8.11	8.09	8.31	7.91	8.01	8.04	7.30
30	8.39	8.03	8.03	8.14	---	8.09	8.09	8.27	7.91	8.02	8.16	7.21
31	8.53	---	8.01	8.10	---	8.11	---	8.26	---	7.81	8.00	---
TOTAL	251.97	241.84	258.01	251.80	232.89	252.16	245.72	250.46	240.88	248.55	247.20	221.51
MEAN	8.13	8.06	8.32	8.12	8.03	8.13	8.19	8.08	8.03	8.02	7.97	7.38
MAX	8.53	8.53	8.62	8.26	8.19	8.64	8.36	8.31	8.23	8.19	8.24	8.52
MIN	7.93	7.44	7.97	8.01	7.73	7.92	8.01	7.97	7.89	7.81	7.24	7.12

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.47	-0.17	2.45	-0.44	2.12	-0.61	1.43	-1.19	2.13	-0.57	1.76	-0.70
2	3.35	0.13	2.85	0.00	1.97	-0.49	1.51	-1.07	1.93	-0.65	1.49	-1.05
3	3.42	0.36	2.87	0.06	2.27	-0.37	1.58	-1.11	2.05	-0.75	1.41	-1.08
4	3.22	0.27	2.53	-0.01	2.30	-0.60	1.62	-1.31	2.04	-0.94	1.70	-0.96
5	2.77	-0.20	2.65	-0.03	2.25	-0.71	1.59	-1.28	2.06	-0.99	1.76	-1.18
6	2.59	-0.33	2.81	-0.25	2.44	-0.57	1.71	-1.26	2.06	-1.07	1.82	-1.24
7	2.60	-0.34	2.60	-0.32	2.48	-0.54	1.93	-1.04	1.99	-1.18	1.96	-1.50
8	2.48	-0.57	2.72	-0.41	2.58	-0.56	2.18	-0.99	2.01	-1.23	2.19	-1.21
9	2.64	-0.41	2.69	-0.39	2.64	-0.57	2.64	-0.85	2.03	-1.09	2.31	-1.02
10	2.70	-0.35	3.18	-0.07	2.51	-0.51	2.31	-0.95	1.76	-1.24	2.27	-1.00
11	2.67	-0.42	3.42	0.44	2.41	-0.61	2.44	-0.59	1.77	-1.16	2.29	-1.10
12	2.55	-0.45	3.15	0.22	2.27	-0.68	2.41	-0.48	1.83	-1.15	2.30	-0.98
13	2.48	-0.42	2.82	0.03	2.27	-0.57	2.23	-0.63	1.78	-1.13	2.30	-1.13
14	2.56	-0.38	2.63	0.05	2.12	-0.42	2.09	-0.60	1.95	-1.21	2.11	-0.96
15	2.57	-0.19	2.47	-0.12	2.09	-0.51	2.11	-0.84	1.91	-1.26	2.04	-1.08
16	2.36	-0.12	2.18	-0.14	2.02	-0.50	2.13	-0.84	1.86	-1.19	2.05	-0.88
17	2.23	-0.18	1.98	-0.30	1.91	-0.93	2.21	-0.92	2.40	-1.14	2.29	-0.91
18	2.36	-0.05	2.17	-0.32	1.88	-1.08	2.56	-1.02	2.44	-1.05	2.28	-0.96
19	2.52	-0.06	2.11	-0.54	2.08	-1.16	2.48	-1.15	2.85	-0.90	2.25	-1.03
20	2.46	-0.06	2.69	-0.48	2.31	-1.17	2.47	-1.28	3.04	-0.80	2.37	-0.83
21	2.48	-0.26	3.02	-0.42	2.55	-1.25	2.62	-1.38	2.59	-1.01	2.39	-0.84
22	2.73	-0.43	3.04	-0.78	2.65	-1.26	2.69	-1.23	2.45	-0.92	2.58	-0.83
23	2.84	-0.34	3.16	-0.94	2.86	-1.30	2.64	-1.15	2.19	-0.95	2.43	-0.54
24	2.94	-0.56	3.11	-1.14	2.90	-1.36	2.47	-1.09	2.19	-0.76	2.39	-0.60
25	2.99	-0.84	3.07	-1.17	2.62	-1.23	2.41	-0.84	2.38	-0.42	2.39	-0.61
26	2.85	-1.00	3.05	-1.12	2.33	-1.30	2.13	-0.78	2.29	-0.37	2.04	-0.71
27	3.03	-1.08	3.08	-0.72	2.39	-1.12	1.98	-0.74	2.06	-0.45	1.69	-0.67
28	2.86	-1.01	2.74	-0.69	2.18	-0.80	1.84	-1.00	1.91	0.02	1.51	-0.58
29	2.89	-0.83	2.47	-0.67	1.97	-0.87	1.64	-0.64	2.17	-0.44	1.66	-0.30
30	2.55	-0.71	2.36	-0.40	1.68	-0.84	1.82	-0.74	---	---	1.91	-0.16
31	2.37	-0.59	---	---	1.61	-1.10	1.69	-0.49	---	---	2.11	-0.10
MONTH	3.47	-1.08	3.42	-1.17	2.90	-1.36	2.69	-1.38	3.04	-1.26	2.58	-1.50
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.36	-0.34	1.78	-0.95	1.94	-1.72	1.90	-1.97	2.06	-1.35	2.18	-1.19
2	2.31	-0.42	2.15	-1.11	2.38	-1.62	2.06	-1.85	2.03	-1.37	2.45	-0.74
3	2.39	-0.54	2.29	-1.35	2.71	-1.42	2.12	-1.72	2.04	-1.30	2.72	-0.36
4	2.55	-0.75	2.48	-1.42	2.48	-1.44	2.20	-1.44	1.95	-1.16	4.20	1.27
5	2.67	-0.83	2.55	-1.45	2.48	-1.66	2.32	-1.18	1.98	-1.05	3.79	0.69
6	2.70	-1.09	2.46	-1.40	2.17	-1.59	2.37	-1.11	1.89	-0.92	1.78	-0.14
7	2.52	-1.20	2.46	-1.57	2.02	-1.45	2.19	-0.84	2.04	-0.68	1.58	-0.50
8	2.59	-1.13	2.21	-1.43	1.68	-1.26	2.11	-0.84	1.71	-0.62	1.51	-0.60
9	2.57	-1.02	2.18	-1.18	1.68	-1.15	1.71	-0.92	1.82	-0.67	1.70	-0.45
10	2.34	-1.04	2.06	-1.12	1.78	-0.91	1.70	-0.95	2.02	-0.62	1.57	-0.81
11	2.21	-0.94	1.86	-1.08	1.90	-0.90	1.88	-0.78	1.80	-0.61	1.85	-0.68
12	2.07	-1.05	1.76	-1.06	2.22	-0.67	1.85	-0.86	1.69	-0.89	1.89	-0.77
13	1.71	-1.22	1.50	-1.15	2.04	-0.83	1.95	-0.74	1.37	-1.08	2.29	-0.70
14	1.46	-1.24	1.46	-1.28	2.02	-1.03	1.83	-0.94	1.65	-1.20	2.24	-0.69
15	1.68	-1.21	1.66	-1.31	2.10	-0.90	1.89	-1.01	2.04	-0.93	2.07	-0.92
16	2.05	-1.05	1.64	-1.38	1.87	-1.13	1.88	-1.02	2.04	-0.94	1.92	-1.01
17	2.01	-0.93	1.75	-1.33	2.00	-1.02	1.84	-1.05	1.88	-1.12	2.15	-1.02
18	1.83	-1.25	1.79	-1.33	1.81	-1.14	1.90	-1.13	1.90	-1.05	2.37	-0.97
19	1.63	-1.40	1.84	-1.24	1.76	-1.10	1.76	-1.20	1.90	-1.04	2.70	-0.64
20	1.72	-1.45	1.73	-1.23	1.74	-1.14	1.56	-1.24	1.86	-0.98	3.22	-0.18
21	1.80	-1.20	1.82	-1.19	1.66	-1.05	1.49	-1.07	1.75	-1.15	3.29	0.25
22	1.80	-1.41	1.82	-1.12	1.69	-1.02	1.62	-0.92	1.90	-1.10	3.09	0.21
23	1.45	-1.31	1.63	-0.95	1.65	-0.81	1.85	-0.79	1.77	-1.20	3.03	0.03
24	1.37	-1.29	1.69	-0.83	1.67	-0.82	1.95	-0.70	1.84	-1.24	3.26	0.08
25	1.19	-0.99	1.67	-0.94	1.46	-1.00	1.70	-1.05	2.00	-1.14	4.50	0.49
26	1.22	-0.92	1.42	-0.78	1.24	-1.34	1.87	-1.22	1.99	-1.35	3.55	0.56
27	1.30	-0.71	1.60	-0.65	1.26	-1.55	1.95	-1.30	2.20	-1.37	3.01	-0.32
28	1.46	-0.72	1.90	-0.65	1.46	-1.73	1.89	-1.51	2.56	-1.19	2.47	-0.67
29	1.49	-0.65	1.53	-1.02	1.69	-1.78	2.05	-1.63	2.40	-1.13	2.41	-0.81
30	1.74	-0.86	1.82	-1.17	1.94	-1.78	2.15	-1.62	2.33	-1.16	2.61	-0.66
31	---	---	1.85	-1.48	---	---	2.07	-1.51	2.20	-1.13	---	---
MONTH	2.70	-1.45	2.55	-1.57	2.71	-1.78	2.37	-1.97	2.56	-1.37	4.50	-1.19
YEAR	4.50	-1.97										

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, 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	628	381	361	327	694	745	0.00	0.00	0.00	11	518	1,090
2	502	575	441	384	549	702	0.00	0.00	0.00	0.00	561	952
3	706	684	208	353	790	772	0.00	261	0.00	0.00	454	831
4	478	709	227	385	704	494	0.00	106	107	0.00	195	1,220
5	473	767	208	384	608	747	6.4	119	57	0.00	349	e4,640
6	456	2,190	260	457	738	796	0.00	122	0.00	0.00	248	e3,590
7	659	916	176	474	809	630	0.00	0.00	0.00	0.00	200	2,650
8	582	968	180	360	712	607	0.00	0.00	0.00	0.00	177	2,170
9	639	1,000	182	452	695	617	0.00	0.00	0.00	0.00	313	2,460
10	478	745	176	362	682	605	0.00	0.00	0.00	0.00	385	2,230
11	645	712	174	383	693	387	0.00	0.00	0.00	0.00	516	2,100
12	514	822	165	386	709	66	168	0.00	0.00	0.00	772	1,800
13	475	588	179	427	764	304	132	0.00	0.00	0.00	676	1,640
14	601	810	230	386	773	123	0.00	0.00	0.00	0.00	210	1,530
15	510	838	474	450	789	425	0.00	0.00	0.00	0.00	202	1,370
16	506	546	511	478	568	628	0.00	0.00	0.00	0.00	173	1,370
17	424	778	517	512	741	488	153	0.00	0.00	0.00	187	1,460
18	206	673	177	499	592	482	0.00	0.00	0.00	0.00	304	1,450
19	364	658	202	629	796	473	0.00	0.00	0.00	0.00	351	1,360
20	272	627	221	553	660	458	0.00	0.00	0.00	0.00	284	1,520
21	163	596	154	483	672	384	0.00	0.00	0.00	0.00	208	1,820
22	343	584	232	506	602	244	0.00	0.00	0.00	57	318	1,810
23	520	505	446	521	600	0.00	0.00	0.00	0.00	141	212	1,840
24	513	470	672	517	735	0.00	0.00	0.00	0.00	0.00	234	1,810
25	583	463	639	507	978	0.00	0.00	0.00	0.00	0.00	468	1,840
26	705	636	344	240	849	0.00	0.00	0.00	0.00	0.00	90	e5,230
27	476	472	383	548	651	0.00	0.00	0.00	0.00	154	290	e3,620
28	695	576	532	499	486	0.00	0.00	0.00	0.00	25	351	2,890
29	590	607	330	539	680	0.00	0.00	0.00	0.00	111	224	2,670
30	326	508	406	579	---	0.00	104	0.00	7.1	18	188	2,490
31	423	---	413	770	---	0.00	---	0.00	---	377	312	---
TOTAL	15,455	21,404	9,820	14,350	20,319	11,177.00	563.40	608.00	171.10	894.00	9,970	63,453
MEAN	499	713	317	463	701	361	18.8	19.6	5.70	28.8	322	2,115
MAX	706	2,190	672	770	978	796	168	261	107	377	772	5,230
MIN	163	381	154	240	486	0.00	0.00	0.00	0.00	0.00	90	831
AC-FT	30,650	42,450	19,480	28,460	40,300	22,170	1,120	1,210	339	1,770	19,780	125,900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	1,050	717	483	549	430	420	383	380	733	825	853	1,108
MAX	3,889	2,589	2,082	2,067	1,696	1,682	1,967	1,266	2,856	2,960	2,335	2,844
(WY)	(1948)	(1948)	(1995)	(1993)	(1941)	(1947)	(1942)	(1958)	(1942)	(1947)	(1947)	(1947)
MIN	11.5	4.93	0.00	0.06	0.00	0.00	0.00	0.00	5.70	28.8	89.8	140
(WY)	(1982)	(1990)	(1991)	(1989)	(1989)	(1990)	(1990)	(2001)	(2004)	(2004)	(1987)	(2000)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1940 - 2004

ANNUAL TOTAL	196,688.00	168,184.50	
ANNUAL MEAN	539	460	657
HIGHEST ANNUAL MEAN			1,542
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	2,190	Nov 6	5,230
LOWEST DAILY MEAN	0.00	Jan 11	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 25	0.00
ANNUAL RUNOFF (AC-FT)	390,100	333,600	475,700
10 PERCENT EXCEEDS	903	833	1,440
50 PERCENT EXCEEDS	508	352	504
90 PERCENT EXCEEDS	171	0.00	10

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.