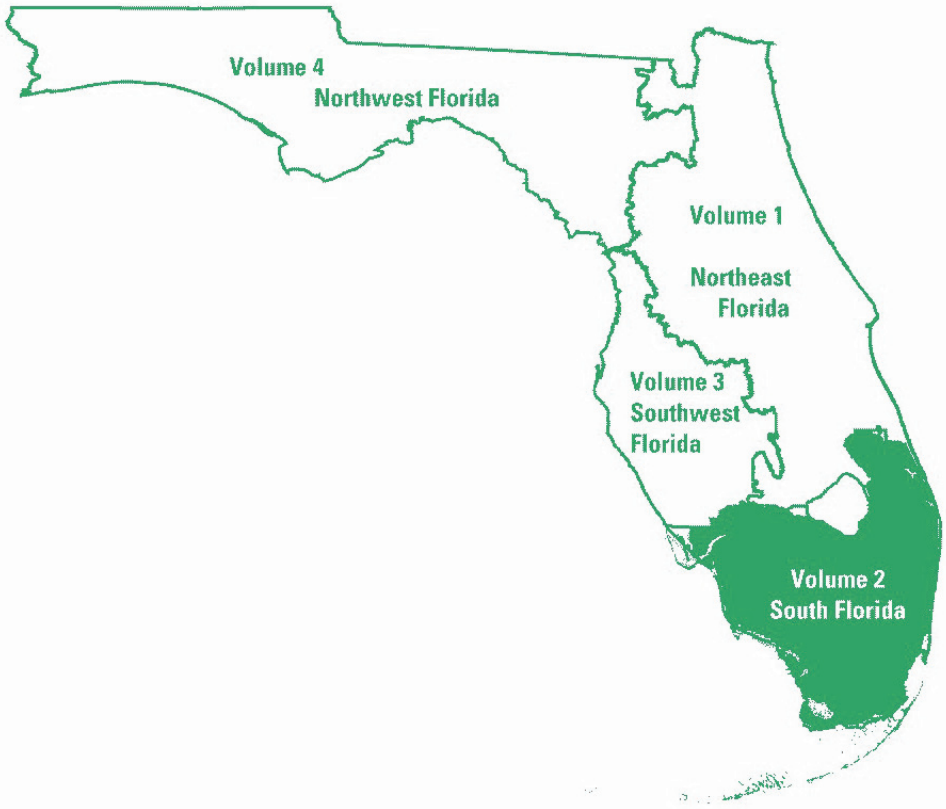
USGS
science for a changing world

Prepared in cooperation with the State of Florida and other cooperative agencies

Water Resources Data
Florida
Water Year 2005

Volume 2A.
South Florida Surface Water



Water-Data Report FL-05-2A

U.S. Department of the Interior
U.S. Geological Survey

Calendar for Water Year 2005

2004

October

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

November

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2005

January

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

February

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	18	20
21	22	23	24	25	26	27
28	29	30	31			

September

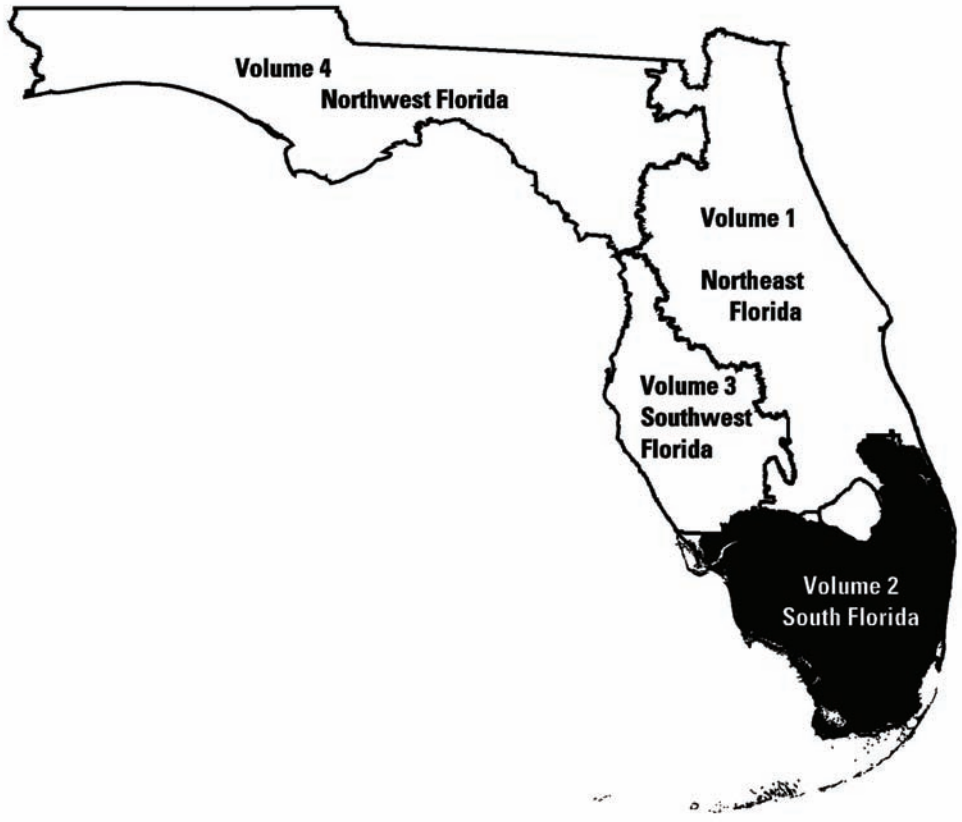
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Water Resources Data
Florida
Water Year 2005

Volume 2A. South Florida Surface Water

By C. Price, K. Overton

WATER-DATA REPORT FL-05-2A



Prepared in cooperation with the State of Florida and with other agencies

U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
Dirk Kempthorne, Secretary

U.S. Geological Survey
Mark Myers, Director

2006

U.S. Geological Survey-Florida Integrated Science Center, South Florida
3110 SW 9th Ave., Ft. Lauderdale, FL 33315

(954) 377-5900

Information about the USGS, Florida Integrated Science Center, is available on the Internet at http://fl.water.usgs.gov

Information about all USGS reports and products is available by calling 1-888-ASK-USGS or on the Internet via the World Wide Web at http://www.usgs.gov/

Additional earth science information is available by accessing the USGS home page at http://www.usgs.gov/

VOLUME 2A: SOUTH FLORIDA

PREFACE

This volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by state, local, and federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Florida are contained in four volumes. Figure 1 shows the area covered by Volume 2A.

Volume 1.	Northeast Florida
Volume 2.	South Florida
Volume 3.	Southwest Florida
Volume 4.	Northwest Florida

ACKNOWLEDGEMENT

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. This report was prepared for publication by the Hydrologic Records Section under the supervision of K. Overton, E. C. Price, and S. Prinos; and by the Hydrologic Studies Section under the supervision of Robert Renken and E. Patino. Sheila Guevara, Carolyn Price, Jose Agis, and Bruce Irvin, were the primary persons responsible for the compilation of the data report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data

Florida Integrated Science Center - South Florida

Jose Agis
Andres Alegria
Stephen Bean
Michael Byrne
Elizabeth Debiak
Eduardo Figueroa-Gibson
Jessica Flanigin
Sheila Guevara
Sara Hammermeister
Clinton Hittle
Bruce Irvin
Neil Keppie
Dennis Kluesner
Gene Krupp
Jacqueline Lima
Christian Lopez
Ernesto Mangual
Lee Massey
Drew Milewski
Michael Oliver
Keith Overton
Eduardo Patino
Shane Ploos
Carolyn Price
Scott Prinos
Rene Rodriguez
Lars Soderqvist
Rick Solis
Marc Stewart
Craig Thompson
Robert Valderrama
Rokhshan Wali
Jeffrey Woods
Mark Zucker

This report was prepared in cooperation with the State of Florida and with other agencies listed under COOPERATION on page 2.

Hydrologic data for south Florida are contained in two volumes

Volume 2A: Surface Water
Volume 2B: Ground Water

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	September 27, 2006	**Annual Report**

4. TITLE AND SUBTITLE

Water Resources Data Florida, Water Year 2005
Volume 2A: South Florida - Surface Water

5. FUNDING NUMBERS

6. AUTHOR(S)

C. Price, K. Overton

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

U.S. Geological Survey-Florida Integrated Science Center, South Florida
3110 S.W. 9th Avenue
Ft. Lauderdale, Florida 33315

8. PERFORMING ORGANIZATION REPORT NUMBER

USGS-WDR-FL-05-2A

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

U.S. Geological Survey-Florida Integrated Science Center, South Florida
3110 S.W. 9th Avenue
Ft. Lauderdale, Florida 33315

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

USGS-WDR-FL-05-2A

11. SUPPLEMENTARY NOTES

Prepared in cooperation with the State of Florida and other agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT

No restrictions on distribution: This report may be purchased from: National Technical Information Center, Springfield, VA 22161

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water resources data for 2005 water year in Florida consists of continuous or daily discharge for 429 streams, periodic discharge for 9 streams, continuous or daily stage for 218 streams, periodic stage for 5 stream, peak discharge for 28 streams, and peak stage for 28 streams, continuous or daily elevations for 15 lakes, periodic elevations for 23 lakes, continuous ground-water levels for 401 wells, periodic ground-water levels for 1,098 wells, quality of water data for 211 surface-water sites, and 208 wells.

The data for South Florida included continuous or daily discharge for 91 streams, continuous or daily stage for 62 streams, no peak stage discharge for streams, 1 continuous elevation for lake, continuous ground-water levels for 248 wells, periodic ground-water levels for 187 wells, water quality for 54 surface-water sites, and 121 wells.

These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Florida.

14. SUBJECT TERMS

***Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses, Elevations, Water wells.**

15. NUMBER OF PAGES

361

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	**Unclassified**	**Unclassified**	

NSN 7540-01-280-5500

Standard Form 298 (Rev. 2-8)
Prescribed by ANSI Std 239-18
298-102

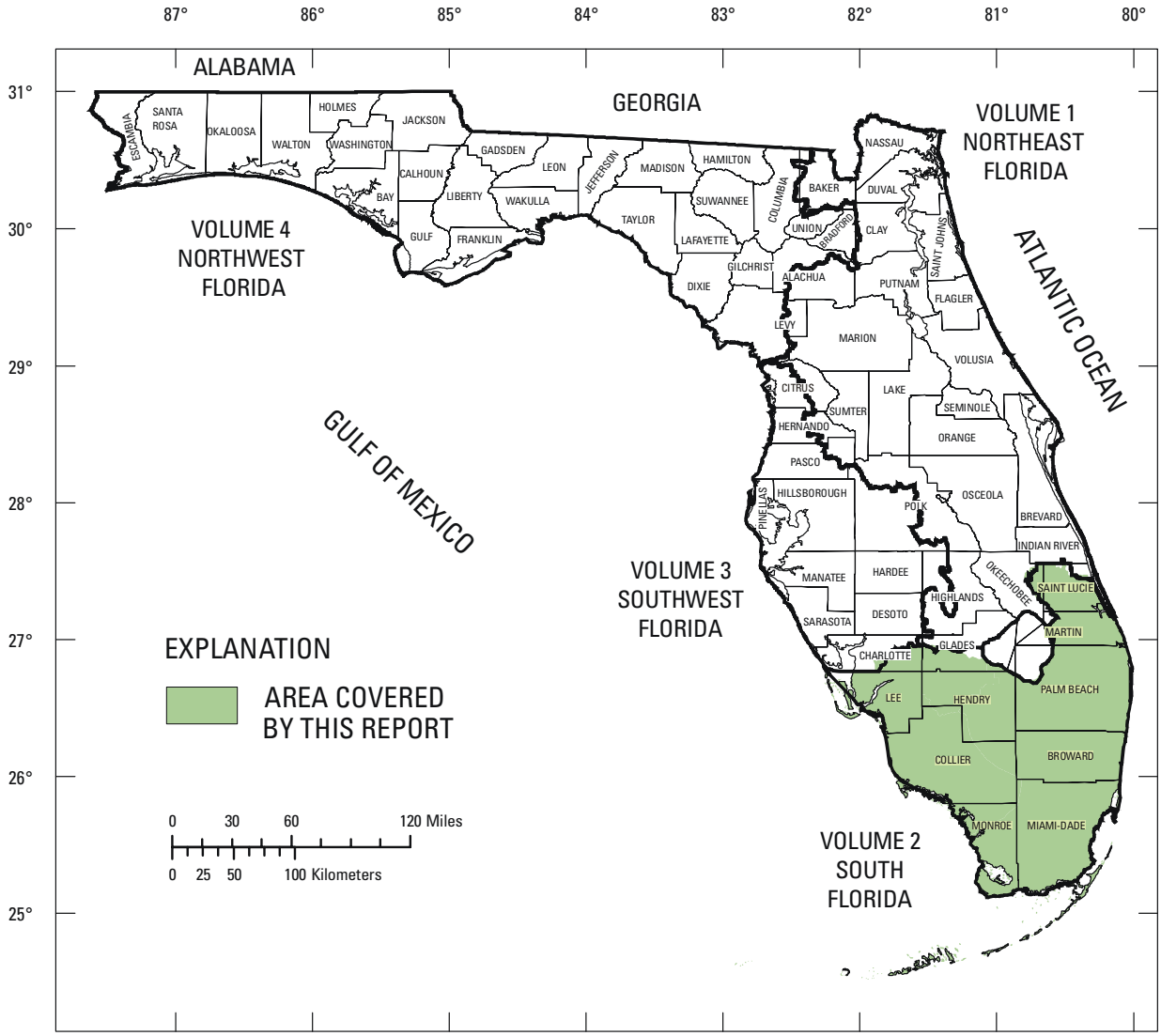


Figure 1. Geographic area covered by this report.

THIS PAGE LEFT INTENTIONALLY BLANK

VOLUME 2A: SOUTH FLORIDA

CONTENTS

VOLUME 2A: SOUTH FLORIDA

CONTENTS (continued)

VOLUME 2A: SOUTH FLORIDA

ILLUSTRATIONS

VOLUME 2A: SOUTH FLORIDA

ILLUSTRATIONS (continued)

VOLUME 2A: SOUTH FLORIDA

STREAM AND LAKE GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

The following list shows the surface water sites where streamflow, stage, lake elevation, or daily water quality data are collected. [Letters after station names designate type of data collected: (d) discharge, (e) elevation, (g) gage heights, (s) salinity, (t) temperature]

VOLUME 2A: SOUTH FLORIDA

STREAM AND LAKE GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--continued

STREAM AND LAKE GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--continued

VOLUME 2A: SOUTH FLORIDA

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water stage and discharge stations in South Florida have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Discontinued project stations with less than 3 years have not been included. Information regarding these stations may be obtained from the subdistrict office at the address given on the back side of the title page of this report. Drainage area is indeterminate for all of the stations listed below. [Letters after station names designate type of data published: (d) discharge, (e) elevation or gage heights, (g) gage heights, (q) water quality]

Station name	Station number	Period of record water years published
Airplane Prairie near Monroe, FL (g)	260345081053500	1979 - 1980
Angelfish Creek near Florida City, FL (g)	02290757	1971
Barnes Sound at Key Largo, FL (g)	02290784	1971
Barnes Sound near Florida City, FL (g)	02290760	1967 - 1968
Big Cypress Swamp at Everglades Parkway, near Sunniland, FL (d,g)	02288830	1970 - 1971
Big Cypress Swamp at Training Airport, near Miami, FL (d,g)	02288970	1970 - 1974
Big Cypress Swamp below Training Airport, near Miami, FL (g)	02288971	1970 - 1974
Big Cypress Swamp Pinelands near Monroe, FL (g)	255737081043200	1979 - 1980
Big Cypress Watershed at Everglades Pky, nr Big Cypress Indian Reservation, FL (d,g)	02289033	1970 - 1971
Billy Creek at Ft Myers, FL (g)	02293200	1944 - 1955
Biscayne Bay at Coconut Grove, Miami, FL (g) (formerly published under station number 02290755)	02290540	1963 - 1981
Biscayne Bay at Elliott Key, near Homestead, FL (g)	02290737	1967 - 1968
Biscayne Bay at Key Biscayne, near Miami Beach, FL (g) (formerly published under station number 02290753)	02290543	1964,1967, 1968
Biscayne Bay at North Miami, FL (g)	02290750	1963 - 1981
Biscayne Bay near Homestead, FL (g) (formerly published under station number 02290760)	02290732	1963 - 1981
Biscayne Bay at Ragged Key No. 5 near Florida City, FL (g)	02290705	1971
Biscayne Canal at Red Road, near Opa-Locka, FL (g)	02286320	1963 - 1979
Biscayne Canal at North Miami, FL (g)	02286330	1963
Biscayne Canal at S-28, near Miami, FL (d)	02286340	1962 - 1985
Black Creek near Richmond Heights, FL (g)	02290707	1971 - 1979
Black Creek Canal at S-21 near Goulds, FL (d,g)	02290710	1957 - 2004
Black Creek Canal below S-21 near Goulds, FL (g)	02290711	1971
Broad River near Everglades, FL (d,g) (period of record published in 1967 volume 2A)	02290880	1962 - 1965
C-1 Canal near Jupiter, FL (q)	265631080132500	1989 - 1998
C-2 Canal above S-4 near Deerfield Beach, FL (d,e)	02281490	1989 - 1993
C-2 Canal below S-4 near Deerfield Beach, FL (e)	02281491	1989 - 1993
Caloosahatchee Canal at Moore Haven, FL (d,g)	02292000	1938 - 2003
Caloosahatchee Canal at Ortona Lock near La Belle, FL (d,g)	02292480	1971 - 2003
Caloosahatchee Canal near Citrus Center, FL (d) (WSP 1304)	02292500	1934 - 1936
Camelot Canal at Control at Cape Coral, FL (g)	02293245	1987 - 1990
Camelot Canal below Control at Cape Coral, FL (g)	02293246	1987 - 1992
Canal 1 at Indiantown Road and 133 Way near Jupiter, FL (q)	265632080144200	1994 - 1998
Canal 60 at S-140 near Ft. Lauderdale, FL (d,g)	02286962	1970 - 1981
Canal 111 above S-197 near Florida City, FL (d,g)	251713080263300	1984
Canal 111 at Clv.5 between S-18C and S-197 nr Homestead., FL (e)	251823080294200	1984 - 1985
Canal 111 at U.S. Highway 1, near Florida City, FL (e)	02290780	1967 - 1969
Canal 111 below S-18-C near Florida City. FL (e)	02290770	1967 - 1969
C-7 Canal near Jupiter, FL (q)	265352080120400	1989 - 1998
C-18 Canal at G-92 near Jupiter, FL (q)	265437080103200	1989 - 1998
Canal C-18 near Jupiter, FL (d,g)	265218080144300	1980 - 1982
Canal M near Mangonia Park, FL (d,g)	02277900	1970 - 1977
Card Sound at Angelfish Creek near Florida City, FL (g)	02290756	1971
Card Sound at Model Land Canal, near Florida City, FL (g)	02290750	1967 - 1981
Card Sound Canal near Florida City, FL (d,g)	02290739	1972 - 1974
Cape Florida Channel near Key Biscayne, FL (g)	02290590	1970

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Period of record water years published
Ceasar Creek at Adam Key, near Florida City, FL (g)	02290738	1971
Charlotte Harbor at Bokeelia, FL (g)	02293340	1990 - 1993
Cocohatchee River Canal near Naples, FL (d,g)	02291400	1966
Cocohatchee River Canal near Naples Park, FL(d,g)	02291393	1969 - 1984
Comfort Canal at N.W. 29th Avenue, Miami, FL (g) (formerly published as South Fork Miami River at N.W. 29th Avenue)	02290520	1962 - 1970
Coral Gables Canal at Red Road, Coral Gables, FL (g)	02290560	1963 - 1970
Coral Gables Canal at Tamiami Canal, near Coral Gables, FL (d,g)(WSP 1905)	02290550	1960 - 1963
Coral Gables Canal near South Miami, FL (d,g)	02290580	1961 - 1966
Cypress Creek Canal at S-37A, near Pompano Beach, FL (d)	02282100	1964 - 1985
Cypress Creek near Jupiter, FL (d,g)	265816080110000	1980 - 1982
E. Tributary N. Fork Loxahatchee River nr Hobe Sound, FL (d,g)	270036080070500	1980 - 1981
El Rio Canal near Boca Raton, FL (d,g)	02281625	1970 - 1972
gage heights only		1973 - 1977
El Rio Canal, SW 18th Street, Boca Raton, FL (g)	261953080054900	1982 - 1985
Equalizing Canal 1 near Greenacres City, FL (g)	02281419	1970 - 1972
Equalizing Canal 1 near Delray Beach, FL (g)	02281425	1970 - 1977
Equalizing Canal 3 near Greenacres City, FL (g)	02281513	1970 - 1977
Equalizing Canal 3 near Delray Beach, FL (g)	02281532	1970 - 1972
Equalizing Canal 3 near Boca Raton, FL (g)	02281544	1970 - 1977
Everglades 1-128S near Boynton Beach, FL (g)	02281282	1974 - 1975
Everglades 1-141S near Loxahatchee, FL (g)	02281278	1974 - 1976
Everglades 1-142S near Delray Beach, FL (g)	02281291	1974 - 1976
Everglades 159 south of pump station 6 near Andytown, FL (g)	262300080263501	1977 - 1980
Everglades 160 south of pump station near Lake Harbor, FL (g)	261557080464301	1977 - 1980
Everglades 2B in C-111 Basin near Homestead, FL (g)	251855080283400	1986 - 2001
Everglades 201-NP, near Homestead, FL (g)	02290861	1975 - 1980
Everglades 202-NP, near Miami, FL (g)	02290862	1975 - 1980
Everglades 203-NP, near Homestead, FL (g) (formerly published as Everglades P-5S)	02290832	1974 - 1980
Everglades 204-NP near Homestead, FL (g) (formerly published as Everglades P-145	02290829	1974 - 1980
Everglades 205-NP, near Miami, FL (g)	02290868	1975 - 1980
Everglades 206-NP, near Miami, FL (g)	02290811	1975 - 1980
Everglades 207 near Homestead, FL (g) (formerly published as "Everglades P-37 near Homestead")	02290810	1963 - 1980
Everglades 2-111S near Andytown, FL (g)	02284642	1974 - 1981
Everglades 2-112S near Margate, FL (g)	02284644	1974 - 1976
Everglades 3-62S near Andytown, FL (g)	02286960	1974 - 1979
Everglades 3-63S near Andytown, FL (g)	02286998	1974 - 1979
Everglades 3-64S near Miramar, FL (g)	02286970	1974 - 1979
Everglades 3-65S near Miami, FL (g)	02289043	1974 - 1980
Everglades P-33 near Homestead, FL (g)	02290815	1963 - 1980
Everglades P-34 near Homestead, FL (g)	02290870	1963 - 1980
Everglades P-35 near Homestead, FL (g)	02290830	1963 - 1980
Everglades P-36 near Homestead, FL (g)	02290828	1969 - 1980
Everglades P-38 near Homestead, FL (g)	02290820	1963 - 1980
Everglades P-103 near Florida City, FL (g)	02290790	1967 - 1969
Everglades P-104 near Florida City, FL (g)	02290794	1967 - 1969
Fakahatchee Slough at Janes Road near Copeland, FL (d,g)	02291047	1970 - 1972
Faka Union Canal near Copeland, FL (d,g)	02291143	1970 - 1984
Faka Union Canal near Deep Lake, FL (d,g) (1984 discharge measurements only)	260342081312500	1978 - 1983
Faka Union Canal near Sunniland, FL (d,g)	261616081314400	1978 - 1984
Florida Bay at Flamingo, FL (g)	02290825	1963 - 1980
Florida City Canal near Florida City, FL (g)	02290735	1963 - 1967

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Period of record water years published
Garden Cove near Key Largo, FL (g)	02290786	1967 - 1968
Gator Hook Strand near Ochopee, FL (g)	254724081111300	1979 - 1980
Gator Slough at U.S. 41 near Ft. Myers, FL (d,g)	264437081550100	1973 - 2004
Golden Gate Canal at Naples, FL (d,g)	02291300	1965 - 1984
Golden Gate Canal near Naples, FL (d,g)	261148081401700	1978 - 1984
Golden Gate Canal near Sunniland, FL (d,g)	261642081334200	1978 - 1984
Gordon River at Naples, FL (g)	02291280	1972 - 1984
Goulds Canal near Goulds, FL (g) (formerly published under station number 02290715)	02290711	1963 - 1967
Grand Canal near Florida City, FL (d,g)	02290734	1972 - 1974
Gum Slough near Monroe, FL (g)	254230081022000	1979 - 1980
Harney River near Homestead, FL (d,g) (gage heights only 1968 - 1969)	02290860	1960 - 1967
Henderson Creek Canal near Naples, FL (d,g)	02291270	1968 - 1984
Henry Creek at Henry Creek Lock near Sherman, FL, (d,s) (This station was transferred to the Altamonte Springs Office)	02275705	1993 - 1995
Hillsboro Canal at S-39, near Deerfield Beach, FL (g)	02281300	1957 - 1967
Hillsboro Canal in Cons. Area No. 1 at S-6 nr Shawano, FL (g)	02281201	1963 - 1968
Hillsboro Canal near Deerfield Beach, FL (d,g)	02281500	1940 - 1991
Hillsboro Canal below Deerfield Locks, Deerfield Beach, FL (g)	02281501	1963 - 1991
Hillsboro River at Deerfield Beach, FL (g)	02281650	1968 - 1978
Hobe Groves Ditch, near Jupiter, FL (d,g)	265907080103000	1980 - 1982
Hollywood Canal at Dania, FL (d,g)	02286150	1962 - 1967
Indian River Lagoon at Sewalls Pt., Stuart, FL(g,s,t)	02253800	1997- 2003
Intracoastal Waterway at Barnes Point, near Florida City, FL (g)	02290762	1971
Intracoastal Waterway at Blue Heron Blvd. at Riveria, Beach, FL (g)	02277960	1971 - 1977
Intracoastal Waterway at Delray Beach, FL (g)	02279520	1971 - 1973
Intracoastal Waterway at Donald Ross Road, nr Juno Beach, FL (g)	02277730	1971 - 1973
Intracoastal Waterway at Golden Beach, FL(g)	02281670	1970 - 1979
Intracoastal Waterway at Hollywood, FL (g)	02286160	1968 - 1978
Intracoastal Waterway at Lauderdale-by-the Sea, FL (g)	02282300	1968 - 1978
Intracoastal Waterway at Port Everglades, at Hollywood, FL (g)	02286143	1968 - 1978
Intracoastal Waterway at Southern Blvd. at Palm Beach, FL (g)	02277994	1971 - 1973
Intracoastal Waterway at SR 706 at Jupiter, FL (g)	02277738	1980 - 1981,1989 - 1992
Intracoastal Waterway at SR 707 at Jupiter, FL (g)	02277747	1980 - 1981,1989 - 1992
L-28 Interceptor Canal South at Collier border, FL (d,g)	260823080524100	1997 - 1999
L-67A at Conservation Area 3A near Coopertown, FL (g)	255447080350200	1994 - 1996
L-67C at Conservation Area 3B near Coopertown, FL (g)	255420080340500	1994 - 1996
Lateral 47 Canal at Boca Raton, FL (g)	02281468	1989 - 1991
Lateral Canal at Seminole Road near Loxahatchee, FL (g)	02278698	1973 - 1977
Lateral Canal in Acme Drainage District, near Loxahatchee, FL (g)	02281297	1973 - 1977
Lateral Canal in Loxahatchee Groves near Loxahatchee, FL (g)	02278732	1973 - 1977
Lateral Canal on 130th Ave. North, near Jupiter, FL (g) (formerly published as Lateral Canal on Hynie Lane Road)	02277470	1973 - 1977
Lateral Canal on Jupiter Farms Road, near Jupiter, FL (g)	02277480	1973 - 1977
Levee 3 Canal near Clewiston, FL (d,g)	02289030	1970 - 1990
	Revised 1978-90 in WRD-2A-96	
Levee 8 Canal at West Palm Beach Canal, near Loxahatchee, FL (d,g)	02278550	1957 - 2004
Levee 28 Tieback Canal, near Andytown, FL (g)	02289027	1992 - 2004
Levee 30 near Miami Springs, FL	02289100	1960 - 1964
Levee 31W Canal at S-332, near Florida City, FL (d,g)	252523080352500	1983 - 1998
Levee 67 Extended Canal near Richmond Heights, FL (g)	02290827	1971 - 1980
Levee 67 Extended Canal at South End near Coopertown, FL (g)	253735080402100	1977 - 1980
Little River Canal at Palm Avenue, Hialeah, FL (g)	02286350	1963 - 1979
Little River Canal at S-27, at Miami, FL (d,g)	02286380	1960 - 1969
Lostmans River near Everglades, FL (d,g) (period of record published in 1967 volume 2A)	02290920	1962 - 1965

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Period of record water years published
Loxahatchee River at Indiantown Road near Jupiter FL (q)	265613080100700	1989 - 1998
Loxahatchee River at Sunshine State Pkwy., nr Jupiter, FL (d,g)	265713080095600	1980 - 1982
Loxahatchee River near Hobe Sound, FL (g)	265916080083500	1977 - 1981
M-1 Canal at Canal M near Royal Palm Beach, FL (g)	02278760	1975 - 1977
M-2 Canal in Royal Palm Beach Colony near Loxahatchee, FL (g)	02277750	1973 - 1977
Mackinac Canal at Cape Coral, FL (d,g)	02293216	1987 - 1996
Manatee Bay at Canal 111, near Florida City, FL (g)	02290782	1967 - 1969
Main Lake Outlet near Ft Myers, FL (g)	02291736	1988
Matlacha Pass at Indian Field Island near Matlacha, FL (g)	02293342	1991 - 1993
Matlacha Pass at Matlacha, FL (g,q)	02293343	1989 - 1997
Matlacha Pass at Parrots Perch near St James City, FL (g)	02293280	1989 - 1997
Miami Canal above S-8, near Lake Harbor, FL (g) (formerly Miami Canal at S-8 (auxiliary) 02286700)	02286699	1962 - 1968
Miami Canal above S354 and S-3, at Lake Harbor, FL (g) (Prior to October 1988, published as Miami Canal at HGS-3 and S-3 at Lake Harbor)	02286399	1958 - 1998
Miami Canal at broken dam, near Miami, FL (d,g)	02287400	1960 - 1968
Miami Canal at N.W. 27th Avenue, Miami, FL (g)	02290510	1963 - 1979
Miami Canal at Palmetto Bypass near Hialeah, FL (d,g)	02288200	1960 - 1981
Miami Canal at Pennsuco near Miami, FL (d,g)	02287500	1963 - 1979
Miami River at Brickell Ave., Miami, FL (d,g)	02290530	1961 - 1966
Middle River Canal at U.S. Highway 1, near Ft. Lauderdale, FL (d,g)	02282800	1964 - 1967
Mid. Tributary N. Fork Loxahatchee R. nr Hobe Sound, FL (d,g)	270028080074200	1980 - 1981
Military Canal near Homestead, FL (g)	02290720	1963 - 1969
Model Land Canal near Florida City, FL (g)	02290740	1963 - 1969
Model Land Canal below ML-2, near Florida City, FL (g) (formerly Model Land Canal at control "auxillary" 02290745)	02290746	1963 - 1968
Monreve Ranch drainage Canal near Stuart FL (d,g) (formerly published under station number 02276800)	02276984	1959 - 1973
Mowry Canal near Homestead, FL (d,g)	02290725	1970 - 1989
	gage heights only published	1963 - 1970
New River at Ft. Lauderdale, FL (d,g)	02286140	1963 - 1967
North Canal near Homestead, FL (g)	02290730	1963 - 1968
North Line Canal near Miami Springs, FL (d,g)	02289900	1960 - 1963
North New River Canal at S-2 and S-351, near South Bay, FL (d,g)	02283498	1957 - 2003
North New River Canal at S-7 at Terrytown, FL (d,g)	02284300	1960 - 2003
North New River Canal below S-34, near Ft. Lauderdale, FL (d,g)	02284700	1956 - 1967
North New River Canal near Ft. Lauderdale, FL (d,g)	02285000	1939 - 1992
North New River Canal below control near Ft. Lauderdale, FL (g) (formerly published as 02285000 North New River Canal (auxilary))	02285001	1962 - 1992
N.W. Wellfield Canal at Conserv. Area No. 3 nr Pennsuco, FL (d,g)	02289096	1991 - 1996
N.W. Wellfield Canal near Pennsuco, FL (d,g)	02288010	1991 - 1996
Okaloacoochee Slough near Sunniland, FL (d,g)	261205081200000	1979 - 1980
Pine Channel near Big Pine, FL (g)	244123081225301	1976
Pinecrest Hammocks near Monroe, FL (e)	254635080541500	1979 - 1980
Plantation Road Canal at S-33, near Fort Lauderdale, FL (d,g)	02283200	1962 - 2004
Pompano Canal at Pompano Beach, FL (d) (Prior to October 1948, published as Cypress Creek Canal at Pompano)	02282000	1964 - 1969
Pompano Canal at S-38, near Pompano Beach, FL (d)	02281700	1962 - 1967
Roberts Lake Slough near Monroe, FL (d)	02290950	1973 - 1979
	gage heights only published	1980
Rogers River near Everglades, FL (d) (period of record published in 1967 volume 2A)	02290900	1962 - 1965
Sanibel River at Sanibel, FL (e)	02293250	1972 - 1977
Savannahs Drainage Canal at Port St Lucie, FL (d,g)	02276568	1976 - 1977
Shark River near Homestead, FL (d,g) (gage heights only 1967 - 1969)	02290850	1960 - 1966

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Period of record water years published
Site 15 nr L-39 in Conserv. Area No. 2A near Shawano, FL (g)	262400080250001	1991 - 1997
S-150 at Terrytown, FL (d,g)	262007080321500	1990 - 2004
Site 34 near L-30 in Conservation Area 3B, near Miami, FL (g)	255215080291000	1993 - 1997
Six Mile Cypress Creek South near Ft. Myers, FL (d)	02291670	1988 - 1990
San Carlos Bay at St. James, City, FL (g)	02293288	1991, 1992
Snake Creek Canal at S-29, at North Miami Beach, FL (d)	02286300	1959 - 1985
Snake Creek Canal at S-30, near Hialeah, FL (d)	02286180	1963 - 1967
Snapper Creek Canal at Miller Drive, near South Miami, FL (g)	02290610	1963 - 1981
(formerly published under station number 02290600)		
Snapper Creek Canal near Coral Gables, FL (d)	02290600	1960 - 1967
gage heights only published		1968 - 1980
Snapper Creek Canal at S-22, near South Miami, FL (d)	02290700	1959 - 1985
South Fork Miami River at N.W. 29th Avenue, Miami, FL (g)	See Comfort Canal at N.W. 29th Avenue	
South New River Canal in Conservation Area No. 3 at S-9, FL (g)	02285399	1963 - 1970
South New River Canal at S-9 near Davie, FL (d)	02285400	1958 - 1970
South New River Canal at S-13, near Davie, FL (d,g,)	02286100	1957 - 2004
South New River Canal at U.S. Highway 27 near Davie, FL (g)	02285410	1975
Southwest Fork Loxahatchee River at Jupiter, FL (g)	265635080071900	1980 - 1981
Southwest Fork Loxahatchee River at S-46, FL (d)	02277700	1959 - 1965
Stilt City Tidal Station at Indian Field, nr Matlacha, FL (g)	263935082052501	1990 - 1991
St Lucie Canal at Lock, near Stuart, FL (d,g)	02277000	1952 - 2003
Tamiami Canal at 40-mile bend, near Miami, FL (g)	02288990	1961 - 1980
(formerly published as Tamiami Canal at 40-mile bend (auxiliary) : (1960 to 1963 water years published under 02289000, Tamiami Canal Outlets, Miami to Monroe)		
Tamiami Canal at bridge 77, near Carnestown, FL (g)	02288780	1962 - 1980
(formerly published as 02288800 Tamiami Canal at bridge 77 (auxiliary))		
Tamiami Canal at bridge 83, near Ochopee, FL (g)	255327081161300	1979 - 1980
Tamiami Canal at bridge 96, at Monroe FL (g) (twice monthly)	02288860	1962 - 1980
(formerly published as 02288900 Tamiami Canal at bridge 96 (auxiliary))		
Tamiami Canal at bridge 115, near Miami, FL (g) (twice monthly)	02288945	1962 - 1980
(formerly published as 02288900 Tamiami Canal at bridge 115 (auxiliary))		
Tamiami Canal at Red Road, Miami, FL (g)	02290500	1963 - 1980
Tamiami Canal at S-333 near Miami, FL (d,g)	02289050	1978 - 2004
Tamiami Canal at S-355A, near Miami, FL (g)	254540080361500	2000 - 2003
Tamiami Canal at S-355B, near Miami, FL (g)	254540080325700	1999 - 2003
Tamiami Canal east of levee 30, near Miami, FL (g)	02289250	1963 - 1980
(formerly published as 02289060 Tamiami east of levee 30 (auxiliary))		
Tamiami Canal Outlets, Miami to Monroe, FL (d)	02289000	1940 - 1963
Tamiami Canal west of levee 30, near Miami, FL (g) (twice monthly)	02289090	1963 - 1980
(formerly published as 02289060 Tamiami Canal west of levee 30 (auxiliary))		
Taylor Creek at HGS-6 near Okeechobee, FL (d)	02277503	1992 - 1995
(This station was transferred to the Altamonte Springs Office)		
Taylor Slough at Context Road near Homestead, FL (d)	252948080352700	1976 - 1980
Taylor Slough at Craighead Lake near Homestead, FL (g)	251148080410300	1979 - 1980
Taylor Slough at Royal Palm near Homestead, FL (g)	02290803	1970 - 1980
Taylor Slough near Homestead, FL (d)	02290800	1960 - 1985
Townsend Canal near Alva, FL (d,g)	02292780	1975 - 1996
Turnpike Borrow Canal above S-46 near Jupiter, FL (q)	26555208008500	1989 - 1998
U.S. Highway 441 Canal near Deerfiled Beach, FL (g)	02281435	1968 - 1969
Warner Creek near Jensen Beach, FL (d)	02277107	1976 - 1977
West Rolling Oaks Feeder Canal Near Davie, FL (g)	02285420	1975
West Palm Beach Canal at West Palm Beach, FL (d,g)	02279000	1939 - 2004
West Palm Beach Canal below S-5A-E near Loxahatchee, FL (d,g)	02278600	1955 - 2004

VOLUME 2A: SOUTH FLORIDA

INTRODUCTION

The U.S. Geological Survey (USGS), in cooperation with State, County, and other Federal agencies, obtains a large amount of data pertaining to the water resources of Florida each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the state. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data - Florida, Volume 2A: South Florida Surface Water and Volume 2B: South Florida Ground Water".

This report series includes records of stage, discharge, and water quality for streams; stage, contents, and water quality for lakes; and ground-water levels, contents, and water quality of ground-water wells. The data for South Florida include continuous or daily discharge for 91 streams, continuous or daily stage for 62 streams (including stage published at discharge and stage only sites), continuous elevations for 1 lake, continuous ground-water levels for 248 wells, periodic ground-water levels for 187 wells, and quality-of-water data for 54 surface-water sites and 121 wells.

Publication of this series of annual reports for Florida began with the 1961 water year, with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. For the 1975 water year, the report format was modified to one volume presenting data on quantities of surface water, quality of surface and ground water, and ground-water levels. For the 1977 water year, the report format was modified to a two volume set: one volume presenting data on quantity as well as quality of surface water and one volume presenting data on water levels along with quality of ground water.

Prior to introduction of this series and for several concurrent water years, water-resources data for Florida were published in USGS Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage through September 1960 were published annually under the title "Surface-Water Supply of the United States". For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States", and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States". The aforementioned Water-Supply Papers may be consulted in the federal repository libraries of the principal cities of the United States and may be purchased from the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, CO 80115 (telephone: 888-ASK-USGS).

Similar reports are published annually by the USGS for all of the United States. These official USGS reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-xx-2B," where xx represents the current water year. For archiving and general distribution, reports for the 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or microfiche by the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Additional information on the National Technical Information Service may be accessed from *http://www.ntis.gov/*. Additional information, including current prices, for ordering specific reports may be obtained from the Office Chief at the address given on the back of the title page or by telephone (954) 377-5900.

COOPERATION

The USGS and various Federal, State, and local organizations have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data presented in this report through cooperative agreement with the USGS are:

Broward County
City of Boca Raton
City of Cape Coral
City of Hallandale Beach
City of Hollywood
Everglades National Park
Florida Keys Aqueduct Authority
Lee County
Miami-Dade County Department of Environmental Resource Management
Palm Beach County
Seminole Tribe of Florida
South Florida Water Management District
St. Lucie County
U.S. Army Corps of Engineers
U.S. Fish and Wildlife Service

Organizations that provided data are acknowledged in station manuscripts.

VOLUME 2A: SOUTH FLORIDA

SUMMARY OF HYDROLOGIC CONDITIONS

This section summarizes important hydrologic events that occurred during the 2005 water year (October 1, 2004 to September 30, 2005) as well as significant natural and water-management responses to these events. Figure 2 provides a frame of reference for some of the major land areas of hydrologic significance mentioned in the summary.

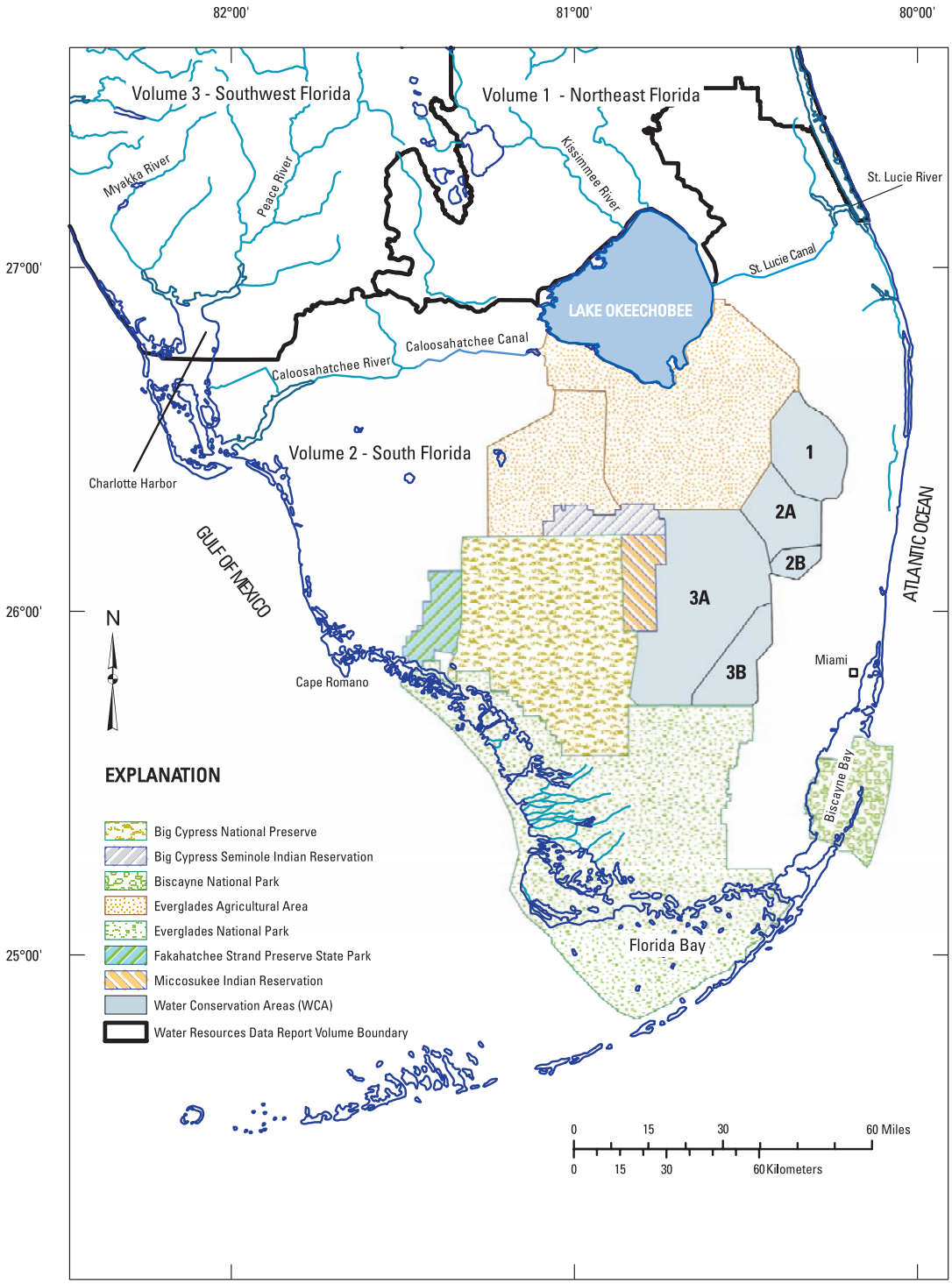


Figure 2. South Florida areas of hydrologic significance.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

During the 2005 water year, the U.S. Geological Survey (USGS) Florida Integrated Science Center — South Florida monitored 86 continuous discharge stations, 54 continuous stage stations, and 1 lake, and also collected water-quality data at 39 miscellaneous sites in cooperation with various local, State, and Federal agencies.

Data from selected surface water stations

Six surface water discharge stations and six stage-only sites were selected to depict general surface-water conditions in selected areas for the 2005 water year. St. Lucie Canal at Lake Okeechobee (02276870) (figure 3) is located just downstream of structure S-308, which controls water releases into and from Lake Okeechobee to the St. Lucie Canal. Loxahatchee River Near Jupiter (02277600) (figure 4) monitors discharges in the Loxahatchee River near Lainhart Dam. Miami Canal at S-354 and S-3 (02286400) (figure 5) is located just downstream of structure S-354, which controls water releases into and out of Lake Okeechobee through the Miami Canal. Miami Canal at S-8 (02286700) (figure 6) is located just upstream of pump station S-8, which controls water in the Miami Canal released from the Everglades Agricultural Area (EAA) to Water Conservation Area (WCA) 3A. Miami Canal at NW 36 Street (02288600) (figure 7) is located just upstream of structure S-26 — a salinity control structure that controls water releases from the Miami Canal into the Miami River and ultimately to tide. The Tamiami Canal Outlets, Levee 67 to 40 Mile Bend (02289040) (figure 8) is a combination of flow through structures S-12 A, B, C, and D located along the Tamiami Trail. Together, these structures help control water flow from WCA 3A into Everglades National Park. Northeast Shark River Slough No. 2 (254315080331500) (figure 10) is located 2.7 miles south of the Tamiami Trail and monitors water levels in this area. The last five stations monitor water levels in their respective WCAs: Site 71 in Water Conservation Area No. 3B (255250080335001) (figure 11), Site 99 near L-35A in Water Conservation Area No. 2B (260810080222001) (figure 12), Site 63 in Water Conservation Area No. 3A (261117080315201) (figure 13), Site 17 near L-38, Water Conservation Area No. 2A (262240080258001) (figure 14), and Site 7 in Water Conservation Area No. 1 (263180080205001) (figure 15). Two hydrographs are shown for each discharge site. The upper graph (A) is the 2005 water year monthly mean discharge or gage height compared to the maximum and minimum monthly mean discharge or gage height for the period of record through the 2004 water year, and monthly mean discharge or gage height for the entire period of record through the 2005 water year. The lower graph (B) is the monthly mean discharge or gage height for the 1996-2005 water years. The data tables displayed in this publication do not have monthly mean discharge and/or gage height figures available if data for one or more days in a month are missing. Monthly mean gage height or discharge is deleted in these hydrographs if five or more days of missing record in a month exist.

Rainfall

Rainfall data collected and evaluated by the South Florida Water Management District (SFWMD) during the 2005 water year provide a framework for understanding monthly water-level variations (South Florida Water Management District, 2004, 2005). The southern Florida rainfall data provided by the SFWMD are subdivided into 16 geographic areas. Monthly rainfall totals from individual stations within each area are averaged and compared to the historical total monthly rainfall averages. The percentage of average monthly rainfall is then computed for each of the 16 geographic areas. This percentage is used throughout the discussion of surface-water conditions for the 2005 water year. The SFWMD also computes and provides the average rainfall combined from all 16 geographic areas. This statistic is also used throughout the discussion. An example of this rainfall analysis is presented in figure 3.

For the purposes of this report the following terms are used in relation to the percent of average rainfall computed by the SFWMD: "extremely lower than normal" (less than 30 percent), "well below normal" (30 to 59 percent), "slightly below normal" (between 60 and 89 percent), "normal" (90 to 149 percent), "slightly above normal" (150 to 199 percent), "well above normal" (200 to 300 percent), "extremely above normal" (greater than 300 percent).

Surface-water conditions during the 2005 Water Year

Rainfall throughout southern Florida in October was generally well below to slightly below normal except for eastern Miami-Dade County where it was about normal. Across southern Florida rainfall averaged about 2 inches, which is only about half of the 3.8 in. normally occurring during this month. Despite the low rain fall, well above average discharges were recorded through S-308 and the Tamiami Canal outlets. The high discharges through the Tamiami outlets correspond to the high water level at Site 63 in WCA No. 3A that was caused by Hurricane Jeane that had occurred in September 2004. Water levels in WCA No. 3B were actually below average for this month. Water levels in WCA 2A was well above average while the other WCAs and Northeast Shark River Slough were about average. Discharges at the Miami Canal stations were around average despite the below normal rainfall.

On average, in November, rainfall was only about 0.7 in. throughout southern Florida. This was less than a third of the normal amount of rainfall usually received (2.7 in.) Distribution of rainfall varied from well below normal to extremely lower than normal throughout most of southern Florida. The exception was Everglades National Park where rainfall was only slightly below normal. All the WCA and Northeast Shark River Slough water levels began to decline except for WCA No. 2B and No. 3B which remained nearly steady. Discharges declined (or remained at zero) at all stations.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

Unusually dry conditions persisted in December throughout all of southern Florida except the southwestern coast and the Kissimmee drainage basin areas where rainfall was normal. Total rainfall received was about 1.3 in., which was only about 70% of the normal rainfall (1.9 in.). Rainfall was extremely lower than normal in eastern Miami-Dade and Palm Beach Counties. As expected discharges at all stations continued to decline or remain at zero except for Miami Canal at S-354 which recorded releases from Lake Okeechobee down the Miami Canal into the EAA. All WCA water levels continued to decline and were at or below the average monthly mean. Water levels in Northeast Shark River Slough remained slightly above average.

In southern Florida rainfall continued to be well below normal during January. Across southern Florida rainfall averaged about 1 in. which is less than half the normal amount of rainfall (2.3 in). As the month before, discharges continued to drop or remain zero, including discharges from Lake Okeechobee through S-354. The last Tamiami Trail structure to close, S-12 D was closed by the second week of the month and all S-12 structures remained shut until the last day of March. Water levels in the Water Conservation Areas and Northeast Shark River Slough continued to decline and fall below the average monthly means except for WCA No. 2B where water levels remained consistent and slightly above average.

There was little respite for most of southern Florida in February. In some areas the conditions worsened. Rainfall was extremely lower than normal in the water conservation areas, Everglades National Park, Big Cypress National Preserve, the Florida Keys, and eastern Broward and Miami-Dade Counties. Rainfall was well below to slightly below normal in the southwestern Florida coastal area, the Everglades Agricultural Areas, and Martin, Palm Beach, and St. Lucie Counties. Only near Lake Okeechobee, the Kissimmee drainage basin, and the eastern Caloosahatchee drainage basin was rainfall normal to slightly above normal. Average southern Florida rainfall was 1.6 in., only 73 percent of normal (2.2 in.). Water was released from Lake Okeechobee to the EAA through S-354 and minimal amounts were released through S-308. No water was moved through the Miami Canal at S-8 or S-26 (Miami Canal at 36 St.). Loxahatchee River near Jupiter obtained its lowest monthly average in February and all the WCAs and Northeast Shark River Slough continued to decline with WCA No. 2A and WCA No. 1 obtaining their lowest monthly averages for the 2005 water year.

March brought a welcome change to southern Florida in the form of rainfall that was normal or greater than normal in all areas. Rainfall across southern Florida averaged about 5.4 in., slightly less than double the normal amount of rainfall. Rainfall was greatest near Lake Okeechobee, the Caloosahatchee drainage basin, the Everglades agricultural areas, the southwestern coast of Florida, and Water Conservation Areas 1 and 2. It was slightly above normal in the Kissimmee drainage basin, Broward, Martin, Palm Beach, and St. Lucie Counties, and the Big Cypress National Preserve. In response to the heavy rain, WCA No. 2A and 1 began to increase water level. All other areas except for WCA No. 2B declined just slightly, while WCA No. 2B continued its steady decline in water level. Loxahatchee River nr Jupiter rebounded sharply and water was moved through the Miami Canal increasing discharges through S-26 to tide and S-8 to WCA 3A. Discharge from Lake Okeechobee through S-354 and S-308 were less than the previous month.

Rainfall in April generally varied spatially from normal to slightly below normal. The exception was in southeastern Florida in eastern Palm Beach and Broward Counties, where rainfall was well below normal. Averaged across southern Florida about 2.3 in. of rainfall was received, which is nearly normal for this month of the year. Tamiami structure S-12D was opened the last day of March and remained open the rest of the year. The other structures were not opened until the middle of June. Discharges in the Loxahatchee River decreased this month, although they remained slightly above average for April. Average discharge decreased sharply through S-8 from the previous month but increased through S-26 to tide. Discharges from Lake Okeechobee through S-308 and S-354 increased moderately from the previous month. Water levels continued to increase to average levels in WCA No. 2A and WCA No. 1. In WCA No. 3B and 2B, water levels continued their steady decrease. WCA No. 3A and Northeast Shark River Slough rose slightly from their lowest averages of the 2005 WY.

Rainfall in May was similar to that experienced in April. Most of southern Florida received either normal or slightly lower than normal rainfall. The exceptions were Everglades National Park where rainfall was well below normal and the lower Kissimmee drainage basin where it was slightly greater than normal. Averaged across southern Florida, about 4.7 in. of rainfall was received, which is nearly normal for this month of the year, WCAs No. 1 and 3B both declined and ended up almost exactly at the monthly average for the period of record. The other areas water level's rose slightly or remained steady. Discharges from S-354 declined from the highest monthly average the month before, and continued to do so for the rest of the water year, while discharges from Lake Okeechobee through S-308 varied only slightly from the previous month. Due to the lower rainfall, discharges in the Loxahatchee River continued to decline, but were still above the mean monthly average. This month, discharges through S-8 increased moderately and discharges through S-26 decreased.

June brought about 14 inches of rainfall to southern Florida. This is nearly double the amount normally received (8.0 in.). This rainfall varied spatially, from slightly above to well above normal throughout all of southern Florida, to close to normal in Everglades National Park, the lower Kissimmee drainage basin, and Water Conservation Areas 1 and 2. In response to the excess rain, discharges through S-8 nearly reached the period of record high monthly mean and discharges at the other stations responded accordingly except for S-308 which remained steady. All Tamiami S-12 structures were opened by the end of the month. All water levels in the WCAs and Northeast Shark River Slough rose due the high amount of rain received in South Florida. All water levels were above the mean monthly average for this month.

Average rainfall received in southern Florida in July was 6.5 in., which is 93 percent of normal (7.0 in.). Distribution of this rainfall was relatively even, resulting in most areas receiving either normal or slightly lower than normal rainfall. As rainfall was less than the month before, discharges at most of the stations decreased except for the S-12 structures now that all structures were open for the entire month. Discharges from Lake Okeechobee through S-354 were minimal for the rest of the water year (data is not available for S-308). All the WCAs and Northeast Shark River Slough continued to rise with WCA No. 2A, 3A, 2B and 3B recording period of record high monthly means despite the decreasing rain.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

Average August rainfall was similar to July rainfall in that it was about 7 in. which is about 95 percent of normal (7.4 in.) for this month of the year. Again spatial distribution of this rainfall was relatively even, with the exceptions of the Florida Keys, where rainfall was well above normal for the month, and the path of Hurricane Katrina. Hurricane Katrina struck southern Florida near the border of Miami-Dade and Broward Counties as a category 1 hurricane on August 26, 2005 and caused intense localized flooding in Miami-Dade County. The Tamiami Canal Outlets continued to rise slightly for the month while all other discharge stations recorded decreased average monthly flow from July. Discharges from Lake Okeechobee through S-308 were above the mean monthly value but there is no way to compare to the month before. Northeast Shark River Slough continued to rise for the month, with a large rise occurring during the time of Hurricane Katrina while water levels in all the WCAs decreased from the high levels the month before.

Rainfall was generally slightly lower than normal in southern Florida, except for eastern Miami-Dade and Palm Beach Counties, the Florida Keys, Big Cypress National Preserve, and Water Conservation Area 3, where rainfall was about normal, and in the vicinity of Lake Okeechobee, where rainfall was well below normal. For the southern Florida area rainfall averaged 5.4 in., which is about 80 percent of normal (6.7 in). Discharge patterns varied among the different stations. Discharge down the Miami Canal at NW 36st and across Tamiami Trail decreased while discharges further north increased through S-8 to WCA 3A and down the Loxahatchee River. Minimal discharges from Lake Okeechobee were recorded at S-308 and S-354. Water levels in the WCAs remained steady or decreased except for at WCA No. 3B which remained near the monthly period of record high water level. Levels in Northeast Shark River Slough continued to rise and this station recorded its highest monthly mean for the period of record for September.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

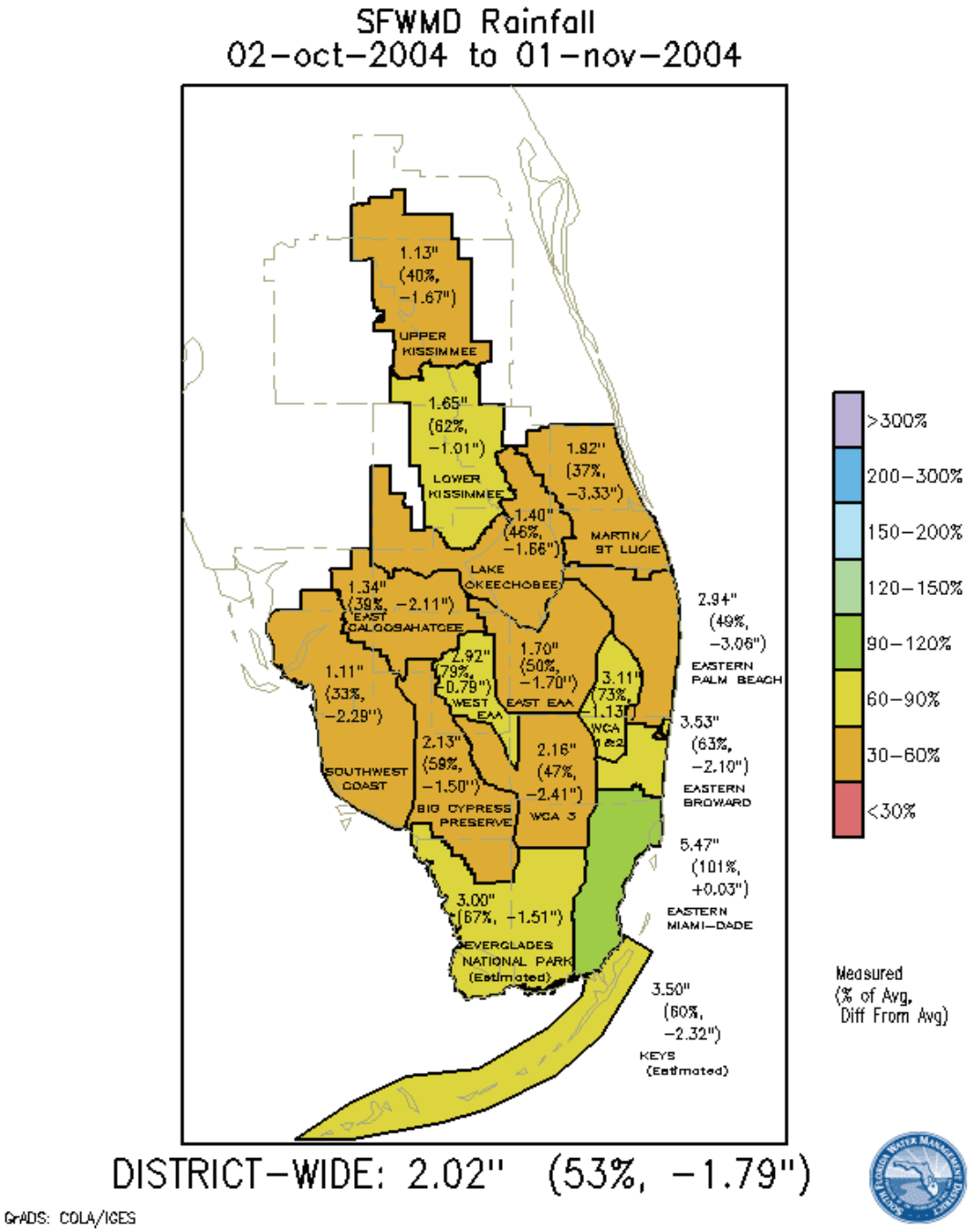


Figure 3. Example of a monthly rainfall map published by the South Florida Water management District (2004)

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

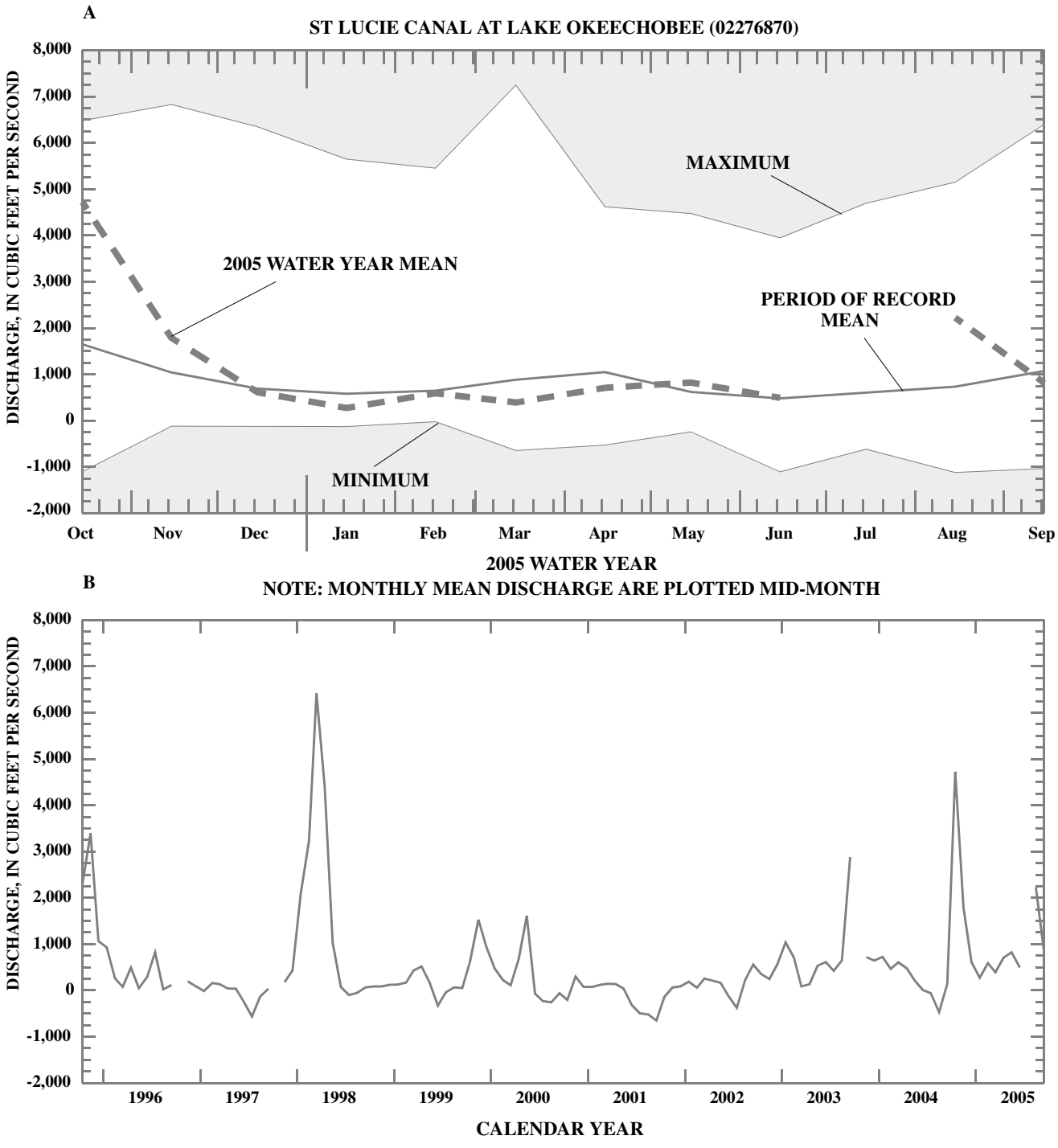


Figure 4. St. Lucie Canal at Lake Okeechobee (A) 2005 monthly mean discharge compared to the maximum and minimum monthly mean discharge for the period of record through the 2004 water year, and monthly mean discharge for the entire period of record; (B) the monthly mean discharge for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

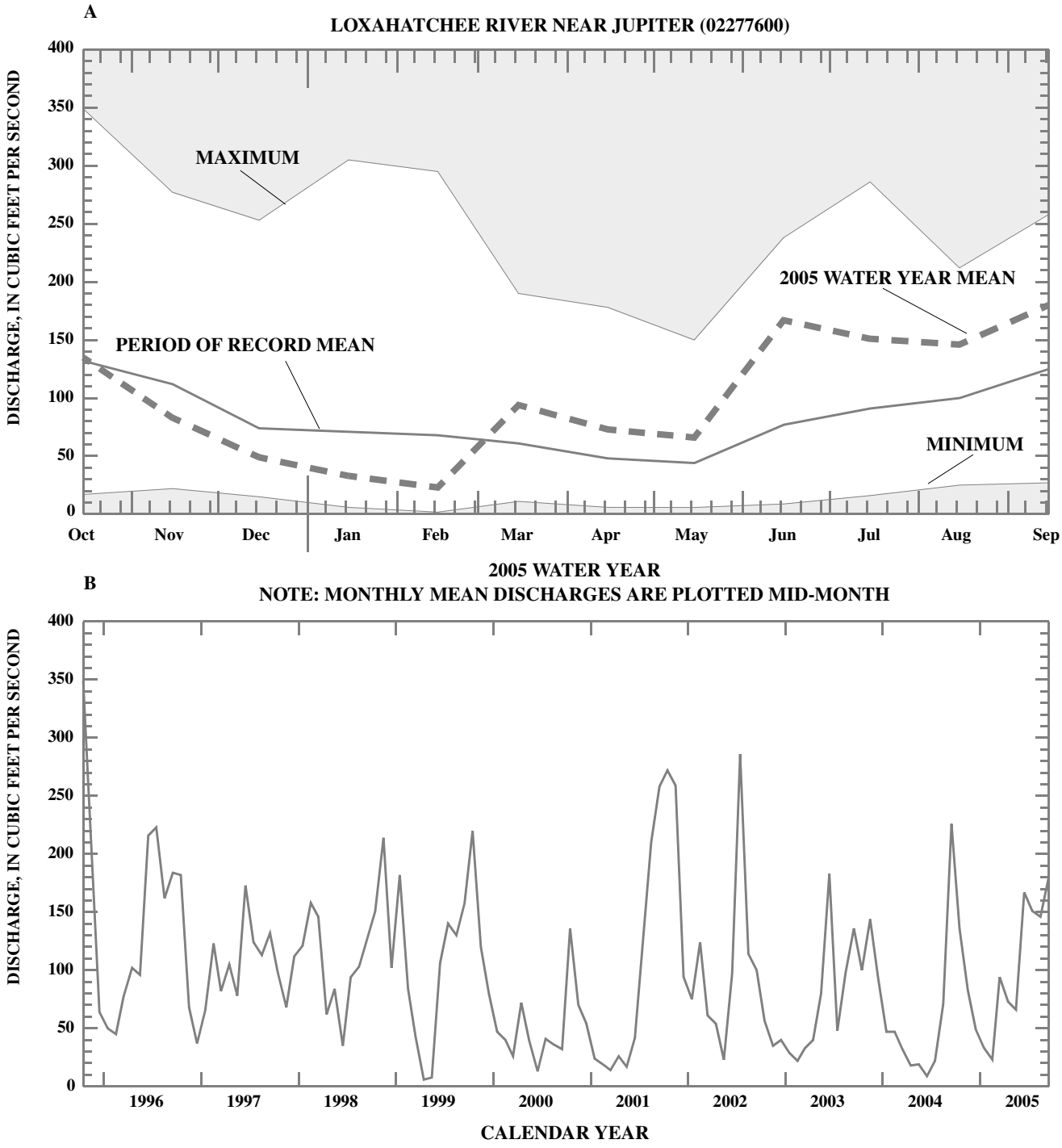


Figure 5. Loxahatchee River near Jupiter (A) 2005 monthly mean discharge compared to the maximum and minimum monthly mean discharge for the period of record through the 2004 water year, and the monthly mean discharge for the entire period of record; (B) monthly mean discharge for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

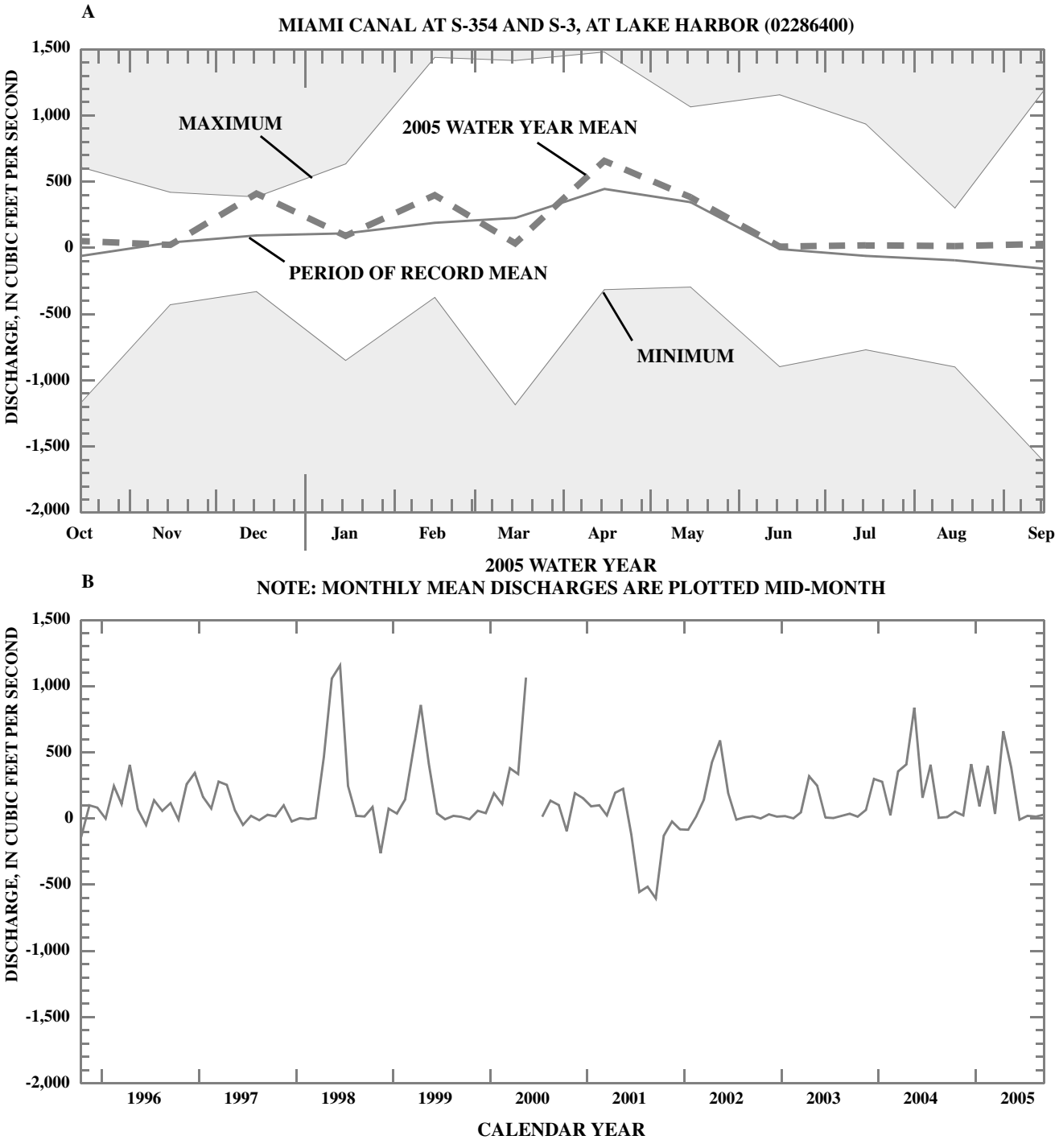


Figure 6. Miami Canal at S-354 and S-3, at Lake Harbor (A) 2005 monthly mean discharge compared to the maximum and minimum monthly mean discharge for the period of record through the 2004 water year, and monthly mean discharge for the entire period of record; (B) monthly mean discharge for the period of 1996-2005. Any months where there were more than 5 days of missing record are not included in these graphs unless otherwise noted.

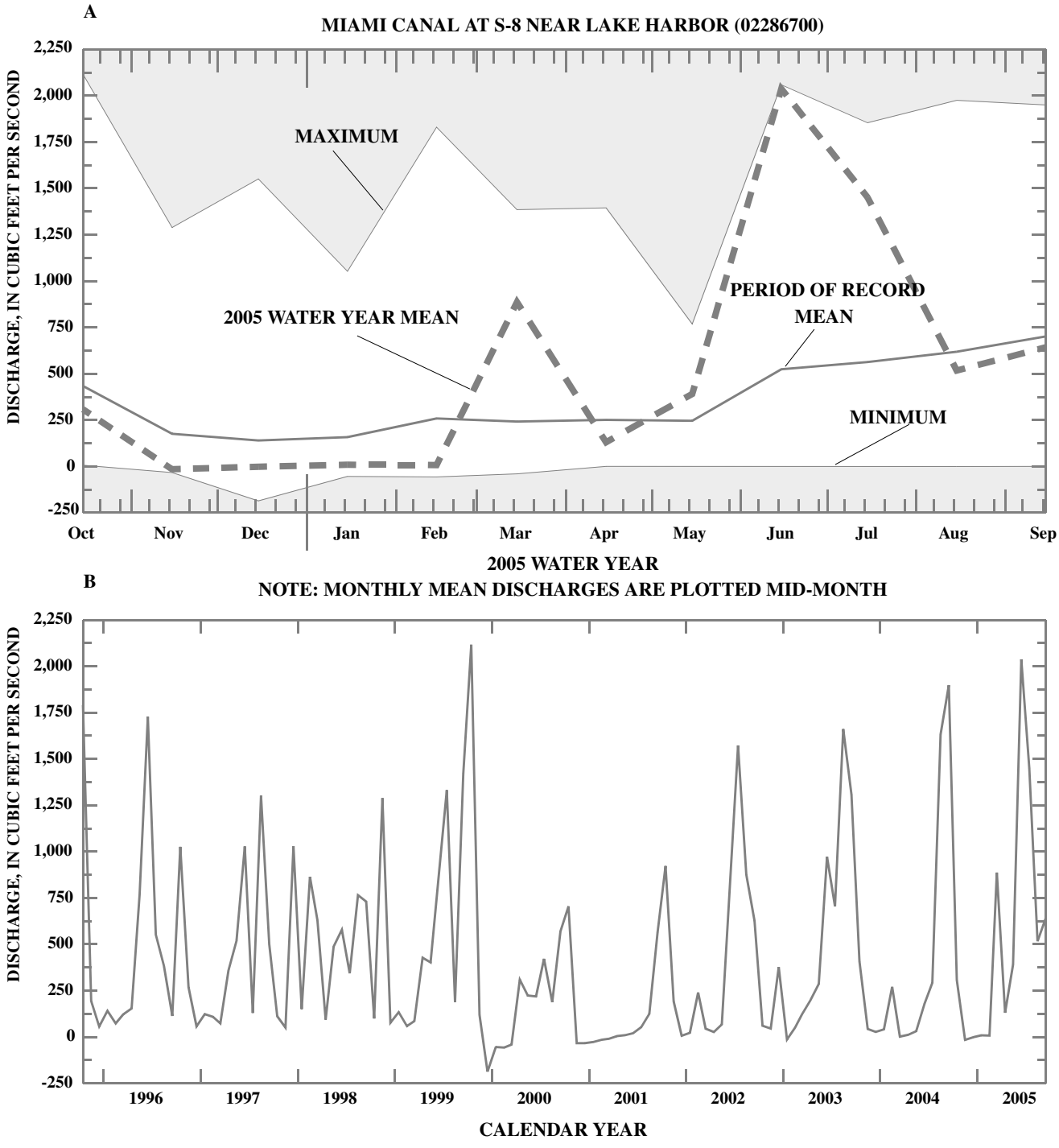


Figure 7. Miami Canal at S-8 near Lake Harbor (A) 2005 monthly mean discharge compared to the maximum and minimum monthly mean discharge for the period of record through the 2004 water year, and monthly mean discharge for the entire period of record; (B) monthly mean discharge for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

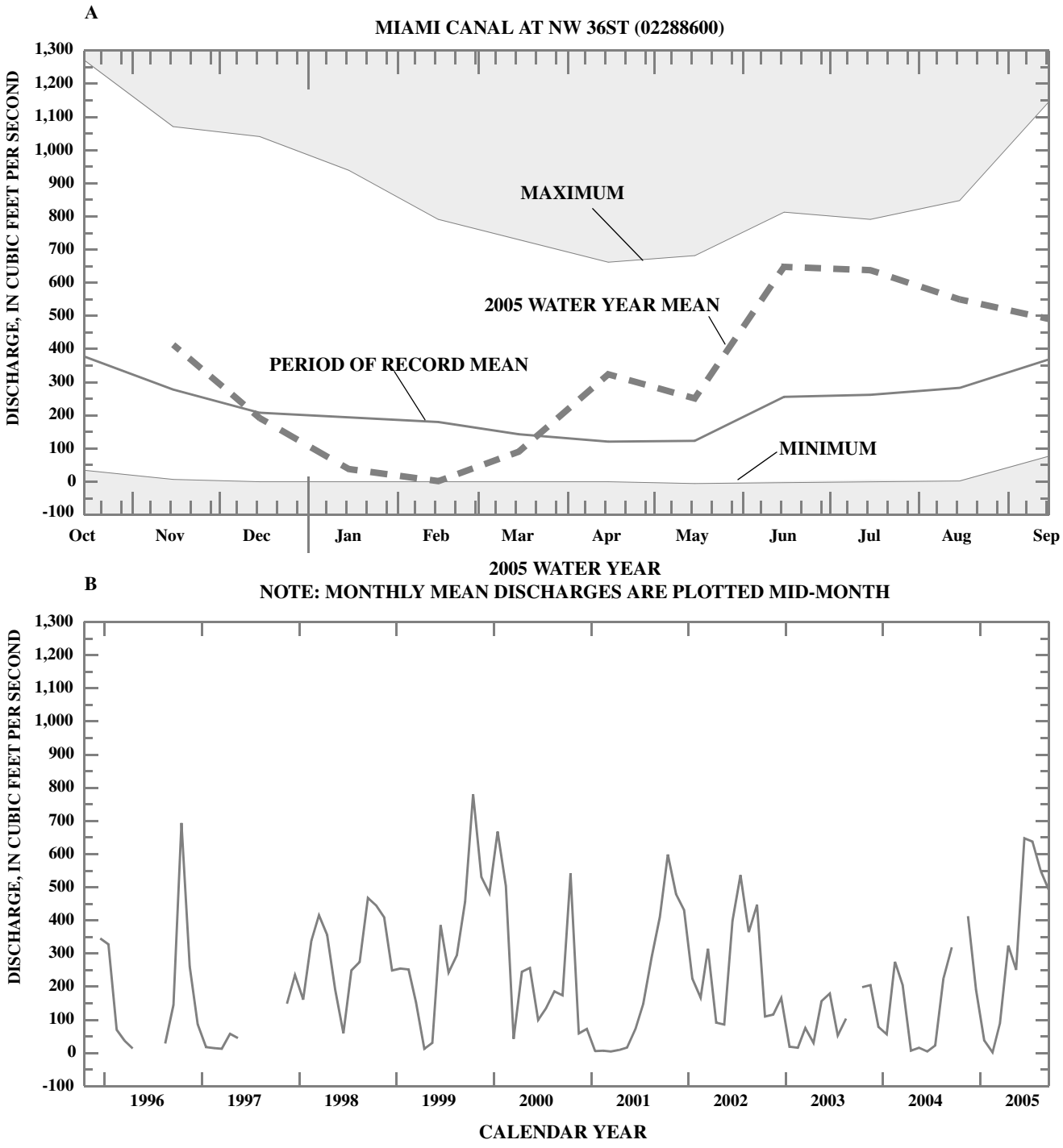


Figure 8. Miami Canal at NW 36 Street, Miami (A) 2005 monthly mean discharge compared to the maximum and minimum monthly mean discharge for the period of record through the 2004 water year, and monthly mean discharge for the entire period of record; (B) the monthly mean discharge for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

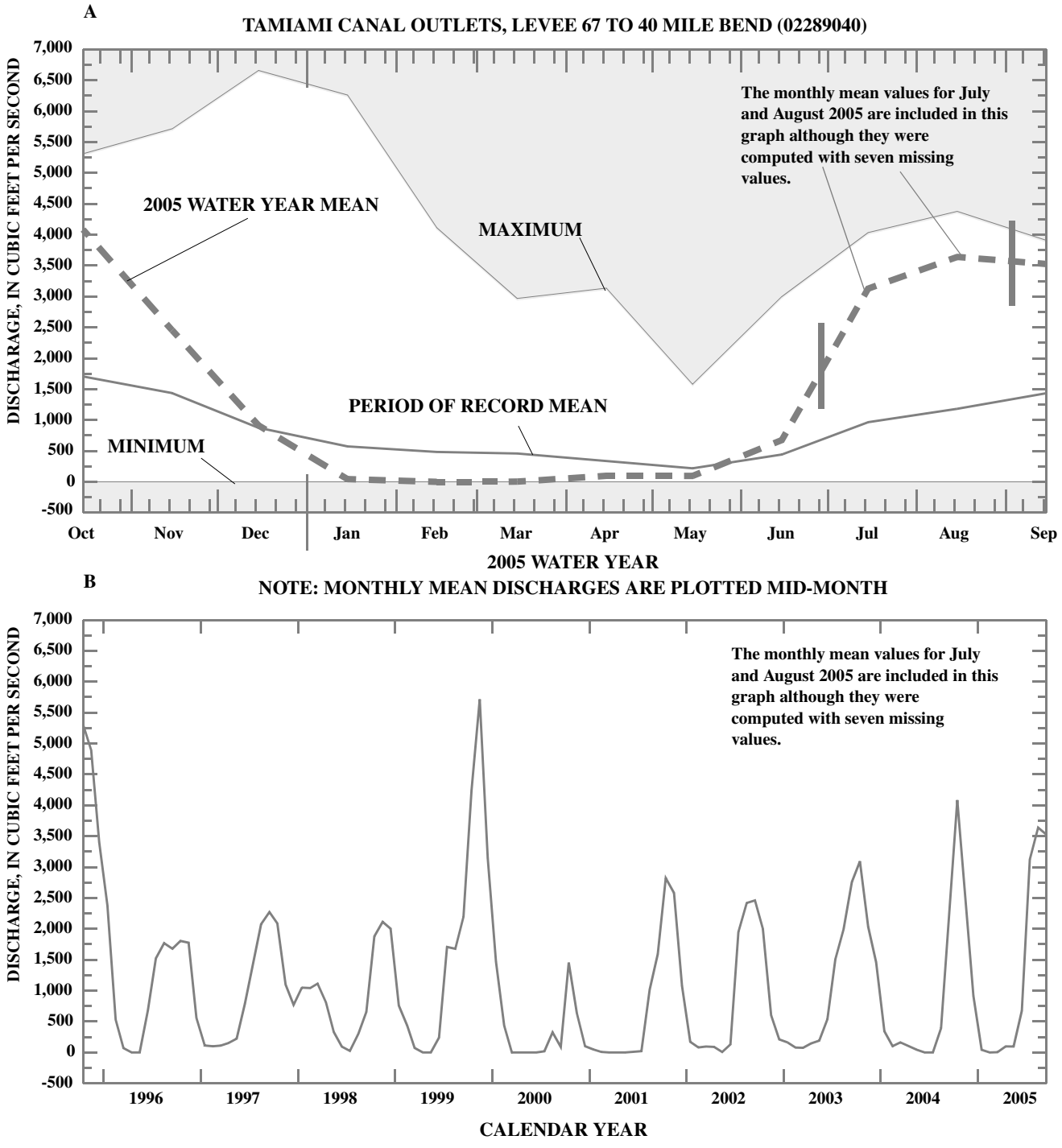


Figure 9. Tamiami Canal Outlets, Levee 67A to 40 Mile Bend (total discharge through S-12A, B, C, D) (A) 2005 monthly mean discharge compared to the maximum and minimum monthly mean discharge for the period of record through the 2004 water year, and monthly mean discharge for the entire period of record; (B) the monthly mean discharge for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

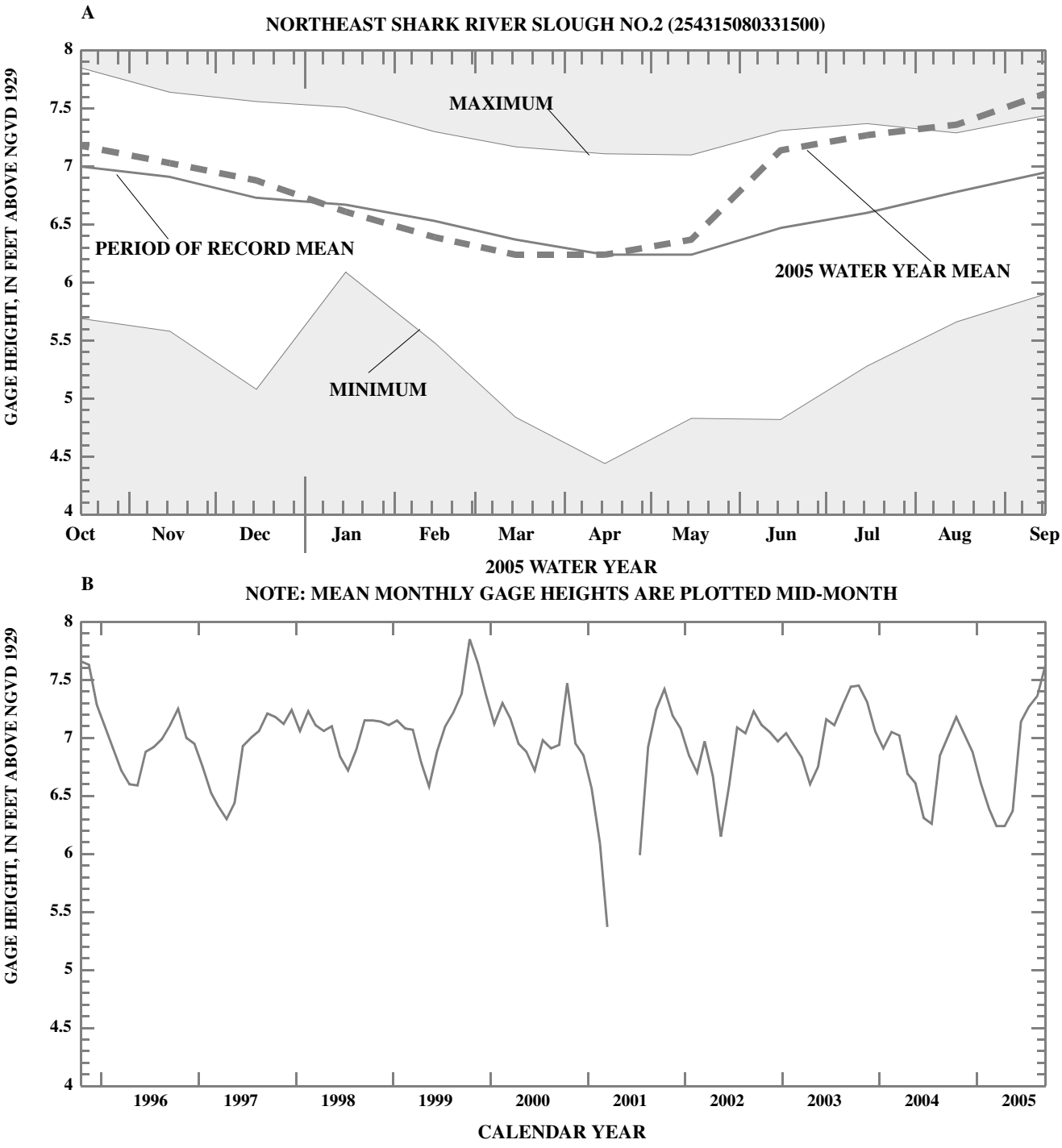


Figure 10. Northeast Shark River Slough No. 2 near Coopertown (A) 2005 monthly mean gage height compared to the maximum and minimum monthly mean gage height for the period of record through the 2004 water year, and monthly mean gage height for the entire period of record; (B) the monthly mean gage height for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

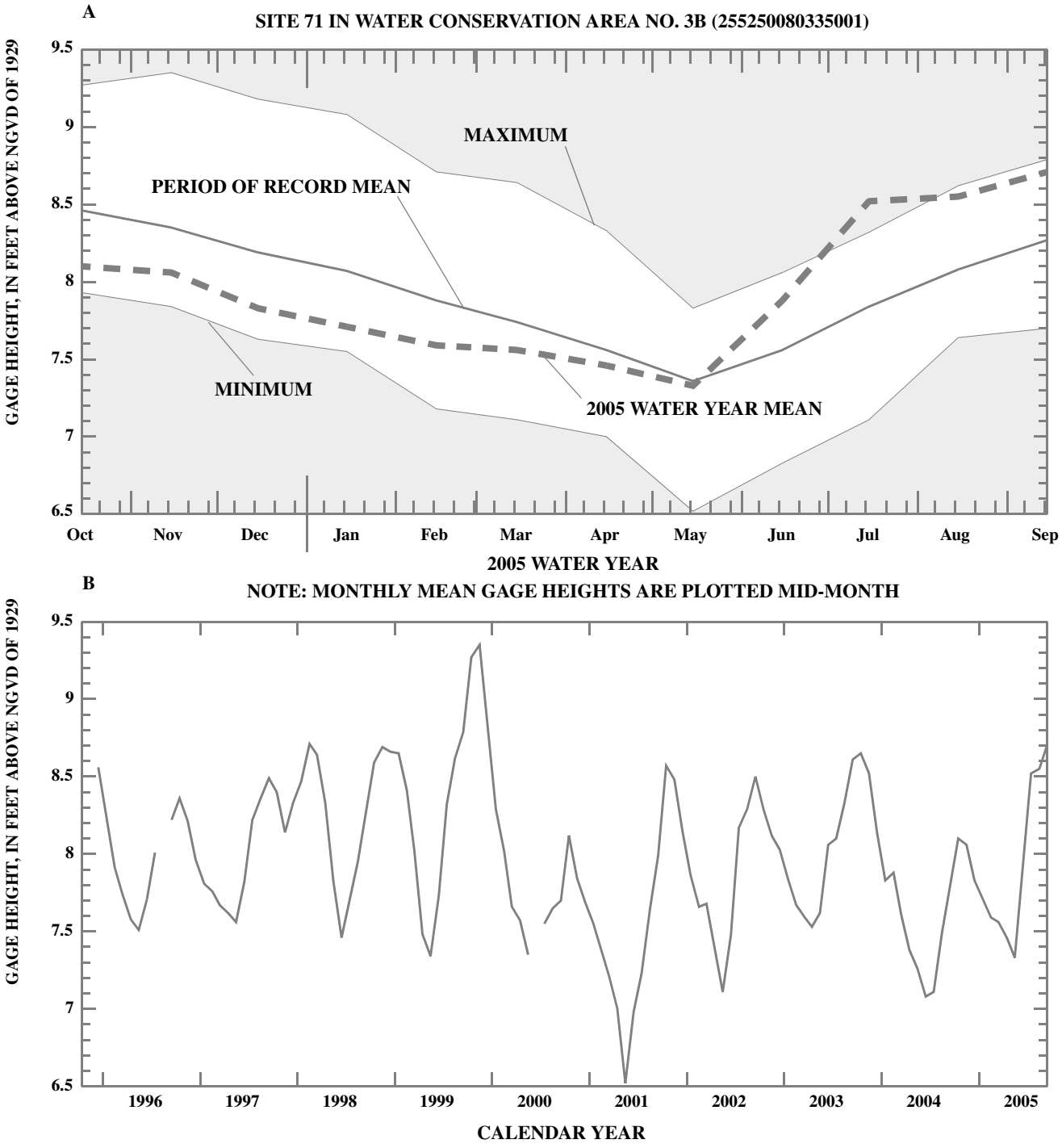


Figure 11. Site 71 in Water Conservation Area No. 3B near Coopertown (A) 2005 monthly mean gage height compared to the maximum and minimum monthly mean gage height for the period of record through the 2004 water year, and monthly mean gage height for the entire period of record; (B) the monthly mean gage height for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

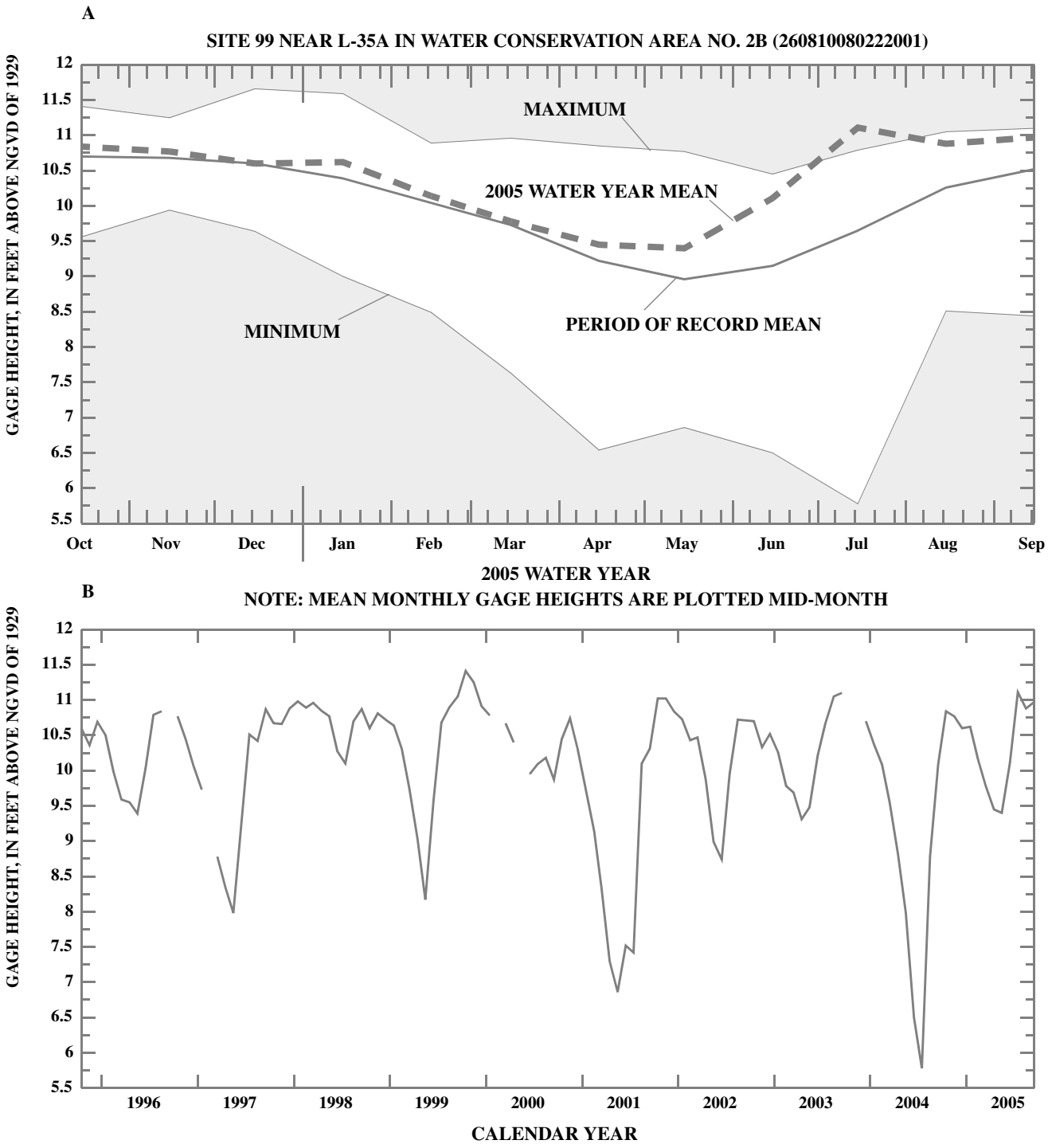


Figure 12. Site 99 near L-35A in Water Conservation Area No. 2B (A) 2005 monthly mean gage height compared to the maximum and minimum monthly mean gage height for the period of record through the 2004 water year, and monthly mean gage height for the entire period of record; (B) the monthly mean gage height for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

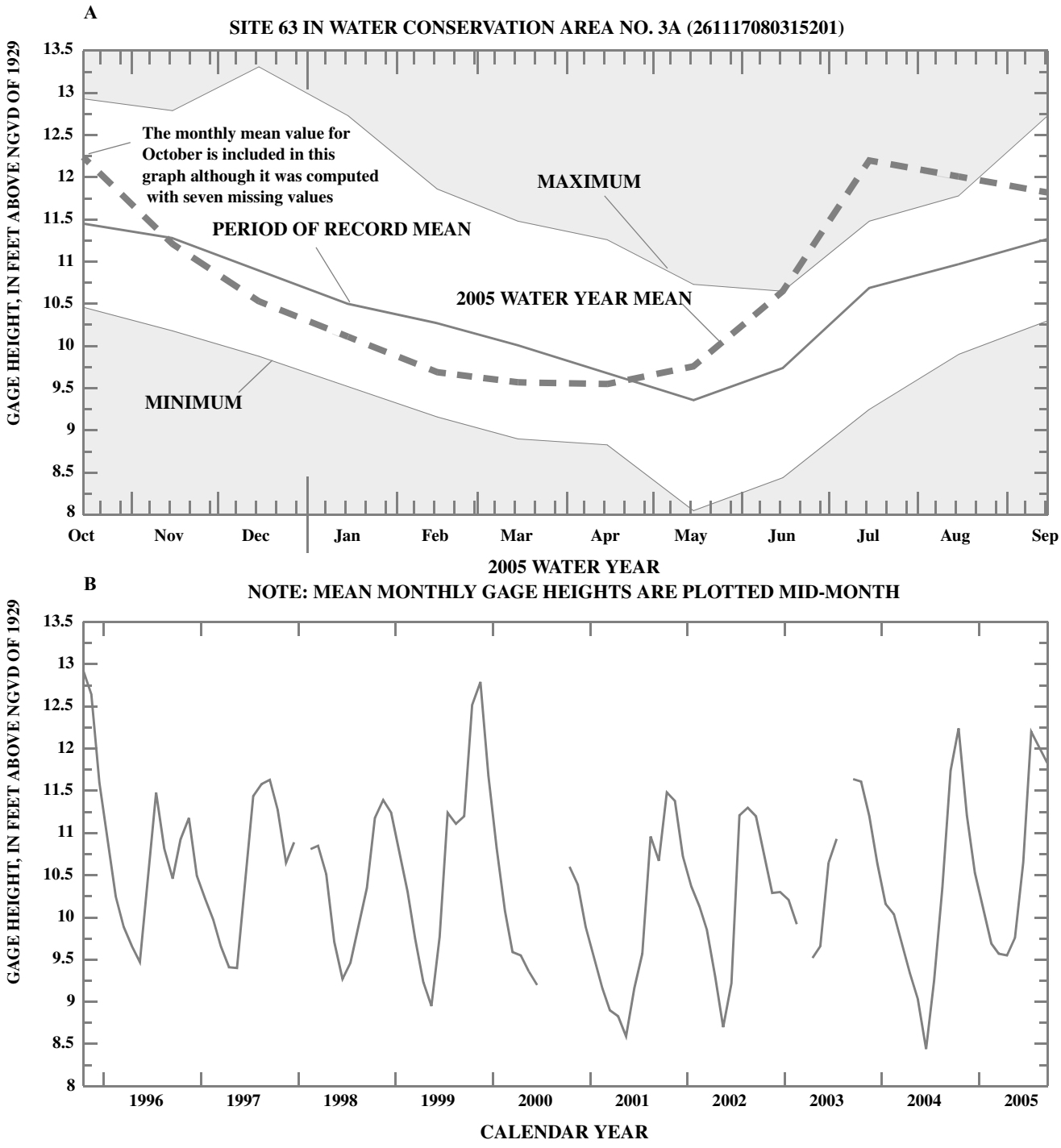


Figure 13. Site 63 in Water Conservation Area No. 3A near Andytown (A) 2005 monthly mean gage height compared to the maximum and minimum monthly mean gage height for the period of record through the 2004 water year, and monthly mean gage height for the entire period of record; (B) the monthly mean gage height for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

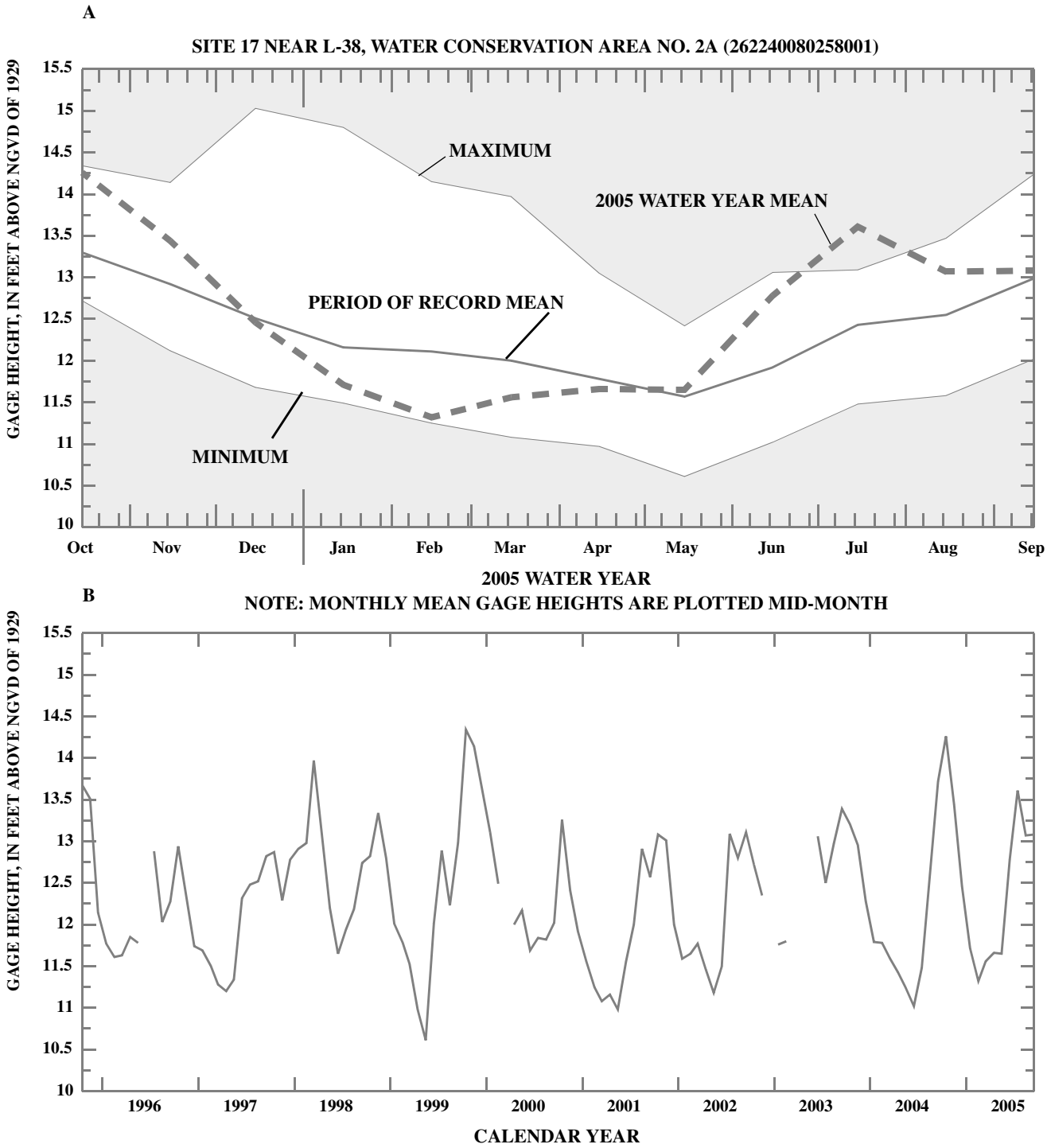


Figure 14. Site 17 near L-38, Water Conservation Area No. 2A (A) 2005 monthly mean gage height compared to the maximum and minimum monthly gage height for the period of record through the 2004 water year, and monthly mean gage height for the entire period of record; (B) the monthly mean gage height for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

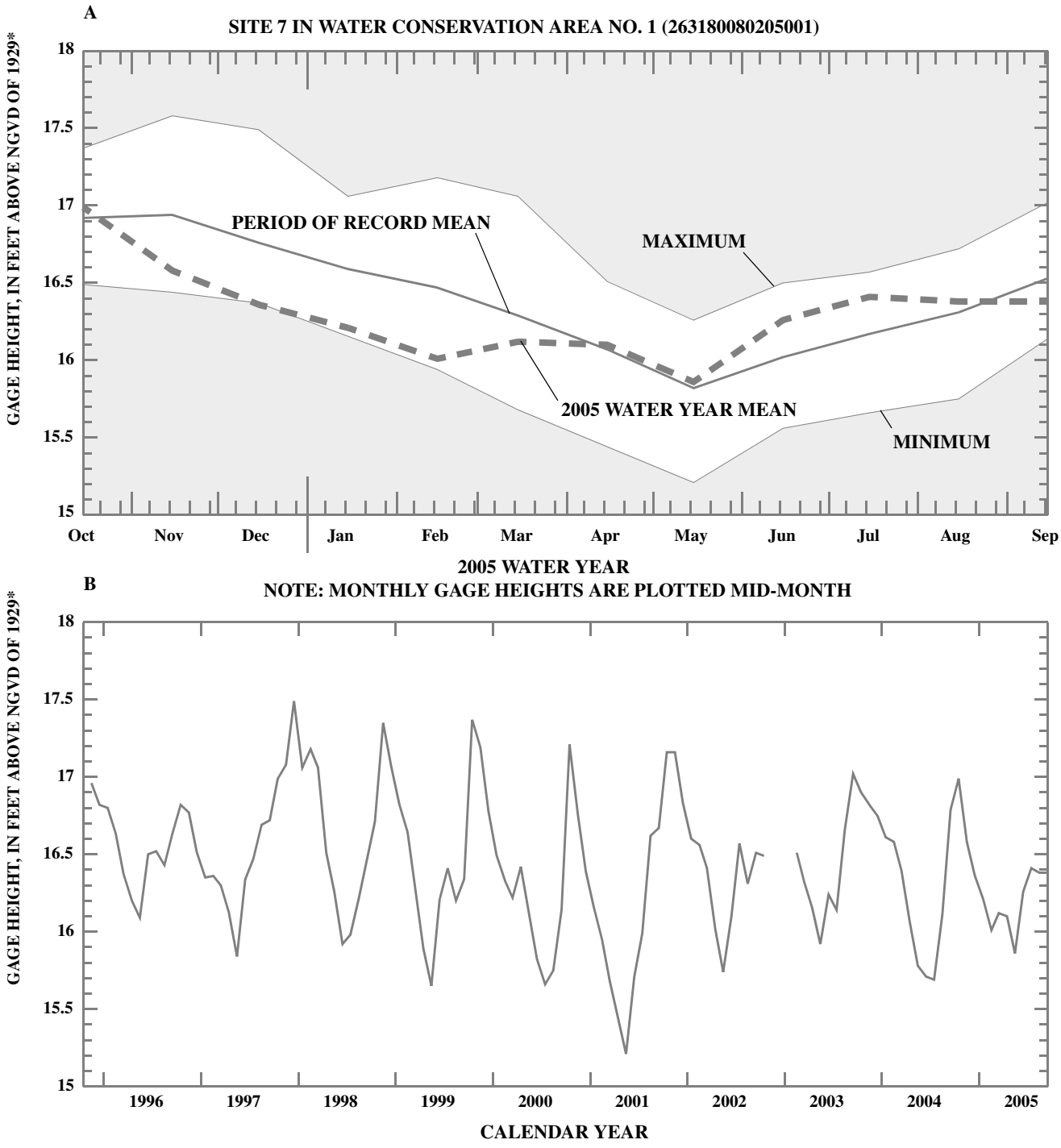


Figure 15. Site 7 in Water Conservation Area No. 1 near Shawano (A) 2005 monthly mean gage height compared to the maximum and minimum monthly mean gage height for the period of record through the 2004 water year, and monthly mean gage height for the entire period of record; (B) the monthly mean gage height for the period of 1996-2005. Any months that have more than 5 days of missing record are not included in these graphs unless otherwise noted. *The datum of gage is NGVD 1929 converted through VERTCON using the NAVD 88 survey levels from a benchmark provided by the Department of Environmental Protection. The data before the 2004 water year is published at a datum 0.102 ft higher than the present datum. All data used for the development of this graph were converted to the present datum.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

Surface-Water Station Functions

The south Florida surface-water data-collection network has various types of stations to meet the needs of water managers and others. These stations are grouped below according to major functions. These groups contain representative stations from the south Florida surface-water data-collection network.

The following USGS stations monitor the release of water into the St. Lucie Canal from Lake Okeechobee and other inflows

02276870 St. Lucie Canal at Lake Okeechobee (S-308)
272524080221800 Five Mile Canal Above S-29-1-4 Nr Ft. Pierce, Fl

The following USGS stations at the S-5A complex monitor water releases to and from Lake Okeechobee, the water conservation areas, and the coast:

02278450 West Palm Beach Canal above S-5A, near Loxahatchee (pump - west gate)
02278500 Diversions to Water Conservation Area No. 1 at S-5A and S-5A-S (pump + south gate)
02278550 Levee 8 Canal at West Palm Beach Canal, nr Loxahatchee (east + west + south gate)
02278600 West Palm Beach Canal below S-5A-E near Loxahatchee (east gate only)

The following USGS stations monitor the release of water from Lake Okeechobee into the Everglades Agricultural Area:

265501080364900 Levee 8 Canal near Canal Point
02278000 West Palm Beach Canal at S-352, at Canal Point
02280500 Hillsboro Canal below S-351, near South Bay
02283500 North New River Canal below S-2 and S-351, near South Bay
02286400 Miami Canal at S-354 and S-3, at Lake Harbor
264514080550700 Industrial Canal at Clewiston

The following USGS stations monitor the release of water from the Everglades Agricultural Area into the water-conservation areas:

02281200 Hillsboro Canal at S-6 near Shawano
02286700 Miami Canal at S-8 near Lake Harbor
261533080571600 L-28 Interceptor Canal below S-190 near Clewiston
261543080495000 L-28 Canal above S-140 near Clewiston
02289031 Levee 3 Canal Below G-155 nr Clewiston
02289032 Levee 4 Canal Below G-88 nr Clewiston

The following USGS discharge stations monitor discharges within and into the Loxahatchee River

02277600 Loxahatchee River Near Jupiter
265708080093700 Hobe Ditch Trib To Lox River .5 Mi Above Mouth
265818080111900 Cypress Creek Canal Below Gulfstream Bridge
270022080094600 Kitchings Creek nr Hobe Sound

Surface-Water Station Functions (continued)

The following USGS stations monitor continuous water levels in the water-conservation areas:

02278501 Water Conservation Area No. 1 below S-5 Complex, near Loxahatchee
263537080211400 North Loxahatchee Conservation Area No. 1 near Boynton Beach
262528080202700 South Loxahatchee Conservation Area No. 1 near Boynton Beach
263180080205001 Site 7 in Water Conservation Area No. 1 near Shawano
263050080145001 Site 8T in Water Conservation Area No. 1 near Boynton Beach
263000080120001 Site 8C near L-40 in Water Conservation Area No. 1 nr Boynton Beach
262750080175001 Site 9 in Water Conservation Area No. 1 near Boynton Beach
261710080190001 Site 19 in Water Conservation Area No. 2A near Coral Springs
262240080258001 Site 17 near L-38, Water Conservation Area No. 2A nr Coral Springs
261117080315201 Site 63 in Water Conservation Area No. 3A near Andytown
261023080443001 Site 62 in Water Conservation Area No. 3A near Andytown
260810080222001 Site 99 near L-35A in Water Conservation Area No. 2B near Sunrise
260037080303401 Site 76 in Water Conservation Area No. 3B near Andytown
255828080401301 Site 64 in Water Conservation Area No. 3A near Coopertown
255300080370001 Site 69 in Water Conservation Area No. 3B near Coopertown
254848080432001 Site 65 in Water Conservation Area No. 3A near Coopertown
255250080335001 Site 71 in Water Conservation Area No. 3B near Coopertown

The USGS monitors the following stations to determine the discharge into Big Cypress National Preserve and Everglades National Park:

02288800 Tamiami Canal Outlets, Monroe to Carnestown
02288900 Tamiami Canal Outlets, 40 Mile Bend to Monroe
02289040 Tamiami Canal Outlets, Levee 67A to 40 Mile Bend (total discharge through S-12A, B, C, D)
254543080491101 Tamiami Canal below S-12A (total discharge through S-12A)
02289019 Tamiami Canal below S-12B (total discharge through S-12B)
02289041 Tamiami Canal below S-12C (total discharge through S-12C)
254543080405401 Tamiami Canal below S-12D (total discharge through S-12D)
02289060 Tamiami Canal Outlets, Levee 30 to L-67A
022907647 Levee 31 North Extension at 1 mile near West Miami
02290765 Levee 31 North Extension at 3 mile near West Miami
02290766 Levee 31 North Extension at 4 mile near West Miami
02290767 Levee 31 North Extension at 5 mile near West Miami
02290768 Levee 31 North Extension at 7 mile near West Miami
02290769 Canal 111 above S-18C, near Florida City
02291000 Barron River Canal near Everglades

The following stations monitor discharge from the Water Conservation Areas to the structures along the east coast.

02281400 Hillsboro Canal near Margate
02286200 Snake Creek Canal at NW 67the Avenue, near Hialeah
02287395 Miami Canal East of Levee-30, near Miami
02287497 N.W. Wellfield Canal near Dade Broward Levee near Pennsuco, FL
02289500 Tamiami Canal near Coral Gables, FL

Surface-Water Station Functions (continued)

The following USGS stations are representative of continuous surface-water elevations in southern Miami-Dade County:

254315080331500 Northeast Shark River Slough No. 2 near Coopertown
254130080380500 Northeast Shark River Slough No. 1 near Coopertown
254100080402400 L-67 Extended Canal West, near Florida City
254100080402200 Northeast Shark River Slough East of L-67 Extension nr Richmond Heights
253828080391100 Northeast Shark River Slough No. 4, North of Grossman
253753080393600 Northeast Shark River Slough No. 5, South of Grossman
251716080342100 Everglades 5A in C-111 Basin near Homestead
251724080341400 Everglades 5B in C-111 Basin near Homestead
251906080283400 Everglades 2A in C-111 Basin near Homestead
251946080254800 Everglades 1 in C-111 Basin near Homestead
252036080324300 Everglades 4 in C-111 Basin near Homestead
252043080302400 Everglades 3 in C-111 Basin near Homestead

The following USGS discharge monitoring sites are located along the coast in Miami-Dade, Broward, and Palm Beach Counties:

02282700 Middle River Canal at S-36, near Fort Lauderdale
02288600 Miami Canal at NW 36th Street, Miami (S-26)

The following USGS discharge monitoring sites are located on the southwestern coast of Florida:

02291500 Imperial River near Bonita Springs
02291524 Spring Creek Headwater near Bonita Springs
02291580 North Branch Estero River at Estero
02291597 South Branch Estero River at Estero
02291673 Tenmile Canal at Control Near Estero
02291669 Sixmile Cypress Creek North Ft. Meyers
02292900 Caloosahatchee River at S-79 near Olga
02293214 Meade Canal at Cape Coral
02293230 Whiskey Creek at Ft. Meyers, FL
02293240 Aries Canal at Cape Coral
02293241 San Carlos Canal at Cape Coral
02293243 Courtney Canal at Cape Coral
02293345 Shadroe Canal at Cape Coral
02293346 Horseshoe Canal at Cape Coral
02293347 Hermosa Canal at Cape Coral
02293264 Gator Slough at SR 765 near Ft. Myers
264437081550100 Gator Slough at U.S. 41 near Ft. Myers

Surface-Water Station Functions (continued)

The following USGS stations monitor continuous water level and water quality parameters in the Loxahatchee and St. Lucie Rivers

02277100 St. Lucie River at Speedy Point, Stuart, FL
02277110 St. Lucie Estuary at A1A (Steele Pt), Stuart, FL
265645080055900 Loxahatchee River at Pompano Dr. nr Jupiter, FL
265651080045500 Loxahatchee River at Coast Guard Dock nr Jupiter, FL
265906080093500 Loxahatchee River at Mile 9.1 nr Jupiter
265912080082900 Loxahatchee River at Boy Scout Camp near Hobe Sound, FL
265929080091800 Loxahatchee River Outlet at Kitchings Creek
272229080203400 St. Lucie River at Midway Rd. nr Pt. St. Lucie, FL
271929080195900 St. Lucie River at Prima Vista Rd., Pt. St. Lucie

The following USGS stations monitor continuous canal water level only:

255026080231300 Snapper Creek Canal Extension at MW 74th Street, near Hialeah, FL
261150080270001 North New River Canl at S-11-A near Andytown
261200080275001 North New River Canl at S-11-B near Andytown
261300080280001 North New River Canl at S-11-C near Andytown
261952080074500 E-3 Canal, SW 18th Street, Boca Raton, FL
262100080190001 Hillsboro Canal at S-10-A near Deerfield Beach, FL
262200080210001 Hillsboro Canal at S-10-C near Deerfield Beach, FL
262300080220001 Hillsboro Canal at S-10-D near Deerfield Beach, FL
262337080074800 E-3 Canal at NW 51st Street, Boca Raton, FL
262358080055700 E-4 Canal at Clint-Moore Road, Boca Raton, FL

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://ny.water.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities for collaboration among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

EXPLANATION OF THE RECORDS

A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and for surface-water stations where only miscellaneous observations are made.

Downstream Order and Station Number

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete eight-digit (or 10-digit) number for each station, such as 02228500, which appears just to the left of the station name, includes the 2-digit part number "02" plus the 6- to 12-digit downstream-order number "228500." The part number designates the major river basin; for example, part "02" is the South Atlantic Slope and eastern Gulf of Mexico basins. In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

Numbering System for Wells and Miscellaneous Sites

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 12). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

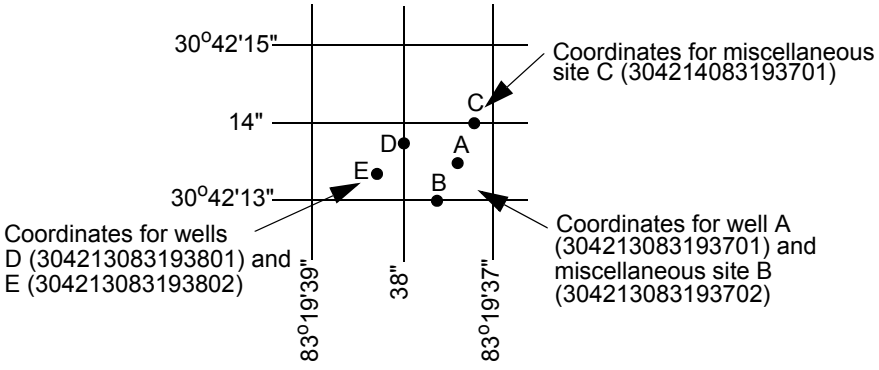


Figure 16. System for numbering wells and miscellaneous sites. (latitude and longitude)

VOLUME 2A: SOUTH FLORIDA

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake elevation, similarly, are those for which stage may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a stage-recording device or daily or weekly observations, but need not be. Because daily mean discharges and lake elevations commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage- recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Location of all complete-record and partial-record stations for which data are given in this report are shown in figures preceding each sub-basin.

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from *http://water.usgs.gov/pubs/twri/*. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors that are based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations, and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, the stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (*http://water.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the USGS Water Science Center (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __-__, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The

designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station.

The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

> Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.
>
> Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.
>
> Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge

measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter "e" and noting in a table footnote, "e–Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Water Science Center. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the USGS Water Science Center. (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "---" in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is not published, but is available in the files of the U.S. Geological Survey.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Ratings of accuracy (based on combined fouling and calibration drift corrections applied to record)			
	Excellent	Good	Fair	Poor
Water temperature	≤ ±0.2 °C	> ±0.2 - 0.5 °C	> ±0.5 - 0.8 °C	> ±0.8 °C
Specific conductance	≤ ±3%	> ±3 - 10%	> ±10 - 15%	> ±15%
Dissolved oxygen	≤ ±0.3 mg/L or ≤ ± 5%, whichever is greater	> ±0.3 - 0.5 mg/L or > ±5 - 10%, whichever is greater	> ±0.5 - 0.8 mg/L or > ± 10 - 15% whichever is greater	> ±0.8 mg/L or > ± 15%, whichever is greater
pH	≤ ±0.2 unit	> ±0.2 - 0.5 unit	> ±0.5 - 0.8 unit	> ±0.8 unit
Turbidity	≤ ±5% turbidity units or ≤ ± 5%, whichever is greater	> ±0.5 - 1.0 turbidity units or > ± 5 -10%, whichever is greater	> 1.0 - 1.5 turbidity units or > ±10 - 15%, whichever is greater	> ± 1.5 turbidity units or > ±15%, whichever is greater

VOLUME 2A: SOUTH FLORIDA

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made onsite when the samples are collected. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory.

Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Water Science Center (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Water Science Center (see address that is shown on the back of title page in this report).

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of “daily values” of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a nondetection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte either was not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by a USGS Science Center are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the USGS Science Center (see address that is shown on the back of the title page of this report).

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected by this USGS Water Science Center are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Generally, only ground-water level data from selected wells with continuous record from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation).

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the Onsite Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. Most of the wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings. Wells that have very long open intervals (generally 20 ft or greater), were sampled using a down hole sampling device that collects a water sample from the bottom of the well.

Water-level measurements in this report are given in feet with reference to land-surface datum, elevation described in feet above or below National Geodetic Vertical Datum of 1929 (NGVD 29), unless otherwise noted. The elevation of the land-surface datum (lsd) above sea level is also given in the well description. Land-surface datum is a datum plane that is approximately at land surface at each well. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Accuracy of Ground-Water Level Data

A number of factors affect the accuracy of the ground-water level data published in this report. These factors can be logically separated into those that are related to ground-water level measurement methods (Method-Related Factors) and those that are independent of the methods.

Method-Independent Factors

Water levels are determined using a specific measuring point (MP) at each well. The elevation of this point for most wells published in this report was determined relative to the National Geodetic Vertical Datum of 1929 (NGVD 1929). Scientific advances in determining vertical elevations have caused the development of the North American Vertical Datum of 1988 (NAVD 1988). The National Geodetic Survey (NGS) has completed an extensive releveling effort that provides elevations referenced to NAVD 1988. The U.S. Geological Survey is currently considering how best to utilize the newer NAVD 1988 and yet maintain the continuity of data in south Florida.

Some stations in this report have been surveyed using a benchmark elevation surveyed in NAVD 1988. In an attempt to publish the elevation of each station within the hydrologic monitoring network in the same datum plane, the elevation of the NAVD 1988 benchmark was converted using the VERTCON or CORPSCON software of the National Geodetic Survey to provide a reference elevation in NGVD 1929. The NGVD 1929 datum determined using VERTCON or CORPSCON is known to differ from the historic NGVD 1929 elevation datum (historic NGVD). Hydrologic model development for some sites has required publication of data in the NAVD 1988 datum. The datum of each station is clearly defined in the DATUM or GAGE section of each station manuscript.

Water levels in wells open to highly transmissive aquifers may be affected by barometric pressure. The water-level data in this publication have not been adjusted for barometric pressure effects. Water levels may also be affected by density differences. For example highly saline water has a greater density than fresh water. Water levels have not been adjusted for density effects.

Method-Related Factors

Water-level data are collected using a number of different methods. Each method has inherent factors that affect the accuracy of measured water levels.

STEEL TAPE AND CHALK -- This generally is the most accurate method of measuring the elevation difference between a reference point and the water level in a ground-water well. When the water level is measured using this method, at least two separate measurements are performed. These measurements must agree to within 0.02 ft before the average value is recorded. The precision of this method, is $\pm$ 0.02 ft.

PRESSURE GAGE -- Wells under artesian pressure are monitored using a mechanical pressure gage. These pressure gages are graduated to 0.2 ft. Gages are periodically checked using a pressure manifold to compare gage readings over a range of known pressures. Corrections are applied to the gage readings based on these checks. The reported value is estimated to the nearest tenth of a foot. The precision of this method should be considered to be about $\pm$ 0.1 ft.

FLOAT AND RECORDER -- The accuracy of data recorded using this method is affected by friction within the recorder system as well as friction between the float and the well casing. In large-diameter wells (6 in. or greater), where large floats are used, these effects are minimal; however in small-diameter wells (2 to 6 in.) these effects can be substantial. Friction might significantly affect the data where water-surface fluctuations are very small. Every effort has been made to reduce frictional effects to a minimum.

The accuracy of this method may also be affected by slippage of the float tape or wire, leaks in the float, or biological factors (for example, amphibians crawling on the float). The accuracy of the recorder reading is periodically verified using steel tape and chalk measurements. When the difference between these tape measurements and the recorded value is 0.05 ft or greater, the recorder is reset and a gage-height correction is applied to the data. Uncertainty in water levels for wells verified by steel tape measurements is generally no greater than $\pm$ 0.05 ft.

PRESSURE TRANSDUCER AND RECORDER -- In wells where artesian pressure, frictional effects, or an extensive range in water levels have made float and recorder systems infeasible, pressure transducers have been installed. Transducers are selected that meet or exceed the float and recorder system accuracy. Water levels may be verified using either steel tape or pressure gage measurements. Uncertainty in those verified by steel-tape measurements is generally considered to be no greater than $\pm$ 0.05 ft and uncertainty for those verified using pressure gage readings is generally considered to be about $\pm$ 0.1 ft.

The type of method used to collect water-level data is identified in the INSTRUMENTATION section of each station manuscript.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown and each well is identified on the map by an index number (fig. 13-22) that is cross-referenced to its identification number in a location key preceding the map.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes the measuring point. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth).

LAND-SURFACE DATUM.—This is a new section started for water year 2003, to document land-surface datum. The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29), and is estimated from a field measurement to the nearest tenth of a foot. However because land surface varies the precision of this value is considered to be about +/- 0.5 ft.

REMARKS.—This entry describes factors that may affect the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape or pressure gage. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

EXPLANATION OF RECORDS OF BULK ELECTRICAL CONDUCTIVITY

Bulk electrical conductivity is the combined electrical conductivity of all material (including pore water) within an approximately 8- to 40-inch doughnut-shaped area surrounding an electromagnetic induction probe (McNeill and others, 1990). Bulk electrical conductivity is affected by different physical and chemical properties of the material including the dissolved-solids concentration of the pore water, and the lithology and porosity of the rock. Polyvinyl chloride (PVC) casings do not interfere with these measurements; however, for those wells where a steel or galvanized iron casing extends part way down the well, the probe cannot sense the materials outside of the casing. As the probe is lowered down the well and out of the influence of a metallic casing, a spike is usually created in the data. Metal well centralizers can also affect the data collected and can cause very large spikes in the data at the depths where the centralizers are installed. These spikes are much different than the changes in bulk electromagnetic conductivity caused by natural lithologic or pore water variations and as such are readily recognizable. As the probe passes through different layers of rock, the different physical properties will cause variation in the recorded conductivity values. A clean sand or sandstone will generally produce lower conductivity values than clay or mudstone. Although the properties of the rocks or well construction will remain constant from year to year, those of the pore water may change due to saltwater intrusion. Conductivity values from freshwater-saturated rocks typically are less than 25 mS/m, whereas conductivity values from saltwater-saturated rocks are typically greater than 67 mS/m (Hittle, 1999). Therefore, electromagnetic induction logging can be used to assess increases or decreases in the conductivity of pore waters caused by movement of the saltwater interface.

Data Collection and Computation

Measurements generally are made during the period of lowest aquifer water levels, in April of each year. However, some wells may have additional logs. During periods of decreased water levels, saltwater intrusion into a freshwater aquifer is likely to be at a maximum. In wells where saltwater is detectable, the graphic representation of data from successive years will show any vertical movement of the saltwater-freshwater interface. Measuring this vertical movement of the interface is the primary use of the bulk electrical conductivity logs published in this report. Upward movement of the interface between freshwater and saltwater in a monitoring well indicates that saltwater intrusion is increasing in that area. Downward movement of the interface indicates recession of the saltwater front near the monitoring well.

In the bulk electrical conductivity graphs of some of the wells logged for this report, the interface position can be seen as the point where low values of conductivity increase suddenly to values generally above 67 mS/m (usually near the bottom of the well). However, the interface position is not as apparent in other wells, and in some, there is no interface. Some locations have been identified where saltwater contamination of the aquifer is occurring above the base of the aquifer as a result of seepage of saline from canals. The bulk electrical conductivity logs detect the changes in fluid conductivity that occur as a result of this seepage.

In wells selected for electromagnetic induction logging, a water sample may be collected and analyzed as a check of the level of salinity. Because bulk electrical conductivity is a function of fluid conductivity, lithology, and porosity, the relationship between the electromagnetic induction logs and the chloride samples may not be as obvious as is the general relationship between fluid conductivity and chloride concentrations. If the rock is not very porous, then the change in bulk electrical conductivity caused by changes in the salinity of the pore water may be smaller than might be expected. Nonetheless, the long-term changes in the bulk electrical conductivity logs are sufficient to assess upward or downward movement of the interface. To aid in interpretation of the bulk electrical conductivity logs, the chloride concentration is shown on the graph of bulk electrical conductivity if water samples have been collected.

The instrument used to collect data for this report is calibrated prior to each field session. The calibration procedure establishes a mathematical constant (calibration factor) that is used to convert raw instrument readings in counts per second (cps) into values of bulk electrical conductivity in millisiemens per meter (mS/m). When data were graphed for the 2000 annual water resources data report, offsets and amplitude differentials occurred in the calibrated values of bulk electrical conductivity for each well between successive years. Investigation revealed that

some of the observed offsets and amplitude differentials were caused by differing calibration factors between years. Most calibration factors differed because of temperature and humidity differences during calibration. The calibration procedures adopted during the 2000 water year were designed to minimize the influence of variable temperature and humidity. Before calibrating, the electromagnetic induction probe was lowered into a well and allowed to equilibrate in the water column. The probe was then removed from the well and the instrument immediately calibrated.

Factors other than variable temperature and humidity also have caused offsets and amplitude differentials. One such example occurred with data collected for the 2000 water year. Prior to logging for the 2000 water year, the instrument firmware and software was updated. After logging, it was found that the data had been truncated at the decimal point. Errors in calibration have also been identified and corrected (see Accuracy of Bulk Electrical Conductivity).

Accuracy of Bulk Electrical Conductivity

There are two components that affect the quality of the electromagnetic induction logs published in this report: (1) vertical or depth accuracy, and (2) accuracy and precision of measured bulk electrical conductivity. Vertical accuracy, which affects the determined interface position, is the most critical factor in this monitoring effort. A quality control program sets the velocity of the probe at 12 ft/min (feet per minute) while logging. Before logging begins, a spot on the probe, 3.32 feet above the sensing head, is aligned with the measuring point of the well. Where possible, the data recorded as the probe was moved up the well were used to produce the graphs for this report. Depth values from successive water years were adjusted, if needed, to coincide at one or more specific conductivity peak recorded from an upper part of the well. Depth values were interpolated to the nearest tenth of a foot. The precision of depth determinations using this reporting method should be considered to be about $\pm$0.1 foot.

The accuracy and precision of measured bulk electrical conductivity are a function of both the inherent accuracy of the electromagnetic induction probe and its calibration. The inherent precision of the probe is considered by the manufacturer to be $\pm$5 percent of the full scale. For the logs collected, the electromagnetic induction probe was set to a full scale of 1,000 mS/m. This translates into a precision of $\pm$50 mS/m at full scale. Analysis indicated that the offsets caused by the effects of temperature and humidity on calibration were generally within this range.

In the 1998 water year and for all water years after 2001, the electromagnetic induction probe was calibrated using standards of 0 and 345 mS/m. There are a number of monitoring wells where the measured bulk electrical conductivity exceeds 345 mS/m. For these wells, a calibration standard of 345 mS/m was still used. This is because the probe would have to be set to a full scale of 10,000 mS/m in order to be calibrated using the next available standard (1,301 mS/m). This value would greatly exceed the normal range in bulk electrical conductivity expected. The 345 mS/m calibration constant was also considered to be acceptable because within the range 0 to 1,000 mS/m, the response of the probe is considered to be linear; therefore calibrating the probe to this standard should not significantly reduce accuracy.

In the water years prior to 2002 (excluding 1998), the electromagnetic induction probe generally was calibrated using a 1,301 mS/m standard even though the full scale of the probe was 1,000 mS/m. This caused a calibration error in the data collected. To correct this error, a multiplier of 0.7686 was applied to all of the affected data.

Accuracy of data collected during the 2000 water year may have been affected by the firmware or software update in December 1999. The data collected using this new software and firmware was considerably offset relative to previous electromagnetic induction logs. In addition, the final values were truncated at the decimal point, whereas those collected prior to the update were recorded to the thousandths decimal place. These final values are the result of a multiplication of the raw data from the instrument and a calibration factor. It is unknown whether or not the raw values were truncated at the decimal point. If so, the resulting error could be on the order of 5 mS/m too low. Because the offset data from the 2000 water year are often 5 mS/m lower than the data from other years, truncation of the raw data probably is the explanation.

Data Presentation

Records of conductivity are published individually on the page immediately following the well manuscript. Data for conductivity are identified by well number. Each record consists of a single graph representing conductivity, a lithologic log, and a brief explanation.

RECORDS OF GROUND-WATER-QUALITY

Records of ground-water quality in this report differ from other types of records in that, for the salinity network sites, they consist of a limited set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes, a small number of samples except for a few samples taken seasonally during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for saltwater intrusion. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The ground-water-quality data in this report were obtained mostly as a part of the Florida Integrated Science Center - Fort Lauderdale (FISC-Fort Lauderdale) salinity network or as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality in the report area. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey National Field Manual for the collection of Water-Quality Data and the "Laboratory Measurements" sections in this data report and are also described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4 and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Science Center. (See address that is shown on the back of the title page of this report.)

The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the

aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed onsite. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

Data Presentation

The records of ground-water quality are published immediately following the ground-water level records of each county. Data for quality of ground water are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. The Remark Codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center. (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of poly-chlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (mm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter (mm^3/cm^2). (See also "Phytoplankton"and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (mm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3\ pr^3 \quad \text{cone } 1/3\ pr^2h \quad \text{cylinder } pr^2h.$$

pi (p) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (mm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens (*C. perfringens*) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable bound-aries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms (*Bacillariophyta*) are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (mm^3/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter ($cells/cm^2$) or biovolume per square centimeter (mm^3/cm^2). (See also "Phytoplankton" and "Periphyton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water)

that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. *Enterococcus* bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis*, *Streptococcus feacium*, *Streptococcus avium*, and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders *Ephemeroptera*, *Plecoptera*, and *Trichoptera*. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected

in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is exceeded. For example, the 90^{th} percentile of river flow is the streamflow exceeded 90 percent of the time in the period of interest.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae (*Chlorophyta*) are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter (mm^3/cm^2). (See also "Phytoplankton" and "Periphyton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA Web site: http://www.csc.noaa.gov/text/glossary.html (see "High water")

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, l is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} log_e \frac{I}{I_o} .$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA Website: http://www.csc.noaa.gov/text/glossary.html (see "Low water")

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, mg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or **miscellaneous sampling site** is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA Web site: *http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass of a living substance** is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed “acidic,” and solutions with a pH greater than 7.0 are termed “basic.” Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also “Plankton”)

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable is the amount of a given constituent that is in solution after a representative water sample has been extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Bed material”)

Recurrence interval, also referred to as **return period**, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms “return period” and “recurrence interval” do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow (7Q10) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the 7Q10 occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the 7Q10.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See “Recurrence interval”)

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater has an average salinity of about 35 parts per thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	**3**	26-50 percent
1	> 75 percent	**4**	5-25 percent
2	51-75 percent	**5**	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Suspended”)

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (See also “Sediment”)

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.” Determinations of “suspended, total” constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropeda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889–00 Standard test method for turbidity of water, in ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400-680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780-900 nm, also with varying light detection configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400-680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400-680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400-680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400-680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400-680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780-900 nm] or monochrome light source, 30±15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780-900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780-900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see *http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html*.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

Watershed (See "Drainage basin")

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

SELECTED REFERENCES

American Public Health Association, and others, 1965, Standard methods for the examination of water and waste-water, 12th edition: American Public Health Association, New York, 769 p.

Bureau of Economic and Business Research, 1998, Florida estimatesof population: University of Florida Report.

California State Water Quality Control Board, 1963, Water quality criteria; Pub. 3-A, 226 p.

Conover, C.S., and Leach, S.D., 1975, River basin and hydrologic unit map of Florida: Florida Bureau of Geology Map Series 72.

Ellis, M.M., Westfall, B.A., and Ellis, M.D., 1946, Determination of water quality, U.S. Fish and Wildlife Reserve Report 9, 122 p.

Florida Department of Environmental Regulation, 1983, Water quality standards: Chapter 17-3 in Florida Administrative Code.

-----1984, Public drinking water systems: Chapter 17-22 in Florida Administrative Code.

Hem, J.D., 1970, Study and interpretations of the chemical characteristics of natural water: U.S. Geological Survey Water-Supply Paper 1473, second edition, 363 p.

Hittle, Clinton, D.,1999, Delineation of saltwater intrusion in the Surficial Aquifer System in eastern Palm Beach, Martin, and St.Lucie counties, Florida, 1997-1998: U.S. Geological Survey Water-Resources Investigations Report 99-4214, Sheet in pocket.

Kirkor, Teodor, 1951, Protecting public waters from pollution in the USSR: Sewage Works Journal, v. 23, p. 938.

Langbein, W.B., and Iseri, K.T., 1960, General introduction and hydrologic definitions: U.S. Geological Survey Water-Supply Paper 1541-A, 29 p.

Maier, F.J., 1950, Fluoridation of public water supplies: Journal of the American Water Works Association, v. 42, pt. 1, p. 1120-1132.

Maxcy, K.F., 1950, Report on the relation of nitrite concentrations in well waters to the occurrence of methemoglobinemia: National Research Council, Sanitary Engineering and Environment Bulletin, Appendix D, 271 p.

McNeill, J.D., Bosnar, M.,and Snelgrove, F.B., 1990, Resolution of an electronic borehole conductivity logger for geotechnical and ground water applications, Technical note TN-25: Geonics Limited, Mississauga, Ontario, Canada, 28 p.

Paynter, O.E., 1960, The chronic toxicity of dodecylbenzene sodium sulfonate: U.S. Public Health Conference on Physiological Aspects of Water Quality Proc., Washington, D.C., Sept. 8-9, 1960, 175-179 p.

Prinos, S.T., Lietz, A.C., and Irvin, R.B., 2002, Design of a Real-Time Ground-Water Level Monitoring Network and Portrayal of Hydrologic Data in Southern Florida. U.S. Geological Survey Water-Resources Investigations Report 01-4275, 108 p.

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Publishing Corporation, New York, 7th ed., 285 p.

South Florida Water Management District, 2004, Monthly Rainfall Map, October 2, 2004 to November 1, 2004, Available from World Wide Web <*http://www.sfwmd.gov/curre/rainmaps/monthly.html*> (accessed June 5, 2006).

-----2004, 2005 Monthly Rainfall Maps, October 2, 2004 to September 1, 2005, Available from World Wide Web <*http://www.sfwmd.gov/curre/rainmaps/monthly.html*> (accessed June 5, 2006).

Swenson, H.A., and Baldwin, H.L., 1965, A primer on water quality: Washington, U.S. Government Printing Office, 27 p.

U.S. Bureau of the Census, Population Estimates Program, 2000 County Population Estimates and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1999, Available from World Wide Web <*http://www.census.gov/popest/archives/1990s/co-99-08/99C8_12.txt*> (accessed June 7, 2006)

-----2006,2005 Population Estimates, Geographic Area: Florida -- County. Available from World Wide Web <*http://factfinder.census.gov/servlet/GCTTable?_bm=y&-geo_id=04000US12&-_box_head_nbr=GCT-T1&-ds_name=PEP_2005_EST&-_lang=en&-format=ST-2&-_sse=on*> (accessed June 7, 2006)

U.S. Environmental Protection Agency, 1975, National interim primary drinking water regulations: Federal Register, v. 40, no. 51, March 14, p. 11990-11998.

-----1976 (1977), Quality criteria for water: U.S. Government Printing Office, 256 p.

---- 1977, National secondary drinking water regulations: Federal Register, v. 42, no. 62, March 31, 1977, p. 17143-17146.

Public Health Service, 1962, Drinking water standards: U.S. Department of Health, Education, and Welfare, Public Health Service: Pub. no. 956.

Wayman, C.H., Robertson, J.B., and Page, H.G., 1962, Foaming characteristics of synthetic detergent solutions: U.S. Geological Survey Professional Paper 450D, art. 178, D198 p.

THIS PAGE IS INTENTIONALLY BLANK

STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

THIS PAGE IS INTENTIONALLY BLANK

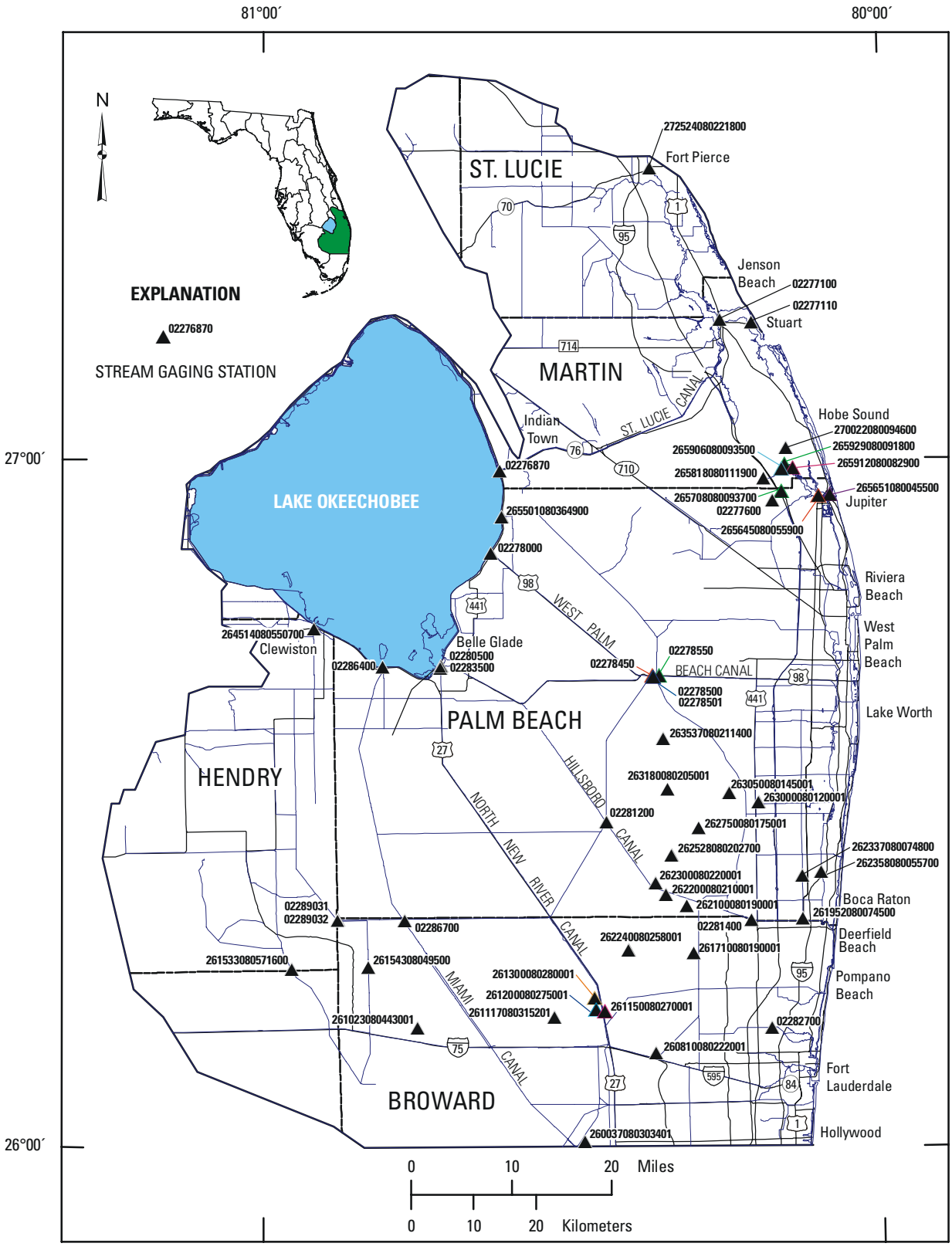


Figure 17. Location of gaging stations in the portion of the Everglades and the southeastern coastal area north of latitude 26 degrees.

272524080221800 FIVE MILE CANAL ABOVE S-29-1-4 NEAR FT. PIERCE, FL

LOCATION.--Lat 27 25'24", long 80 22'18", in SE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.19, T.35 S., R.40 E., St. Lucie County, Hydrologic Unit 03090202, on west bank of Five Mile Canal above structure S-29-1-4, 2.2 mi east of U.S. Interstate 95.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 2002 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (from engineering as-built drawings for structure S-29-1-4).

REMARKS.--Records poor. Flow regulated by vertical lift gates at structure S-29-1-4 located 250 feet downstream of station and agricultural pumping. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 2 complete water year of discharge (2004,2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.28 ft Sept. 26, 2004; minimum, 2.98 ft Oct. 22, 23, 2003.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.74 ft June 6; minimum, 3.62 ft Aug. 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.18	5.58	4.25	5.95	5.90	6.13	6.57	6.52	7.49	7.74	7.29	6.15
2	7.50	5.36	4.27	5.94	5.90	6.14	6.72	6.63	7.82	7.08	7.00	6.21
3	6.63	5.21	4.22	5.93	5.91	6.06	6.67	6.59	7.90	7.18	6.99	6.20
4	6.01	5.21	4.17	5.93	5.91	6.56	6.54	7.15	9.87	7.41	6.70	6.25
5	4.87	5.81	4.21	5.93	5.90	6.41	6.51	9.09	9.95	6.86	6.57	6.52
6	4.56	5.63	4.38	5.92	5.90	6.24	6.51	7.78	10.35	6.65	6.46	6.60
7	5.69	5.22	5.70	5.92	5.90	---	6.60	7.23	9.02	6.54	6.62	6.51
8	5.44	4.99	5.90	5.92	5.89	6.18	8.16	7.05	8.04	6.52	7.10	6.39
9	4.96	5.15	5.90	5.92	5.89	---	7.06	6.98	7.80	6.46	6.77	6.31
10	4.65	6.00	5.91	5.91	5.89	7.20	6.72	6.94	7.51	7.20	6.57	6.27
11	4.58	6.00	5.91	5.91	5.88	6.64	6.54	6.90	8.71	7.40	6.45	6.20
12	4.68	5.84	5.90	5.91	5.88	6.06	6.48	6.84	6.87	7.50	6.39	6.21
13	4.73	5.74	5.90	5.91	5.89	6.09	6.49	6.84	---	6.99	6.37	6.12
14	4.45	5.85	5.90	6.02	5.88	6.45	6.48	6.82	4.57	6.76	6.36	5.98
15	4.43	6.00	5.90	6.10	5.89	6.61	6.40	6.82	5.65	---	6.31	5.92
16	4.39	5.94	5.91	6.00	5.89	6.50	6.38	6.80	6.78	6.60	6.28	5.91
17	4.16	5.82	5.94	5.92	5.88	7.40	6.42	6.59	---	6.51	6.27	5.91
18	4.01	5.76	6.12	5.92	5.88	7.62	6.46	6.34	6.68	6.45	6.21	5.91
19	4.10	5.69	5.94	5.91	5.88	6.99	6.49	6.32	6.65	6.42	6.19	5.92
20	5.20	5.64	5.91	5.92	5.88	6.71	6.43	6.32	6.77	6.40	6.20	5.93
21	6.30	5.59	5.90	5.92	5.88	6.89	6.46	6.33	6.72	6.35	6.26	6.02
22	6.10	5.44	5.90	5.92	5.89	7.53	6.44	6.33	6.61	6.33	6.30	6.06
23	5.92	5.73	5.90	5.92	5.89	7.03	6.43	6.31	6.57	6.30	6.25	6.23
24	6.01	5.73	5.91	5.91	5.89	6.82	6.53	6.28	6.67	6.29	6.24	6.43
25	5.93	5.78	5.98	5.91	6.17	6.75	6.43	6.38	6.62	6.35	4.94	6.38
26	5.82	5.82	6.04	5.91	6.24	6.90	6.40	6.75	6.61	6.38	4.98	6.34
27	5.76	5.54	5.95	5.90	6.37	6.73	7.05	6.56	6.95	6.32	6.37	6.34
28	5.82	5.30	5.94	5.91	6.22	6.66	7.02	6.44	6.90	6.27	6.29	6.39
29	6.06	5.08	5.94	5.93	---	6.76	6.73	6.36	6.73	6.27	6.23	6.53
30	5.88	4.64	5.96	5.92	---	6.60	6.57	6.36	6.89	6.37	5.96	6.55
31	5.76	---	5.95	5.91	---	6.57	---	6.59	---	6.90	6.10	---
TOTAL	169.58	167.09	173.61	183.85	166.37	---	198.69	209.24	---	---	197.02	186.69
MEAN	5.47	5.57	5.60	5.93	5.94	---	6.62	6.75	---	---	6.36	6.22
MAX	9.18	6.00	6.12	6.10	6.37	---	8.16	9.09	---	---	7.29	6.60
MIN	4.01	4.64	4.17	5.90	5.88	---	6.38	6.28	---	---	4.94	5.91

272524080221800 FIVE MILE CANAL ABOVE S-29-1-4 NEAR FT. PIERCE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	8.5	3.4	3.1	2.3	7.8	31	11	99	133	78	9.8
2	151	6.0	3.2	2.8	1.5	7.6	42	17	118	63	52	12
3	107	6.3	3.3	3.1	3.5	8.1	37	20	135	74	51	13
4	79	6.7	3.5	2.9	1.5	31	28	56	362	97	31	14
5	41	6.3	3.2	1.9	2.0	26	27	137	381	45	23	25
6	39	5.8	2.8	2.3	2.5	16	26	58	383	31	19	30
7	75	5.3	1.9	2.4	1.6	e13	30	32	193	25	35	24
8	63	4.9	2.9	2.5	0.96	13	135	24	90	23	63	18
9	48	5.6	3.2	2.3	2.0	e28	61	21	74	22	36	15
10	42	9.6	2.8	1.6	1.6	82	38	20	55	72	24	14
11	40	8.2	2.4	2.6	1.8	41	26	19	299	93	19	12
12	40	7.8	3.1	4.0	2.0	7.9	23	18	171	107	16	13
13	43	5.7	1.3	4.2	3.1	9.9	23	18	77	55	15	9.1
14	38	7.3	1.1	5.4	1.7	28	22	18	52	36	15	4.5
15	38	10	1.6	7.0	1.1	32	21	17	36	e35	13	3.7
16	39	7.6	2.2	3.3	1.7	25	19	18	35	26	12	3.3
17	33	6.8	0.62	2.1	1.2	95	17	18	e35	22	12	3.2
18	e24	5.8	8.7	2.0	1.9	109	13	18	29	19	10	3.6
19	19	6.0	4.3	3.5	1.9	55	11	15	28	18	9.3	4.0
20	16	6.7	4.5	4.0	2.4	35	8.5	16	34	17	10	4.6
21	16	6.0	4.0	2.4	2.8	47	7.3	17	31	15	13	5.8
22	11	5.0	4.8	3.1	1.6	95	4.4	17	25	14	13	7.4
23	7.1	7.0	2.6	2.6	1.0	60	6.6	17	23	14	12	13
24	9.7	5.7	1.0	2.6	1.9	45	6.5	15	29	13	11	21
25	7.8	6.0	5.3	2.4	11	42	3.4	19	29	15	19	19
26	7.6	5.7	6.6	1.4	12	53	3.9	37	27	17	21	17
27	6.7	5.4	3.4	1.4	15	39	32	26	50	14	15	17
28	7.5	4.2	3.4	3.5	9.0	35	36	20	45	12	13	20
29	11	5.0	2.9	4.3	---	42	18	18	34	13	10	27
30	7.9	4.1	2.9	2.4	---	31	14	18	50	17	4.7	28
31	8.0	---	3.1	1.1	---	29	---	31	---	53	6.8	---
TOTAL	1,275.3	191.0	100.02	90.2	92.56	1,188.3	770.6	806	3,029	1,210	681.8	411.0
MEAN	41.1	6.37	3.23	2.91	3.31	38.3	25.7	26.0	101	39.0	22.0	13.7
MAX	200	10	8.7	7.0	15	109	135	137	383	133	78	30
MIN	6.7	4.1	0.62	1.1	0.96	7.6	3.4	11	23	12	4.7	3.2
AC-FT	2,530	379	198	179	184	2,360	1,530	1,600	6,010	2,400	1,350	815

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	25.6	12.7	4.42	10.3	12.8	21.9	13.5	12.9	44.9	20.0	43.9	81.7
MAX	41.1	19.1	5.62	22.4	23.1	38.3	25.7	26.0	101	39.0	83.1	201
(WY)	(2005)	(2004)	(2004)	(2003)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2004)
MIN	9.97	6.37	3.23	2.91	3.31	5.39	6.58	0.87	0.42	0.98	22.0	13.7
(WY)	(2004)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	9,695.62		9,845.78			
ANNUAL MEAN	26.5		27.0		26.0	
HIGHEST ANNUAL MEAN					27.0	2005
LOWEST ANNUAL MEAN					25.1	2004
HIGHEST DAILY MEAN	444	Sep 6	383	Jun 6	444	Sep 6, 2004
LOWEST DAILY MEAN	-5.4	Jul 10	0.62	Dec 17	-5.4	Jul 10, 2004
ANNUAL SEVEN-DAY MINIMUM	-0.98	Jun 21	1.7	Feb 14	-0.98	Jun 21, 2004
ANNUAL RUNOFF (AC-FT)	19,230		19,530		18,860	
10 PERCENT EXCEEDS	57		57		55	
50 PERCENT EXCEEDS	4.5		14		7.4	
90 PERCENT EXCEEDS	0.05		2.4		1.4	

e Estimated

02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL

LOCATION.-- Lat 26 59'00", long 80 03'70", in sec.22, T.40 S., R.37 E., Martin County, Hydrologic Unit 03090202, 0.5 mi downstream of control structure 308, directly beneath the U.S. Highway 441 overpass, just north of U.S. Highway 76 and 24 mi upstream of control structure 80.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1931 to September 1952, October 1981 to current year. Prior to October 1946, published as St. Lucie Canal at lock 1, at Lake Okeechobee. Previously published as station number 02276500. All published data stored under current station number. Canal stage previously published under 02276871 has been moved to the current station number 02276870 for publication. Lake and canal stage at Lock Structure S-308 discontinued September 30, 1998.

REVISED RECORDS.--WDR FL-00-2A, 1999; WRD FL-03-2A, 2002.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter installed May 17, 2001. Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until October 19, 2001, when it was removed. The acoustic velocity meter and acoustic Doppler velocity meter were run in tandem for the period of May 17, 2001 to October 19, 2001. This acoustic velocity meter station is located 0.5 mi downstream of S-308 and is stored under 02276877 in the files of the U.S. Geological Survey. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S.Army Corps of Engineers bench mark). Prior to January 17, 1934, staff gage at site 0.4 mi downstream at different datum. January 17, 1934 to March 15, 1951, water-stage recorder at site 0.8 mi downstream at datum 1.56 ft lower. March 16, 1951, to September 1952, water-stage recorder at bridge on U.S. Highway 441 at present datum. January 17, 1934, to September 1952, auxiliary water-stage recorder 10.9 mi downstream. Prior to April 24, 1992, canal stage data obtained with digital water level recorder. August 1, 1986 to June 20, 1989, electromagnetic velocity meter and canal stage recorder 1200 ft downstream of S-308. April 4, 1992 satellite data collection platform installed at S-308 for lake and canal stages. May 1994, satellite data collection platform with water-stage shaft encoder for canal stage and acoustic velocity meter with cross path installed 0.5 mi downstream of S-308. This data was not used until October 1, 1996, to determine the discharge from S-308. The discharge is computed under station number 02276877, then stored under 02276870 for publication. Prior to October 1, 1998, satellite data collection platform with water-stage shaft encoders for lake and canal stages in control house of S-308.

REMARKS.--Records poor. Flow regulated by control structure 308 gates and lock at Lake Okeechobee. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades (negative figures indicate reverse flow towards Lake Okeechobee). Discharge computed from relations between discharge, head, gate openings, and slope prior to October 1, 1996. Flow is determined by relationship between the mean cross-sectional velocity and an average index line velocity (from the cross path index line velocities) measured with the acoustic velocity meter, from October 1, 1996 to August 13, 2001, acoustic Doppler velocity meter, August 14, 2001 to present. Extreme lake stages for the current year no longer published due to the discontinuation of the U.S. Geological Survey equipment at S-308.

COOPERATION.--Canal stage record provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 36 complete water years of discharge (1932-52, 1982-88, 1990, 1993-1996, 1999-2000, 2002).

EXTREME LAKE STAGES FOR PERIOD OF RECORD (1931-1998).--Maximum gage height, 19.63 ft Mar. 9, 1998; minimum, 9.63 ft June 22, 1990.

EXTREME CANAL STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.87 ft Sept. 26, 2004; minimum, 8.66 ft May 22, 2001.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 17.47 ft Oct. 19; minimum, 11.83 ft Aug. 25.

02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.28	15.91	14.54	14.64	14.30	14.19	14.11	14.35	14.05	14.64	16.03	14.36
2	15.64	15.92	14.64	14.62	14.18	14.26	14.26	14.29	14.44	15.04	15.06	14.41
3	15.87	15.97	14.52	14.39	14.22	14.37	14.14	14.37	14.66	15.42	14.79	14.53
4	---	16.02	14.44	14.20	14.37	14.35	14.23	14.35	15.27	15.55	14.57	14.36
5	16.42	16.14	14.40	14.38	14.22	14.39	14.32	14.35	14.89	15.60	14.55	14.58
6	16.90	16.10	14.24	14.27	14.52	14.29	14.44	14.18	14.18	15.73	14.57	---
7	16.43	16.07	14.13	14.26	14.40	14.41	14.49	14.46	14.47	15.44	14.55	14.53
8	16.75	16.01	14.27	14.41	14.44	14.37	14.43	14.51	14.62	14.89	14.59	14.44
9	17.02	---	14.14	14.48	14.41	14.46	14.39	14.47	14.62	14.96	14.56	14.39
10	17.02	15.67	14.40	14.27	14.34	14.31	14.21	14.46	14.53	14.84	14.53	14.46
11	16.99	14.81	14.24	14.26	14.33	14.36	14.31	14.45	14.48	14.80	14.54	14.22
12	17.02	14.74	14.09	14.48	14.34	14.17	14.12	14.44	14.32	14.83	14.46	14.40
13	16.98	14.85	14.23	14.25	14.40	14.16	14.10	14.39	14.36	14.82	14.50	14.29
14	16.99	14.69	14.66	14.32	14.29	14.24	14.16	14.41	14.48	15.81	14.49	14.24
15	17.03	14.39	14.50	14.50	14.17	14.36	14.23	14.41	14.34	---	14.51	14.24
16	16.91	---	14.50	14.35	14.31	14.45	14.29	14.38	14.26	16.45	14.49	14.56
17	17.02	14.23	14.49	14.44	14.30	14.59	14.42	14.31	14.51	16.42	14.79	14.62
18	16.98	14.23	14.44	14.48	14.38	14.28	14.43	14.20	14.66	16.41	15.73	14.69
19	17.14	14.32	14.37	14.46	14.43	14.21	14.26	14.09	14.71	16.41	15.68	14.62
20	---	14.68	14.16	14.40	14.36	14.45	14.28	14.10	14.60	16.40	15.64	14.48
21	17.19	14.72	14.43	14.31	14.26	14.35	14.26	14.20	14.47	16.37	15.60	14.27
22	17.10	14.59	14.52	14.31	14.27	14.34	14.13	14.11	14.27	16.39	15.26	14.56
23	17.08	14.40	14.36	14.27	14.35	14.27	14.14	14.09	14.35	16.40	15.03	14.39
24	17.06	14.30	14.29	14.24	14.37	14.42	14.24	14.16	14.55	16.37	13.84	14.42
25	16.96	14.34	14.29	14.20	14.35	14.27	14.21	14.11	14.52	16.30	12.14	14.49
26	16.74	14.38	14.11	14.41	14.20	14.47	14.41	14.01	14.40	16.25	13.02	14.59
27	15.99	14.29	14.05	14.51	14.27	14.62	14.47	14.09	14.51	16.24	14.40	14.66
28	15.92	14.21	14.18	14.53	14.15	14.69	14.41	14.11	14.55	16.17	14.59	14.58
29	16.00	14.06	14.29	14.52	---	14.41	14.41	14.01	14.66	16.12	14.48	14.58
30	15.99	14.20	14.51	14.36	---	14.27	14.35	13.96	14.49	16.05	14.42	14.35
31	15.95	---	14.59	14.30	---	14.29	---	13.94	---	16.05	14.34	---
TOTAL	---	---	445.02	445.82	400.93	445.07	428.65	441.76	435.22	---	453.75	---
MEAN	---	---	14.36	14.38	14.32	14.36	14.29	14.25	14.51	---	14.64	---
MAX	---	---	14.66	14.64	14.52	14.69	14.49	14.51	15.27	---	16.03	---
MIN	---	---	14.05	14.20	14.15	14.16	14.10	13.94	14.05	---	12.14	---

02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,330	3,480	1,700	129	538	121	575	579	434	1,170	5,140	520
2	1,860	3,480	1,480	78	703	239	221	579	-24	2,070	3,220	362
3	2,340	3,450	1,080	60	543	145	323	518	-281	2,480	2,040	151
4	e2,490	3,560	937	145	242	51	288	180	-333	2,490	2,000	30
5	3,570	3,680	936	284	266	-53	242	-18	443	2,690	2,020	20
6	5,040	3,550	726	87	901	162	804	330	121	---	2,040	e664
7	4,720	3,490	683	174	1,770	-55	1,220	929	390	---	1,980	1,180
8	5,130	3,580	378	93	1,960	-74	1,130	1,570	1,330	---	1,850	1,390
9	5,040	e3,620	419	74	1,610	49	727	1,820	1,360	---	1,980	1,130
10	5,170	2,620	201	170	1,210	106	587	1,370	977	---	1,980	592
11	5,160	1,900	-30	546	1,000	-14	661	922	519	---	1,960	675
12	5,270	2,370	175	224	683	59	379	872	441	---	1,990	575
13	5,460	1,670	1,130	149	593	79	254	813	327	2,510	2,030	249
14	5,530	932	1,650	157	423	117	61	520	254	4,480	2,030	511
15	5,560	921	1,660	42	499	33	81	387	261	e5,040	2,160	297
16	5,460	e865	1,490	8.2	569	924	790	265	59	5,490	2,130	1,140
17	5,490	877	955	51	314	657	1,460	255	678	5,390	2,680	1,390
18	5,460	748	629	58	460	368	1,480	1,100	1,600	5,650	4,100	1,960
19	6,480	750	465	9.6	376	639	1,290	1,850	1,840	5,760	4,360	1,760
20	e6,590	966	528	-47	276	245	854	2,080	1,250	5,830	4,420	990
21	6,510	1,370	461	-18	380	53	682	1,390	648	5,600	4,290	792
22	6,420	1,300	110	-2.6	514	56	457	844	438	5,720	3,170	479
23	6,550	1,070	-65	-29	272	68	485	1,100	387	5,770	1,630	203
24	6,450	741	9.2	341	413	190	91	825	24	5,840	415	416
25	5,800	341	44	163	59	159	156	334	-126	5,710	141	328
26	4,670	595	-48	511	50	991	1,080	-115	45	5,520	395	1,080
27	3,060	342	197	1,400	-80	2,010	1,470	-344	99	5,130	1,010	1,930
28	3,450	109	514	1,350	5.5	1,960	1,340	591	368	5,550	1,680	1,740
29	3,550	358	249	1,010	---	1,350	1,220	1,280	480	5,430	1,850	1,120
30	3,440	934	153	594	---	902	864	1,440	816	5,370	1,540	730
31	3,420	---	145	662	---	601	---	1,210	---	5,270	757	---
TOTAL	146,470	53,669	18,961.2	8,473.2	16,549.5	12,138	21,272	25,476	14,825	---	68,988	24,404
MEAN	4,725	1,789	612	273	591	392	709	822	494	---	2,225	813
MAX	6,590	3,680	1,700	1,400	1,960	2,010	1,480	2,080	1,840	---	5,140	1,960
MIN	1,330	109	-65	-47	-80	-74	61	-344	-333	---	141	20
AC-FT	290,500	106,500	37,610	16,810	32,830	24,080	42,190	50,530	29,410	---	136,800	48,410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	1,650	1,059	704	605	649	902	1,069	620	479	636	794	1,093
MAX	6,480	6,831	6,350	5,649	5,453	7,246	4,620	4,474	3,949	4,697	5,152	6,403
(WY)	(1948)	(1948)	(1948)	(1948)	(1948)	(1983)	(1983)	(1931)	(1931)	(1947)	(1947)	(1949)
MIN	-1,101	-120	-138	-130	-24.1	-647	-531	-242	-1,107	-618	-614	-1,036
(WY)	(1988)	(1988)	(1986)	(1986)	(1991)	(1989)	(1991)	(1991)	(1994)	(1989)	(1985)	(1989)

SUMMARY STATISTICS — WATER YEARS 1931 - 2005

ANNUAL MEAN	899	
HIGHEST ANNUAL MEAN	3,511	1948
LOWEST ANNUAL MEAN	-49.6	1986
HIGHEST DAILY MEAN	8,150	Feb 26, 1983
LOWEST DAILY MEAN	-4,280	Sep 14, 1985
ANNUAL SEVEN-DAY MINIMUM	-2,980	Aug 7, 1985
ANNUAL RUNOFF (AC-FT)	650,900	
10 PERCENT EXCEEDS	3,700	
50 PERCENT EXCEEDS	185	
90 PERCENT EXCEEDS	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.

02277100 ST. LUCIE RIVER AT SPEEDY POINT, STUART, FL

LOCATION.--Lat 27 12'07", long 80 15'32", in SW $^{1}/_{4}$ NW $^{1}/_{4}$ NE $^{1}/_{4}$, sec.5, T.38 S., R.41 E., Martin County, Hydrologic Unit 03090202, middle of Roosevelt Bridge, 2.7 mi west of Atlantic Ocean, 0.4 mi northwest of Stuart.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--August 1997 to current year.

REVISED RECORDS.--WDR FL-2004-2A, 2002, 2003.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum (NGVD) of 1929.

REMARKS.--Data prior to October 1, 2001, is available in the U.S. Geological Survey Open-File Report 2004-1265. Prior to October 1, 2002, only the mean daily gage height and discharge records are available in the files of the U.S. Geological Survey. Prior to October 1, 2002, data was published at a datum 0.02 ft lower than current datum. During periods of missing record, values may be higher or lower than the listed extremes.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 5.32 ft Sept. 5, 2004; minimum, -1.05 ft Dec. 11, 2004.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 2.83 ft Oct. 25; minimum, -1.05 ft Dec. 11.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): August 1997 to current year.
WATER TEMPERATURE (TOP, BOTTOM): August 1997 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors. Data prior to October 1, 2001, is available in the U.S. Geological Survey Open-File Report 2004-1265. Prior to October 1, 2002, only the mean daily salinity and water temperature records are available in the files of the U.S. Geological Survey.

REMARKS.--Salinity (TOP) record (maximum and minimum) rated excellent except for the following periods: Dec. 31 to Jan 13, Mar. 9, 10, Aug. 9-18, which are good. Salinity (BOTTOM) record (maximum and minimum) rated excellent except for the following periods: Dec. 13 to Jan. 6, Jan. 31 to Feb. 10, which are good, Jan. 7-13, which is rated fair. Temperature (TOP and BOTTOM) (maximum and minimum) record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -1.87 ft NGVD (TOP) and -8.6 ft NGVD (BOTTOM).

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 32.3 ppt Feb. 24, 2002; minimum recorded, 0.0 ppt Mar. 12, 1998, Nov. 3, 1999.
SALINITY (BOTTOM): Maximum recorded, 31.8 ppt Apr. 30, 2001; minimum recorded, 0.1 ppt on multiple days during the months of Apr. 1998, Oct. 1999, Aug. 2001, Sept. 2004, Oct. 2004, and July 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 33.9 C July 16, 2002; minimum recorded, 11.4 C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.7 C Aug. 2, 1998; minimum recorded, 12.0 C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 24.4 ppt Feb. 5, 6; minimum recorded, 0.1 ppt on multiple days during the months of Oct. and July.
SALINITY (BOTTOM): Maximum recorded, 29.2 ppt Apr. 16; minimum recorded, 0.1 ppt on multiple days during the months of Oct., June, July, Aug. and Sept.
WATER TEMPERATURE (TOP): Maximum recorded, 33.4 C Aug. 14, 17; minimum recorded, 14.6 C Jan. 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.4 C Aug. 17; minimum recorded, 15.0 C Jan. 25.

02277100 ST. LUCIE RIVER AT SPEEDY POINT, STUART, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.96	0.54	1.63	0.23	1.19	-0.13	0.88	-0.29	1.81	0.55	1.00	-0.13
2	1.81	0.42	1.47	0.02	1.20	-0.13	1.03	-0.11	1.89	0.47	0.97	-0.19
3	1.80	0.36	1.51	0.05	1.31	-0.02	0.91	-0.26	1.87	0.52	0.91	-0.09
4	1.81	0.46	1.52	0.17	1.35	0.17	0.77	-0.38	2.13	0.53	1.11	-0.08
5	1.82	0.42	1.54	0.14	1.09	-0.12	0.96	-0.53	2.65	1.05	0.69	-0.13
6	1.88	0.62	2.06	0.64	0.91	-0.29	0.90	-0.54	2.63	0.93	0.53	-0.25
7	2.18	1.04	1.86	0.72	0.89	-0.31	0.87	-0.66	2.28	0.73	0.56	-0.09
8	2.27	0.96	1.64	0.51	0.97	-0.37	0.98	-0.71	2.35	0.59	0.47	-0.02
9	2.30	1.03	1.88	0.38	0.88	-0.63	0.93	-0.79	2.01	0.48	0.89	-0.37
10	2.24	0.96	2.38	0.95	0.69	-0.87	1.17	-0.68	1.67	0.25	1.47	0.09
11	2.02	0.79	2.25	0.80	0.66	-1.05	1.41	-0.48	1.75	0.24	1.26	0.02
12	2.06	0.66	2.14	0.40	0.91	-0.92	1.36	-0.30	1.73	0.45	0.97	-0.45
13	2.23	0.80	1.94	0.17	0.82	-0.85	1.39	-0.24	1.67	0.20	0.77	-0.51
14	2.31	0.73	2.40	0.18	0.86	-0.88	0.92	-0.41	1.44	-0.15	0.62	-0.75
15	2.42	0.78	2.78	1.00	1.35	-0.59	1.37	-0.13	1.07	-0.39	0.51	-0.63
16	2.23	0.50	2.28	0.69	1.63	0.05	1.73	0.57	0.85	-0.32	0.83	-0.28
17	2.03	0.29	2.00	0.39	1.31	-0.11	1.93	0.53	1.01	-0.27	1.04	0.05
18	1.77	0.13	1.84	0.40	1.47	0.13	1.84	0.49	1.03	-0.25	1.37	0.29
19	1.64	-0.07	1.72	0.33	1.39	-0.01	1.83	0.19	1.29	-0.03	1.57	0.23
20	1.71	-0.11	1.64	0.32	1.15	-0.01	1.50	0.11	0.87	-0.23	1.49	0.22
21	1.93	0.19	1.50	0.29	1.31	-0.21	1.51	0.03	0.53	-0.56	1.36	0.08
22	2.44	0.77	1.60	0.16	1.10	-0.36	1.33	-0.12	0.51	-0.73	1.43	0.21
23	2.65	1.22	1.71	0.23	1.10	-0.28	1.18	-0.23	0.65	-0.68	1.17	-0.12
24	2.81	1.42	1.68	0.11	1.00	-0.59	1.55	0.02	0.85	-0.43	1.05	-0.27
25	2.83	1.47	1.30	-0.11	1.51	-0.28	1.65	0.19	1.09	-0.32	1.22	-0.17
26	2.76	1.35	1.40	-0.33	1.17	0.01	1.65	0.22	1.37	0.24	1.46	-0.03
27	2.76	1.22	1.73	0.09	1.68	0.00	1.47	0.03	1.49	0.33	1.61	0.07
28	2.51	0.99	1.41	-0.11	1.72	0.38	1.98	0.34	1.32	-0.03	1.61	-0.11
29	2.32	0.79	1.45	-0.11	1.47	0.13	1.88	0.64	---	---	1.37	-0.15
30	2.20	0.61	1.44	-0.09	1.41	-0.01	1.67	0.51	---	---	1.41	-0.32
31	1.96	0.47	---	---	1.21	-0.03	1.73	0.61	---	---	1.19	-0.45
MONTH	2.83	-0.11	2.78	-0.33	1.72	-1.05	1.98	-0.79	2.65	-0.73	1.61	-0.75
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.01	-0.45	0.73	-0.65	1.56	0.24	1.37	-0.14	1.27	-0.24	1.45	0.07
2	1.07	-0.55	1.03	-0.65	1.54	0.17	1.39	-0.17	1.39	-0.19	1.59	0.23
3	0.93	-0.52	1.40	-0.03	1.49	-0.03	1.24	-0.19	1.54	0.01	2.00	0.53
4	1.11	-0.32	1.38	0.03	1.58	0.11	1.21	-0.31	1.47	0.07	1.99	0.78
5	1.05	-0.33	1.43	-0.05	1.60	-0.07	1.34	-0.29	1.44	0.06	1.98	0.67
6	1.15	-0.27	1.83	0.21	1.63	0.07	1.39	-0.08	1.47	0.13	2.21	0.94
7	1.13	-0.27	1.89	0.34	1.57	-0.12	1.39	-0.15	1.55	0.34	---	---
8	1.40	-0.17	1.82	0.07	1.52	0.10	1.32	-0.21	1.69	0.49	---	---
9	1.47	-0.13	1.59	-0.21	1.61	0.03	1.25	-0.05	1.63	0.45	---	---
10	1.56	0.04	1.37	-0.23	1.46	0.04	1.07	-0.37	1.56	0.32	---	---
11	1.71	0.15	1.22	-0.36	1.37	-0.10	0.87	-0.15	1.39	0.13	---	---
12	1.65	-0.03	1.10	-0.22	1.15	-0.23	1.00	-0.05	1.25	-0.05	---	---
13	1.39	-0.31	1.21	-0.02	1.02	-0.03	1.05	-0.04	1.31	-0.17	2.35	0.78
14	1.15	0.15	1.29	-0.05	1.15	-0.01	1.12	-0.07	1.39	-0.17	2.46	0.76
15	1.67	0.67	1.18	-0.05	1.03	-0.10	---	---	1.33	-0.29	2.52	0.82
16	2.05	0.97	1.17	0.01	0.93	-0.34	1.14	-0.27	1.37	-0.29	2.36	0.85
17	2.13	0.99	1.00	-0.07	1.20	-0.22	1.23	-0.30	1.45	-0.34	2.21	0.72
18	1.98	0.79	1.11	0.10	1.38	-0.22	1.31	-0.34	1.59	-0.13	2.24	0.77
19	1.65	0.57	1.36	0.15	1.55	-0.19	1.32	-0.37	1.72	0.00	2.35	0.86
20	1.41	0.21	1.59	0.17	1.59	-0.14	1.39	-0.36	1.73	0.13	2.72	1.24
21	1.27	0.05	1.62	0.08	1.76	-0.07	1.45	-0.27	1.73	0.23	2.14	0.60
22	1.33	-0.01	1.93	0.22	1.71	-0.07	1.49	-0.13	1.73	0.29	1.87	0.46
23	1.21	-0.30	1.83	0.19	1.73	-0.04	1.57	-0.17	1.60	0.14	1.81	0.39
24	1.41	-0.19	1.81	-0.13	1.81	0.35	1.53	0.19	1.56	0.01	1.80	0.36
25	1.41	-0.17	1.77	0.21	1.95	0.23	1.69	0.38	2.31	0.51	1.89	0.56
26	1.37	-0.41	1.95	0.25	1.81	0.35	1.73	0.39	1.92	0.53	1.93	0.59
27	1.19	-0.60	1.91	0.01	1.79	0.31	1.43	0.05	1.89	0.48	2.04	0.74
28	1.01	-0.32	1.60	-0.11	1.47	0.15	1.14	-0.24	1.66	0.31	2.03	0.80
29	1.30	-0.33	1.43	0.12	1.19	-0.03	1.01	-0.39	1.53	0.09	2.14	0.84
30	1.11	-0.64	1.57	0.25	1.25	-0.19	0.95	-0.43	1.55	0.15	2.17	0.93
31	---	---	1.55	0.23	---	---	1.13	-0.25	1.47	0.11	---	---
MONTH	2.13	-0.64	1.95	-0.65	1.95	-0.34	1.73	-0.43	2.31	-0.34	2.72	0.07
YEAR	2.83	-1.05										

02277100 ST. LUCIE RIVER AT SPEEDY POINT, STUART, FL—Continued

TOP
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.2	0.1	0.8	0.2	12.0	4.6	18.0	13.3	18.3	9.4	21.3	16.2
2	0.2	0.1	0.5	0.2	12.6	3.4	18.3	14.2	19.2	8.4	21.6	16.0
3	0.2	0.1	0.5	0.2	12.4	4.1	17.5	13.8	18.8	8.7	20.5	15.2
4	0.2	0.1	0.8	0.2	12.3	4.3	17.1	13.3	20.8	11.8	21.3	13.8
5	0.2	0.2	1.3	0.2	11.8	4.0	17.5	13.4	24.4	17.9	18.8	12.7
6	0.2	0.2	4.2	0.4	12.0	5.8	18.0	13.3	24.4	17.1	18.8	12.4
7	0.2	0.2	3.3	0.6	11.8	6.2	19.0	12.8	20.7	10.5	18.9	11.9
8	0.2	0.2	3.2	0.5	12.9	7.3	19.6	13.7	18.8	7.2	19.5	13.4
9	0.2	0.2	4.2	0.6	13.5	7.5	19.9	13.4	16.5	5.7	20.5	15.6
10	0.2	0.2	3.0	0.9	14.1	8.0	20.5	12.8	18.3	7.4	18.6	11.8
11	0.2	0.2	2.4	0.8	16.1	9.1	22.3	13.9	19.0	7.0	16.0	8.8
12	0.2	0.2	2.0	0.6	19.2	11.4	21.2	15.1	18.4	7.0	14.4	8.0
13	0.4	0.2	4.2	0.6	18.3	7.8	22.7	16.4	18.9	8.7	14.6	6.9
14	0.8	0.2	8.7	1.1	16.5	6.4	20.7	16.4	17.7	9.4	14.6	7.4
15	1.3	0.2	10.3	2.6	19.7	2.8	21.0	14.8	16.4	11.3	15.0	8.2
16	1.3	0.2	6.2	2.0	17.5	4.7	23.1	15.4	17.3	11.6	15.5	7.3
17	0.8	0.2	8.1	1.8	14.0	3.9	23.6	16.9	20.1	13.5	14.9	4.0
18	0.4	0.2	10.0	2.2	15.2	5.7	23.7	16.2	19.8	13.4	9.5	1.9
19	0.3	0.2	10.2	2.8	18.4	6.4	21.5	15.5	20.9	16.0	5.7	1.6
20	0.2	0.2	11.2	3.9	18.1	6.4	21.3	14.3	20.4	15.5	4.5	1.2
21	0.2	0.2	10.1	3.6	17.0	6.5	21.9	13.1	19.4	14.0	4.2	1.4
22	1.2	0.2	9.3	3.1	15.6	8.3	21.3	13.8	19.7	14.2	3.8	2.1
23	1.6	0.2	10.0	3.4	16.1	9.9	22.2	15.8	20.8	15.0	2.7	1.5
24	1.6	0.2	9.3	3.9	17.2	10.4	24.1	19.0	21.7	16.1	3.2	1.4
25	1.8	0.3	11.0	4.7	21.3	13.1	23.9	19.0	22.3	16.7	5.2	1.2
26	2.4	0.3	13.0	5.6	20.7	12.8	24.0	16.7	22.8	16.9	5.8	1.7
27	1.5	0.3	14.2	5.3	22.5	15.5	23.0	12.7	23.2	16.3	6.1	1.7
28	2.6	0.3	14.0	6.6	21.9	16.0	23.4	8.4	21.0	16.1	5.5	1.4
29	1.9	0.4	13.8	7.2	19.4	12.7	20.5	7.6	---	---	6.0	1.2
30	2.0	0.4	14.8	7.0	20.2	12.1	18.4	7.6	---	---	6.3	1.7
31	1.8	0.4	---	---	19.1	13.5	18.8	11.1	---	---	5.9	2.1
MONTH	2.6	0.1	14.8	0.2	22.5	2.8	24.1	7.6	24.4	5.7	21.6	1.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	2.5	10.4	5.3	10.0	5.4	0.6	0.2	0.2	0.2	4.9	0.8
2	6.8	2.7	11.9	4.2	7.6	3.6	0.6	0.2	0.3	0.2	6.8	1.3
3	8.1	2.6	14.8	8.0	4.2	2.0	0.4	0.2	1.1	0.2	7.8	1.5
4	9.4	2.1	14.1	7.6	2.3	0.7	0.3	0.2	1.3	0.2	7.4	2.0
5	9.9	2.7	13.7	8.5	1.0	0.4	0.3	0.2	2.0	0.2	6.4	1.4
6	11.6	4.8	15.3	6.8	0.6	0.3	0.3	0.2	1.6	0.3	4.4	0.8
7	8.8	4.0	14.2	7.3	0.6	0.2	0.3	0.2	2.0	0.3	5.4	0.7
8	7.3	2.1	13.9	5.1	0.3	0.2	0.3	0.2	1.8	0.2	6.6	1.1
9	7.8	2.4	11.4	3.8	0.3	0.2	0.3	0.2	1.1	0.2	8.0	1.3
10	8.0	2.6	10.2	4.0	0.3	0.2	0.3	0.2	1.1	0.2	7.2	1.9
11	8.9	2.9	9.7	4.9	0.3	0.2	0.3	0.2	0.8	0.2	7.0	1.9
12	7.1	2.9	9.6	5.5	0.3	0.2	0.3	0.2	1.1	0.2	9.8	2.3
13	8.4	3.8	10.1	6.1	0.3	0.2	0.2	0.2	1.4	0.2	12.0	3.1
14	11.5	4.0	10.5	5.5	1.0	0.2	0.2	0.2	2.0	0.2	12.6	4.2
15	15.0	6.4	9.9	5.1	2.2	0.4	---	---	2.1	0.2	14.2	5.6
16	15.8	7.3	11.4	5.8	4.1	0.6	0.2	0.1	1.4	0.3	14.7	6.2
17	15.0	4.0	11.9	7.1	3.8	0.5	0.2	0.1	2.1	0.3	12.4	4.5
18	14.8	3.2	11.9	8.0	4.2	0.4	0.2	0.1	1.6	0.2	9.8	3.4
19	10.0	3.1	11.1	4.9	4.8	0.6	0.2	0.1	1.5	0.2	8.6	3.7
20	9.4	3.1	9.6	2.6	4.6	0.8	0.2	0.1	1.4	0.2	9.9	3.6
21	10.7	4.0	12.8	3.6	4.7	1.2	0.2	0.2	2.4	0.2	6.2	3.5
22	12.0	4.8	13.4	4.8	5.2	0.9	0.5	0.2	2.7	0.3	5.5	3.4
23	14.1	5.8	12.6	5.3	5.9	1.3	2.1	0.2	1.8	0.4	5.1	2.8
24	17.2	8.1	15.4	5.8	5.9	0.6	2.2	0.2	2.2	0.3	4.9	2.8
25	17.8	9.7	15.4	7.7	1.9	0.4	2.1	0.3	4.8	0.3	5.6	3.0
26	17.9	9.2	16.4	8.0	1.7	0.3	1.0	0.2	2.3	0.4	5.4	2.1
27	15.9	4.6	13.9	8.6	1.4	0.2	0.6	0.2	1.5	0.4	6.2	1.7
28	13.7	2.8	14.4	6.4	0.5	0.2	0.3	0.2	1.4	0.3	5.6	1.7
29	13.5	4.8	14.4	4.8	0.3	0.2	0.2	0.2	1.2	0.3	5.1	1.7
30	11.4	5.8	12.7	5.4	0.3	0.2	0.2	0.2	2.1	0.3	4.1	1.8
31	---	---	11.5	5.4	---	---	0.3	0.2	3.5	0.3	---	---
MONTH	17.9	2.1	16.4	2.6	10.0	0.2	2.2	0.1	4.8	0.2	14.7	0.7
YEAR	24.4	0.1										

02277100 ST. LUCIE RIVER AT SPEEDY POINT, STUART, FL—Continued

TOP
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.3	28.1	25.6	24.8	23.8	21.9	19.3	18.1	19.3	17.4	22.0	20.8
2	29.2	28.4	25.6	24.6	23.9	22.0	19.7	18.6	19.9	18.3	20.9	19.7
3	29.0	28.1	25.7	24.8	22.9	21.6	19.9	19.0	20.5	18.6	20.0	18.4
4	29.8	28.2	25.9	24.9	22.4	20.3	20.7	19.2	19.7	18.5	19.3	18.1
5	29.2	28.3	25.6	24.7	22.6	20.4	21.4	19.7	18.5	17.3	20.6	17.7
6	28.6	27.7	24.7	24.0	22.8	21.1	21.8	20.4	18.1	16.9	20.1	18.1
7	27.9	26.4	24.7	23.5	23.4	22.0	22.2	20.8	19.0	17.5	20.9	18.9
8	26.7	25.4	24.3	23.1	23.8	22.2	22.9	21.3	19.8	17.9	20.6	19.8
9	27.2	25.8	23.6	22.7	24.0	23.0	23.3	21.8	20.3	18.6	19.8	18.3
10	27.4	26.3	23.1	22.4	24.1	23.1	23.5	21.9	20.6	18.9	18.8	17.4
11	27.1	26.4	22.9	22.0	23.5	21.8	23.2	22.2	19.1	17.2	19.4	17.6
12	26.7	26.1	23.2	22.3	21.9	19.5	23.1	22.2	17.9	15.6	20.2	17.8
13	27.3	26.1	23.8	22.5	20.4	18.5	23.0	22.4	18.4	15.8	21.2	18.1
14	27.5	26.2	23.6	22.6	19.9	18.3	23.0	22.4	19.2	17.1	22.3	19.4
15	27.2	26.3	22.6	21.4	18.7	16.5	22.5	21.7	20.4	18.2	23.0	21.0
16	26.4	25.1	22.1	20.9	17.4	15.9	22.0	20.1	22.0	19.0	23.9	22.1
17	25.8	24.6	21.4	20.8	17.6	16.8	20.1	17.8	21.6	19.7	23.2	21.7
18	25.8	24.8	21.4	20.7	19.1	17.2	18.0	16.8	21.6	20.4	22.1	20.9
19	26.1	25.2	22.5	20.6	18.8	17.4	17.6	16.4	20.8	19.1	22.2	19.8
20	26.6	25.4	23.2	21.1	17.9	15.3	17.1	15.7	20.6	19.3	22.4	20.2
21	27.1	25.7	23.2	21.7	16.6	15.1	17.5	16.0	21.8	19.6	22.2	21.1
22	26.7	26.0	23.7	22.1	17.2	16.0	18.7	16.5	22.0	20.3	23.3	21.7
23	26.2	25.3	23.6	22.4	18.1	17.1	18.3	17.0	22.4	21.1	24.1	22.6
24	26.0	25.0	23.5	22.6	18.5	17.9	17.0	15.2	22.6	21.4	24.6	23.0
25	26.4	24.9	23.8	22.9	18.7	18.0	15.9	14.6	22.6	21.9	25.5	23.7
26	25.9	25.0	23.0	21.5	18.8	17.4	17.1	14.8	22.8	21.8	26.1	24.3
27	25.5	24.7	22.7	21.4	17.5	16.3	18.1	16.1	22.5	22.1	26.6	25.0
28	25.4	24.4	23.3	22.0	16.6	16.1	17.8	17.0	23.0	21.9	25.8	24.0
29	25.4	24.5	22.7	21.7	16.8	15.8	18.4	16.8	---	---	25.4	23.5
30	25.9	24.7	22.4	21.6	17.6	16.5	19.1	17.4	---	---	26.8	23.3
31	25.8	24.7	---	---	18.5	17.3	19.1	17.5	---	---	25.9	24.1
MONTH	29.8	24.4	25.9	20.6	24.1	15.1	23.5	14.6	23.0	15.6	26.8	17.4
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.5	24.5	26.0	25.0	28.6	27.4	30.0	28.5	30.8	29.4	31.8	29.8
2	25.4	23.5	27.2	25.1	27.4	26.6	30.6	29.3	30.4	29.3	31.7	30.0
3	23.7	21.6	26.8	25.5	26.8	26.2	31.1	29.8	31.3	29.5	30.8	29.6
4	24.2	20.7	26.8	25.8	26.7	25.8	31.3	30.0	31.0	29.5	29.9	28.6
5	24.6	22.2	25.8	25.2	26.9	25.6	31.9	30.0	30.8	29.6	28.9	28.0
6	23.9	22.5	25.6	24.7	27.5	25.7	32.0	30.5	31.3	29.7	28.2	27.5
7	24.5	22.7	25.5	24.2	28.2	26.7	32.1	30.6	32.0	30.2	28.6	27.1
8	24.8	23.3	26.2	24.1	29.2	27.6	31.6	30.6	31.1	29.4	28.1	27.4
9	24.8	23.2	26.9	24.6	28.9	28.2	31.0	29.4	31.8	29.5	28.5	27.2
10	25.3	23.4	26.9	24.8	28.4	27.2	29.5	28.7	31.3	30.0	29.6	27.6
11	25.2	23.2	27.1	25.1	27.6	26.8	29.5	28.3	31.1	30.4	30.3	28.2
12	25.2	23.7	27.4	25.6	28.2	27.1	31.0	28.8	32.8	30.3	30.3	28.2
13	25.0	23.8	27.1	25.6	29.4	27.6	32.0	29.8	32.9	31.1	30.4	28.6
14	24.8	22.9	27.1	25.3	30.8	28.4	30.8	29.6	33.4	31.0	31.0	28.3
15	23.8	22.1	27.4	25.6	31.8	29.4	---	---	32.6	30.3	30.8	28.8
16	22.4	21.2	28.1	25.5	31.6	29.8	30.7	29.5	32.7	30.9	31.4	29.3
17	22.0	20.3	28.5	26.1	31.7	29.1	31.2	29.5	33.4	31.5	30.9	29.7
18	23.4	20.3	28.0	26.5	31.6	29.7	31.1	29.4	33.2	31.4	31.2	29.7
19	23.8	21.4	28.1	26.3	31.8	30.1	31.6	29.5	33.1	31.0	30.2	29.2
20	23.7	22.1	28.9	26.1	30.8	29.1	31.6	29.8	32.9	31.2	29.2	28.3
21	24.7	22.4	28.9	27.0	29.7	28.4	31.4	29.8	32.9	31.1	28.3	27.8
22	25.2	23.1	29.4	27.3	29.6	28.7	32.0	29.9	32.5	30.8	27.9	27.6
23	25.6	23.6	29.5	27.5	29.8	28.4	32.0	30.1	32.6	30.8	28.1	27.4
24	24.9	23.3	29.6	27.7	28.8	27.7	32.7	30.3	32.3	31.0	29.0	27.4
25	24.2	21.8	28.7	27.1	29.4	27.2	31.7	30.3	31.2	29.4	28.9	27.6
26	25.1	22.6	27.6	26.6	29.6	28.1	32.0	30.3	29.4	28.5	29.3	27.9
27	25.4	23.8	28.7	26.3	29.8	28.5	31.9	30.5	29.7	28.7	29.5	27.9
28	25.6	23.6	30.1	27.4	29.5	28.2	32.0	30.5	30.0	29.0	29.9	28.1
29	26.6	24.0	30.4	28.0	29.1	28.4	31.7	30.8	30.4	28.9	30.5	28.4
30	26.3	24.3	30.6	28.7	29.8	28.3	32.1	31.0	30.9	29.4	29.3	28.5
31	---	---	29.7	28.5	---	---	31.4	30.1	31.1	29.5	---	---
MONTH	26.6	20.3	30.6	24.1	31.8	25.6	32.7	28.3	33.4	28.5	31.8	27.1
YEAR	33.4	14.6										

02277100 ST. LUCIE RIVER AT SPEEDY POINT, STUART, FL—Continued

BOTTOM
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.2	0.1	0.9	0.2	15.6	8.0	17.0	13.7	21.8	15.2	21.4	16.3
2	0.2	0.1	0.5	0.2	18.6	6.7	17.3	13.6	22.1	15.2	21.8	15.8
3	0.2	0.1	0.5	0.2	19.0	6.9	16.5	13.4	22.3	14.9	22.7	15.0
4	0.2	0.1	0.8	0.2	18.9	8.0	16.7	13.4	20.6	16.7	22.0	14.2
5	0.2	0.2	1.8	0.3	18.2	8.5	17.3	13.2	24.9	17.2	21.1	13.0
6	0.2	0.2	12.8	0.6	15.1	9.6	18.3	13.0	26.0	17.5	19.3	12.6
7	0.2	0.2	11.6	0.9	13.1	9.2	19.1	12.9	21.3	15.9	21.1	13.9
8	0.2	0.2	8.7	0.9	14.1	9.5	20.1	13.5	21.8	13.0	20.1	13.9
9	0.2	0.2	6.5	0.9	15.3	9.7	20.8	13.3	19.5	13.2	21.3	15.4
10	0.2	0.2	3.8	1.0	15.6	9.2	22.1	13.0	18.5	11.7	20.5	13.2
11	0.2	0.2	2.4	0.8	17.6	10.2	22.6	14.5	20.9	14.2	19.4	9.9
12	0.2	0.2	2.6	0.7	20.8	11.4	21.5	15.3	21.3	14.1	16.1	9.1
13	0.7	0.2	7.0	0.7	20.4	10.2	24.0	16.0	21.1	13.8	15.9	9.0
14	1.9	0.2	8.8	1.2	19.2	10.2	21.4	16.7	18.9	13.7	16.6	10.1
15	1.8	0.2	11.2	2.8	19.2	9.1	23.2	13.2	17.7	14.1	16.5	10.2
16	1.8	0.2	7.0	2.4	20.3	10.8	25.6	16.0	19.5	14.3	18.5	10.8
17	0.8	0.2	14.3	2.7	16.7	10.2	27.0	12.6	22.8	14.7	17.7	6.1
18	0.4	0.2	17.3	3.1	17.3	10.6	25.5	17.1	20.9	15.3	15.2	3.2
19	0.3	0.2	15.5	4.6	20.8	11.9	25.0	17.6	23.2	16.1	10.0	2.5
20	0.2	0.2	14.0	6.0	19.8	12.6	25.8	17.1	20.8	16.0	7.1	2.2
21	0.2	0.2	14.0	5.2	19.4	12.3	24.3	16.2	20.2	15.7	5.5	1.8
22	1.2	0.2	12.9	4.8	16.7	12.7	24.0	16.4	20.3	15.6	5.5	2.3
23	2.1	0.2	13.0	5.0	17.4	11.6	22.9	17.0	21.0	16.2	3.1	1.7
24	2.6	0.2	13.0	6.2	17.8	12.2	24.7	18.8	22.4	16.7	3.7	1.5
25	4.9	0.3	14.2	5.6	20.8	12.8	26.8	19.0	22.6	16.8	6.8	1.4
26	3.8	0.3	15.2	6.7	19.8	12.3	26.7	18.2	22.7	16.8	7.6	2.2
27	3.1	0.3	16.9	7.4	22.0	14.5	24.3	16.6	23.2	17.3	8.3	2.3
28	4.5	0.5	15.6	7.2	21.2	15.2	23.3	17.1	21.1	16.2	8.2	2.2
29	2.9	0.4	15.6	7.7	19.2	14.9	20.6	13.9	---	---	10.5	2.0
30	3.4	0.5	15.4	8.5	19.1	14.8	21.0	14.8	---	---	10.5	2.1
31	2.0	0.5	---	---	17.9	13.8	19.8	14.8	---	---	8.2	2.9
MONTH	4.9	0.1	17.3	0.2	22.0	6.7	27.0	12.6	26.0	11.7	22.7	1.4
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.8	2.8	11.0	7.1	11.3	6.8	0.6	0.2	0.2	0.2	11.9	1.4
2	9.1	3.2	15.6	7.2	9.3	4.0	0.6	0.2	0.2	0.2	13.1	2.2
3	11.1	3.3	18.8	9.7	5.0	2.0	0.4	0.2	1.2	0.2	14.2	2.5
4	16.2	3.9	19.4	9.8	2.3	0.8	0.3	0.2	1.6	0.2	8.3	2.4
5	14.3	3.7	15.5	9.3	1.0	0.5	0.3	0.2	2.3	0.2	7.2	2.1
6	12.0	5.3	17.3	7.3	0.6	0.3	0.3	0.2	2.2	0.3	8.4	1.4
7	9.3	4.3	20.2	7.6	0.4	0.2	0.3	0.2	3.5	0.4	9.7	1.4
8	10.6	2.8	14.1	7.1	0.3	0.2	0.3	0.2	2.6	0.2	12.3	2.3
9	11.9	2.7	13.8	5.2	0.3	0.2	0.3	0.2	1.9	0.2	13.4	2.8
10	13.9	3.1	13.3	5.9	0.3	0.2	0.3	0.2	1.5	0.2	13.7	2.8
11	11.3	3.3	12.1	5.9	0.3	0.2	0.3	0.2	1.1	0.2	18.9	3.0
12	10.8	3.9	11.3	6.6	0.3	0.2	0.3	0.2	1.2	0.2	17.8	3.4
13	17.5	4.3	10.1	6.6	0.3	0.2	0.2	0.2	1.5	0.2	17.5	5.1
14	19.7	6.5	10.0	6.0	1.5	0.2	0.2	0.2	2.4	0.3	18.2	5.8
15	19.4	7.6	13.8	6.3	2.9	0.4	---	---	4.9	0.2	18.6	7.8
16	24.5	8.8	14.7	7.6	4.5	0.6	0.2	0.1	1.5	0.3	18.7	8.0
17	25.1	10.6	12.0	8.0	6.6	0.6	0.2	0.1	2.3	0.3	15.7	6.1
18	21.4	7.7	12.6	8.2	5.4	0.6	0.2	0.1	2.7	0.2	12.6	5.3
19	12.1	8.2	11.9	6.9	6.8	0.7	0.2	0.1	2.8	0.2	9.2	5.2
20	11.2	6.8	13.3	6.0	7.1	0.8	0.2	0.1	3.5	0.2	9.8	4.6
21	12.8	7.3	16.3	6.4	8.2	1.4	0.2	0.1	4.5	0.2	6.2	4.1
22	14.1	7.7	15.7	6.9	8.3	1.1	0.5	0.1	4.4	0.4	5.3	3.5
23	15.9	8.3	16.4	7.4	8.0	1.6	2.0	0.2	2.8	0.5	4.8	3.2
24	18.3	9.7	18.6	6.8	6.8	0.7	3.7	0.2	2.1	0.3	4.8	3.0
25	19.8	11.0	18.9	8.7	3.1	0.4	3.1	0.3	5.4	0.3	5.5	3.1
26	21.1	10.4	16.9	8.9	1.8	0.3	1.3	0.2	2.3	0.4	7.2	2.8
27	17.9	8.5	15.4	8.8	1.5	0.2	0.6	0.2	1.6	0.4	16.0	2.9
28	15.6	7.5	18.6	8.2	0.6	0.2	0.3	0.1	1.6	0.4	15.4	2.8
29	16.1	7.5	16.0	7.7	0.3	0.2	0.2	0.2	1.3	0.3	11.3	2.7
30	12.6	7.2	14.9	8.6	0.3	0.2	0.2	0.2	2.7	0.4	5.2	1.9
31	---	---	13.6	8.7	---	---	0.3	0.2	7.4	0.6	---	---
MONTH	25.1	2.7	20.2	5.2	11.3	0.2	3.7	0.1	7.4	0.2	18.9	1.4
YEAR	27.0	0.1										

02277100 ST. LUCIE RIVER AT SPEEDY POINT, STUART, FL—Continued

BOTTOM
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.3	28.1	25.6	24.8	22.9	22.1	19.4	18.1	19.2	17.9	22.1	20.8
2	29.2	28.5	25.6	24.7	23.2	22.3	19.7	18.6	19.5	18.5	20.9	19.8
3	29.0	28.1	25.7	24.8	23.0	22.0	19.9	19.1	19.8	19.1	20.2	18.6
4	29.6	28.2	25.9	24.9	22.7	20.8	20.7	19.2	19.8	18.5	19.3	18.1
5	29.2	28.1	25.5	24.9	22.4	20.7	21.3	19.8	18.9	17.5	20.2	18.3
6	28.6	27.7	25.6	24.1	22.8	21.6	21.8	20.6	18.0	17.0	20.1	18.3
7	27.8	26.4	24.8	23.6	23.2	22.1	22.3	21.0	18.5	17.5	20.6	19.2
8	26.7	25.4	24.5	23.4	23.7	22.4	22.8	21.4	19.4	18.1	20.6	19.8
9	27.2	25.7	23.7	23.1	23.9	23.1	23.2	21.9	19.9	18.8	19.9	18.4
10	27.4	26.3	23.2	22.3	24.0	23.1	23.3	22.2	20.2	19.1	18.9	17.6
11	27.1	26.4	22.9	22.0	23.6	21.9	23.1	22.2	19.1	17.7	19.3	17.9
12	26.6	26.1	23.2	22.3	21.9	20.1	22.9	22.3	18.3	16.6	19.9	18.2
13	27.3	26.1	23.7	22.5	20.4	19.1	22.9	22.5	18.0	16.7	20.8	18.5
14	27.5	26.2	23.6	22.6	20.0	18.6	23.0	22.4	19.1	17.4	21.8	19.7
15	27.2	26.5	22.7	21.4	18.9	16.9	22.5	21.8	20.3	18.2	22.6	20.9
16	26.6	25.1	22.0	20.9	17.3	16.2	22.2	20.3	20.7	19.1	23.6	22.0
17	25.8	24.6	21.8	20.9	17.5	16.8	20.7	18.2	21.4	20.0	23.1	21.8
18	25.8	24.8	21.9	20.8	18.9	17.3	18.7	17.0	21.5	20.6	22.4	21.1
19	26.0	25.2	22.4	20.9	18.8	17.8	17.5	16.5	20.8	19.4	22.0	20.2
20	26.5	25.4	23.1	21.3	18.3	16.0	17.4	16.1	20.6	19.3	22.1	20.6
21	27.0	25.7	23.2	22.1	16.8	15.4	17.4	16.4	21.3	19.9	22.2	21.2
22	26.7	26.0	23.7	22.4	17.1	16.1	18.4	16.9	21.9	20.5	23.3	21.8
23	26.2	25.4	23.7	22.8	18.1	17.0	18.3	17.0	22.4	21.2	24.0	22.6
24	26.0	25.2	23.7	22.8	18.5	17.8	17.0	15.3	22.6	21.5	24.7	23.0
25	26.4	25.1	23.8	23.0	19.1	18.1	16.1	15.0	22.6	22.1	25.3	23.7
26	25.8	25.1	23.0	21.7	19.0	17.6	16.8	15.1	22.7	21.9	25.8	24.4
27	25.5	24.7	22.6	21.6	17.6	16.5	17.6	16.1	22.5	22.3	26.4	25.0
28	25.4	24.5	23.0	22.1	16.9	16.2	17.3	16.9	23.0	22.0	25.8	24.1
29	25.4	24.5	22.7	22.0	16.7	16.0	17.8	16.8	---	---	25.0	23.5
30	25.7	24.8	22.4	21.8	17.6	16.6	18.5	17.4	---	---	25.2	23.5
31	25.9	24.8	---	---	18.4	17.3	19.0	17.8	---	---	25.8	24.3
MONTH	29.6	24.5	25.9	20.8	24.0	15.4	23.3	15.0	23.0	16.6	26.4	17.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.4	24.7	25.9	25.1	28.7	27.5	30.0	28.5	30.7	29.4	31.4	29.9
2	25.4	23.7	26.7	25.3	27.5	26.7	30.6	29.3	30.3	29.3	31.2	30.0
3	23.9	21.9	26.9	25.7	26.8	26.2	31.1	29.8	31.3	29.5	30.8	29.6
4	23.8	21.5	26.5	25.9	26.7	25.8	31.3	30.0	31.0	29.6	29.9	28.7
5	24.7	22.3	26.0	25.4	26.9	25.6	31.9	30.0	30.7	29.6	28.9	28.1
6	23.8	22.5	25.6	24.8	27.5	25.7	32.0	30.5	31.1	29.8	28.2	27.7
7	24.3	22.8	25.5	24.4	28.2	26.7	32.1	30.6	31.5	30.2	28.3	27.3
8	24.8	23.4	25.7	23.8	29.2	27.6	31.6	30.6	30.9	29.6	28.0	27.4
9	24.7	23.4	26.5	24.5	28.9	28.2	30.9	29.4	30.9	29.5	28.3	27.3
10	24.9	23.6	26.6	25.0	28.4	27.2	29.5	28.7	31.2	30.0	29.4	27.7
11	24.8	23.4	26.7	25.3	27.6	26.8	29.5	28.3	31.0	30.4	29.8	28.3
12	24.8	23.9	26.9	25.8	28.2	27.1	30.6	28.8	32.4	30.3	29.7	28.5
13	24.9	23.9	27.1	25.7	29.2	27.6	31.6	29.8	32.8	31.0	30.0	28.9
14	24.2	23.1	27.1	25.4	30.7	28.4	30.8	29.6	33.1	31.0	30.4	29.0
15	23.7	22.2	26.4	25.6	31.4	29.4	---	---	32.6	30.5	30.7	29.1
16	22.8	21.7	27.7	25.6	31.4	29.9	30.6	29.5	32.7	31.0	30.9	29.5
17	22.2	21.0	28.5	26.3	31.1	29.3	31.2	29.4	33.4	31.6	30.8	29.7
18	23.6	21.2	28.1	26.5	31.6	29.8	31.1	29.4	33.3	31.5	30.8	29.7
19	23.7	21.5	28.1	26.4	31.8	30.2	31.6	29.5	33.1	31.0	30.2	29.2
20	23.7	22.1	28.8	26.6	30.9	29.4	31.6	29.8	32.6	31.2	29.2	28.3
21	24.7	22.5	28.9	27.3	29.6	28.4	31.4	29.8	32.4	31.1	28.4	27.9
22	25.2	23.2	29.3	27.4	29.5	28.4	32.0	29.9	32.5	30.8	27.9	27.6
23	25.3	23.7	29.1	27.9	29.6	28.4	32.0	30.1	32.4	30.8	28.0	27.4
24	24.6	23.3	29.4	28.0	28.8	27.8	31.8	30.3	32.3	31.0	29.0	27.4
25	24.0	22.5	28.5	27.3	29.0	27.2	31.5	30.3	31.2	29.4	28.9	27.6
26	24.9	23.1	27.5	26.6	29.5	28.1	31.9	30.3	29.4	28.5	29.1	27.9
27	25.2	24.0	28.2	26.6	29.8	28.5	31.9	30.5	29.7	28.7	29.2	28.2
28	25.5	23.9	29.6	27.5	29.5	28.2	31.8	30.5	29.8	29.0	29.9	28.5
29	25.9	24.3	30.2	28.2	29.1	28.4	31.7	30.8	30.4	28.9	30.4	28.7
30	26.1	24.6	30.4	28.9	29.7	28.3	32.1	31.0	30.9	29.5	29.3	28.7
31	---	---	29.7	28.6	---	---	31.4	30.1	30.8	29.7	---	---
MONTH	26.4	21.0	30.4	23.8	31.8	25.6	32.1	28.3	33.4	28.5	31.4	27.3
YEAR	33.4	15.0										

02277110 ST. LUCIE ESTUARY AT A1A (STEELE PT), STUART, FL

LOCATION.--Lat 27 11'58", long 80 12'25", in NW $^{1}/_{4}$ SE $^{1}/_{4}$ NE $^{1}/_{4}$, sec.2, T.38 S., R.41 E., Martin County, Hydrologic Unit 03090202, middle of Evans Crary Sr. Bridge footing, 2.7 mi west of Atlantic Ocean, 3.4 mi southeast of Stuart.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: August 1997 to September 2000.
GAGE HEIGHT: August 1997 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Prior to October 1, 2000, an acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum (NGVD) of 1929 converted through VERTCON using the NAVD88 survey levels from a benchmark provided by Florida Department of Environmental Protection (FDEP). Gage height data prior to water year 2003 are 0.07 ft lower than current datum. This datum was taken into account and the data prior to water year 2003 has been updated.

REMARKS.--Gage height record good for the entire year.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 48,900 ft^3/s Aug. 31, 1997; minimum negative, 44,600 ft^3/s July 24, 2000.
GAGE HEIGHT: Maximum gage height, 5.47 ft Sept. 25, 2004; minimum, -1.21 ft Apr. 28, 1998.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 2.99 ft Sept. 9; minimum, -1.04 ft Dec. 11.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): August 1997 to current year.
WATER TEMPERATURE (TOP, BOTTOM): August 1997 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.-- Salinity (TOP) record (maximum and minimum) rated excellent except for the following periods: Dec. 13 to Jan. 6, which are good; Jan. 7-12, which are fair; Nov. 8, 9, Jan. 23, 24, July 15, which are missing values. Salinity (BOTTOM) record (maximum and minimum) rated excellent except for the following periods: Jan. 23, 24, July 15, which are missing values. Temperature (TOP and BOTTOM) record are rated excellent. Elevation of salinity and temperature sensors ranged from -1.6 ft to -1.7 ft NGVD (TOP) and -6.8 ft NGVD (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 37 ppt May 31, 2004; minimum recorded, 0.01 ppt Apr. 7, 1998.
SALINITY (BOTTOM): Maximum recorded, 38 ppt Mar. 22, 1999, Mar. 11, 31, 2002; minimum recorded, 0.0 ppt Mar. 20, 21, 26, Apr. 1, 1998.
WATER TEMPERATURE (TOP): Maximum recorded, 33.8 C Aug. 18, 1998; minimum recorded, 12.0 C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.4 C Sept. 1, 1998; minimum recorded, 12.0 C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 36.2 ppt Jan. 13; minimum recorded, 0.1 Oct. 1.
SALINITY (BOTTOM): Maximum recorded, 35.0 ppt Nov. 15, Jan. 13, Mar. 9; minimum recorded, 0.1 ppt Oct. 1.
WATER TEMPERATURE (TOP): Maximum recorded, 34.2 C Aug. 22; minimum recorded, 14.6 C Jan. 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.6 C Aug. 18; minimum recorded, 14.7 C Jan. 25.

02277110 ST. LUCIE ESTUARY AT A1A (STEELE PT), STUART, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.88	0.38	1.50	0.18	1.09	-0.17	0.74	-0.34	1.78	0.55	1.16	-0.10
2	1.71	0.28	1.36	-0.02	1.13	-0.18	0.85	-0.18	1.88	0.47	1.11	-0.23
3	1.66	0.25	1.40	0.03	1.19	-0.05	0.75	-0.31	1.86	0.52	1.11	-0.20
4	1.69	0.38	1.41	0.17	1.26	0.13	0.68	-0.40	2.16	0.66	1.33	-0.23
5	1.72	0.36	1.49	0.18	0.95	-0.13	0.85	-0.55	2.72	1.08	1.09	-0.50
6	1.72	0.50	1.98	0.71	0.80	-0.35	0.82	-0.63	2.62	0.94	0.88	-0.51
7	2.01	0.83	1.80	0.67	0.79	-0.38	0.79	-0.68	2.25	0.69	1.03	-0.44
8	2.15	0.83	1.56	0.47	0.87	-0.51	0.90	-0.74	2.36	0.58	1.01	-0.43
9	2.21	0.92	1.70	0.37	0.78	-0.67	0.86	-0.82	2.03	0.48	1.34	-0.47
10	2.14	0.79	2.19	0.76	0.60	-0.92	1.09	-0.71	1.71	0.25	1.43	0.02
11	1.92	0.67	2.12	0.71	0.69	-1.04	1.29	-0.51	1.76	0.34	1.23	-0.18
12	1.99	0.59	2.06	0.34	0.85	-0.93	1.25	-0.34	1.77	0.46	0.84	-0.52
13	2.20	0.72	1.87	0.13	0.75	-0.88	1.25	-0.29	1.69	0.20	0.76	-0.65
14	2.25	0.68	2.22	0.08	0.74	-0.91	1.07	-0.44	1.41	-0.10	0.61	-0.84
15	2.37	0.71	2.59	0.84	1.24	-0.58	1.29	-0.12	1.06	-0.38	0.48	-0.59
16	2.12	0.46	2.19	0.62	1.45	-0.06	1.71	0.60	0.85	-0.29	0.81	-0.25
17	1.91	0.24	1.93	0.34	1.20	-0.16	1.96	0.57	1.01	-0.23	1.04	0.05
18	1.63	0.03	1.77	0.38	1.34	0.09	1.85	0.47	1.07	-0.21	1.34	0.28
19	1.48	-0.13	1.63	0.27	1.32	-0.03	1.76	0.15	1.24	-0.13	1.57	0.27
20	1.57	-0.19	1.53	0.26	1.14	-0.07	1.46	0.13	0.90	-0.32	1.49	0.19
21	1.82	0.12	1.41	0.19	1.21	-0.35	1.47	0.04	0.66	-0.56	1.33	0.13
22	2.33	0.53	1.50	0.13	0.97	-0.42	1.26	-0.10	0.50	-0.70	1.40	0.22
23	2.55	1.11	1.59	0.21	1.02	-0.30	1.21	-0.20	0.64	-0.66	1.16	-0.06
24	2.74	1.30	1.58	0.07	0.90	-0.61	1.55	0.10	0.89	-0.41	1.01	-0.23
25	2.75	1.35	1.25	-0.14	1.41	-0.30	1.61	0.21	1.24	-0.32	1.19	-0.11
26	2.74	1.29	1.31	-0.35	1.42	0.06	1.61	0.24	1.50	0.20	1.43	0.00
27	2.71	1.18	1.59	0.03	1.66	0.01	1.40	0.04	1.53	0.34	1.55	0.13
28	2.46	0.99	1.30	-0.10	1.59	0.31	1.80	0.33	1.49	0.03	1.53	-0.02
29	2.26	0.76	1.29	-0.14	1.38	0.10	1.75	0.61	---	---	1.40	-0.11
30	2.14	0.60	1.25	-0.16	1.24	-0.05	1.65	0.51	---	---	1.40	-0.31
31	1.86	0.45	---	---	1.03	-0.10	1.68	0.61	---	---	1.14	-0.43
MONTH	2.75	-0.19	2.59	-0.35	1.66	-1.04	1.96	-0.82	2.72	-0.70	1.57	-0.84
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	0.99	-0.41	0.73	-0.60	1.56	0.32	1.38	-0.05	1.31	-0.20	1.52	0.15
2	1.04	-0.46	1.06	-0.57	1.54	0.25	1.39	-0.10	1.40	-0.12	1.67	0.31
3	0.93	-0.27	1.37	0.00	1.50	0.01	1.27	-0.19	1.57	0.06	2.04	0.65
4	1.10	-0.30	1.33	0.05	1.59	0.08	1.23	-0.34	1.52	0.09	1.97	0.84
5	1.04	-0.30	1.41	0.01	1.59	-0.11	1.34	-0.26	1.48	0.15	2.04	0.80
6	1.06	-0.28	1.85	0.21	1.64	-0.01	1.39	-0.09	1.52	0.20	2.36	1.03
7	1.06	-0.27	1.86	0.31	1.47	-0.11	1.37	-0.16	1.65	0.38	2.56	1.28
8	1.38	-0.14	1.68	0.08	1.56	0.06	1.31	-0.24	1.74	0.54	2.75	1.29
9	1.47	-0.12	1.56	-0.20	1.61	0.02	1.18	-0.17	1.68	0.53	2.99	1.55
10	1.56	0.04	1.35	-0.22	1.40	-0.05	1.09	-0.36	1.59	0.42	2.88	1.42
11	1.65	0.11	1.21	-0.34	1.32	-0.06	0.87	-0.15	1.41	0.25	2.66	1.21
12	1.60	-0.04	1.10	-0.21	1.15	-0.15	1.01	0.00	1.25	0.05	2.59	1.04
13	1.35	-0.23	1.17	-0.05	1.05	0.03	1.10	0.03	1.34	-0.07	2.46	0.92
14	1.17	0.17	1.22	-0.04	1.16	0.06	1.12	-0.05	1.40	-0.06	2.55	0.89
15	1.70	0.70	1.16	0.00	1.07	-0.05	---	---	1.32	-0.23	2.61	0.93
16	2.06	1.04	1.17	0.02	0.88	-0.25	1.15	-0.24	1.37	-0.25	2.41	0.92
17	2.18	1.06	1.00	-0.05	1.19	-0.12	1.24	-0.30	1.47	-0.30	2.28	0.81
18	2.02	0.73	1.03	-0.04	1.38	-0.15	1.29	-0.33	1.60	-0.11	2.27	0.88
19	1.61	0.58	1.30	0.09	1.57	-0.16	1.31	-0.37	1.73	0.05	2.34	0.92
20	1.39	0.27	1.56	0.14	1.62	-0.04	1.38	-0.36	1.77	0.18	2.67	1.20
21	1.24	0.05	1.63	0.07	1.80	-0.02	1.47	-0.27	1.77	0.31	2.14	0.68
22	1.32	0.00	1.90	0.22	1.76	0.01	1.57	-0.08	1.75	0.37	1.93	0.53
23	1.24	-0.15	1.87	0.22	1.76	-0.02	1.60	-0.10	1.64	0.25	1.85	0.47
24	1.47	-0.09	1.74	-0.02	1.80	0.35	1.55	0.27	1.55	0.13	1.83	0.45
25	1.45	-0.15	1.87	0.26	1.98	0.27	1.73	0.44	2.23	0.59	1.93	0.65
26	1.40	-0.39	1.98	0.28	1.83	0.39	1.76	0.43	1.86	0.59	1.98	0.69
27	1.23	-0.54	1.93	0.08	1.81	0.36	1.45	0.12	1.93	0.52	2.09	0.83
28	1.04	-0.30	1.62	-0.04	1.48	0.19	1.18	-0.24	1.72	0.44	2.08	0.86
29	1.29	-0.29	1.48	0.18	1.20	-0.02	1.00	-0.35	1.55	0.20	2.15	0.91
30	1.11	-0.62	1.59	0.32	1.31	-0.12	1.02	-0.44	1.65	0.28	2.18	0.96
31	---	---	1.57	0.26	---	---	1.18	-0.23	1.56	0.26	---	---
MONTH	2.18	-0.62	1.98	-0.60	1.98	-0.25	1.76	-0.44	2.23	-0.30	2.99	0.15
YEAR	2.99	-1.04										

02277110 ST. LUCIE ESTUARY AT A1A (STEELE PT), STUART, FL—Continued

TOP
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.9	0.1	11.7	1.2	24.5	11.2	30.9	19.2	28.5	18.8	30.4	23.6
2	2.6	0.2	8.8	0.7	23.7	10.9	32.2	20.8	29.4	19.8	31.1	22.2
3	3.4	0.2	14.6	0.7	23.0	11.3	30.6	19.0	30.6	17.6	32.4	22.5
4	4.2	0.2	14.4	0.6	23.2	11.2	31.1	17.5	32.6	18.7	32.5	20.2
5	5.1	0.2	10.9	0.9	23.8	11.5	31.9	17.6	33.4	23.7	30.6	20.1
6	2.2	0.2	18.8	1.6	22.6	10.8	32.0	17.3	33.5	23.1	30.2	19.7
7	2.0	0.2	17.8	3.3	23.9	11.9	32.8	18.1	32.2	21.3	32.7	19.2
8	2.7	0.2	---	---	27.6	11.9	33.7	18.8	33.2	16.9	33.0	20.3
9	3.8	0.2	---	---	28.1	12.6	32.9	17.3	29.9	14.6	33.5	20.7
10	4.3	0.2	22.9	4.4	30.9	13.7	33.5	18.8	28.6	15.2	29.0	19.8
11	4.8	0.2	25.1	2.9	31.6	14.9	33.0	19.8	30.9	19.7	26.3	16.7
12	6.3	0.3	25.9	2.0	33.8	18.0	33.0	21.8	29.8	19.3	27.3	15.7
13	7.1	0.3	27.1	1.6	31.7	15.7	36.2	24.1	29.8	18.4	26.9	15.1
14	14.6	0.7	32.2	3.7	31.7	14.9	32.6	20.9	30.1	18.0	26.6	14.2
15	16.5	1.0	34.1	10.9	33.2	17.7	33.2	22.1	29.7	17.2	27.5	14.9
16	13.0	1.0	30.1	8.1	31.4	14.1	31.8	25.4	29.4	18.5	30.0	16.1
17	15.2	0.7	25.5	4.9	27.9	13.5	32.2	25.3	31.3	18.8	28.3	11.1
18	10.9	0.4	26.1	7.6	28.0	14.4	31.8	24.3	30.6	19.2	16.1	6.2
19	9.2	0.4	26.8	8.3	26.6	15.7	32.3	21.2	32.1	22.6	14.6	4.8
20	9.2	0.3	25.7	9.0	25.6	17.5	30.8	21.0	31.2	24.2	14.5	4.8
21	13.8	0.3	23.9	8.9	28.0	17.2	32.0	22.1	31.7	19.5	18.9	4.6
22	15.2	0.5	25.0	7.8	30.7	17.0	30.9	21.4	31.4	20.8	17.7	5.0
23	16.4	0.6	26.1	8.5	30.9	17.1	---	---	32.8	21.1	10.4	3.7
24	15.7	1.1	27.8	9.0	29.9	15.0	---	---	33.9	22.4	20.6	3.4
25	15.1	1.7	24.5	10.0	33.9	17.9	32.1	23.5	32.8	22.9	21.7	3.5
26	15.5	1.4	29.0	11.5	31.0	21.7	32.3	23.3	33.4	24.6	23.4	5.9
27	20.9	1.6	31.2	15.3	33.4	22.0	30.4	22.0	33.9	24.7	24.3	6.3
28	22.6	1.7	29.0	13.1	32.1	21.7	33.9	21.2	32.9	23.4	20.9	6.9
29	23.0	1.9	30.9	13.5	32.6	21.6	30.8	20.6	---	---	21.0	6.4
30	21.2	1.7	30.7	15.2	32.1	20.9	28.6	15.5	---	---	23.2	6.8
31	16.9	1.5	---	---	32.3	22.0	27.5	18.4	---	---	23.6	6.2
MONTH	23.0	0.1	34.1	0.6	33.9	10.8	36.2	15.5	33.9	14.6	33.5	3.4
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21.2	6.7	23.7	10.9	23.6	10.8	7.3	0.5	6.5	0.2	21.6	3.4
2	26.2	7.9	27.5	10.8	16.5	8.1	10.3	0.8	10.4	0.2	23.4	4.8
3	23.3	8.7	31.2	13.7	11.9	4.6	7.0	0.7	15.0	0.5	24.3	6.6
4	26.1	9.1	29.8	15.9	7.8	2.6	6.1	0.3	11.6	0.8	25.2	8.0
5	26.0	10.3	28.2	14.8	4.0	0.8	9.8	0.3	12.7	1.3	22.9	5.6
6	29.9	13.7	30.1	13.4	2.8	0.5	8.6	0.3	15.0	1.3	22.1	3.4
7	27.5	10.7	30.7	14.4	4.3	0.3	10.1	0.3	13.8	1.4	17.5	3.8
8	20.6	7.1	29.6	11.8	9.4	0.3	6.1	0.3	16.2	1.4	16.9	5.3
9	25.2	6.5	26.7	9.1	8.7	0.3	8.3	0.3	13.2	1.0	22.1	6.5
10	28.2	7.4	26.8	9.3	7.1	0.3	2.7	0.2	14.0	0.8	24.8	6.1
11	28.2	8.3	26.4	9.1	6.6	0.3	2.2	0.2	14.0	0.8	25.2	5.2
12	27.8	7.9	25.9	8.8	2.7	0.3	3.1	0.3	12.3	0.7	25.8	6.7
13	27.1	8.9	27.4	13.4	10.3	0.4	4.5	0.3	13.7	0.6	28.1	7.6
14	25.6	11.2	28.5	13.4	18.7	0.5	7.5	0.3	18.4	1.4	31.0	9.9
15	27.5	15.7	28.0	10.8	17.7	1.4	---	---	18.7	1.6	31.8	11.9
16	29.7	17.8	26.3	10.9	17.0	2.4	5.3	0.2	18.3	1.2	28.5	13.3
17	26.3	15.8	27.4	13.6	15.9	3.1	8.1	0.2	20.3	0.8	26.0	11.2
18	22.1	11.6	27.4	14.8	15.7	3.0	7.5	0.2	20.3	1.3	27.1	8.1
19	23.7	12.9	29.8	14.1	22.4	3.4	9.4	0.2	19.9	0.9	28.2	9.0
20	22.0	10.8	28.4	10.3	24.4	3.7	14.1	0.2	19.1	0.9	31.4	10.7
21	23.4	9.3	27.6	9.4	27.4	4.0	14.0	0.2	17.5	1.2	24.4	7.0
22	26.0	10.9	31.9	10.7	27.5	4.3	18.2	0.3	18.2	1.4	23.6	5.9
23	28.5	12.1	31.4	12.2	27.4	4.7	15.8	0.9	18.0	1.2	23.0	5.5
24	31.9	15.9	30.6	12.9	28.6	2.7	17.7	1.5	21.7	1.1	22.0	4.7
25	31.5	17.4	31.9	17.4	20.1	1.6	16.9	1.0	26.4	3.0	23.3	5.1
26	31.8	17.3	30.2	16.4	16.8	1.2	13.8	0.6	20.3	3.3	21.7	5.6
27	31.5	14.2	31.1	14.2	16.8	0.7	9.7	0.6	23.8	3.0	21.5	4.8
28	29.4	12.8	30.0	14.0	6.4	0.4	6.6	0.3	14.6	1.4	21.7	4.7
29	30.1	12.3	27.3	14.3	4.9	0.3	5.2	0.3	15.2	1.0	19.4	4.1
30	28.3	12.2	28.4	13.3	10.2	0.3	7.6	0.2	19.8	1.2	19.2	3.6
31	---	---	25.0	12.5	---	---	4.4	0.2	21.6	2.1	---	---
MONTH	31.9	6.5	31.9	8.8	28.6	0.3	18.2	0.2	26.4	0.2	31.8	3.4
YEAR	36.2	0.1										

02277110 ST. LUCIE ESTUARY AT A1A (STEELE PT), STUART, FL—Continued

TOP
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.5	27.5	26.0	24.8	24.0	21.4	20.0	17.8	19.5	17.5	22.3	20.7
2	29.2	27.8	26.4	24.6	23.6	21.8	20.6	18.5	19.9	18.3	20.9	19.5
3	29.3	27.6	26.1	24.5	23.1	21.2	20.6	19.1	20.2	18.9	20.0	18.3
4	29.4	27.9	26.4	24.8	21.9	20.0	21.2	19.2	19.8	18.1	19.1	18.0
5	29.5	28.0	25.5	24.5	22.2	20.1	21.6	20.1	18.1	16.6	20.1	17.8
6	28.6	27.7	24.7	23.5	22.8	21.1	21.9	20.6	17.8	16.3	20.1	18.1
7	27.8	25.9	24.8	22.6	23.2	22.0	22.9	20.8	18.8	17.0	21.2	19.0
8	26.5	25.4	---	---	24.1	22.2	23.5	21.5	19.8	17.8	20.4	19.5
9	27.0	25.3	---	---	24.5	22.9	23.8	21.5	20.8	18.4	20.4	18.5
10	27.3	25.8	23.5	22.4	24.1	23.2	23.9	21.7	20.8	19.1	18.8	17.7
11	26.8	26.1	23.1	21.8	23.6	21.4	23.6	21.9	20.0	17.9	19.0	17.2
12	26.5	26.0	23.7	22.0	21.5	19.4	23.3	21.9	18.4	16.3	19.8	18.0
13	27.1	25.9	25.0	22.4	20.4	18.5	23.3	22.3	18.7	15.9	20.9	17.9
14	27.1	26.0	25.4	22.9	20.3	18.7	23.2	22.3	19.4	16.8	22.1	19.2
15	27.1	26.0	24.6	21.4	19.4	16.4	22.4	21.5	20.6	18.0	23.0	20.7
16	26.1	24.8	23.0	20.5	18.2	15.7	22.2	20.0	21.2	18.9	23.7	21.8
17	26.3	24.5	22.4	20.3	18.2	16.5	20.1	17.9	22.1	19.8	23.3	21.7
18	26.3	24.5	22.5	20.5	19.5	17.1	17.9	16.7	21.8	20.3	22.1	20.3
19	26.6	25.1	23.2	20.6	18.9	17.4	17.7	16.4	21.4	19.9	22.2	19.8
20	26.6	25.4	23.4	21.2	17.8	15.9	16.9	15.6	21.1	19.6	22.6	20.2
21	26.9	25.1	23.5	21.8	16.8	15.2	17.7	16.2	21.7	19.4	22.6	21.1
22	26.7	25.5	24.2	22.5	17.5	16.2	18.4	16.6	22.9	20.4	23.7	21.8
23	26.2	25.2	24.1	22.7	19.0	17.3	---	---	23.2	21.2	24.4	22.9
24	26.7	24.6	24.0	22.8	20.5	17.8	---	---	22.9	21.4	25.3	22.9
25	26.6	25.0	23.9	22.7	21.6	17.9	16.1	14.6	22.8	21.8	25.5	23.6
26	26.1	24.9	23.4	21.9	20.3	17.6	16.7	14.7	23.2	21.7	26.8	24.1
27	25.6	24.5	23.3	21.7	17.6	16.7	18.1	15.9	22.9	22.2	26.4	24.4
28	25.7	24.1	23.5	22.0	17.1	16.0	20.7	16.7	23.1	22.0	25.5	23.5
29	26.1	24.2	23.4	21.3	17.3	15.9	18.8	16.6	---	---	25.0	22.9
30	26.8	24.4	23.0	21.4	18.3	16.4	19.1	16.8	---	---	25.9	22.5
31	26.8	24.5	---	---	19.8	17.4	19.7	17.7	---	---	25.7	23.1
MONTH	29.5	24.1	26.4	20.3	24.5	15.2	23.9	14.6	23.2	15.9	26.8	17.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.9	23.8	25.8	24.6	28.3	26.9	30.5	28.2	31.8	29.8	32.0	29.2
2	25.3	22.9	27.4	24.9	27.0	26.4	30.6	28.9	32.0	29.7	32.8	29.6
3	22.9	20.8	27.0	25.2	27.1	26.0	31.3	29.5	31.9	29.4	30.8	29.5
4	24.4	20.3	26.5	25.1	26.5	25.8	31.6	29.9	32.8	29.5	29.7	28.5
5	24.6	21.4	25.6	24.9	27.6	26.0	32.3	30.0	31.5	29.3	29.0	27.8
6	23.7	22.0	25.7	24.2	29.0	26.4	32.2	30.2	32.3	29.3	28.3	27.3
7	24.1	22.4	25.8	23.5	28.9	26.9	32.3	30.4	32.7	29.8	28.6	27.1
8	24.7	23.1	26.4	23.0	29.2	27.6	32.0	30.3	32.0	29.6	28.0	27.1
9	25.1	22.9	26.9	23.9	29.2	28.0	30.6	29.4	31.6	29.8	28.7	27.0
10	25.8	23.0	27.6	24.4	28.3	27.1	29.4	28.4	31.8	29.7	29.3	27.3
11	26.2	22.5	27.1	24.8	27.4	26.7	30.9	28.3	32.5	30.1	30.0	28.0
12	25.2	23.1	27.6	24.6	28.2	26.8	30.9	28.6	32.3	29.9	30.0	27.9
13	24.9	23.1	27.1	24.4	30.0	27.3	31.8	29.6	32.8	30.6	30.2	28.3
14	24.3	22.3	27.2	24.6	30.6	27.6	31.6	30.0	33.7	30.5	30.2	28.2
15	23.2	21.6	26.6	24.9	31.4	28.4	---	---	32.4	29.7	30.8	28.4
16	22.1	21.0	27.5	24.9	31.5	28.4	30.9	29.5	33.1	30.4	31.3	28.8
17	21.6	19.9	28.1	25.2	31.3	28.0	31.4	29.5	33.8	31.0	31.0	29.1
18	22.6	20.3	28.0	25.9	31.4	29.0	31.6	29.7	33.8	31.0	31.7	29.4
19	23.8	21.0	28.0	26.0	32.4	28.5	32.0	29.8	33.6	31.0	30.3	28.9
20	23.6	21.5	28.8	25.8	30.0	27.1	31.9	29.6	33.1	31.0	29.2	28.0
21	25.3	22.1	29.5	26.5	30.1	26.6	31.9	29.6	33.9	31.1	28.3	27.5
22	25.7	22.8	29.5	26.9	29.4	26.7	32.5	29.6	34.2	31.1	27.9	27.1
23	25.1	23.1	29.9	27.2	30.3	26.7	32.2	30.3	32.8	30.7	28.2	27.0
24	24.6	23.1	29.4	27.4	29.0	27.0	32.5	30.3	32.2	30.6	29.3	26.9
25	24.5	21.7	28.5	26.7	29.9	27.7	32.2	29.7	31.0	28.6	29.3	26.8
26	25.2	22.2	27.4	26.1	30.2	28.0	32.3	29.9	29.4	27.8	29.4	27.3
27	25.1	23.7	29.3	26.1	30.4	28.1	32.5	30.0	29.7	28.2	30.2	27.8
28	25.8	23.4	29.6	27.0	30.0	28.4	32.3	30.4	29.7	28.6	30.1	27.8
29	25.8	23.2	29.6	27.6	29.4	28.6	31.8	30.4	30.1	28.7	30.9	28.2
30	25.8	23.9	30.1	27.9	29.7	28.3	32.1	30.5	30.9	28.9	29.3	28.5
31	---	---	29.1	27.8	---	---	31.9	30.2	31.4	29.0	---	---
MONTH	26.2	19.9	30.1	23.0	32.4	25.8	32.5	28.2	34.2	27.8	32.8	26.8
YEAR	34.2	14.6										

02277110 ST. LUCIE ESTUARY AT A1A (STEELE PT), STUART, FL—Continued

BOTTOM
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.8	0.1	26.0	2.3	31.0	18.2	31.8	21.3	31.0	23.9	31.4	23.8
2	14.6	0.2	25.4	1.2	30.0	16.9	32.5	23.4	32.3	22.5	32.1	23.2
3	22.1	0.2	29.5	1.3	31.1	15.2	31.0	23.9	32.4	20.3	32.8	25.0
4	27.3	0.4	28.1	1.8	28.1	18.3	30.7	21.9	34.4	23.9	33.0	22.7
5	25.6	0.7	32.8	2.1	26.8	15.4	32.0	21.1	34.3	24.2	32.3	20.3
6	17.8	0.2	29.9	9.6	26.8	15.2	32.0	19.5	33.7	24.4	32.5	20.4
7	17.9	0.3	26.3	8.0	28.7	15.7	32.9	18.7	33.0	24.7	33.3	20.6
8	22.0	0.3	24.3	3.3	31.8	15.7	33.3	19.9	34.1	22.2	32.5	20.4
9	20.9	0.6	27.6	2.9	30.9	15.3	32.2	20.0	32.4	19.1	35.0	22.3
10	23.4	0.6	31.4	13.8	32.5	14.2	33.3	21.6	31.7	16.9	32.4	21.5
11	21.8	0.5	31.1	7.5	32.9	15.6	33.2	23.3	34.1	20.6	29.6	18.8
12	21.3	0.6	32.5	4.3	33.5	18.7	33.1	23.6	32.4	20.7	29.3	16.8
13	27.8	0.8	31.8	3.8	32.5	16.8	35.0	24.0	31.2	19.8	30.3	16.6
14	30.5	1.2	34.1	8.0	32.3	15.9	33.7	22.8	32.3	19.0	32.0	16.5
15	29.8	1.6	35.0	18.5	33.8	17.3	33.8	23.7	33.8	19.4	32.2	20.1
16	31.6	1.6	32.9	14.7	32.3	19.0	32.9	25.9	31.9	22.0	32.9	17.7
17	27.9	1.3	31.9	12.6	30.3	18.5	33.0	25.0	33.6	23.4	33.1	11.7
18	24.1	0.9	31.0	14.8	30.3	19.3	32.9	26.3	33.3	24.0	27.6	10.6
19	29.0	0.5	30.4	16.0	29.8	18.1	33.2	25.6	33.1	26.4	26.8	9.7
20	30.3	0.5	28.7	16.2	28.3	18.6	32.1	22.6	31.4	24.8	28.0	8.1
21	32.7	0.7	28.9	16.2	30.0	19.8	32.5	22.2	32.8	22.8	27.4	8.7
22	31.6	2.7	30.4	15.3	31.1	19.5	31.8	22.2	32.9	20.8	26.3	5.8
23	28.9	5.5	32.1	15.1	32.8	18.8	---	---	33.9	21.8	27.8	4.0
24	28.4	4.6	33.6	11.5	31.7	16.7	---	---	33.7	24.9	30.7	4.7
25	29.7	6.3	32.5	11.9	33.8	21.8	33.7	25.8	34.2	25.2	30.2	5.5
26	30.4	5.0	34.2	14.7	29.8	21.7	33.1	24.7	34.5	25.7	30.8	10.3
27	31.7	5.4	33.1	19.4	33.2	22.6	31.5	23.5	33.7	25.1	30.8	7.1
28	30.5	6.1	33.3	14.0	32.0	24.5	34.3	23.7	33.2	23.6	32.5	7.3
29	28.4	6.1	33.0	18.7	32.2	22.6	32.0	22.4	---	---	30.2	8.7
30	28.5	4.9	32.2	19.8	32.4	23.4	31.5	19.0	---	---	32.6	11.5
31	26.7	6.0	---	---	32.8	21.8	31.4	21.9	---	---	31.1	9.5
MONTH	32.7	0.1	35.0	1.2	33.8	14.2	35.0	18.7	34.5	16.9	35.0	4.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	31.4	9.8	34.5	14.2	25.5	13.6	29.7	0.7	29.4	0.4	31.7	13.7
2	33.4	10.5	33.4	15.7	21.4	9.3	30.7	0.9	29.7	0.8	30.5	13.6
3	33.2	11.8	33.4	22.8	19.2	5.3	24.1	0.9	28.4	1.1	30.6	14.0
4	32.7	15.8	31.6	20.1	18.5	2.8	25.9	0.7	27.8	3.6	30.9	13.9
5	30.3	16.3	33.4	16.4	19.9	1.0	28.2	0.5	28.9	4.0	28.3	11.2
6	33.0	16.1	34.1	19.0	18.7	0.7	29.2	0.7	30.9	6.2	28.1	9.6
7	33.7	11.8	33.6	20.9	14.0	0.4	27.9	0.6	29.6	6.8	28.9	6.5
8	33.7	9.1	32.9	16.5	16.3	0.6	29.9	0.7	26.8	5.3	31.8	7.8
9	31.1	9.1	31.3	14.6	27.1	0.5	25.2	0.3	26.7	3.2	31.9	7.3
10	31.7	13.8	30.7	15.0	24.9	0.4	18.0	0.2	27.2	3.8	32.2	9.9
11	32.7	15.1	30.3	13.6	27.8	0.3	11.6	0.3	28.4	2.0	32.1	10.8
12	31.0	12.2	32.1	16.5	25.3	0.5	17.5	0.6	28.0	3.5	33.4	11.9
13	33.4	12.7	31.4	21.4	30.1	2.1	27.1	0.7	31.6	2.4	32.6	12.4
14	32.9	14.5	30.2	20.4	27.0	6.0	25.5	0.7	29.4	3.6	33.2	14.6
15	33.6	18.0	30.6	19.5	26.0	8.9	---	---	28.9	4.5	33.0	15.4
16	32.6	21.5	30.6	20.8	28.0	6.4	26.9	0.4	30.7	3.2	30.2	19.4
17	29.7	18.9	29.9	21.7	29.6	5.3	26.5	0.5	29.6	4.7	30.0	13.3
18	26.1	17.5	31.2	23.3	29.6	4.4	25.5	0.4	28.9	2.6	30.9	12.4
19	26.4	17.5	31.8	19.8	32.3	5.6	27.7	0.4	30.2	3.0	30.6	14.6
20	27.8	16.9	32.2	21.3	31.9	5.5	28.2	0.6	30.2	4.0	32.6	17.1
21	29.3	16.5	31.8	17.2	31.9	8.9	28.2	0.5	29.1	3.4	29.1	9.1
22	30.0	16.3	34.4	18.1	31.1	9.0	27.1	1.4	28.4	3.7	29.9	8.8
23	32.5	15.2	34.4	18.8	31.2	9.6	29.9	1.4	29.2	2.8	28.4	8.2
24	33.3	17.8	33.6	15.2	31.1	5.8	31.9	2.5	30.2	5.3	29.3	8.8
25	33.6	21.8	33.8	18.8	28.0	2.6	30.8	3.7	32.2	13.0	29.5	14.5
26	33.2	18.5	32.4	19.8	29.8	3.3	25.9	3.4	27.1	4.0	28.9	14.2
27	34.8	15.2	32.5	19.3	26.5	1.7	23.7	1.2	30.2	5.2	28.9	15.2
28	33.5	18.2	29.8	15.8	19.6	0.8	29.4	0.6	28.8	2.6	27.3	12.7
29	33.2	15.2	30.0	18.1	21.4	0.6	27.5	0.6	28.5	1.6	28.0	10.3
30	33.6	13.0	29.2	15.8	28.4	0.6	26.1	0.6	29.2	2.7	27.6	6.2
31	---	---	27.5	14.3	---	---	28.3	0.6	31.9	6.0	---	---
MONTH	34.8	9.1	34.5	13.6	32.3	0.3	31.9	0.2	32.2	0.4	33.4	6.2
YEAR	35.0	0.1										

02277110 ST. LUCIE ESTUARY AT A1A (STEELE PT), STUART, FL—Continued

BOTTOM
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.0	27.3	26.0	24.9	23.3	22.2	20.5	18.4	19.6	18.6	22.4	20.9
2	29.0	27.5	25.9	24.7	23.9	22.2	20.9	19.1	19.8	18.9	21.2	19.6
3	28.7	27.1	26.5	24.9	23.8	22.0	20.8	19.5	19.9	19.1	20.4	18.6
4	28.8	27.6	26.8	25.0	23.2	21.3	21.2	19.9	19.8	18.3	19.4	18.3
5	29.0	27.9	26.5	25.1	22.4	20.9	21.6	20.4	18.3	16.6	19.6	18.1
6	28.6	27.7	26.2	24.7	22.9	21.8	22.2	21.1	17.5	16.3	20.1	18.7
7	27.9	26.1	25.5	23.7	23.4	22.2	22.8	21.4	18.2	17.0	20.8	19.5
8	27.0	25.5	25.0	23.3	23.9	22.4	23.4	22.0	20.6	17.7	20.6	20.0
9	26.9	25.6	24.6	23.0	24.6	23.3	23.8	22.2	20.9	18.9	20.9	18.8
10	27.3	26.0	24.2	23.1	24.4	23.6	23.8	22.2	21.3	19.3	19.1	17.7
11	26.9	26.5	23.4	22.2	24.0	22.3	23.6	22.3	21.1	17.9	19.2	17.8
12	26.6	26.1	24.2	22.3	22.9	19.9	23.5	22.2	19.3	16.8	19.9	18.2
13	27.3	26.0	24.9	22.5	20.7	19.0	23.5	22.2	18.6	17.0	20.7	18.4
14	27.4	26.1	25.8	23.5	20.8	19.0	23.4	22.2	19.0	17.8	21.8	19.5
15	27.4	26.4	25.0	22.5	20.8	16.5	22.9	22.0	20.2	18.8	22.4	21.1
16	27.2	24.7	23.9	21.1	19.1	16.4	22.5	20.3	21.3	19.8	23.6	22.0
17	26.7	24.5	23.2	21.1	18.7	17.1	20.5	18.1	22.1	20.6	23.4	21.9
18	26.1	24.5	23.4	21.3	19.8	17.7	18.4	17.1	22.3	21.1	22.5	21.6
19	26.2	25.2	23.7	21.8	19.4	17.9	17.8	16.6	21.6	20.3	21.8	21.0
20	26.0	24.9	23.8	22.1	18.2	16.4	17.6	16.3	21.1	19.9	21.9	20.9
21	26.1	25.3	23.8	22.3	17.0	15.6	17.7	16.5	21.8	20.2	22.1	21.4
22	26.4	25.5	24.6	22.8	17.7	16.4	18.8	17.1	22.4	20.7	23.4	21.8
23	26.2	25.7	24.5	23.3	20.0	17.4	---	---	23.2	21.4	24.3	22.9
24	26.2	25.2	24.4	23.4	21.2	18.1	---	---	23.1	22.0	24.6	22.3
25	26.3	25.2	24.4	23.4	22.5	18.8	16.2	14.7	23.1	22.2	25.6	23.2
26	26.0	25.1	24.3	22.3	21.1	18.0	16.6	15.0	23.0	22.1	25.9	23.4
27	25.7	24.8	23.7	22.3	18.2	16.8	18.0	16.0	23.0	22.2	26.3	24.0
28	25.6	24.4	24.0	22.2	17.6	16.6	21.3	17.0	23.0	22.1	25.3	23.4
29	25.6	24.5	23.7	22.2	17.2	16.3	19.4	16.9	---	---	24.6	22.3
30	25.7	24.6	23.4	22.1	18.9	16.9	19.6	17.7	---	---	24.5	22.2
31	25.8	24.8	---	---	20.3	17.5	20.3	18.4	---	---	25.6	22.8
MONTH	29.0	24.4	26.8	21.1	24.6	15.6	23.8	14.7	23.2	16.3	26.3	17.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.8	23.0	25.5	24.5	28.2	26.6	30.4	27.7	31.7	28.3	30.4	28.5
2	25.3	22.8	26.2	24.9	27.3	26.2	30.6	28.0	31.0	28.9	30.9	29.5
3	23.1	21.1	26.3	25.1	27.0	26.2	31.3	28.1	31.7	28.9	30.3	29.7
4	22.3	20.6	26.3	25.4	26.6	26.0	31.6	28.3	31.6	29.0	29.9	28.7
5	23.6	21.5	25.8	24.8	27.7	26.1	32.0	28.1	30.7	28.9	29.2	28.1
6	23.9	21.8	25.3	24.1	28.4	26.4	32.2	28.0	31.3	29.1	28.5	27.5
7	24.3	22.4	25.1	23.6	28.6	26.8	32.3	28.0	30.9	29.6	28.4	27.1
8	24.7	23.1	25.8	23.8	29.2	26.7	31.9	27.6	30.7	29.7	28.4	27.3
9	24.6	23.1	25.8	24.0	29.1	27.0	30.4	28.8	31.0	29.9	28.4	27.1
10	24.8	23.1	26.3	24.5	28.3	27.1	29.4	28.4	31.1	29.7	28.8	27.6
11	24.6	23.3	26.8	24.9	27.4	26.6	30.2	28.0	30.9	29.7	29.2	28.4
12	24.9	23.5	26.2	25.1	28.3	26.9	30.8	27.7	31.1	29.7	29.4	28.6
13	24.5	23.6	26.2	25.2	28.9	25.7	31.1	27.5	31.8	29.2	29.7	29.0
14	24.0	22.6	26.6	25.2	28.5	26.5	31.2	28.0	31.8	29.6	29.8	28.7
15	23.3	22.1	26.0	25.2	29.3	26.9	---	---	32.1	30.1	30.0	28.5
16	22.1	21.4	26.3	25.3	30.3	27.0	30.7	27.5	32.4	30.2	30.6	28.8
17	21.6	20.6	27.3	25.7	31.1	27.5	31.2	28.3	33.5	30.6	30.6	29.0
18	22.0	20.6	27.6	26.3	31.0	28.1	31.3	28.7	33.6	30.8	30.8	29.2
19	22.5	21.2	27.6	26.2	31.6	27.0	31.9	28.5	33.2	30.5	30.2	29.1
20	22.9	21.9	27.7	26.1	29.6	26.0	31.7	27.4	32.6	30.4	29.3	28.2
21	23.9	22.1	28.5	26.7	29.3	26.0	31.7	27.4	32.8	30.5	28.6	27.5
22	24.8	22.8	28.7	26.9	28.9	26.1	32.1	28.1	32.1	30.5	27.9	27.2
23	25.0	23.6	29.2	26.9	29.0	26.2	32.2	29.4	31.9	30.6	27.9	27.0
24	24.5	23.3	29.1	27.1	28.5	27.0	31.0	29.2	31.6	30.6	28.6	27.2
25	24.1	22.2	28.0	26.5	29.3	27.6	30.9	29.1	31.0	28.8	28.6	27.9
26	25.1	22.2	27.2	26.4	29.2	28.2	31.5	29.4	29.0	27.9	29.0	28.1
27	25.1	23.8	28.1	26.1	29.1	28.1	31.8	30.0	29.4	28.6	28.8	28.5
28	25.7	23.8	29.5	27.2	29.8	28.2	31.8	29.3	29.4	28.9	29.0	28.5
29	25.7	24.2	29.4	27.3	29.4	28.1	31.6	28.1	30.1	29.0	29.5	28.5
30	25.8	24.4	29.6	27.5	29.7	27.2	32.0	28.5	31.0	28.7	29.2	28.7
31	---	---	29.1	27.2	---	---	31.9	28.6	30.6	28.5	---	---
MONTH	25.8	20.6	29.6	23.6	31.6	25.7	32.3	27.4	33.6	27.9	30.9	27.0
YEAR	33.6	14.7										

270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL

LOCATION.--Lat 27 00'57", long 80 09'10", in SE 1/4 SE 1/4 SE 1/4 sec.5, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, in Jonathan Dickinson State Park, near left bank on foot bridge, 1.75 mi upstream from mouth, 2.1 mi south of State Road 707, and 3.25 mi southwest of Hobe Sound.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1979 to March 1982, October 1984 to current year.

GAGE.--Electronic data logger and collector tube rain gage recorder. Rainfall data is available in the files of the U.S. Geological Survey. Elevation of gage is 6 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair, except estimated records, which are poor. Extreme stages may be incorrect due to the large amount of missing gage height record.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 20 complete water years of discharge (1981, 1985-88, 1990, 1992-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.68 ft Oct. 16, 1999; minimum, 1.06 ft May 18, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height 7.10 ft Oct. 1; minimum 1.85 ft Feb. 24.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.72	2.45	---	2.34	2.27	3.46	2.32	2.24	5.90	---	---
2	6.56	3.64	---	---	2.30	2.22	3.46	2.32	2.75	5.83	---	---
3	6.39	3.56	---	---	2.29	2.19	3.55	2.34	3.45	5.86	---	---
4	6.29	3.47	---	---	2.27	2.63	3.47	2.45	3.93	5.96	---	---
5	6.20	3.39	---	---	2.24	2.66	3.38	2.80	4.01	5.77	---	---
6	6.12	3.31	---	---	2.21	2.60	3.27	2.85	4.00	5.64	---	---
7	6.07	3.22	---	---	2.18	2.51	3.16	2.79	4.55	5.52	---	---
8	6.02	3.14	---	---	2.14	2.44	3.66	2.68	4.43	5.41	---	---
9	5.95	3.07	---	---	2.11	2.71	3.85	2.57	4.08	5.32	---	---
10	5.87	3.05	---	---	2.10	3.68	3.77	2.48	3.83	5.27	---	---
11	5.83	2.98	---	---	2.06	3.77	3.64	2.40	4.36	5.17	---	---
12	5.77	2.91	---	---	2.04	3.70	3.51	2.33	4.62	5.07	---	---
13	5.69	2.86	---	---	2.01	3.61	3.40	2.27	4.41	4.96	---	---
14	5.60	3.04	---	---	2.00	3.51	3.30	2.22	4.18	4.84	---	---
15	5.49	3.13	---	---	1.98	3.40	3.18	2.23	3.95	4.73	---	---
16	5.36	3.03	---	---	1.96	3.29	3.07	2.22	3.79	4.62	---	---
17	5.22	2.95	---	---	1.95	3.40	2.97	2.17	4.89	4.50	---	---
18	5.08	2.90	---	---	1.94	4.33	2.90	2.13	4.69	4.38	---	---
19	4.96	2.85	---	---	1.91	4.45	2.82	2.07	4.46	4.27	---	---
20	4.88	2.80	---	---	1.89	4.36	2.73	2.03	4.43	4.16	---	---
21	4.92	2.75	---	---	1.87	4.25	2.68	1.99	4.41	4.06	---	---
22	4.85	2.73	---	---	1.87	4.29	2.63	1.98	4.53	4.02	---	---
23	4.77	2.66	---	---	1.87	4.25	2.57	1.96	4.58	3.90	---	---
24	4.73	2.62	---	---	1.87	4.15	2.50	1.93	4.76	3.80	---	---
25	4.61	2.60	---	---	2.02	4.06	2.44	1.93	5.07	4.03	---	---
26	4.50	2.56	---	---	2.10	4.02	2.38	2.04	5.07	4.19	---	---
27	4.36	2.53	---	---	2.22	3.96	2.44	2.04	5.07	---	---	---
28	4.20	2.58	---	---	2.32	3.90	2.49	2.01	5.13	---	---	---
29	4.06	2.53	---	2.45	---	3.85	2.44	1.95	5.46	---	---	---
30	3.95	2.48	---	2.44	---	3.72	2.38	1.92	5.94	---	---	---
31	3.83	---	---	2.39	---	3.59	---	2.01	---	---	---	---
TOTAL	---	89.06	---	---	58.06	107.77	91.50	69.43	131.07	---	---	---
MEAN	---	2.97	---	---	2.07	3.48	3.05	2.24	4.37	---	---	---
MAX	---	3.72	---	---	2.34	4.45	3.85	2.85	5.94	---	---	---
MIN	---	2.48	---	---	1.87	2.19	2.38	1.92	2.24	---	---	---

270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e209	15	2.8	e2.0	2.5	2.1	12	2.4	2.1	97	e27	e55
2	162	14	e2.6	e2.0	2.3	1.9	12	2.4	5.4	93	e28	e69
3	139	13	e2.5	e1.9	2.2	1.8	13	2.5	12	95	e30	e184
4	127	12	e2.4	e1.8	2.1	4.2	12	3.2	20	100	e53	e164
5	117	11	e2.3	e1.7	2.0	4.4	11	5.5	21	89	e70	e224
6	107	9.8	e2.2	e1.6	1.8	3.9	9.7	5.9	21	82	e53	e237
7	103	8.8	e2.2	e1.5	1.7	3.5	8.6	5.4	35	76	e43	e144
8	98	7.9	e2.0	e1.4	1.6	3.0	15	4.6	32	71	e40	e101
9	91	7.2	e2.0	e1.4	1.4	5.1	18	3.9	23	67	e37	e85
10	84	7.1	e1.9	e1.3	1.4	15	16	3.4	18	64	e41	e74
11	81	6.5	e1.9	e1.2	1.2	16	15	2.9	32	60	e39	e67
12	76	5.9	e1.8	e1.1	1.2	15	13	2.5	38	56	e40	e62
13	70	5.5	e1.7	e0.99	1.1	14	11	2.2	31	51	e37	e57
14	63	7.1	e1.6	e0.99	1.0	13	10	1.9	26	46	e34	e53
15	58	7.8	e1.6	e2.7	0.97	11	8.8	2.0	21	42	e31	e51
16	52	7.0	e1.5	e2.6	0.92	9.8	7.7	1.9	18	39	e28	e47
17	47	6.3	e1.5	e2.5	0.89	11	6.8	1.7	48	35	e27	e45
18	43	5.8	e1.4	e2.5	0.84	28	6.2	1.5	40	31	e26	e43
19	40	5.5	e1.3	e2.4	0.76	31	5.6	1.3	33	28	e24	e41
20	39	5.1	e1.2	e2.3	0.70	28	5.0	1.2	33	25	e24	e41
21	47	4.6	e1.2	e2.2	0.66	25	4.6	1.0	32	23	e25	e41
22	44	4.5	e1.2	e2.2	0.66	26	4.3	1.0	35	22	e24	e55
23	41	4.0	e1.1	e2.1	0.67	25	3.9	0.94	37	20	e23	e72
24	40	3.8	e1.0	e2.1	0.65	23	3.4	0.85	44	18	e22	e64
25	36	3.6	e2.7	e2.0	1.1	21	3.1	0.87	56	22	e23	e59
26	33	3.4	e2.7	e1.9	1.4	21	2.7	1.2	56	26	e30	e55
27	29	3.2	e2.6	e1.8	1.9	19	3.1	1.2	56	e24	e33	e52
28	25	3.5	e2.5	e2.2	2.4	18	3.4	1.1	58	e24	e41	e51
29	22	3.2	e2.3	3.1	---	17	3.1	0.92	75	e27	e62	e49
30	19	2.9	e2.2	3.0	---	15	2.7	0.82	99	e26	e44	e47
31	17	---	e2.1	2.8	---	14	---	1.1	---	e26	e44	---
TOTAL	2,159	205.0	60.0	61.28	38.02	445.7	250.7	69.30	1,057.5	1,505	1,103	2,389
MEAN	69.6	6.83	1.94	1.98	1.36	14.4	8.36	2.24	35.2	48.5	35.6	79.6
MAX	209	15	2.8	3.1	2.5	31	18	5.9	99	100	70	237
MIN	17	2.9	1.0	0.99	0.65	1.8	2.7	0.82	2.1	18	22	41
AC-FT	4,280	407	119	122	75	884	497	137	2,100	2,990	2,190	4,740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	44.1	24.1	12.2	8.62	7.92	10.1	5.86	3.78	8.38	15.5	24.5	33.1
MAX	233	124	69.5	43.7	52.8	50.1	29.0	16.8	41.9	51.8	104	89.9
(WY)	(1996)	(1995)	(1995)	(1993)	(1993)	(1996)	(1997)	(1998)	(1997)	(2002)	(2001)	(2004)
MIN	0.78	0.88	0.29	0.55	0.54	0.31	0.13	0.08	0.15	0.13	0.25	1.08
(WY)	(1989)	(1989)	(1982)	(1982)	(2001)	(1985)	(1981)	(1981)	(1981)	(2004)	(1990)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	5,402.19		9,343.50			
ANNUAL MEAN	14.8		25.6		17.9	
HIGHEST ANNUAL MEAN					39.9	1995
LOWEST ANNUAL MEAN					0.99	1990
HIGHEST DAILY MEAN	323	Sep 26	237	Sep 6	1,230	Oct 18, 1995
LOWEST DAILY MEAN	0.06	Jul 14	0.65	Feb 24	0.01	Jun 5, 1989
ANNUAL SEVEN-DAY MINIMUM	0.07	Jul 9	0.71	Feb 18	0.05	May 30, 1989
MAXIMUM PEAK FLOW					1,800	Oct 17, 1995
MAXIMUM PEAK STAGE					11.00	Oct 17, 1995
INSTANTANEOUS LOW FLOW					0.00	Jun 1, 1989
ANNUAL RUNOFF (AC-FT)	10,720		18,530		12,930	
10 PERCENT EXCEEDS	53		65		52	
50 PERCENT EXCEEDS	1.6		12		4.6	
90 PERCENT EXCEEDS	0.14		1.3		0.40	

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.

265929080091800 LOXAHATCHEE RIVER AT OUTLET OF KITCHINGS CREEK, FL

LOCATION.--Lat 26 59'29", long 80 09'18", in NE 1/4 NW 1/4 SW 1/4, sec.16, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, on the Loxahatchee River, Jupiter, Fl, 3.67 mi west of State Road 811 Alternate (A1A), 2.2 mi east of U.S. Interstate 95.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--December 2002 to current year.

GAGE.--Electronic data logger. Datum of gage is arbitrary.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 4.65 ft Sept. 5, 2004; minimum, -1.67 ft Dec 12, 2004.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 3.46 ft Sept. 9; minimum, -1.67 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: December 2002 to current year.
WATER TEMPERATURE: December 2002 to current year.

INSTRUMENTATION.--Water-quality monitor sensor.

REMARKS.--Salinity record rated excellent for the entire water year. Temperature record rated good for the entire water year.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 20.0 ppt Apr. 17, 2005; minimum recorded, 0.0 ppt Apr. 8, 2003, Sept. 26, 30, 2004, Oct. 1, 2004, July 4, 2005 and Sept. 6, 2005.
WATER TEMPERATURE: Maximum recorded, 33.3 C June 28, 2004; minimum recorded, 12.8 C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 20.0 ppt Apr. 17; minimum recorded, 0.0 ppt Oct. 1, July 4, Sept. 6.
WATER TEMPERATURE: Maximum recorded, 32.7 C July 28; minimum recorded, 15.3 C Jan 26, Feb. 13.

265929080091800 LOXAHATCHEE RIVER AT OUTLET OF KITCHINGS CREEK, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.49	0.41	2.10	-0.33	1.76	-0.66	1.56	-0.71	2.21	0.01	1.63	-0.79
2	2.28	0.14	1.99	-0.39	1.74	-0.64	1.53	-0.58	2.33	-0.15	1.75	-0.78
3	2.19	0.01	1.83	-0.43	1.71	-0.57	1.37	-0.84	2.33	0.04	1.74	-0.69
4	2.20	0.13	1.88	-0.29	1.78	-0.33	1.34	-0.96	2.61	0.39	1.89	-0.85
5	2.02	0.11	1.82	-0.21	1.54	-0.63	1.56	-1.15	3.09	0.39	1.65	-1.21
6	1.89	0.14	2.23	0.25	1.41	-0.85	1.67	-1.11	3.26	0.33	1.57	-1.23
7	2.18	0.39	2.26	0.07	1.49	-0.95	1.74	-1.20	2.97	0.08	1.85	-1.05
8	2.42	0.47	2.02	-0.13	1.63	-1.03	1.87	-1.35	3.10	-0.06	1.87	-1.06
9	2.57	0.53	2.24	-0.33	1.60	-1.28	1.81	-1.51	2.79	-0.35	1.95	-1.18
10	2.57	0.33	2.73	0.12	1.68	-1.51	2.07	-1.48	2.47	-0.54	2.13	-0.94
11	2.42	0.13	2.89	0.03	1.76	-1.57	2.29	-1.28	2.34	-0.54	1.98	-0.95
12	2.61	0.04	2.93	-0.31	1.80	-1.67	2.20	-1.16	2.37	-0.23	1.69	-1.19
13	2.72	0.09	2.73	-0.63	1.72	-1.61	2.29	-0.90	2.38	-0.31	1.69	-1.11
14	2.81	-0.12	2.86	-0.75	1.83	-1.52	1.76	-1.07	2.21	-0.57	1.61	-1.26
15	3.06	-0.11	3.11	-0.03	1.93	-1.40	1.98	-0.82	1.81	-0.88	1.45	-1.11
16	2.74	-0.44	2.87	-0.16	2.22	-0.73	2.06	-0.02	1.52	-0.66	1.48	-0.82
17	2.58	-0.61	2.61	-0.33	1.99	-0.81	2.24	-0.06	1.68	-0.67	1.53	-0.50
18	2.39	-0.63	2.43	-0.26	2.01	-0.55	2.24	-0.09	1.58	-0.55	1.59	-0.29
19	2.16	-0.79	2.29	-0.29	1.93	-0.65	2.25	-0.27	1.74	-0.51	1.90	-0.21
20	2.03	-0.85	2.17	-0.36	1.74	-0.72	2.05	-0.27	1.54	-0.75	1.87	-0.30
21	2.28	-0.60	2.01	-0.47	1.86	-0.72	2.18	-0.38	1.47	-0.93	1.84	-0.35
22	2.77	-0.03	2.18	-0.53	1.89	-0.81	1.91	-0.63	1.31	-1.15	1.97	-0.31
23	2.94	0.38	2.25	-0.45	1.92	-0.69	1.83	-0.78	1.40	-1.21	1.73	-0.62
24	3.06	0.52	2.47	-0.50	1.85	-1.05	2.11	-0.55	1.68	-0.93	1.67	-0.79
25	3.13	0.68	2.18	-0.64	2.15	-0.92	2.27	-0.32	1.76	-0.96	1.89	-0.72
26	3.12	0.49	2.08	-1.03	2.00	-0.58	2.32	-0.31	2.06	-0.53	2.09	-0.61
27	3.17	0.38	2.39	-0.57	2.13	-0.57	2.07	-0.55	2.11	-0.27	2.18	-0.57
28	3.00	0.18	2.05	-0.65	2.29	-0.30	2.37	-0.31	2.13	-0.72	2.10	-0.81
29	2.92	0.05	2.02	-0.74	2.05	-0.39	2.28	-0.07	---	---	2.10	-0.82
30	2.73	-0.07	2.09	-0.61	2.04	-0.55	2.23	0.03	---	---	2.09	-0.94
31	2.48	-0.16	---	---	1.85	-0.47	2.18	-0.07	---	---	1.87	-1.01
MONTH	3.17	-0.85	3.11	-1.03	2.29	-1.67	2.37	-1.51	3.26	-1.21	2.18	-1.26
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.63	-0.96	1.70	-0.97	2.05	-0.64	2.07	-0.22	1.73	-0.89	2.02	-0.47
2	1.74	-1.10	1.77	-0.91	2.08	-0.69	2.04	-0.43	1.85	-0.79	2.17	-0.35
3	1.55	-0.73	2.05	-0.65	2.00	-0.60	1.68	-0.67	2.07	-0.57	2.65	0.08
4	1.81	-0.89	2.02	-0.58	2.09	-0.65	1.62	-0.77	1.97	-0.60	2.69	0.50
5	1.94	-0.85	2.05	-0.72	2.03	-0.85	1.82	-0.81	2.08	-0.35	2.49	0.55
6	2.08	-0.71	2.33	-0.67	2.12	-0.83	1.86	-0.72	2.03	-0.43	2.77	0.77
7	2.09	-0.72	2.55	-0.45	1.99	-0.67	1.82	-0.75	2.07	-0.24	2.95	0.97
8	2.20	-0.83	2.35	-0.55	2.13	-0.55	1.87	-0.61	2.12	-0.19	3.20	0.88
9	2.20	-0.88	2.25	-0.87	2.15	-0.48	1.91	-0.50	2.11	-0.26	3.46	1.04
10	2.20	-0.79	2.09	-0.83	2.03	-0.43	1.73	-0.59	1.99	-0.31	3.26	0.89
11	2.29	-0.60	1.89	-0.89	1.98	-0.35	1.45	-0.53	1.85	-0.44	3.12	0.66
12	2.31	-0.52	1.79	-0.79	1.80	-0.39	1.49	-0.47	1.82	-0.51	3.03	0.54
13	2.11	-0.71	1.77	-0.52	1.57	-0.31	1.55	-0.54	1.88	-0.64	2.95	0.23
14	1.89	-0.32	1.80	-0.46	1.68	-0.35	1.61	-0.68	2.05	-0.68	3.25	0.15
15	1.99	0.15	1.76	-0.32	1.61	-0.53	1.61	-0.72	1.97	-0.87	3.36	0.17
16	2.21	0.58	1.75	-0.18	1.69	-0.67	1.65	-0.86	2.10	-0.89	3.13	0.10
17	2.37	0.65	1.67	-0.39	2.01	-0.60	1.80	-1.01	2.21	-1.01	2.91	-0.19
18	2.21	0.26	1.59	-0.50	2.05	-0.69	1.89	-1.07	2.24	-0.97	2.88	-0.07
19	1.99	0.12	1.82	-0.55	2.21	-0.97	1.89	-1.19	2.33	-0.96	2.95	-0.03
20	1.93	-0.17	2.19	-0.51	2.28	-0.96	2.15	-1.18	2.29	-0.87	3.36	0.36
21	1.93	-0.44	2.30	-0.67	2.57	-0.82	2.29	-1.09	2.29	-0.69	2.70	-0.21
22	2.12	-0.57	2.59	-0.66	2.60	-0.79	2.27	-1.01	2.33	-0.60	2.57	-0.11
23	2.09	-0.76	2.68	-0.55	2.57	-0.83	2.29	-1.13	2.22	-0.69	2.39	-0.05
24	2.20	-0.87	2.61	-0.82	2.62	-0.65	---	---	2.17	-0.64	2.36	-0.09
25	2.17	-0.87	2.59	-0.79	2.66	-0.49	2.22	-0.55	2.78	-0.24	2.36	0.15
26	2.17	-0.92	2.63	-0.53	2.45	-0.42	2.21	-0.55	2.29	-0.21	2.36	0.22
27	2.02	-1.29	2.65	-0.67	2.41	-0.47	1.93	-0.78	2.43	-0.16	2.45	0.30
28	1.79	-1.06	2.38	-0.71	1.99	-0.49	1.63	-0.99	2.03	-0.21	2.53	0.27
29	1.97	-0.91	2.20	-0.58	1.82	-0.65	1.53	-1.03	2.01	-0.39	2.51	0.23
30	1.90	-1.02	2.20	-0.43	2.06	-0.25	1.53	-0.97	1.99	-0.36	2.65	0.30
31	---	---	2.13	-0.46	---	---	1.51	-0.98	2.01	-0.44	---	---
MONTH	2.37	-1.29	2.68	-0.97	2.66	-0.97	2.29	-1.19	2.78	-1.01	3.46	-0.47
YEAR	3.46	-1.67										

265929080091800 LOXAHATCHEE RIVER AT OUTLET OF KITCHINGS CREEK, FL—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.1	0.0	0.2	0.2	1.0	0.3	0.7	0.3	10.9	1.3	6.1	0.7
2	0.1	0.1	0.2	0.2	1.4	0.3	0.6	0.3	13.3	1.5	7.6	0.8
3	0.1	0.1	0.2	0.2	2.5	0.3	0.5	0.3	13.4	1.9	9.2	1.0
4	0.1	0.1	0.2	0.2	3.3	0.3	0.6	0.3	15.2	2.8	9.1	0.8
5	0.1	0.1	0.2	0.2	2.1	0.4	1.1	0.3	18.6	2.7	5.2	0.6
6	0.1	0.1	0.3	0.2	2.2	0.4	1.7	0.4	19.4	2.9	5.2	0.6
7	0.1	0.1	2.6	0.2	2.2	0.3	2.2	0.3	17.1	2.6	7.7	0.6
8	0.1	0.1	1.5	0.2	2.9	0.3	3.9	0.3	17.6	2.1	7.5	0.6
9	0.1	0.1	2.4	0.2	2.3	0.3	4.3	0.4	16.4	1.9	8.1	0.5
10	0.1	0.1	5.3	0.2	2.0	0.3	7.2	0.4	13.8	1.5	1.9	0.3
11	0.1	0.1	4.5	0.2	2.3	0.3	9.7	0.4	13.4	1.4	0.8	0.3
12	0.1	0.1	4.0	0.2	3.9	0.3	8.5	0.5	13.6	1.7	0.4	0.2
13	0.2	0.1	2.7	0.3	4.4	0.3	7.8	0.4	14.0	1.6	0.5	0.2
14	0.2	0.1	4.5	0.3	5.4	0.3	4.4	0.4	12.7	1.3	0.6	0.2
15	0.2	0.1	5.7	0.2	7.4	0.3	3.7	0.3	9.5	1.1	0.5	0.2
16	0.2	0.1	3.8	0.2	10.6	0.4	4.2	0.3	7.3	0.9	0.5	0.2
17	0.2	0.1	2.6	0.2	7.6	0.4	7.6	0.6	9.4	1.1	0.6	0.3
18	0.2	0.1	2.2	0.2	7.0	0.4	12.9	0.8	10.5	1.2	0.3	0.1
19	0.2	0.1	2.2	0.2	6.9	0.5	13.1	1.0	15.6	1.4	0.3	0.1
20	0.2	0.2	1.3	0.3	6.0	0.5	11.7	1.0	9.6	1.8	0.3	0.2
21	0.2	0.2	0.8	0.3	8.3	0.5	12.0	1.0	8.8	1.8	0.3	0.2
22	0.2	0.2	1.2	0.3	6.7	0.5	9.8	1.0	8.1	1.6	0.3	0.2
23	0.2	0.2	1.7	0.3	5.4	0.4	8.6	0.9	8.7	1.5	0.3	0.2
24	0.3	0.2	2.9	0.3	4.9	0.3	14.0	0.9	10.5	1.8	0.3	0.2
25	0.3	0.2	1.0	0.3	6.2	0.3	14.6	1.4	9.9	1.8	0.3	0.2
26	0.4	0.2	1.1	0.3	5.9	0.3	14.4	1.6	11.0	1.2	0.3	0.2
27	0.7	0.2	4.7	0.3	8.2	0.3	11.6	1.2	10.8	1.0	0.2	0.2
28	0.5	0.2	2.0	0.3	8.9	0.4	14.6	1.5	9.8	0.7	0.2	0.2
29	0.4	0.2	1.7	0.3	6.2	0.4	11.3	1.4	---	---	0.3	0.2
30	0.2	0.2	2.9	0.3	5.6	0.4	10.4	1.3	---	---	0.3	0.2
31	0.2	0.2	---	---	2.0	0.3	9.8	1.1	---	---	0.3	0.2
MONTH	0.7	0.0	5.7	0.2	10.6	0.3	14.6	0.3	19.4	0.7	9.2	0.1
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	0.3	0.2	3.9	0.4	3.3	0.3	0.1	0.1	0.2	0.1	0.2	0.1
2	0.3	0.2	4.5	0.4	0.7	0.2	0.1	0.1	0.2	0.1	0.2	0.1
3	0.3	0.2	7.0	0.4	0.3	0.2	0.1	0.1	0.2	0.1	0.2	0.1
4	0.3	0.2	6.3	0.4	0.2	0.2	0.1	0.0	0.2	0.1	0.1	0.1
5	0.4	0.2	2.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
6	0.4	0.3	1.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0
7	0.3	0.3	1.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
8	0.3	0.2	0.6	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
9	0.3	0.2	0.4	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
10	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
11	0.5	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
12	0.8	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
13	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
14	0.3	0.2	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1
15	0.9	0.3	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.3	0.1
16	12.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1
17	20.0	1.2	0.3	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1
18	16.8	1.2	0.4	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1
19	6.1	1.1	0.9	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.1
20	4.7	0.7	4.5	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.9	0.1
21	4.6	0.5	6.4	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1
22	6.0	0.4	9.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
23	6.4	0.4	10.4	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1
24	8.6	0.4	9.4	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
25	8.2	0.4	10.4	0.3	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.1
26	8.6	0.4	10.6	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
27	6.8	0.4	10.6	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
28	5.0	0.3	7.2	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1
29	6.1	0.4	6.5	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1
30	5.5	0.4	5.7	0.3	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1
31	---	---	5.5	0.3	---	---	0.2	0.2	0.2	0.1	---	---
MONTH	20.0	0.2	10.6	0.2	3.3	0.1	0.2	0.0	0.3	0.1	0.9	0.0
YEAR	20.0	0.0										

265929080091800 LOXAHATCHEE RIVER AT OUTLET OF KITCHINGS CREEK, FL—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.3	26.4	25.8	24.9	23.3	22.0	20.5	19.4	19.4	17.9	22.7	21.2
2	28.5	27.4	26.0	25.1	23.2	22.4	20.7	19.7	20.5	18.3	21.9	19.8
3	28.5	27.0	26.4	24.9	22.8	21.6	21.0	19.9	20.1	18.9	21.1	17.9
4	28.8	27.0	26.3	24.8	22.3	20.5	21.5	20.3	20.2	18.5	19.7	17.0
5	28.8	27.2	25.6	24.6	21.8	20.1	22.1	20.6	19.3	17.7	20.6	17.3
6	28.5	27.2	24.7	23.5	22.3	20.4	22.2	21.0	18.9	17.5	20.5	18.0
7	27.2	25.7	24.3	22.0	22.7	21.5	22.5	21.1	19.3	18.1	21.2	19.1
8	26.7	24.9	23.6	21.5	23.8	21.7	22.7	21.2	19.7	18.7	20.9	20.0
9	27.0	25.2	23.7	21.7	24.0	22.7	22.4	21.3	20.2	18.8	20.3	18.2
10	27.4	25.6	23.1	22.2	23.9	23.1	22.3	20.8	20.4	19.2	18.4	17.2
11	27.3	25.8	23.2	22.3	23.4	22.2	22.3	20.9	20.1	18.1	18.5	16.6
12	26.5	25.6	23.6	22.6	22.2	19.9	22.3	21.1	18.6	16.1	19.9	17.2
13	27.3	25.6	23.4	22.7	19.9	18.1	22.5	21.6	18.0	15.3	20.6	18.4
14	27.0	25.7	23.3	22.6	19.3	18.0	22.6	22.2	18.5	15.9	22.3	19.3
15	27.3	25.7	22.8	21.6	18.9	17.1	22.4	21.8	20.4	16.9	23.5	20.6
16	26.8	24.2	21.9	21.0	17.9	16.3	22.0	20.0	20.5	17.7	24.5	22.4
17	24.7	22.6	21.6	20.5	18.0	16.9	20.6	17.7	22.1	18.5	23.7	22.4
18	25.8	23.6	21.4	20.3	19.3	17.7	19.6	16.5	21.3	19.7	22.6	19.9
19	26.8	24.8	22.2	20.3	19.2	18.4	18.7	16.4	21.1	19.3	21.3	18.4
20	26.9	25.4	22.4	20.3	18.6	16.6	17.9	15.7	21.4	19.4	22.2	18.0
21	26.9	25.0	22.2	20.5	17.7	15.6	18.1	16.1	21.7	19.9	22.0	20.0
22	27.2	24.7	22.9	21.1	17.7	16.1	18.6	16.7	22.4	20.4	23.8	21.1
23	26.0	24.3	22.7	21.4	19.1	17.6	19.1	17.4	22.9	20.8	25.1	23.3
24	25.6	23.6	23.2	22.0	20.2	18.8	18.2	16.1	23.0	21.3	24.6	23.4
25	25.3	23.8	23.8	22.7	20.4	19.4	17.6	15.7	22.5	21.7	25.4	23.6
26	25.1	23.8	23.0	21.8	20.1	18.8	17.4	15.3	22.6	21.5	26.1	24.3
27	25.0	23.6	22.1	21.2	19.0	17.6	17.8	15.9	22.6	21.8	26.9	24.9
28	24.5	23.6	23.1	21.9	18.0	16.8	17.9	17.2	23.0	21.9	26.6	25.6
29	25.0	23.4	22.6	22.1	18.1	16.8	18.8	17.2	---	---	25.6	23.2
30	24.9	23.8	22.3	21.7	19.1	17.5	19.1	17.7	---	---	24.8	22.2
31	25.3	23.8	---	---	20.0	18.6	19.6	18.0	---	---	26.3	23.0
MONTH	28.8	22.6	26.4	20.3	24.0	15.6	22.7	15.3	23.0	15.3	26.9	16.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.9	24.3	26.4	24.9	28.1	26.5	29.1	27.0	30.2	28.2	29.6	28.3
2	25.7	24.0	27.0	25.2	26.8	25.2	30.4	28.0	29.4	27.9	29.7	27.9
3	24.2	22.0	26.7	25.6	25.8	24.9	30.3	28.5	30.2	28.0	28.6	27.4
4	24.0	20.2	26.3	25.3	25.5	24.6	30.4	27.6	29.3	27.3	28.3	26.2
5	24.4	21.5	25.4	24.3	26.3	24.9	31.0	28.3	28.1	27.0	27.2	26.4
6	24.6	22.9	25.4	23.9	27.8	25.8	31.2	28.8	29.1	27.1	26.5	25.9
7	24.9	23.5	25.1	23.8	27.7	26.5	31.4	29.3	29.8	27.9	27.3	25.7
8	24.8	23.6	25.2	23.3	28.7	26.2	31.3	29.6	30.0	27.7	27.8	26.5
9	24.4	22.8	26.3	23.5	28.9	27.4	30.7	29.0	31.0	28.0	28.2	26.5
10	24.1	22.3	26.8	23.9	28.3	27.0	29.1	28.1	31.6	28.0	29.0	26.9
11	24.4	22.1	27.6	24.5	27.0	26.2	29.5	27.8	30.4	28.6	29.5	27.4
12	24.8	22.6	27.2	25.0	27.4	26.2	30.4	28.3	31.0	28.1	29.5	26.7
13	25.2	23.5	27.2	25.2	28.8	26.6	31.4	29.4	30.7	28.8	29.7	26.8
14	25.3	23.1	27.5	25.4	30.9	27.6	31.2	29.4	31.2	28.6	29.8	27.0
15	24.1	22.5	26.7	25.7	32.0	29.3	31.6	28.6	31.6	28.6	30.0	27.4
16	24.0	21.4	28.2	25.1	31.7	28.7	31.3	29.5	32.1	29.0	29.4	27.6
17	23.9	20.9	28.4	25.9	30.9	29.0	31.8	29.5	32.3	29.6	29.7	27.9
18	23.3	20.7	28.6	26.5	31.2	28.8	31.6	29.8	31.5	29.5	29.6	27.9
19	23.7	21.0	28.4	26.6	30.9	28.6	32.0	29.9	31.8	29.7	29.4	28.0
20	23.8	22.0	29.1	26.7	29.8	27.1	31.6	29.5	31.6	30.1	29.1	27.7
21	24.8	22.1	29.1	26.9	27.8	26.0	31.4	29.9	31.5	30.0	28.0	26.9
22	25.1	22.8	29.3	26.8	27.9	26.2	31.3	29.7	31.1	29.6	27.8	26.8
23	25.4	23.3	29.2	27.1	28.3	26.1	31.8	29.8	31.1	29.3	27.6	26.4
24	25.3	23.9	29.3	27.1	27.9	26.2	31.5	29.9	31.3	29.6	28.5	26.5
25	25.3	22.7	29.4	27.6	28.7	26.0	30.1	28.1	30.4	28.3	29.0	26.6
26	24.8	22.3	28.5	27.0	29.4	27.0	31.2	27.9	28.7	27.2	29.2	26.7
27	25.6	23.7	27.7	26.3	29.7	26.8	31.5	28.9	29.4	27.5	28.2	26.2
28	26.6	24.1	28.6	26.5	29.7	26.8	32.7	29.4	29.9	28.2	28.3	26.0
29	26.4	23.9	30.1	27.4	29.1	26.6	31.9	29.3	29.5	27.9	28.8	25.8
30	26.6	24.2	30.1	28.2	28.1	26.2	31.9	29.1	30.3	28.5	28.5	26.8
31	---	---	29.1	27.9	---	---	31.1	28.9	30.3	28.7	---	---
MONTH	26.9	20.2	30.1	23.3	32.0	24.6	32.7	27.0	32.3	27.0	30.0	25.7
YEAR	32.7	15.3										

265912080082900 LOXAHATCHEE RIVER AT BOY SCOUT CAMP NEAR HOBE SOUND, FL

LOCATION.--Lat 26 59'12", long 80 08'29", in SW 1/4 SW 1/4 SW 1/4, sec.15, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, in Tanah-Keeta Boy Scout Camp, 4.65 mi northwest of Jupiter, 5.26 mi northwest of the mouth of Loxahatchee River, 2.92 mi east of U.S. Interstate 95.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929, survey levels from a benchmark provided by National Geodetic Survey.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 4.63 ft Sept. 5, 2004; minimum, -1.54 ft July 1, 2004.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 3.69 ft Sept. 9; minimum, -1.36 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): October 2002 to current year.
SALINITY (BOTTOM): June 2003 to current year.
WATER TEMPERATURE (TOP): October 2002 to current year.
WATER TEMPERATURE (BOTTOM): June 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors. A second salinity and temperature sensor was installed in June 13, 2003.

REMARKS.--Salinity record (TOP) rated excellent. Salinity record (BOTTOM) rated excellent except for the following periods: June 25-28, July 21-26, rated good. Temperature record (TOP and BOTTOM) are rated excellent for the entire water year.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 27.6 ppt Apr. 5, 2004; minimum recorded, 0.1 ppt multiple days during the months of Sept. 2004, Oct. 2004, Dec. 2004, June 2005, July 2005, Aug. 2005, and Sept. 2005.
SALINITY (BOTTOM): Maximum recorded, 29.2 ppt Apr. 16, 2005; minimum recorded, 0.1 ppt multiple days during the months of Sept. 2004, Oct. 2004, June 2005, July 2005, Aug. 2005, and Sept. 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 34.1 C June 20, 2004; minimum recorded, 13.2 C Jan. 25, 2004.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.6 C June 28, July 1, 2, 2004; minimum recorded, 15.0 C Dec. 22, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 27.5 ppt Feb. 6; minimum recorded, 0.1 ppt multiple days during the months of Oct., Dec., June, July, Aug., and Sept.
SALINITY (BOTTOM): Maximum recorded, 29.2 ppt Apr. 16; minimum recorded, 0.1 ppt multiple days during the months of Oct., June, July, Aug., and Sept.
WATER TEMPERATURE (TOP): Maximum recorded, 33.5 C Aug. 17; minimum recorded, 16.1 C Jan. 24, 26.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.5 C Aug. 17; minimum recorded, 16.6 C Jan. 26.

265912080082900 LOXAHATCHEE RIVER AT BOY SCOUT CAMP NEAR HOBE SOUND, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.71	0.28	2.33	-0.07	1.98	-0.38	1.77	-0.42	2.45	0.30	1.85	-0.51
2	2.50	0.12	2.22	-0.13	1.98	-0.36	1.74	-0.29	2.58	0.13	1.97	-0.48
3	2.42	0.07	2.06	-0.16	1.94	-0.28	1.57	-0.54	2.58	0.32	1.97	-0.42
4	2.43	0.28	2.11	-0.03	2.00	-0.06	1.55	-0.66	2.88	0.68	2.12	-0.56
5	2.24	0.30	2.07	0.06	1.74	-0.35	1.77	-0.85	3.35	0.71	1.88	-0.93
6	2.11	0.33	2.45	0.52	1.62	-0.58	1.89	-0.81	3.53	0.62	1.77	-0.93
7	2.41	0.59	2.48	0.33	1.69	-0.71	1.96	-0.90	3.23	0.37	2.07	-0.75
8	2.65	0.68	2.24	0.08	1.86	-0.73	2.11	-1.05	3.37	0.23	2.11	-0.76
9	2.81	0.75	2.45	-0.05	1.82	-0.98	2.03	-1.21	3.06	-0.06	2.17	-0.88
10	2.80	0.56	---	---	1.89	-1.21	2.30	-1.17	2.74	-0.24	2.35	-0.64
11	2.65	0.35	3.13	0.31	1.99	-1.27	2.53	-0.98	2.60	-0.24	2.20	-0.64
12	2.85	0.25	3.18	-0.02	2.02	-1.36	2.43	-0.85	2.63	0.05	1.90	-0.89
13	2.94	0.33	2.98	-0.34	1.93	-1.31	2.51	-0.61	2.64	-0.02	1.84	-0.80
14	3.04	0.11	3.11	-0.46	2.07	-1.22	1.98	-0.77	2.46	-0.28	1.83	-0.95
15	3.29	0.13	---	---	---	---	2.20	-0.53	2.04	-0.59	1.65	-0.80
16	2.97	-0.21	3.11	0.12	2.45	-0.43	2.29	0.27	1.74	-0.38	1.69	-0.52
17	2.80	-0.36	2.85	-0.07	2.22	-0.51	2.48	0.23	1.92	-0.38	1.75	-0.23
18	2.61	-0.39	2.66	0.00	2.24	-0.27	2.48	0.19	1.81	-0.23	1.82	-0.01
19	2.37	-0.55	2.52	-0.01	2.15	-0.36	2.50	0.02	1.98	-0.29	2.13	0.08
20	2.24	-0.61	2.39	-0.08	1.96	-0.43	2.29	-0.01	1.76	-0.47	2.10	-0.04
21	2.49	-0.36	2.23	-0.22	2.09	-0.47	2.43	-0.08	1.69	-0.64	2.08	-0.05
22	2.98	0.22	2.40	-0.25	2.11	-0.53	2.15	-0.32	1.52	-0.87	2.20	-0.02
23	3.16	0.63	2.48	-0.16	2.15	-0.40	2.07	-0.49	1.60	-0.91	1.98	-0.35
24	3.29	0.78	2.71	-0.22	2.08	-0.75	2.36	-0.26	1.92	-0.64	1.92	-0.52
25	3.37	0.93	2.41	-0.36	2.38	-0.62	2.53	-0.03	1.99	-0.66	2.14	-0.43
26	3.33	0.75	2.30	-0.74	2.24	-0.29	2.57	-0.02	2.30	-0.24	2.33	-0.32
27	3.40	0.66	2.61	-0.28	2.35	-0.29	2.32	-0.25	2.37	0.01	2.43	-0.28
28	3.23	0.43	2.27	-0.37	2.52	-0.01	2.62	-0.02	2.37	-0.43	2.35	-0.52
29	3.15	0.33	2.23	-0.45	2.27	-0.10	2.52	0.21	---	---	2.33	-0.52
30	2.96	0.20	2.30	-0.33	2.27	-0.27	2.49	0.31	---	---	2.33	-0.64
31	2.71	0.11	---	---	2.07	-0.19	2.43	0.21	---	---	2.10	-0.71
MONTH	3.40	-0.61	3.18	-0.74	2.52	-1.36	2.62	-1.21	3.53	-0.91	2.43	-0.95
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.88	-0.66	1.93	-0.66	2.29	-0.35	2.29	-0.23	1.97	-0.63	2.28	-0.22
2	1.99	-0.80	2.01	-0.51	2.30	-0.41	2.26	-0.35	2.09	-0.54	2.41	-0.09
3	1.78	-0.49	2.30	-0.34	2.23	-0.37	1.92	-0.53	2.31	-0.31	2.88	0.31
4	2.05	-0.59	2.26	-0.29	2.33	-0.42	1.86	-0.63	2.20	-0.39	2.90	0.63
5	2.17	-0.54	2.28	-0.43	2.26	-0.62	2.06	-0.62	2.34	-0.20	2.70	0.59
6	2.32	-0.41	2.57	-0.36	2.35	-0.58	2.10	-0.52	2.26	-0.22	3.00	0.75
7	2.35	-0.42	2.80	-0.15	2.22	-0.49	2.07	-0.51	2.36	0.01	3.18	1.01
8	2.45	-0.52	2.59	-0.25	2.37	-0.32	2.13	-0.36	2.36	0.06	3.45	0.98
9	2.45	-0.57	2.36	-0.55	2.37	-0.23	2.15	-0.26	2.35	0.00	3.69	1.20
10	2.52	-0.48	2.33	-0.53	2.26	-0.17	1.97	-0.40	2.23	-0.06	3.50	1.09
11	2.55	-0.29	2.12	-0.59	2.21	-0.14	1.69	-0.35	2.10	-0.19	3.35	0.89
12	2.56	-0.23	2.02	-0.48	2.03	-0.18	1.72	-0.28	2.06	-0.27	3.27	0.78
13	2.37	-0.40	2.00	-0.23	1.82	-0.09	1.78	-0.32	2.12	-0.41	3.19	0.48
14	2.13	-0.03	2.03	-0.16	1.93	-0.09	1.85	-0.43	2.29	-0.43	3.50	0.41
15	2.23	0.45	2.00	-0.02	1.85	-0.27	1.85	-0.49	2.21	-0.62	3.61	0.43
16	2.46	0.86	2.00	0.11	1.94	-0.39	1.88	-0.61	2.34	-0.64	3.38	0.36
17	2.64	0.93	1.92	-0.08	2.25	-0.34	2.04	-0.76	2.45	-0.74	3.17	0.07
18	2.47	0.51	1.82	-0.20	2.29	-0.43	2.12	-0.83	2.48	-0.71	3.13	0.20
19	2.25	0.41	2.06	-0.26	2.46	-0.71	2.12	-0.95	2.57	-0.69	3.21	0.24
20	2.18	0.12	2.45	-0.20	2.52	-0.69	2.39	-0.92	2.54	-0.59	3.62	0.64
21	2.18	-0.14	2.57	-0.35	2.82	-0.58	2.53	-0.83	2.54	-0.42	2.97	0.07
22	2.37	-0.27	2.85	-0.35	2.85	-0.53	2.54	-0.74	2.58	-0.31	2.80	0.12
23	2.34	-0.43	2.95	-0.24	2.85	-0.58	2.54	-0.86	2.48	-0.41	2.62	0.14
24	2.45	-0.55	2.89	-0.49	2.87	-0.44	2.34	-0.50	2.41	-0.36	2.59	0.12
25	2.41	-0.57	2.85	-0.48	2.89	-0.28	2.47	-0.29	3.01	0.04	2.62	0.40
26	2.40	-0.61	2.90	-0.23	2.68	-0.18	2.45	-0.28	2.53	0.05	2.60	0.47
27	2.26	-0.98	2.92	-0.36	2.65	-0.25	2.16	-0.50	2.68	0.10	2.71	0.55
28	2.02	-0.75	2.64	-0.41	2.24	-0.28	1.87	-0.72	2.29	0.06	2.76	0.53
29	2.21	-0.60	2.45	-0.28	2.05	-0.44	1.77	-0.75	2.25	-0.14	2.76	0.50
30	2.15	-0.71	2.45	-0.14	2.28	-0.27	1.77	-0.68	2.24	-0.11	2.87	0.56
31	---	---	2.38	-0.20	---	---	1.74	-0.72	2.25	-0.18	---	---
MONTH	2.64	-0.98	2.95	-0.66	2.89	-0.71	2.54	-0.95	3.01	-0.74	3.69	-0.22
YEAR	3.69	-1.36										

265912080082900 LOXAHATCHEE RIVER AT BOY SCOUT CAMP NEAR HOBE SOUND, FL—Continued

TOP
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.1	0.1	4.8	0.3	15.8	2.2	12.1	2.4	25.6	9.4	23.4	6.5
2	0.1	0.1	2.7	0.2	18.4	2.4	10.8	2.4	25.8	9.0	24.8	7.0
3	0.1	0.1	3.5	0.2	21.0	2.9	9.6	1.8	24.7	10.0	25.4	6.9
4	0.1	0.1	4.5	0.3	22.2	4.1	10.2	1.9	25.6	12.0	25.0	5.7
5	0.1	0.1	8.0	0.3	18.7	4.5	11.1	2.0	27.1	12.0	23.8	5.0
6	0.2	0.1	23.1	1.7	17.7	3.8	12.6	2.0	27.5	13.1	22.4	4.8
7	0.2	0.1	20.3	3.9	15.5	3.8	14.4	2.2	26.1	12.7	23.2	5.4
8	0.2	0.2	19.7	3.0	16.2	3.4	16.2	2.4	27.0	12.0	20.4	5.6
9	0.6	0.2	20.2	2.8	15.3	2.8	18.1	2.7	26.0	11.8	23.1	5.6
10	0.6	0.2	19.1	3.5	13.8	2.1	19.4	3.3	25.5	11.3	21.9	2.6
11	0.7	0.2	15.8	2.6	17.1	1.8	20.4	4.6	26.6	10.4	18.0	1.7
12	2.0	0.2	14.7	1.5	21.6	0.1	19.9	5.4	27.1	12.2	17.0	1.4
13	8.4	0.2	16.6	1.0	21.0	1.5	18.7	5.7	27.0	11.4	17.2	1.7
14	11.5	0.2	18.4	1.0	21.0	3.2	15.8	4.0	25.2	9.3	16.0	1.8
15	9.9	0.2	18.7	1.7	24.6	3.6	20.3	3.3	23.2	7.6	15.2	2.0
16	12.9	0.2	16.8	1.4	24.0	6.2	23.1	4.8	22.8	6.5	14.4	1.7
17	12.2	0.2	17.7	1.4	22.5	5.6	24.3	6.8	23.2	6.5	13.4	1.9
18	5.7	0.2	19.1	1.9	23.2	5.8	24.1	7.0	25.0	7.6	11.9	1.2
19	3.8	0.2	17.4	2.4	23.5	6.2	24.8	7.2	27.4	7.4	17.9	1.8
20	7.4	0.2	16.0	2.4	23.4	6.0	23.4	7.1	23.8	8.6	17.0	1.7
21	11.2	0.2	15.4	2.2	24.2	5.8	23.7	7.3	22.8	8.0	14.2	1.6
22	18.4	0.4	17.1	1.9	20.5	5.2	23.2	7.2	21.6	7.8	10.0	0.9
23	15.7	0.7	17.5	2.2	17.3	4.4	22.3	6.8	21.7	8.2	3.3	0.4
24	15.7	0.4	15.3	1.9	18.1	3.5	25.0	6.8	22.4	9.0	5.0	0.3
25	16.0	0.6	12.8	1.7	23.0	3.4	25.8	9.1	24.4	9.6	6.6	0.3
26	15.8	0.4	19.2	1.2	20.1	5.1	25.5	10.1	25.7	9.6	8.1	0.3
27	15.9	0.5	17.8	2.4	23.1	4.0	24.6	8.9	24.7	9.5	7.3	0.3
28	15.7	0.5	16.6	2.5	23.5	6.0	25.6	9.8	22.4	6.4	11.3	0.3
29	14.4	0.4	19.8	2.1	19.7	4.8	23.0	10.5	---	---	13.1	0.4
30	12.6	0.4	17.4	2.4	17.8	4.3	23.0	9.6	---	---	14.8	0.8
31	10.3	0.4	---	---	14.9	3.6	24.4	9.2	---	---	11.6	0.5
MONTH	18.4	0.1	23.1	0.2	24.6	0.1	25.8	1.8	27.5	6.4	25.4	0.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.9	0.3	16.1	3.8	17.9	3.5	0.1	0.1	4.6	0.2	5.8	0.2
2	6.0	0.5	18.6	3.8	15.2	1.6	0.1	0.1	7.3	0.2	5.0	0.2
3	13.1	0.6	23.1	5.3	6.4	0.3	0.2	0.1	8.2	0.2	5.4	0.1
4	16.1	1.0	20.6	5.8	1.7	0.2	0.2	0.1	2.6	0.2	1.9	0.1
5	17.1	1.3	17.4	3.1	1.6	0.2	0.2	0.1	0.4	0.1	0.1	0.1
6	12.3	1.3	20.9	1.6	1.2	0.2	0.5	0.1	0.6	0.1	0.1	0.1
7	8.6	0.8	18.9	1.4	0.7	0.2	0.5	0.2	1.7	0.2	0.1	0.1
8	11.1	0.4	14.7	0.8	1.0	0.2	0.5	0.2	3.4	0.2	1.4	0.1
9	15.8	0.5	13.5	0.9	1.0	0.2	0.4	0.2	3.6	0.2	8.3	0.1
10	17.6	0.9	13.0	1.1	0.6	0.2	0.2	0.2	3.1	0.2	8.6	0.1
11	18.5	1.2	13.5	1.3	0.3	0.2	0.2	0.1	2.0	0.2	9.2	0.1
12	15.4	1.0	13.5	1.5	0.2	0.2	0.2	0.1	1.7	0.2	11.9	0.2
13	11.2	0.8	14.1	1.6	0.2	0.2	0.2	0.1	2.4	0.2	12.2	0.2
14	15.0	1.4	13.7	1.4	0.2	0.2	0.3	0.1	5.0	0.2	13.8	0.2
15	24.5	3.3	11.1	1.5	0.3	0.2	0.3	0.2	5.5	0.2	12.2	0.2
16	26.1	5.9	12.1	1.9	1.2	0.2	0.4	0.2	5.3	0.2	11.6	0.2
17	26.3	7.9	11.0	1.6	3.3	0.2	1.3	0.2	7.1	0.2	11.9	0.3
18	25.8	7.9	11.7	1.7	4.2	0.2	1.8	0.2	7.5	0.2	11.8	0.3
19	21.5	7.3	15.6	2.1	8.4	0.2	2.6	0.2	10.5	0.3	13.1	0.3
20	18.9	5.7	16.7	3.0	8.9	0.2	5.6	0.2	11.5	0.3	13.4	0.4
21	19.1	5.3	19.4	3.7	11.3	0.2	8.1	0.2	11.9	0.3	7.2	0.3
22	20.3	4.9	23.1	4.4	11.1	0.2	11.8	0.3	12.4	0.4	2.6	0.2
23	21.8	4.7	21.2	4.9	11.1	0.2	12.8	0.3	10.9	0.3	0.4	0.1
24	23.7	4.7	23.6	4.2	9.5	0.2	12.9	0.3	10.3	0.3	0.3	0.1
25	23.6	5.2	23.5	4.8	8.3	0.2	13.6	0.2	18.0	0.5	0.9	0.2
26	22.3	4.8	24.1	5.2	2.1	0.2	10.0	0.2	6.1	0.2	1.0	0.2
27	20.3	3.8	22.8	4.3	1.6	0.2	7.0	0.2	2.2	0.2	3.7	0.2
28	20.8	3.9	20.2	4.0	0.6	0.2	4.8	0.2	0.6	0.2	4.8	0.2
29	22.5	4.1	19.7	4.4	0.2	0.2	3.4	0.2	0.8	0.2	6.0	0.2
30	18.9	3.6	20.4	5.1	0.2	0.1	4.3	0.2	1.9	0.2	8.3	0.2
31	---	---	21.4	4.7	---	---	2.5	0.2	5.4	0.2	---	---
MONTH	26.3	0.3	24.1	0.8	17.9	0.1	13.6	0.1	18.0	0.1	13.8	0.1
YEAR	27.5	0.1										

265912080082900 LOXAHATCHEE RIVER AT BOY SCOUT CAMP NEAR HOBE SOUND, FL—Continued

TOP
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.9	27.7	26.1	24.7	23.6	22.0	20.7	18.9	20.3	18.3	23.0	21.0
2	29.3	28.4	26.2	24.9	23.8	21.9	21.1	19.1	21.2	19.0	22.4	20.1
3	29.4	28.0	26.4	25.0	23.5	21.9	21.6	19.4	21.0	19.8	21.8	19.0
4	29.5	28.1	26.7	24.9	23.4	21.0	22.2	19.8	20.8	18.6	20.6	18.7
5	29.2	28.3	25.8	24.8	23.3	20.9	22.7	20.4	20.0	18.3	22.0	18.3
6	29.3	27.7	26.0	24.1	23.4	21.3	22.7	21.3	19.1	18.1	21.2	18.7
7	27.7	26.0	25.7	23.7	23.4	22.1	23.0	21.5	19.6	18.4	21.9	19.7
8	27.1	25.3	25.4	23.3	23.9	22.2	23.3	21.7	19.8	18.8	21.3	20.3
9	27.5	25.5	25.1	23.0	24.6	22.9	23.5	21.5	20.6	19.0	20.5	18.9
10	28.1	26.0	24.2	23.0	24.4	23.2	23.3	21.5	20.7	19.4	19.7	18.2
11	27.3	26.6	23.6	22.5	23.8	22.1	23.0	21.4	20.7	18.0	19.4	17.4
12	27.1	26.3	23.5	22.6	22.1	19.9	23.0	21.6	18.9	16.8	20.0	17.7
13	27.4	25.9	23.9	22.8	20.6	18.9	23.0	21.9	18.8	16.6	20.9	18.2
14	27.6	26.2	23.8	23.1	20.5	18.6	22.9	22.3	19.5	16.9	22.1	19.7
15	27.4	26.4	23.4	22.0	20.2	16.6	22.6	21.8	21.2	17.7	24.0	20.8
16	27.0	25.1	22.3	21.1	18.6	16.9	22.4	20.2	21.7	18.6	24.7	22.1
17	26.1	23.6	21.9	21.0	18.3	17.2	21.5	18.6	22.7	19.5	23.8	22.4
18	25.8	24.1	21.9	21.1	20.1	17.8	20.2	17.8	22.6	20.2	23.6	21.4
19	26.7	25.2	22.9	20.9	20.2	18.3	19.1	17.5	22.6	20.1	23.7	20.7
20	26.9	25.7	23.5	21.3	19.8	17.1	18.7	16.8	22.5	19.9	23.4	20.4
21	27.8	25.6	23.3	21.8	18.9	16.8	18.6	16.8	23.0	20.7	22.6	21.1
22	27.7	26.0	23.9	21.9	18.5	17.2	19.4	17.4	23.0	21.1	23.9	21.6
23	27.1	25.8	24.0	22.1	19.1	17.7	19.8	17.2	23.5	21.5	25.5	23.3
24	27.0	25.2	23.9	22.4	19.9	18.7	18.9	16.1	23.5	21.9	25.5	24.1
25	26.6	24.8	23.9	22.7	20.6	19.3	18.0	16.2	23.3	22.2	25.6	24.1
26	26.3	24.6	23.3	22.2	20.7	18.5	17.9	16.1	23.3	21.9	26.2	24.7
27	25.9	24.5	22.9	22.0	19.6	17.8	18.8	16.6	23.1	22.3	27.0	25.4
28	25.5	24.3	23.3	22.0	18.7	17.3	19.0	17.4	23.4	22.2	26.5	25.2
29	25.4	24.1	23.1	22.0	18.3	16.9	19.0	17.3	---	---	26.0	24.1
30	25.4	24.2	22.9	22.0	19.2	17.5	19.4	18.0	---	---	25.7	23.1
31	25.8	24.3	---	---	20.0	18.3	20.2	18.1	---	---	26.8	23.8
MONTH	29.5	23.6	26.7	20.9	24.6	16.6	23.5	16.1	23.5	16.6	27.0	17.4
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	27.0	24.2	26.7	25.4	28.6	27.4	29.8	27.9	32.0	29.5	31.1	29.1
2	25.5	23.9	27.5	25.6	27.6	26.2	30.9	29.0	30.8	29.4	30.7	28.9
3	25.2	21.7	26.9	26.0	26.4	25.5	31.6	29.9	31.2	28.7	29.7	28.6
4	25.1	21.3	26.7	25.9	25.9	25.1	31.4	29.5	30.4	28.8	29.0	27.4
5	25.0	22.4	26.0	25.3	26.6	25.2	31.9	29.8	29.0	27.9	27.5	26.8
6	24.8	23.0	25.9	24.7	28.5	26.0	32.2	30.1	29.8	27.6	26.8	26.3
7	24.9	23.3	26.0	24.2	28.4	27.2	32.4	30.2	30.5	28.4	27.3	26.1
8	25.1	23.8	25.9	24.0	29.3	27.1	32.4	30.1	30.6	28.7	27.8	26.7
9	24.8	23.6	26.4	24.0	29.3	28.1	31.4	29.6	31.0	29.0	28.2	27.1
10	24.9	23.2	26.6	24.4	28.6	27.1	29.7	28.2	31.8	29.0	29.0	27.5
11	24.5	22.9	27.4	24.9	27.2	26.5	30.1	27.8	30.7	29.2	30.1	28.2
12	25.3	23.3	27.9	25.4	28.0	26.5	31.0	28.6	31.5	28.9	30.3	28.2
13	25.4	23.8	28.5	25.6	29.6	27.0	32.7	29.6	31.1	29.2	30.6	28.3
14	25.8	23.4	28.6	25.6	30.9	27.8	31.9	30.0	32.1	29.2	30.9	28.7
15	24.8	23.0	27.6	25.8	32.5	29.0	32.5	29.5	32.3	29.3	31.1	28.9
16	24.4	22.2	29.5	25.5	32.0	29.7	31.3	29.6	33.1	30.1	30.9	29.0
17	23.9	21.8	29.4	26.1	31.9	29.2	32.2	29.7	33.5	30.7	30.6	28.7
18	24.0	21.8	29.2	26.4	32.5	29.4	32.9	30.1	33.2	30.9	30.5	28.9
19	24.9	22.3	29.2	26.4	32.5	29.7	32.9	30.3	32.9	30.6	30.5	28.7
20	24.5	23.1	29.5	27.1	30.8	28.8	32.4	30.6	32.6	30.7	29.7	28.3
21	25.4	23.0	29.7	28.0	28.8	27.8	32.2	30.5	32.6	30.7	28.5	27.5
22	26.0	23.8	29.8	28.2	28.6	27.3	32.1	30.4	32.2	30.3	27.9	27.2
23	26.3	24.1	29.7	28.3	28.9	27.2	32.4	30.4	32.2	29.9	27.8	27.0
24	26.0	24.3	29.8	28.1	28.7	27.3	31.9	30.5	32.4	30.2	28.7	27.0
25	25.7	23.4	29.7	28.2	29.4	27.3	30.9	29.2	31.4	28.7	28.8	27.2
26	25.7	23.5	28.7	27.6	29.2	27.9	31.7	28.7	29.5	27.8	29.2	27.5
27	25.7	24.2	29.4	27.0	29.5	28.0	32.6	29.7	29.7	28.0	28.9	27.6
28	27.0	24.2	29.9	27.2	30.3	28.1	33.0	30.0	30.0	28.6	29.4	27.2
29	27.4	24.5	31.0	28.0	28.9	27.3	32.4	30.3	30.4	28.9	30.0	27.4
30	27.5	24.7	30.6	28.8	28.7	26.8	33.1	30.1	30.8	28.8	29.7	27.7
31	---	---	29.8	28.2	---	---	31.8	30.1	31.3	29.1	---	---
MONTH	27.5	21.3	31.0	24.0	32.5	25.1	33.1	27.8	33.5	27.6	31.1	26.1
YEAR	33.5	16.1										

265912080082900 LOXAHATCHEE RIVER AT BOY SCOUT CAMP NEAR HOBE SOUND, FL—Continued

BOTTOM
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.1	0.1	7.8	0.3	19.1	2.5	14.6	2.6	27.0	13.2	26.0	8.4
2	0.1	0.1	4.6	0.2	21.8	2.7	12.9	2.7	26.5	15.0	26.7	18.1
3	0.1	0.1	8.3	0.2	24.9	3.5	12.4	2.1	25.5	14.8	26.7	19.8
4	0.1	0.1	6.7	0.3	26.0	7.4	12.8	2.1	27.5	14.5	27.0	7.6
5	0.1	0.1	21.7	0.3	24.9	5.2	13.2	2.1	27.3	14.4	26.1	5.3
6	0.2	0.1	27.0	2.1	21.7	4.2	14.2	2.7	27.6	14.4	24.2	5.3
7	0.2	0.1	24.9	4.4	18.1	3.8	16.6	2.4	26.1	13.2	24.0	6.0
8	0.2	0.1	23.5	3.5	18.1	3.7	18.0	2.6	26.7	12.3	21.7	6.5
9	0.6	0.2	22.3	3.3	16.8	3.0	20.1	3.0	26.4	11.8	24.0	6.0
10	0.7	0.2	19.8	4.1	15.7	2.3	21.8	3.6	26.4	11.6	23.4	2.9
11	0.7	0.1	17.0	2.8	19.9	2.2	21.9	4.9	27.4	11.3	19.5	1.8
12	2.6	0.1	15.5	1.6	23.0	2.7	20.8	5.5	27.8	12.9	20.2	1.5
13	12.1	0.2	18.3	1.1	22.3	3.2	19.0	5.9	27.7	12.2	20.2	2.0
14	14.0	0.2	19.8	1.3	24.4	3.6	16.9	4.3	26.1	11.1	18.6	1.9
15	12.3	0.2	19.9	1.9	25.6	4.3	21.9	3.6	23.9	13.0	19.0	2.0
16	15.0	0.2	18.7	1.7	26.0	6.7	26.1	8.3	24.4	17.4	19.3	1.8
17	14.0	0.2	19.7	1.6	23.7	6.1	25.4	11.6	25.5	18.9	20.6	2.0
18	7.6	0.2	20.8	2.2	24.8	6.8	25.4	14.1	28.4	20.9	26.0	1.4
19	5.5	0.2	20.6	2.7	25.7	6.9	26.1	16.8	28.7	20.8	26.4	2.0
20	10.2	0.2	18.4	2.8	25.2	7.7	25.2	16.8	24.9	18.2	24.7	2.0
21	16.3	0.2	17.6	2.5	25.2	6.0	24.6	12.8	23.8	15.2	21.9	1.7
22	21.6	0.6	18.7	2.2	21.6	5.9	24.3	11.0	22.7	11.1	14.1	1.0
23	18.7	0.8	19.0	2.5	18.6	4.9	25.9	8.4	22.7	10.0	5.6	0.4
24	16.8	0.6	16.7	2.3	20.0	3.8	26.4	16.8	24.0	10.1	9.6	0.3
25	17.6	0.7	14.3	1.9	24.6	3.7	26.1	14.2	25.7	10.2	10.0	0.3
26	17.4	0.6	21.0	1.4	21.6	5.6	25.8	11.1	25.4	10.6	11.6	0.4
27	17.2	0.8	19.2	2.7	25.6	8.3	25.6	9.9	25.2	10.1	9.9	0.3
28	16.9	0.6	21.2	2.8	24.4	8.7	26.1	12.1	23.7	7.5	14.1	0.3
29	15.4	0.7	22.0	2.4	20.7	7.3	24.2	11.3	---	---	17.1	0.5
30	14.4	0.5	20.5	2.8	18.9	5.1	24.2	10.4	---	---	19.3	0.8
31	12.0	0.5	---	---	17.0	4.1	26.5	11.4	---	---	15.6	0.6
MONTH	21.6	0.1	27.0	0.2	26.0	2.2	26.5	2.1	28.7	7.5	27.0	0.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	0.4	17.9	4.0	18.7	3.6	0.1	0.1	8.7	0.2	12.3	0.2
2	10.6	0.6	22.1	5.6	17.4	1.7	0.1	0.1	15.7	0.2	12.8	0.2
3	21.3	0.9	23.2	5.7	11.2	0.3	0.2	0.1	14.8	0.2	11.5	0.1
4	20.0	1.1	21.2	6.0	2.4	0.2	0.2	0.1	6.2	0.2	5.8	0.1
5	20.4	1.5	18.4	3.2	1.9	0.2	0.2	0.1	1.4	0.1	0.1	0.1
6	14.8	1.5	22.7	1.8	2.4	0.2	0.6	0.1	2.8	0.1	0.1	0.1
7	10.0	0.8	21.2	1.5	0.8	0.2	0.6	0.1	5.7	0.2	0.1	0.1
8	14.3	0.5	17.8	0.9	1.5	0.2	0.6	0.2	6.8	0.2	4.5	0.1
9	18.8	0.5	15.6	0.8	1.8	0.2	0.5	0.2	6.6	0.2	16.4	0.1
10	19.5	0.9	16.8	1.1	0.6	0.2	0.2	0.1	7.4	0.2	15.9	0.1
11	19.9	1.3	15.9	1.3	0.3	0.2	0.2	0.1	5.3	0.2	15.1	0.1
12	16.9	1.2	15.9	1.6	0.2	0.2	0.2	0.1	5.0	0.2	18.9	0.1
13	12.9	0.9	17.2	1.7	0.2	0.2	0.2	0.1	5.1	0.2	17.8	0.2
14	24.8	1.6	17.5	1.5	0.2	0.2	0.7	0.1	8.9	0.2	16.0	0.2
15	29.2	15.1	14.8	1.6	0.4	0.2	0.4	0.2	8.2	0.2	13.5	0.2
16	29.2	23.6	17.8	2.0	6.2	0.2	0.6	0.2	7.8	0.2	13.5	0.3
17	28.7	23.3	16.8	1.8	8.7	0.2	2.6	0.2	10.0	0.2	13.6	0.2
18	28.0	19.2	20.1	1.8	7.9	0.2	2.5	0.2	11.0	0.2	13.6	0.3
19	24.8	13.5	19.9	2.4	12.0	0.2	3.5	0.2	13.3	0.2	12.8	0.3
20	20.8	7.2	18.5	3.0	11.8	0.2	8.3	0.2	13.9	0.3	13.8	0.5
21	21.9	5.7	20.5	4.0	15.0	0.2	11.3	0.2	14.2	0.4	7.9	0.4
22	21.8	5.2	23.3	4.7	14.0	0.2	15.2	0.2	14.6	0.5	2.3	0.2
23	22.8	4.9	21.4	5.0	14.0	0.2	15.5	0.3	12.6	0.4	0.4	0.1
24	24.9	4.9	24.4	4.4	11.2	0.2	17.0	0.4	13.0	0.4	0.4	0.1
25	24.8	5.4	24.5	4.8	10.3	0.2	17.2	0.2	19.5	0.8	1.7	0.2
26	23.3	5.1	24.9	5.4	2.6	0.2	14.5	0.2	11.9	0.3	2.0	0.2
27	21.0	4.0	23.8	4.5	2.7	0.2	9.9	0.2	2.8	0.2	13.4	0.2
28	24.1	4.2	21.4	4.0	1.7	0.2	8.0	0.2	0.7	0.2	8.9	0.2
29	23.5	4.3	21.9	4.5	0.2	0.2	7.4	0.2	1.4	0.2	11.0	0.2
30	20.1	3.8	21.6	5.2	0.2	0.1	8.2	0.2	4.3	0.2	10.9	0.2
31	---	---	21.3	4.7	---	---	5.3	0.2	11.5	0.2	---	---
MONTH	29.2	0.4	24.9	0.8	18.7	0.1	17.2	0.1	19.5	0.1	18.9	0.1
YEAR	29.2	0.1										

265912080082900 LOXAHATCHEE RIVER AT BOY SCOUT CAMP NEAR HOBE SOUND, FL—Continued

BOTTOM
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.8	27.7	25.9	24.8	23.7	22.1	20.5	19.1	20.2	18.7	23.0	21.4
2	29.1	28.4	26.0	25.1	23.5	22.2	20.9	19.4	20.7	19.3	22.3	21.6
3	28.9	27.9	26.3	25.1	23.8	22.1	21.2	19.6	21.1	20.0	21.7	20.9
4	29.1	28.1	26.6	24.9	23.8	22.5	21.5	19.9	21.0	19.4	20.9	19.5
5	29.2	28.2	26.3	25.0	23.5	21.9	22.2	20.5	20.7	18.4	20.5	19.1
6	29.0	27.7	26.5	24.4	23.3	21.5	22.7	21.3	19.2	18.1	20.8	19.5
7	27.7	26.0	26.1	23.8	23.5	22.3	23.2	21.8	19.6	18.4	21.8	20.1
8	27.0	25.4	25.8	23.4	24.1	22.4	23.6	22.0	19.9	18.9	21.5	20.4
9	27.3	25.5	25.3	23.2	24.8	23.1	23.6	22.0	20.7	19.1	21.1	19.0
10	27.8	26.0	24.7	23.1	24.5	23.5	23.5	21.9	20.8	19.6	19.9	18.5
11	27.4	26.7	23.8	22.7	24.0	22.3	23.1	21.7	20.8	18.5	19.5	17.7
12	27.1	26.4	23.6	22.8	22.5	20.6	23.1	21.8	18.9	17.1	20.2	18.0
13	27.5	26.1	24.2	23.0	20.9	19.6	23.0	22.0	18.8	16.8	21.0	18.6
14	27.7	26.3	24.0	23.2	20.6	18.9	22.9	22.3	19.4	17.1	21.9	19.8
15	27.5	26.5	23.6	22.1	20.4	17.1	22.7	21.9	19.9	18.1	23.0	20.9
16	27.2	25.2	22.3	21.2	18.7	17.1	22.5	21.5	20.9	19.5	24.4	22.2
17	26.3	23.7	22.0	21.1	18.4	17.3	22.2	19.4	21.8	20.6	24.0	22.7
18	25.8	24.1	22.0	21.1	19.8	17.8	20.7	18.2	22.8	21.4	23.8	21.8
19	26.4	25.3	22.9	21.0	20.6	18.6	19.5	18.2	23.0	21.9	23.6	21.0
20	26.9	25.8	23.6	21.4	20.1	17.7	19.1	17.9	22.4	21.4	23.2	20.7
21	27.6	25.7	23.7	21.8	19.6	17.3	18.6	17.4	22.4	21.5	23.3	21.3
22	27.8	26.0	24.3	22.1	18.6	17.6	19.5	18.2	22.8	21.8	23.9	21.8
23	27.2	25.9	24.3	22.3	19.2	17.9	20.4	18.6	23.7	22.0	25.3	23.4
24	27.1	25.3	24.1	22.6	20.2	18.8	20.2	17.4	23.6	22.2	25.3	24.2
25	26.7	25.0	24.1	22.8	21.1	19.5	18.4	17.0	23.5	22.5	25.6	24.2
26	26.5	24.8	23.7	22.5	20.8	19.8	18.2	16.6	23.3	22.1	26.2	24.7
27	26.1	24.7	23.2	22.2	20.5	18.5	19.2	16.8	23.2	22.5	27.0	25.4
28	25.8	24.5	23.5	22.2	19.2	17.9	19.2	17.9	23.5	22.3	26.5	25.0
29	25.6	24.2	23.4	22.1	18.5	17.4	19.2	17.6	---	---	25.5	24.2
30	25.6	24.4	23.2	22.2	19.2	17.7	19.6	18.2	---	---	25.1	23.2
31	25.7	24.4	---	---	20.0	18.5	20.1	18.6	---	---	25.8	23.7
MONTH	29.2	23.7	26.6	21.0	24.8	17.1	23.6	16.6	23.7	16.8	27.0	17.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.5	24.4	26.4	25.4	29.0	27.4	29.4	27.9	32.3	29.3	31.2	29.1
2	25.4	24.0	27.0	25.7	27.8	26.2	30.7	29.0	31.2	29.4	30.8	28.9
3	24.4	22.5	26.9	26.2	26.7	25.5	31.0	29.7	31.4	28.8	30.0	28.6
4	24.4	22.3	26.7	25.9	26.0	25.1	30.7	29.3	30.4	28.8	29.2	27.4
5	25.1	22.5	26.3	25.3	26.6	25.2	31.4	29.5	29.1	27.8	27.4	26.8
6	24.8	23.1	25.9	24.7	28.0	26.0	31.7	29.8	29.6	27.6	26.8	26.2
7	24.9	23.4	25.9	24.3	27.8	27.1	32.0	30.2	30.1	28.4	27.0	26.1
8	25.0	23.7	26.0	24.2	28.8	27.1	31.8	30.0	30.4	28.6	27.7	26.7
9	24.8	23.8	26.4	24.1	29.0	28.0	31.3	29.4	30.5	28.9	28.2	27.1
10	24.7	23.5	26.6	24.6	28.6	27.2	29.7	28.2	30.5	29.0	28.9	27.6
11	24.6	23.0	27.1	25.0	27.3	26.5	29.6	27.8	30.2	29.2	29.6	28.2
12	25.1	23.4	27.7	25.4	27.8	26.5	30.6	28.6	30.4	28.9	29.9	28.3
13	25.2	23.8	27.7	25.6	28.9	27.0	31.9	29.5	30.9	29.2	30.4	28.3
14	25.1	23.4	27.9	25.6	30.6	27.7	31.4	30.0	32.0	29.1	30.9	28.7
15	24.8	23.9	27.1	25.8	31.6	28.9	31.3	29.4	32.8	29.2	31.1	29.0
16	24.4	23.4	27.6	25.5	31.4	29.6	31.2	29.5	33.1	30.1	31.0	29.0
17	23.9	22.5	28.3	26.2	31.5	29.2	32.0	29.6	33.5	30.7	30.7	28.8
18	23.4	22.4	28.7	26.8	32.0	29.4	32.4	29.9	33.3	31.1	30.5	29.0
19	24.1	22.9	28.9	27.2	31.7	29.7	32.9	30.4	32.9	30.6	30.5	28.7
20	24.4	23.1	29.4	27.6	30.8	28.9	32.4	30.5	32.8	30.8	29.6	28.3
21	25.4	23.2	29.8	28.2	28.9	27.8	32.1	30.6	32.7	30.8	28.4	27.5
22	26.0	23.9	29.8	28.3	28.7	27.3	32.1	30.4	32.3	30.4	27.9	27.2
23	26.3	24.2	29.9	28.4	28.5	27.1	32.0	30.3	31.9	29.9	27.7	27.0
24	26.0	24.4	29.8	28.2	28.4	27.2	31.9	30.6	32.0	30.1	28.5	27.0
25	25.6	23.7	29.6	28.3	28.7	27.3	30.7	29.2	31.6	28.8	28.7	27.2
26	25.7	23.6	28.6	27.7	29.1	27.9	31.1	28.7	29.7	27.7	29.1	27.4
27	25.8	24.2	28.8	27.0	29.2	28.0	32.0	29.6	29.8	27.9	29.0	27.3
28	26.5	24.2	29.7	27.2	30.0	28.0	32.3	30.0	29.8	28.5	29.5	27.3
29	27.0	24.5	30.4	28.0	28.9	27.1	32.2	30.3	30.3	28.7	30.0	27.4
30	27.3	24.7	30.4	28.8	28.6	26.8	32.8	30.1	30.9	28.8	29.8	27.7
31	---	---	29.9	28.3	---	---	31.8	30.0	31.5	29.1	---	---
MONTH	27.3	22.3	30.4	24.1	32.0	25.1	32.9	27.8	33.5	27.6	31.2	26.1
YEAR	33.5	16.6										

265906080093500 LOXAHATCHEE RIVER AT MILE 9.1 NEAR JUPITER, FL

LOCATION.--Lat 26 59'06", long 80 09'37", in NE 1/4 NE 1/4, sec.20, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, on the Loxahatchee River, Jupiter, 4.1 mi west of State Road 811 Alternate (A1A), 1.65 mi east of U.S. Interstate 95.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 4.81 ft Sept. 26, 2004; minimum, -1.66 ft Dec. 12, 2004.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 3.51 ft Sept. 9; minimum, -1.66 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): October 2003 to current year.
SALINITY (BOTTOM): October 2003 to current year.
WATER TEMPERATURE (TOP): October 2003 to current year.
WATER TEMPERATURE (BOTTOM): October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity record (TOP) rated excellent for the entire wayer year. Salinity record (BOTTOM) rated excellent except for the following period: Mar. 16-23, rated good. Temperature (TOP and BOTTOM) record rated good for the entire water year.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 11.8 ppt Feb. 6, 2005; minimum recorded, 0.1 ppt multiple days during the months of Nov. 2003, Sept. 2004, Oct. 2004, June 2005, July 2005, Aug. 2005, and Sept. 2005.
SALINITY (BOTTOM): Maximum recorded, 17.9 ppt Apr. 17, 2005; minimum recorded, 0.1 ppt multiple days during the months of Nov. 2003, Sept. 2004, Oct. 2004, June 2005, July 2005, Aug. 2005, and Sept. 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 32.2 C June 28, 29, 2004; minimum recorded, 14.3 C Dec. 21, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.1 C June 28, 30, 2004; minimum recorded, 14.2 C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 11.8 ppt Feb. 6; minimum recorded, 0.1 ppt multiple days during the months of Oct., June, July, Aug., and Sept.
SALINITY (BOTTOM): Maximum recorded, 17.9 ppt Apr. 17; minimum recorded, 0.1 ppt multiple days during the months of Oct., June, July, Aug., and Sept.
WATER TEMPERATURE (TOP): Maximum recorded, 31.8 C July 23; minimum recorded, 14.9 C Jan. 26.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 31.8 C July 23; minimum recorded, 15.0 C Jan 26.

265906080093500 LOXAHATCHEE RIVER AT MILE 9.1 NEAR JUPITER, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.65	0.85	2.15	-0.30	1.82	-0.66	1.62	-0.70	2.27	0.03	1.71	-0.78
2	2.38	0.45	2.04	-0.36	1.82	-0.64	1.59	-0.57	2.38	-0.13	1.83	-0.77
3	2.28	0.24	1.89	-0.40	1.78	-0.56	1.41	-0.83	2.38	0.05	1.82	-0.67
4	2.27	0.30	1.94	-0.28	1.84	-0.32	1.38	-0.95	2.66	0.42	1.98	-0.84
5	2.08	0.25	1.89	-0.20	1.60	-0.62	1.62	-1.15	3.14	0.42	1.75	-1.18
6	1.96	0.24	2.28	0.27	1.47	-0.86	1.74	-1.11	3.30	0.36	1.64	-1.21
7	2.23	0.47	2.30	0.08	1.55	-0.95	1.81	-1.20	3.00	0.10	1.93	-1.02
8	2.48	0.53	2.08	-0.11	1.71	-1.03	1.94	-1.35	3.14	-0.05	1.94	-1.04
9	2.64	0.61	2.29	-0.32	1.68	-1.28	1.89	-1.51	2.84	-0.34	2.02	-1.18
10	2.63	0.41	2.77	0.14	1.74	-1.51	2.11	-1.47	2.51	-0.53	2.19	-0.90
11	2.48	0.18	2.92	0.04	1.84	-1.56	2.33	-1.27	2.40	-0.52	2.05	-0.92
12	2.68	0.09	2.96	-0.31	1.87	-1.66	2.25	-1.17	2.42	-0.21	1.78	-1.17
13	2.77	0.14	2.76	-0.62	1.78	-1.61	2.31	-0.90	2.43	-0.29	1.78	-1.09
14	2.87	-0.08	2.89	-0.75	1.92	-1.53	1.85	-1.05	2.27	-0.56	1.70	-1.25
15	3.10	-0.06	3.14	-0.02	1.98	-1.40	2.04	-0.81	1.90	-0.87	1.51	-1.09
16	2.79	-0.40	2.90	-0.16	2.26	-0.73	2.10	-0.02	1.60	-0.64	1.54	-0.80
17	2.63	-0.56	2.64	-0.35	2.04	-0.81	2.29	-0.05	1.76	-0.66	1.60	-0.46
18	2.44	-0.58	2.47	-0.27	2.05	-0.56	2.30	-0.09	1.66	-0.54	1.66	-0.25
19	2.21	-0.75	2.33	-0.28	1.98	-0.64	2.30	-0.26	1.82	-0.50	1.97	-0.19
20	2.08	-0.80	2.22	-0.36	1.80	-0.72	2.09	-0.26	1.62	-0.74	1.94	-0.27
21	2.33	-0.55	2.06	-0.44	1.93	-0.72	2.23	-0.37	1.54	-0.92	1.92	-0.33
22	2.82	0.01	2.24	-0.53	1.95	-0.80	1.98	-0.61	1.37	-1.14	2.03	-0.28
23	3.00	0.42	2.30	-0.44	1.98	-0.68	1.91	-0.78	1.46	-1.20	1.81	-0.56
24	3.12	0.56	2.50	-0.50	1.92	-1.04	2.17	-0.54	1.77	-0.93	1.75	-0.73
25	3.19	0.72	2.23	-0.63	2.19	-0.92	2.31	-0.31	1.85	-0.94	1.96	-0.67
26	3.16	0.52	2.12	-1.02	2.03	-0.58	2.37	-0.30	2.12	-0.52	2.15	-0.56
27	3.21	0.41	2.41	-0.56	2.16	-0.57	2.13	-0.53	2.15	-0.25	2.26	-0.52
28	3.05	0.20	2.10	-0.64	2.33	-0.29	2.43	-0.29	2.18	-0.72	2.16	-0.76
29	2.97	0.08	2.06	-0.74	2.08	-0.39	2.34	-0.05	---	---	2.16	-0.78
30	2.78	-0.05	2.13	-0.60	2.09	-0.54	2.30	0.04	---	---	2.15	-0.90
31	2.53	-0.14	---	---	1.93	-0.46	2.25	-0.06	---	---	1.95	-0.98
MONTH	3.21	-0.80	3.14	-1.02	2.33	-1.66	2.43	-1.51	3.30	-1.20	2.26	-1.25
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.71	-0.93	1.78	-0.96	2.12	-0.61	2.18	0.18	1.80	-0.83	2.07	-0.38
2	1.82	-1.08	1.84	-0.92	2.14	-0.65	2.12	-0.15	1.92	-0.72	2.24	-0.28
3	1.61	-0.70	2.10	-0.65	2.07	-0.50	1.78	-0.50	2.12	-0.51	2.72	0.20
4	1.90	-0.87	2.08	-0.57	2.16	-0.50	1.71	-0.58	2.04	-0.46	2.78	0.70
5	2.00	-0.83	2.11	-0.69	2.08	-0.73	1.91	-0.66	2.15	-0.14	2.65	0.87
6	2.13	-0.69	2.38	-0.64	2.17	-0.72	1.94	-0.61	2.08	-0.28	2.90	1.15
7	2.15	-0.71	2.62	-0.41	2.06	-0.46	1.90	-0.65	2.11	-0.16	3.03	1.26
8	2.27	-0.80	2.39	-0.52	2.18	-0.42	1.94	-0.54	2.18	-0.12	3.26	1.12
9	2.27	-0.86	2.34	-0.85	2.20	-0.38	1.98	-0.45	2.17	-0.20	3.51	1.20
10	2.27	-0.77	2.15	-0.82	2.08	-0.34	1.80	-0.44	2.06	-0.24	3.32	1.02
11	2.35	-0.57	1.95	-0.88	2.04	-0.21	1.54	-0.37	1.92	-0.36	3.18	0.77
12	2.36	-0.50	1.86	-0.77	1.88	-0.24	1.58	-0.32	1.90	-0.42	3.09	0.63
13	2.17	-0.69	1.83	-0.52	1.66	-0.22	1.62	-0.42	1.95	-0.55	3.00	0.31
14	1.96	-0.32	1.86	-0.44	1.76	-0.27	1.69	-0.58	2.11	-0.60	3.31	0.23
15	2.06	0.16	1.82	-0.30	1.68	-0.46	---	---	2.03	-0.80	3.41	0.24
16	2.27	0.60	1.82	-0.17	1.78	-0.61	1.72	-0.78	2.16	-0.82	3.19	0.16
17	2.44	0.68	1.72	-0.37	2.07	-0.53	1.87	-0.92	2.28	-0.94	2.98	-0.13
18	2.28	0.28	1.65	-0.48	2.11	-0.58	1.96	-1.00	2.30	-0.90	2.94	-0.02
19	2.06	0.14	1.90	-0.53	2.30	-0.89	1.96	-1.12	2.38	-0.90	3.00	0.01
20	2.00	-0.17	2.24	-0.50	2.35	-0.88	2.20	-1.10	2.35	-0.82	3.39	0.40
21	2.00	-0.42	2.34	-0.66	2.64	-0.76	2.34	-1.01	2.35	-0.64	2.78	-0.17
22	2.18	-0.56	2.63	-0.64	2.68	-0.70	2.31	-0.95	2.38	-0.56	2.63	-0.08
23	2.15	-0.74	2.71	-0.54	2.66	-0.76	2.34	-1.08	2.30	-0.64	2.45	0.09
24	2.26	-0.86	2.64	-0.81	2.70	-0.52	2.16	-0.74	2.22	-0.60	2.42	-0.01
25	2.20	-0.86	2.64	-0.78	2.74	-0.33	2.30	-0.48	2.85	-0.20	2.43	0.23
26	2.23	-0.92	2.68	-0.52	2.52	-0.30	2.28	-0.50	2.34	-0.16	2.41	0.28
27	2.08	-1.28	2.69	-0.66	2.48	-0.35	1.99	-0.73	2.50	-0.12	2.51	0.35
28	1.88	-1.05	2.42	-0.72	2.06	-0.37	1.70	-0.95	2.08	-0.17	2.59	0.32
29	2.03	-0.90	2.26	-0.57	1.92	-0.54	1.60	-0.98	2.06	-0.29	2.57	0.29
30	1.98	-1.01	2.26	-0.42	2.17	0.15	1.59	-0.92	2.04	-0.29	2.70	0.34
31	---	---	2.18	-0.48	---	---	1.57	-0.93	2.06	-0.38	---	---
MONTH	2.44	-1.28	2.71	-0.96	2.74	-0.89	2.34	-1.12	2.85	-0.94	3.51	-0.38
YEAR	3.51	-1.66										

265906080093500 LOXAHATCHEE RIVER AT MILE 9.1 NEAR JUPITER, FL—Continued

TOP
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	3.8	0.4	0.5	0.3
2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	4.9	0.4	0.9	0.3
3	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	6.0	0.4	1.4	0.3
4	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	8.9	0.4	1.2	0.3
5	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	11.5	0.4	0.4	0.3
6	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.3	11.8	0.5	0.4	0.3
7	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.3	9.2	0.5	0.8	0.3
8	0.2	0.1	0.2	0.2	0.3	0.3	0.5	0.3	9.3	0.4	1.0	0.3
9	0.2	0.1	0.2	0.2	0.3	0.3	0.5	0.3	7.9	0.5	1.1	0.3
10	0.2	0.1	0.3	0.2	0.3	0.3	0.8	0.3	6.6	0.4	0.3	0.3
11	0.2	0.1	0.3	0.2	0.3	0.3	1.9	0.3	6.0	0.4	0.3	0.3
12	0.2	0.1	0.3	0.2	0.3	0.3	1.5	0.3	6.7	0.4	0.3	0.3
13	0.2	0.1	0.3	0.2	0.3	0.3	1.6	0.3	7.0	0.4	0.3	0.3
14	0.2	0.1	0.3	0.2	0.4	0.3	0.4	0.3	5.6	0.3	0.3	0.3
15	0.2	0.2	0.4	0.2	0.5	0.3	0.3	0.3	2.7	0.3	0.3	0.3
16	0.2	0.1	0.3	0.2	1.4	0.3	0.3	0.3	1.1	0.3	0.3	0.3
17	0.2	0.2	0.3	0.2	0.7	0.3	0.5	0.3	1.5	0.3	0.3	0.3
18	0.2	0.2	0.3	0.2	0.6	0.3	1.9	0.3	1.8	0.3	0.3	0.2
19	0.2	0.2	0.3	0.2	0.4	0.3	3.7	0.3	11.0	0.3	0.3	0.2
20	0.2	0.2	0.3	0.2	0.3	0.3	2.7	0.3	3.0	0.5	0.3	0.2
21	0.2	0.2	0.3	0.2	0.6	0.3	4.6	0.3	2.4	0.4	0.3	0.3
22	0.2	0.2	0.3	0.2	0.5	0.3	2.5	0.3	2.0	0.4	0.3	0.2
23	0.2	0.2	0.3	0.2	0.4	0.3	2.1	0.3	2.5	0.3	0.2	0.2
24	0.2	0.2	0.3	0.2	0.3	0.3	4.8	0.3	3.8	0.4	0.3	0.2
25	0.2	0.2	0.3	0.2	0.5	0.3	6.8	0.3	3.4	0.3	0.3	0.2
26	0.2	0.2	0.3	0.2	0.3	0.3	6.6	0.3	3.0	0.3	0.3	0.2
27	0.2	0.2	0.3	0.2	0.4	0.3	3.9	0.3	3.2	0.3	0.3	0.2
28	0.2	0.2	0.3	0.2	0.9	0.3	6.7	0.3	3.1	0.3	0.3	0.2
29	0.2	0.2	0.3	0.2	0.4	0.3	4.2	0.3	---	---	0.3	0.2
30	0.2	0.2	0.3	0.2	0.5	0.3	3.7	0.3	---	---	0.2	0.2
31	0.2	0.2	---	---	0.3	0.3	3.4	0.4	---	---	0.3	0.2
MONTH	0.2	0.1	0.4	0.2	1.4	0.3	6.8	0.3	11.8	0.3	1.4	0.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	0.3	0.2	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1
2	0.3	0.2	0.4	0.3	0.4	0.2	0.1	0.1	0.2	0.2	0.2	0.2
3	0.3	0.2	0.8	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1
4	0.3	0.2	0.5	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1
5	0.3	0.3	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
6	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
7	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
8	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
9	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
10	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1
11	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
12	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
13	0.3	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
14	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1
15	0.3	0.3	0.3	0.3	0.2	0.2	---	---	0.2	0.2	0.1	0.1
16	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
17	9.9	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1
18	3.3	0.3	0.3	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1
19	0.8	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
20	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
21	0.5	0.3	0.8	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
22	0.6	0.3	1.7	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
23	0.7	0.3	2.0	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
24	1.0	0.3	1.6	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
25	0.9	0.3	1.8	0.3	0.2	0.1	0.2	0.1	0.3	0.2	0.2	0.1
26	0.9	0.3	2.0	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1
27	0.6	0.3	1.8	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
28	0.4	0.3	0.8	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
29	0.4	0.3	0.6	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
30	0.4	0.3	0.5	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
31	---	---	0.4	0.3	---	---	0.2	0.2	0.2	0.1	---	---
MONTH	9.9	0.2	2.0	0.2	0.4	0.1	0.2	0.1	0.3	0.1	0.2	0.1
YEAR	11.8	0.1										

265906080093500 LOXAHATCHEE RIVER AT MILE 9.1 NEAR JUPITER, FL—Continued

TOP
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.6	27.8	26.0	25.1	23.1	22.3	20.4	19.6	19.1	18.3	22.5	21.5
2	29.6	28.1	25.8	25.0	23.0	22.1	20.6	19.8	19.9	18.5	21.6	20.0
3	29.3	27.5	25.7	24.5	22.6	21.4	21.1	20.0	20.2	19.3	20.0	18.2
4	29.4	27.7	25.8	24.8	21.4	20.4	21.6	20.3	20.0	18.7	18.4	17.6
5	29.4	27.8	25.7	24.7	21.6	20.4	21.7	20.6	18.8	17.3	19.9	17.9
6	29.3	27.6	24.9	23.6	22.1	21.1	21.8	20.8	18.6	17.3	20.4	18.8
7	27.6	26.0	23.6	22.5	22.8	21.7	22.3	21.2	19.5	18.2	21.1	19.4
8	27.0	24.9	23.3	22.3	23.2	22.3	22.2	21.4	19.8	18.8	21.1	20.1
9	27.3	25.8	23.2	22.2	23.8	22.8	21.7	21.1	20.2	18.8	20.5	17.8
10	27.9	26.3	23.1	22.3	23.8	23.3	21.6	20.8	20.7	19.3	18.6	17.1
11	27.8	26.8	23.5	22.3	23.8	22.0	21.8	20.6	20.0	18.1	19.2	17.0
12	26.8	26.1	23.6	22.8	22.0	19.0	22.1	21.1	18.4	15.6	20.3	18.4
13	27.6	26.1	23.7	22.9	19.0	18.0	22.5	21.6	17.4	15.2	20.8	18.9
14	27.9	26.4	23.6	22.6	19.3	18.3	22.7	22.3	18.1	16.2	22.1	20.2
15	27.9	26.6	22.7	21.5	18.7	16.6	22.4	21.6	19.7	17.3	23.1	21.7
16	27.1	24.3	22.1	21.1	17.3	16.5	21.6	19.9	20.2	18.6	24.4	22.9
17	25.6	23.4	21.8	21.0	18.6	16.9	19.9	17.5	21.4	19.1	24.1	22.2
18	26.4	24.7	21.4	20.9	19.6	18.1	17.8	16.6	21.9	20.0	22.2	21.1
19	26.9	25.5	21.9	20.9	19.6	18.7	17.5	16.6	21.1	19.6	21.5	19.9
20	26.9	25.8	22.1	20.9	18.7	16.3	17.3	16.4	21.0	19.3	21.8	20.2
21	27.0	25.4	22.3	21.3	16.7	15.5	18.1	16.4	21.3	19.4	22.3	21.2
22	26.9	25.6	22.6	21.7	18.3	16.2	18.6	17.0	21.6	20.0	24.0	22.3
23	26.1	25.0	22.8	21.8	19.8	17.9	19.7	18.2	22.5	20.6	25.1	23.9
24	25.6	24.6	23.3	22.1	20.5	19.4	18.5	16.2	22.6	21.2	24.7	23.9
25	25.5	24.5	23.8	23.0	20.6	19.9	16.8	15.2	22.2	21.6	25.6	24.3
26	25.4	24.6	23.6	21.3	20.3	18.9	16.6	14.9	22.1	21.4	26.2	25.2
27	25.3	24.4	22.4	21.3	18.9	16.9	18.1	16.1	22.3	21.8	27.1	25.7
28	25.2	24.2	23.2	22.4	17.3	16.8	18.2	17.5	22.9	22.0	26.8	25.1
29	25.3	24.1	23.0	21.8	18.2	17.1	18.8	17.6	---	---	25.1	23.2
30	25.2	24.2	22.5	21.8	19.3	18.0	19.3	18.3	---	---	24.7	22.9
31	25.6	24.3	---	---	19.9	19.0	19.6	18.5	---	---	25.8	24.2
MONTH	29.6	23.4	26.0	20.9	23.8	15.5	22.7	14.9	22.9	15.2	27.1	17.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.3	24.9	26.3	25.4	27.7	26.6	29.7	27.9	30.1	28.7	30.0	29.0
2	26.0	23.8	26.8	25.7	26.6	25.4	30.9	29.0	29.6	29.0	29.9	29.0
3	23.8	21.9	26.3	25.7	25.8	25.3	30.9	29.8	30.0	28.6	29.9	28.3
4	23.2	21.4	26.0	25.2	25.5	24.9	31.2	29.2	29.6	28.1	28.9	27.3
5	24.2	22.3	25.2	24.4	27.0	25.4	31.6	29.7	28.8	27.4	27.3	26.7
6	24.7	23.2	25.1	24.1	28.2	26.5	31.6	30.1	29.7	27.7	26.8	26.3
7	25.2	23.7	24.8	23.8	28.3	27.2	31.7	30.4	30.0	28.4	27.7	26.2
8	24.9	24.0	25.2	23.5	29.1	27.4	31.6	30.6	30.2	28.6	28.1	27.2
9	24.5	23.4	25.9	23.6	29.3	28.4	31.1	29.3	30.2	29.0	28.7	27.3
10	24.1	23.0	26.6	24.4	28.6	27.1	29.3	27.8	30.2	29.0	29.4	27.8
11	24.7	23.2	26.9	24.8	27.1	26.4	29.4	27.6	30.2	29.2	29.4	28.4
12	25.1	23.5	26.8	24.9	27.7	26.7	30.9	28.6	29.9	28.6	29.4	27.9
13	25.5	24.2	27.1	25.2	29.3	27.0	31.3	29.6	30.0	29.1	29.6	28.3
14	25.0	23.4	27.4	25.2	30.6	28.2	31.3	30.0	30.3	29.1	29.6	28.5
15	24.4	23.1	26.7	25.8	30.8	29.1	---	---	30.5	29.0	29.6	28.8
16	23.2	22.1	27.3	25.1	30.9	29.6	30.8	29.7	31.4	30.0	29.6	28.8
17	23.2	21.5	28.2	26.1	30.8	29.2	30.8	29.7	31.5	30.3	29.7	29.0
18	22.6	21.2	28.1	26.6	30.9	29.6	30.9	29.9	31.3	30.1	29.7	28.9
19	23.3	21.8	27.9	26.6	30.7	29.6	31.4	30.0	31.5	30.3	29.6	29.0
20	23.4	22.5	28.0	26.4	30.3	28.1	31.4	30.3	31.6	30.4	29.0	28.0
21	24.2	22.4	28.0	26.7	28.1	27.2	31.3	30.4	31.2	30.3	28.0	27.5
22	24.6	23.1	28.1	26.6	28.0	27.7	31.4	30.3	30.9	29.9	28.1	27.3
23	25.4	23.6	28.3	26.8	28.5	27.3	31.8	30.4	31.0	29.8	27.7	27.1
24	25.2	24.0	28.8	26.7	28.2	27.1	31.4	29.5	31.2	30.2	28.5	27.0
25	24.5	22.7	28.9	27.7	29.3	27.3	29.7	28.4	30.4	28.4	28.5	27.4
26	24.8	22.4	28.0	26.8	29.4	28.2	30.6	29.2	28.6	27.6	28.4	27.5
27	25.5	24.1	27.6	26.1	28.8	27.8	30.9	29.7	29.0	28.0	28.2	27.3
28	25.9	24.3	29.0	26.9	29.4	27.8	31.4	30.0	29.2	28.7	28.1	27.1
29	25.9	24.0	29.7	28.0	29.4	27.1	31.0	29.7	29.4	28.2	28.2	27.1
30	26.3	24.7	29.7	28.5	28.7	26.8	31.2	29.5	30.2	28.9	28.2	27.6
31	---	---	29.1	27.7	---	---	30.2	29.4	30.1	28.9	---	---
MONTH	26.3	21.2	29.7	23.5	30.9	24.9	31.8	27.6	31.6	27.4	30.0	26.2
YEAR	31.8	14.9										

265906080093500 LOXAHATCHEE RIVER AT MILE 9.1 NEAR JUPITER, FL—Continued

BOTTOM
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	4.6	0.3	0.5	0.3
2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	6.5	0.4	1.1	0.3
3	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.3	7.8	0.4	1.7	0.3
4	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	9.9	0.4	2.1	0.3
5	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	12.1	0.4	0.4	0.3
6	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	12.2	0.5	0.4	0.3
7	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.3	9.3	0.5	0.9	0.3
8	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.3	9.4	0.4	1.1	0.3
9	0.2	0.1	0.2	0.2	0.3	0.3	0.5	0.3	8.2	0.5	1.0	0.3
10	0.2	0.1	0.3	0.2	0.3	0.3	0.8	0.3	7.0	0.4	0.3	0.3
11	0.2	0.1	0.4	0.2	0.3	0.3	2.0	0.3	6.5	0.4	0.3	0.3
12	0.2	0.1	0.3	0.2	0.3	0.3	1.6	0.3	7.2	0.4	0.3	0.3
13	0.2	0.1	0.3	0.2	0.3	0.3	1.7	0.3	7.7	0.4	0.3	0.3
14	0.2	0.1	0.3	0.2	0.4	0.3	0.4	0.3	6.3	0.3	0.3	0.3
15	0.2	0.1	0.4	0.2	0.5	0.3	0.3	0.3	---	---	0.3	0.3
16	0.2	0.1	0.3	0.2	1.7	0.3	0.3	0.3	---	---	0.4	0.3
17	0.2	0.2	0.3	0.2	0.7	0.3	0.5	0.3	---	---	0.3	0.3
18	0.2	0.2	0.3	0.2	0.6	0.3	3.0	0.3	---	---	0.3	0.2
19	0.2	0.2	0.3	0.2	0.4	0.3	7.1	0.3	---	---	0.3	0.2
20	0.2	0.2	0.3	0.2	0.3	0.3	4.3	0.3	---	---	0.3	0.2
21	0.2	0.2	0.3	0.2	0.6	0.3	7.3	0.3	---	---	0.4	0.3
22	0.2	0.2	0.3	0.2	0.5	0.3	4.0	0.3	4.8	0.4	0.4	0.2
23	0.2	0.2	0.3	0.2	0.4	0.3	3.1	0.3	5.2	0.3	0.2	0.2
24	0.2	0.2	0.3	0.2	0.3	0.3	7.6	0.3	6.7	0.4	0.3	0.2
25	0.2	0.2	0.3	0.2	0.5	0.3	8.6	0.3	5.0	0.3	0.3	0.2
26	0.2	0.2	0.3	0.2	0.3	0.3	7.9	0.3	4.3	0.3	0.3	0.2
27	0.2	0.2	0.3	0.2	0.4	0.3	5.5	0.3	4.2	0.3	0.3	0.2
28	0.2	0.2	0.3	0.2	1.0	0.3	7.6	0.3	3.5	0.3	0.3	0.2
29	0.2	0.2	0.3	0.2	0.4	0.3	4.7	0.3	---	---	0.3	0.2
30	0.2	0.2	0.3	0.3	0.5	0.3	4.9	0.3	---	---	0.3	0.2
31	0.2	0.2	---	---	0.3	0.3	4.2	0.4	---	---	0.3	0.2
MONTH	0.2	0.1	0.4	0.2	1.7	0.3	8.6	0.3	12.2	0.3	2.1	0.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	0.3	0.2	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1
2	0.3	0.2	0.4	0.3	0.6	0.2	0.1	0.1	0.2	0.2	0.2	0.1
3	0.3	0.2	0.8	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1
4	0.3	0.2	0.5	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1
5	0.4	0.3	0.6	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
6	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
7	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1
8	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
9	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.3	0.1	0.2	0.1
10	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1
11	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1
12	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1
13	0.3	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
14	0.3	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1
15	0.3	0.3	0.3	0.3	0.2	0.2	---	---	0.2	0.2	0.1	0.1
16	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1
17	17.9	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1
18	17.7	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
19	1.9	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
20	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
21	0.5	0.3	0.8	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
22	0.6	0.3	1.7	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
23	0.6	0.3	2.0	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1
24	0.9	0.3	1.7	0.3	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.1
25	0.9	0.3	1.8	0.3	0.2	0.1	0.2	0.1	0.3	0.2	0.2	0.1
26	0.8	0.3	2.0	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1
27	0.6	0.3	1.9	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
28	0.4	0.3	0.8	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
29	0.4	0.3	0.6	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
30	0.4	0.3	0.5	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
31	---	---	0.4	0.3	---	---	0.2	0.2	0.2	0.1	---	---
MONTH	17.9	0.2	2.0	0.2	0.6	0.1	0.2	0.1	0.3	0.1	0.2	0.1
YEAR	17.9	0.1										

265906080093500 LOXAHATCHEE RIVER AT MILE 9.1 NEAR JUPITER, FL—Continued

BOTTOM
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.6	27.7	26.0	25.1	23.1	22.3	20.4	19.5	19.1	18.2	22.5	21.5
2	29.5	28.0	25.8	25.0	23.0	22.1	20.6	19.8	19.9	18.5	21.6	19.9
3	29.2	27.4	25.7	24.5	22.6	21.4	21.0	20.0	20.2	19.3	20.1	18.2
4	29.3	27.6	25.8	24.8	21.4	20.4	21.5	20.3	20.0	18.7	18.7	17.6
5	29.3	27.7	25.6	24.7	21.6	20.4	21.6	20.6	18.8	17.3	19.7	17.8
6	29.3	27.6	24.9	23.6	22.1	21.0	21.7	20.8	18.6	17.3	20.3	18.8
7	27.6	26.0	23.6	22.5	22.8	21.7	22.2	21.2	19.4	18.2	20.8	19.4
8	27.0	24.9	23.3	22.3	23.2	22.3	22.1	21.4	19.8	18.8	21.1	20.1
9	27.3	25.8	23.2	22.2	23.8	22.8	21.7	21.1	20.2	18.8	20.5	17.8
10	27.9	26.3	23.1	22.3	23.8	23.3	21.6	20.8	20.7	19.3	18.6	17.1
11	27.8	26.8	23.5	22.3	23.8	22.0	21.8	20.6	20.0	18.1	19.2	17.0
12	26.8	26.1	23.6	22.8	22.0	19.0	22.1	21.1	18.5	15.6	20.3	18.4
13	27.6	26.0	23.7	22.9	19.0	18.1	22.5	21.7	17.5	15.2	20.9	18.9
14	27.9	26.3	23.6	22.7	19.3	18.3	22.8	22.3	18.1	16.2	22.1	20.2
15	27.9	26.6	22.7	21.5	18.7	16.6	22.4	21.6	---	---	23.1	21.7
16	27.1	24.3	22.1	21.1	17.3	16.5	21.6	19.9	---	---	24.4	22.9
17	25.6	23.4	21.8	21.0	18.6	16.9	19.9	17.5	---	---	24.1	22.2
18	26.4	24.7	21.4	20.9	19.6	18.1	18.2	16.5	---	---	22.2	21.1
19	26.9	25.5	21.9	20.9	19.6	18.6	18.3	16.6	---	---	21.4	19.8
20	26.9	25.8	22.1	20.9	18.6	16.3	17.4	16.4	---	---	21.8	20.2
21	27.0	25.4	22.3	21.3	16.7	15.5	17.7	16.5	---	---	22.3	21.1
22	26.9	25.6	22.6	21.7	18.3	16.2	18.5	17.1	21.5	20.0	24.0	22.1
23	26.1	25.0	22.8	21.8	19.8	17.9	19.7	18.2	22.4	20.7	25.1	23.8
24	25.6	24.6	23.3	22.1	20.5	19.4	18.5	16.2	22.5	21.2	24.7	23.9
25	25.5	24.5	23.8	23.0	20.6	19.9	17.2	15.2	22.2	21.6	25.6	24.1
26	25.4	24.6	23.6	21.3	20.3	18.9	16.6	15.0	22.1	21.4	26.2	25.1
27	25.3	24.4	22.4	21.3	18.9	16.9	18.1	16.1	22.3	21.8	27.1	25.5
28	25.2	24.2	23.2	22.4	17.3	16.8	18.2	17.4	22.9	22.0	26.8	25.1
29	25.3	24.1	23.0	21.8	18.2	17.1	18.8	17.6	---	---	25.1	23.2
30	25.2	24.2	22.5	21.8	19.3	18.0	19.3	18.3	---	---	24.7	22.9
31	25.6	24.3	---	---	19.9	18.8	19.6	18.5	---	---	25.8	24.2
MONTH	29.6	23.4	26.0	20.9	23.8	15.5	22.8	15.0	22.9	15.2	27.1	17.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.3	24.9	26.3	25.4	27.7	26.6	29.7	27.9	30.1	28.7	30.0	28.9
2	26.0	23.8	26.6	25.7	26.6	25.4	30.9	29.0	29.6	29.0	29.9	29.0
3	23.8	21.8	26.3	25.6	25.8	25.3	30.9	29.8	30.0	28.6	29.9	28.2
4	23.2	21.4	26.0	25.2	25.5	24.9	31.2	29.2	29.6	28.1	28.9	27.3
5	24.0	22.2	25.2	24.4	27.0	25.4	31.6	29.7	28.8	27.4	27.3	26.7
6	24.6	23.2	25.1	24.1	28.2	26.5	31.6	30.1	29.7	27.7	26.8	26.3
7	25.1	23.7	24.7	23.7	28.3	27.2	31.7	30.4	30.0	28.4	27.7	26.2
8	24.9	24.0	25.2	23.5	29.1	27.4	31.7	30.6	30.2	28.6	28.1	27.2
9	24.4	23.3	25.9	23.5	29.3	28.4	31.1	29.3	30.2	29.0	28.7	27.2
10	24.1	22.9	26.6	24.3	28.6	27.0	29.3	27.8	30.2	29.0	29.4	27.8
11	24.7	23.1	26.8	24.8	27.1	26.4	29.4	27.6	30.2	29.2	29.4	28.4
12	25.1	23.4	26.7	24.9	27.7	26.7	30.9	28.6	29.9	28.6	29.4	27.9
13	25.5	24.2	27.1	25.2	29.3	27.0	31.3	29.6	30.0	29.1	29.6	28.3
14	25.0	23.4	27.4	25.2	30.6	28.2	31.3	30.0	30.3	29.1	29.6	28.5
15	24.4	23.1	26.7	25.8	30.8	29.1	---	---	30.5	29.0	29.5	28.8
16	23.2	22.1	27.3	25.1	30.9	29.6	30.8	29.7	31.2	29.9	29.6	28.8
17	23.8	21.4	28.2	26.1	30.8	29.2	30.8	29.7	31.5	30.3	29.7	28.9
18	23.3	21.3	28.0	26.6	30.9	29.6	30.9	29.9	31.4	30.1	29.6	28.9
19	23.2	21.8	27.7	26.6	30.7	29.6	31.4	30.0	31.5	30.2	29.5	28.9
20	23.4	22.5	27.9	26.4	30.3	28.1	31.4	30.3	31.5	30.3	29.0	27.9
21	24.0	22.4	28.0	26.7	28.1	27.2	31.3	30.4	31.2	30.3	28.0	27.5
22	24.4	23.1	28.1	26.6	28.0	27.6	31.4	30.2	30.8	29.9	28.1	27.3
23	25.4	23.6	28.3	26.8	28.5	27.3	31.8	30.4	31.0	29.8	27.7	27.1
24	25.2	24.0	28.8	26.7	28.2	27.1	31.4	29.5	31.2	30.2	28.4	27.0
25	24.5	22.6	28.9	27.7	29.3	27.3	29.7	28.4	30.4	28.4	28.5	27.4
26	24.8	22.4	28.0	26.7	29.4	28.2	30.6	29.1	28.6	27.6	28.4	27.5
27	25.5	24.1	27.6	26.0	28.8	27.8	30.9	29.7	29.0	28.0	28.2	27.3
28	25.9	24.2	29.0	26.9	29.4	27.8	31.4	30.0	29.1	28.7	28.0	27.1
29	25.9	23.9	29.7	28.0	29.4	27.1	30.9	29.7	29.4	28.1	28.2	27.1
30	26.3	24.6	29.7	28.5	28.7	26.8	31.0	29.5	30.2	28.9	28.2	27.5
31	---	---	29.1	27.7	---	---	30.2	29.4	30.1	28.9	---	---
MONTH	26.3	21.3	29.7	23.5	30.9	24.9	31.8	27.6	31.5	27.4	30.0	26.2
YEAR	31.8	15.0										

265818080111900 CYPRESS CREEK CANAL BELOW GULFSTREAM BRIDGE, FL

LOCATION.--Lat 26 58'18", long 80 11'19", in SW 1/4 SW 1/4 SW 1/4, sec.19, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, north bank of Cypress Creek Canal below Gulfstream Citrus Bridge, 0.5 mi west of U.S. Interstate 95, 7 mi northwest of Jupiter.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum (NGVD) of 1929 converted through VERTCON using the NAVD 88 survey levels provided by the South Florida Water Management District (SFWMD).

REMARKS.--Records poor. Flow regulated by stop-log structure located 0.25 mi downstream. The cross-section at this site is variable due to the buildup of debris in front of the bridge piling. Discharge computed from relationships between stage vs. area and index velocity vs. mean channel velocity. Below a stage of 4.95 ft, discharge is computed by a stage-discharge relationship.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 2 complete water years of discharge (2004-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.26 ft Sept. 26, 2004; minimum, 4.65 ft Jan. 5, 2005.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.42 ft Oct. 1; minimum, 4.65 ft Jan. 5.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.03	5.87	5.05	4.73	6.40	6.98	7.31	7.06	7.32	10.79	7.92	---
2	11.30	5.75	4.95	4.72	6.35	6.97	7.32	7.05	7.85	10.28	7.97	---
3	10.68	5.75	4.85	4.71	6.30	6.96	7.42	7.07	8.50	9.65	8.10	---
4	10.11	5.67	4.87	4.69	6.34	7.13	7.33	7.12	8.85	9.39	9.03	9.34
5	9.68	5.61	4.86	4.67	6.35	7.06	7.28	7.72	8.76	8.96	9.99	10.21
6	9.22	5.60	4.83	4.67	6.34	7.04	7.24	7.76	8.72	8.63	9.25	11.40
7	8.89	5.56	e4.81	4.68	6.33	7.01	7.21	7.56	9.10	8.40	8.74	11.03
8	8.67	5.54	4.81	4.67	6.45	7.00	7.44	7.47	9.02	8.24	8.59	10.47
9	8.41	5.51	4.83	4.69	6.82	7.11	7.43	7.41	8.64	8.13	8.40	9.89
10	8.20	5.44	4.80	5.59	6.87	7.47	7.35	7.35	8.41	9.09	8.38	9.41
11	7.99	5.37	4.80	6.34	6.89	7.30	7.30	7.29	9.06	9.36	8.40	9.03
12	7.87	5.24	e4.83	e6.34	6.91	7.26	7.26	7.27	9.64	9.52	8.60	8.69
13	7.71	5.19	4.85	6.35	6.91	7.22	7.24	7.25	e9.09	9.07	8.37	8.44
14	7.55	5.37	4.84	6.46	6.86	7.19	7.21	7.22	8.73	8.78	8.18	8.29
15	7.33	5.49	4.83	6.72	6.88	7.17	7.19	7.20	8.52	e8.64	8.04	8.16
16	7.24	5.32	4.81	6.56	7.05	7.15	7.16	7.17	8.41	8.41	7.93	8.07
17	7.13	5.28	4.82	6.50	7.01	7.25	7.14	7.14	e8.62	8.26	7.85	8.01
18	7.05	5.25	4.85	6.47	6.97	7.77	7.15	7.12	8.46	8.16	7.80	7.95
19	6.98	5.16	4.84	6.46	6.97	7.59	7.16	7.11	8.29	8.03	7.71	7.87
20	6.92	5.16	4.82	6.45	7.01	7.49	7.10	7.08	8.16	7.89	7.65	7.84
21	6.83	5.18	4.79	6.43	7.01	7.47	7.09	7.07	8.10	7.85	7.63	7.85
22	6.75	5.16	4.76	6.42	6.97	7.73	7.07	7.07	8.28	7.81	7.67	8.35
23	6.62	5.11	4.75	6.42	6.89	7.65	7.05	7.06	8.25	7.73	7.72	9.17
24	6.53	5.12	4.79	6.40	6.87	7.57	7.04	7.08	8.97	7.80	7.66	8.75
25	6.56	5.06	4.90	6.39	7.00	7.49	7.02	7.18	9.54	8.06	7.74	8.38
26	6.35	4.97	4.87	6.40	7.07	7.45	7.00	7.23	8.96	7.88	7.96	8.24
27	6.20	4.90	4.87	6.40	7.03	7.48	7.06	7.27	8.89	7.75	8.06	8.20
28	6.08	e5.07	4.84	6.42	7.02	7.47	7.13	7.24	8.91	7.68	---	8.07
29	6.06	e5.14	4.80	6.52	---	7.51	7.10	7.20	9.47	7.65	---	8.02
30	5.98	5.09	4.77	6.45	---	7.44	7.08	7.16	10.42	7.61	---	7.95
31	5.94	---	4.75	6.41	---	7.38	---	7.18	---	7.77	---	---
TOTAL	240.86	159.93	149.84	183.13	189.87	226.76	215.88	224.16	261.94	263.27	---	---
MEAN	7.77	5.33	4.83	5.91	6.78	7.31	7.20	7.23	8.73	8.49	---	---
MAX	12.03	5.87	5.05	6.72	7.07	7.77	7.44	7.76	10.42	10.79	---	---
MIN	5.94	4.90	4.75	4.67	6.30	6.96	7.00	7.05	7.32	7.61	---	---

e Estimated

265818080111900 CYPRESS CREEK CANAL BELOW GULFSTREAM BRIDGE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	759	95	65	47	31	48	69	45	e53	464	116	e166
2	649	88	56	46	26	46	76	47	130	391	122	e168
3	567	90	53	46	25	44	91	49	223	310	133	e307
4	491	88	54	45	29	59	74	52	e287	279	241	332
5	438	87	54	44	31	54	69	120	e273	232	350	454
6	386	86	52	44	30	53	65	118	e265	201	259	651
7	347	84	e51	45	29	48	62	90	e315	177	202	602
8	323	83	51	44	27	48	95	78	e306	158	187	513
9	290	79	52	45	36	63	91	68	e252	142	159	424
10	270	70	50	34	41	104	76	61	e215	251	161	355
11	249	82	51	30	45	78	71	56	e297	284	166	294
12	234	102	e52	e32	45	69	66	55	e367	307	190	243
13	219	108	53	30	45	67	64	52	e314	251	165	209
14	206	125	53	45	39	60	64	55	267	217	142	185
15	190	132	52	65	43	59	60	51	234	e199	127	169
16	187	109	51	50	56	59	59	51	205	174	112	156
17	178	100	51	41	53	75	53	47	e225	156	103	146
18	174	90	53	41	48	144	58	e45	198	144	99	139
19	170	76	52	37	49	112	57	e38	171	129	84	133
20	165	75	52	33	52	95	53	e38	154	113	79	130
21	160	78	50	33	51	91	51	e38	146	109	80	125
22	153	74	48	30	47	132	54	e36	172	101	86	193
23	140	71	48	37	41	119	48	e41	168	89	85	306
24	133	73	50	28	39	105	52	e38	271	102	88	250
25	138	67	55	27	50	96	47	e44	340	123	102	198
26	121	59	54	32	57	89	46	e45	259	103	119	176
27	112	56	54	22	50	94	51	e50	244	89	134	167
28	105	e69	53	35	50	94	58	e44	240	86	e134	151
29	105	e75	50	44	---	100	52	e40	302	87	e161	143
30	99	69	49	36	---	86	50	e32	411	85	e155	137
31	99	---	48	32	---	76	---	e37	---	101	e164	---
TOTAL	7,857	2,540	1,617	1,200	1,165	2,467	1,882	1,661	7,304	5,654	4,505	7,622
MEAN	253	84.7	52.2	38.7	41.6	79.6	62.7	53.6	243	182	145	254
MAX	759	132	65	65	57	144	95	120	411	464	350	651
MIN	99	56	48	22	25	44	46	32	53	85	79	125
AC-FT	15,580	5,040	3,210	2,380	2,310	4,890	3,730	3,290	14,490	11,210	8,940	15,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	167	108	46.7	33.7	33.0	53.7	40.6	51.6	127	82.0	103	251
MAX	253	132	52.2	38.7	41.6	79.6	62.7	85.4	243	182	145	388
(WY)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	79.9	84.7	40.3	30.5	24.6	27.8	18.4	15.9	15.8	16.4	59.5	112
(WY)	(2004)	(2005)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	30,274.3		45,474			
ANNUAL MEAN	82.7		125		97.7	
HIGHEST ANNUAL MEAN					125	2005
LOWEST ANNUAL MEAN					70.9	2004
HIGHEST DAILY MEAN	1,100	Sep 27	759	Oct 1	1,100	Sep 27, 2004
LOWEST DAILY MEAN	8.4	Jul 31	22	Jan 27	8.4	Jul 31, 2004
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 26	28	Feb 2	9.8	Jul 26, 2004
ANNUAL RUNOFF (AC-FT)	60,050		90,200		70,790	
10 PERCENT EXCEEDS	185		272		234	
50 PERCENT EXCEEDS	31		84		53	
90 PERCENT EXCEEDS	14		41		16	

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.

265708080093700 HOBE DITCH TRIBUTARY TO LOXAHATCHEE RIVER .5 MI ABOVE MOUTH, FL

LOCATION.--Lat 26 59'08", long 80 09'37", in NE 1/4 NE 1/4 NE 1/4, sec.18, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, in the Gulfstream Citrus Orange Grove on Hobe Ditch, 50 ft above Moonshine Creek, 0.75 mi east of U.S. Interstate 95, 3.2 mi northeast of State Road 706 bridge crossing over the Loxahatchee River, 6.2 mi northwest of Jupiter.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 2002 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929. (South Florida Water Management benchmark). (Corrected).

REMARKS.--Records poor, discharge affected regularly by tidal backwater. Flow regulated by operation of control structure 0.2 mi upstream.

ANNUAL MEAN and ANNUAL SUMMARY STATISTICS.--Figures represent 2 complete water years of discharge (2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.70 ft Sept. 26, 2004; minimum, 1.78 ft Mar. 11, 2003.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.77 ft Sept. 6; minimum, 2.07 ft May 24,25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.29	2.53	2.39	2.84	2.46	2.94	2.49	2.53	2.55	4.81	3.52	3.23
2	4.75	2.56	2.38	2.82	2.53	2.79	2.85	2.55	3.63	4.28	3.58	3.39
3	4.40	2.57	2.36	2.75	2.45	2.73	2.94	3.02	4.26	3.98	3.86	3.93
4	4.15	2.57	2.35	2.75	2.48	2.96	2.88	3.34	4.70	3.95	5.11	4.33
5	3.99	2.55	2.36	2.76	2.57	2.83	3.28	3.02	3.99	3.21	5.44	5.49
6	3.86	2.52	2.37	2.75	2.55	2.74	3.19	2.60	3.77	3.25	4.76	7.72
7	3.79	2.53	2.50	2.71	2.47	2.69	2.99	2.68	4.79	3.26	4.39	5.11
8	3.72	2.52	2.77	2.79	2.53	2.66	3.42	2.63	3.96	3.18	4.35	4.71
9	3.64	2.51	2.88	2.93	2.39	2.92	3.33	2.62	3.49	3.06	4.07	4.21
10	3.55	2.54	2.93	2.89	2.47	4.48	3.18	2.31	3.43	3.09	3.79	3.85
11	3.49	2.53	2.95	2.86	2.53	4.54	3.04	2.16	3.87	3.01	3.79	3.61
12	3.44	2.52	2.95	2.79	2.57	3.02	2.92	2.54	4.09	3.08	4.04	3.45
13	3.37	2.48	3.00	2.70	2.61	2.32	2.86	3.22	3.69	3.18	3.90	3.31
14	3.26	2.59	2.99	3.61	2.65	2.53	2.81	3.18	3.44	3.03	3.65	3.17
15	3.21	2.65	2.65	3.91	2.61	2.77	2.56	2.89	3.27	e3.08	3.61	3.08
16	3.11	2.59	2.35	3.47	2.55	3.49	2.60	2.71	3.18	2.92	3.41	3.05
17	3.03	2.54	2.68	2.56	2.51	4.08	2.66	2.64	3.47	2.79	3.27	2.86
18	2.97	2.53	2.59	2.19	2.37	4.19	2.67	2.61	3.28	2.72	3.24	2.86
19	2.90	2.50	2.88	2.44	2.16	3.27	2.64	2.35	3.15	2.80	3.11	2.79
20	2.96	2.48	2.89	2.48	2.08	3.69	2.59	2.34	3.07	2.84	3.21	2.86
21	3.10	2.47	3.03	2.24	2.21	3.65	2.55	2.29	3.06	2.92	3.04	2.93
22	3.05	2.46	2.91	2.38	2.28	3.74	2.56	2.26	3.12	3.04	3.10	3.32
23	3.13	2.45	2.90	2.47	2.23	3.59	2.54	2.35	3.20	2.95	3.20	3.72
24	3.14	2.46	2.92	2.50	2.31	3.43	2.50	2.27	3.40	3.09	2.94	3.37
25	3.07	2.45	3.05	2.43	2.45	3.25	2.52	2.19	3.76	3.77	3.67	3.19
26	3.00	2.42	3.15	2.40	2.63	2.95	2.52	2.35	3.65	3.55	2.94	3.35
27	2.97	2.42	3.18	2.47	2.97	3.28	2.61	2.46	3.61	3.44	2.83	3.48
28	2.73	2.42	3.13	2.39	3.10	3.36	2.58	2.45	3.58	3.45	3.28	3.33
29	2.57	2.39	3.00	2.44	---	3.16	2.53	2.42	4.77	3.56	3.60	3.73
30	2.51	2.39	2.94	2.53	---	2.95	2.51	2.41	5.79	3.44	3.52	3.51
31	2.49	---	2.88	2.45	---	3.22	---	2.37	---	3.38	3.40	---
TOTAL	104.64	75.14	86.31	83.70	69.72	100.22	83.32	79.76	111.02	102.11	113.62	110.94
MEAN	3.38	2.50	2.78	2.70	2.49	3.23	2.78	2.57	3.70	3.29	3.67	3.70
MAX	5.29	2.65	3.18	3.91	3.10	4.54	3.42	3.34	5.79	4.81	5.44	7.72
MIN	2.49	2.39	2.35	2.19	2.08	2.32	2.49	2.16	2.55	2.72	2.83	2.79

e Estimated

265708080093700 HOBE DITCH TRIBUTARY TO LOXAHATCHEE RIVER .5 MI ABOVE MOUTH, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e52	e4.8	e2.9	e9.8	e4.0	e12	e4.0	e4.4	e4.7	e34	e15	e9.2
2	e40	e5.3	e2.8	e9.4	e4.7	e9.4	e9.1	e4.6	e23	e26	e15	e11
3	e32	e5.4	e2.8	e8.3	e3.8	e8.5	e11	e12	e33	e22	e19	e20
4	e27	e5.3	e2.6	e8.2	e3.7	e12	e9.5	e17	e41	e21	e40	e26
5	e24	e5.1	e2.7	e8.5	e3.8	e10	e16	e13	e27	e11	e47	e48
6	e22	e4.6	e2.8	e8.2	e3.1	e8.6	e15	e5.1	e22	e11	e34	e100
7	e20	e4.7	e4.5	e7.7	e2.9	e7.9	e11	e6.1	e40	e11	e27	e43
8	e19	e4.6	e8.6	e9.0	e3.6	e7.5	e18	e5.4	e25	e10	e27	e31
9	e17	e4.4	e10	e11	e2.6	e11	e17	e5.3	e17	e8.5	e22	e23
10	e16	e4.1	e11	e11	e4.0	e39	e14	e2.3	e16	e8.8	e18	e17
11	e15	e3.9	e12	e9.8	e4.9	e40	e12	e0.79	e22	e7.7	e18	e14
12	e13	e3.8	e12	e8.8	e5.4	e14	e10	e4.8	e24	e8.7	e22	e11
13	e13	e3.7	e12	e7.3	e6.1	e3.0	e9.2	e15	e18	e10	e20	e9.6
14	e11	e5.0	e12	e24	e6.9	e5.8	e8.4	e15	e15	e7.8	e16	e7.2
15	e10	e5.2	e6.9	e28	e6.3	e9.2	e4.9	e9.6	e12	e8.6	e15	e5.6
16	e9.1	e4.7	e2.7	e20	e5.6	e21	e5.1	e6.8	e11	e6.3	e12	e5.2
17	e8.3	e4.6	e7.2	e4.6	e5.0	e33	e5.7	e5.8	e15	e4.6	e10	e3.5
18	e7.7	e4.5	e5.7	e0.90	e3.1	e35	e5.9	e5.3	e12	e3.8	e9.5	e3.4
19	e8.0	e4.3	e10	e3.5	e1.1	e17	e5.6	e2.5	e10	e4.7	e7.7	e2.5
20	e9.5	e4.0	e11	e4.2	e0.43	e24	e5.1	e2.3	e9.1	e5.1	e9.0	e2.6
21	e11	e3.9	e13	e1.4	e1.5	e23	e4.6	e1.8	e8.8	e6.0	e6.5	e4.6
22	e10	e3.8	e11	e2.8	2.3	e25	e4.7	e1.5	e9.7	e7.7	e7.2	e11
23	e10	e3.7	e11	e4.0	e1.7	e22	e4.6	e2.2	e11	e6.5	e8.9	e17
24	e10	e3.6	e11	e4.2	e2.6	e20	e4.0	e1.5	e14	e8.7	e5.1	e11
25	e9.0	e3.6	e13	e3.4	e4.3	e17	e4.2	e0.83	e19	e18	e16	e8.4
26	e8.4	e3.3	e15	e3.1	e6.8	e12	e4.2	e2.2	e17	e15	e6.1	e11
27	e9.9	e3.2	e15	e4.0	e12	e17	e5.2	e3.3	e17	e13	e3.7	e13
28	e7.4	e3.3	e14	e2.9	e14	e18	e5.0	e3.4	e16	e14	e10	e11
29	e4.4	e3.0	e12	e3.6	---	e15	e4.3	e3.1	e37	e15	e15	e16
30	e4.0	e2.9	e11	e4.6	---	e12	e4.1	e3.0	e55	e13	e14	e13
31	e4.1	---	e10	e3.8	---	e18	---	e2.7	---	e13	e12	---
TOTAL	461.8	126.3	278.2	240.00	126.23	526.9	241.4	168.62	601.3	360.5	507.7	508.8
MEAN	14.9	4.21	8.97	7.74	4.51	17.0	8.05	5.44	20.0	11.6	16.4	17.0
MAX	52	5.4	15	28	14	40	18	17	55	34	47	100
MIN	4.0	2.9	2.6	0.90	0.43	3.0	4.0	0.79	4.7	3.8	3.7	2.5
AC-FT	916	251	552	476	250	1,050	479	334	1,190	715	1,010	1,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	10.2	7.45	7.49	5.20	4.11	7.34	3.54	5.01	9.71	6.95	13.8	27.4
MAX	14.9	10.7	9.84	7.74	4.51	17.0	8.05	7.84	20.0	11.6	19.3	52.1
(WY)	(2005)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)	(2003)	(2005)	(2005)	(2003)	(2004)
MIN	5.44	4.21	3.66	1.45	3.66	1.41	0.97	1.76	1.98	2.93	5.82	13.1
(WY)	(2004)	(2005)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	3,205.66		4,147.75			
ANNUAL MEAN	8.76		11.4		9.96	
HIGHEST ANNUAL MEAN					11.4	2005
LOWEST ANNUAL MEAN					8.56	2004
HIGHEST DAILY MEAN	215	Sep 26	100	Sep 6	215	Sep 26, 2004
LOWEST DAILY MEAN	0.17	Mar 26	0.43	Feb 20	0.13	Jan 20, 2003
ANNUAL SEVEN-DAY MINIMUM	0.21	Apr 5	1.8	May 20	0.15	Jan 15, 2003
ANNUAL RUNOFF (AC-FT)	6,360		8,230		7,220	
10 PERCENT EXCEEDS	14		22		20	
50 PERCENT EXCEEDS	3.5		9.0		5.1	
90 PERCENT EXCEEDS	0.41		3.1		1.1	

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.

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

LOCATION.--Lat 26 56'20", long 80 10'31", in NE 1/4 SE 1/4 NE 1/4 sec.6, T.41 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, near left bank, 0.2 mi downstream from State Road 706, 1.3 mi upstream from Florida's Turnpike and 5.2 mi west of Jupiter.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1971 to current year.

REVISED RECORDS.--WDR FL-04-2A: 2003.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. No estimated daily discharges. Flow is augmented by diversion from C-18 canal 2.0 mi upstream from the gage. High-water flow can be diverted into C-18 canal by backflow through the structure. Discharge for the 1991 water year could not be published due to the loss of the original records. Days of no flow for the period of record only occurred during the period May 4-7, 1974.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 33 complete water years of discharge (1972-90, 1992-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 16.39 ft Oct. 18, 1995; minimum, 7.55 ft May 16, 17, 18, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.09 ft Sept. 4; minimum, 10.46 ft Feb. 22.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.46	11.92	10.94	10.94	10.72	10.72	11.47	10.78	11.37	13.46	12.04	12.27
2	12.08	11.91	10.93	10.82	10.66	10.72	11.33	10.77	11.90	12.64	12.19	12.01
3	11.74	11.87	10.95	10.67	10.66	10.71	11.39	10.79	12.22	11.97	12.07	13.28
4	11.50	11.79	10.95	10.73	10.65	10.92	11.38	10.90	12.27	12.28	12.40	13.78
5	11.35	11.44	10.94	10.77	10.65	10.93	11.36	11.33	12.05	12.10	12.33	13.74
6	11.25	11.36	10.95	10.77	10.63	10.86	11.34	11.66	11.94	11.95	11.92	13.25
7	11.21	11.34	10.93	10.74	10.63	10.84	11.32	12.04	12.29	11.85	11.64	12.62
8	11.32	11.34	10.93	10.76	10.63	10.84	11.41	11.68	12.08	11.68	11.62	12.11
9	11.70	11.32	10.92	10.73	10.64	10.97	11.41	11.23	11.96	11.36	11.73	11.89
10	11.73	11.27	10.92	10.68	10.63	11.29	11.39	11.21	11.86	12.35	11.91	12.18
11	11.72	11.12	10.92	10.68	10.64	11.17	11.37	11.28	11.97	12.44	11.91	12.18
12	11.70	11.09	10.90	10.69	10.63	11.13	11.35	11.27	12.28	11.94	12.00	12.07
13	11.69	11.07	10.89	10.68	10.60	11.11	11.33	11.28	11.58	11.71	12.10	12.10
14	11.67	11.07	10.88	10.73	10.57	11.08	11.31	11.28	11.49	11.80	12.01	12.14
15	11.64	11.07	10.86	10.78	10.56	11.07	11.28	11.29	11.47	11.91	11.90	12.11
16	11.61	11.00	10.87	10.85	10.56	11.06	11.21	11.29	11.45	11.86	11.97	12.10
17	11.59	11.00	10.87	10.84	10.58	11.10	11.06	11.26	11.82	11.95	12.01	12.07
18	11.57	11.05	10.82	10.83	10.57	11.32	10.98	11.17	12.23	11.96	12.05	12.09
19	11.62	11.07	10.80	10.79	10.57	11.26	10.97	11.16	12.15	11.93	12.00	12.06
20	11.92	10.99	10.81	10.76	10.54	11.20	10.97	10.91	12.12	11.94	11.96	11.81
21	11.99	11.01	10.87	10.74	10.49	11.30	10.96	10.83	12.17	11.96	11.93	11.92
22	11.98	11.02	10.92	10.80	10.52	12.23	10.95	11.02	12.18	11.93	11.91	12.23
23	11.98	11.01	10.91	10.78	10.75	12.18	10.95	11.02	12.20	11.95	11.87	12.07
24	12.01	11.01	10.90	10.74	10.71	12.08	10.93	11.00	12.36	11.97	11.96	12.02
25	11.99	11.02	10.88	10.75	10.75	11.80	10.92	10.92	12.42	11.97	11.97	12.20
26	11.99	11.01	10.88	10.74	10.76	12.02	10.90	10.93	12.30	11.91	12.01	12.17
27	11.98	11.00	10.85	10.66	10.78	11.99	10.93	10.93	12.31	11.85	11.86	12.08
28	11.97	11.01	10.78	10.65	10.80	11.94	11.00	10.93	12.31	11.80	12.02	11.98
29	11.97	10.99	10.78	10.65	---	11.88	10.91	10.94	12.76	11.91	12.36	11.97
30	11.96	11.07	10.99	10.72	---	11.81	10.79	10.96	13.57	11.96	11.83	11.98
31	11.94	---	11.00	10.73	---	11.71	---	11.04	---	11.97	11.80	---
TOTAL	364.83	336.24	337.74	333.20	297.88	351.24	334.87	345.10	363.08	372.26	371.28	368.48
MEAN	11.77	11.21	10.89	10.75	10.64	11.33	11.16	11.13	12.10	12.01	11.98	12.28
MAX	12.46	11.92	11.00	10.94	10.80	12.23	11.47	12.04	13.57	13.46	12.40	13.78
MIN	11.21	10.99	10.78	10.65	10.49	10.71	10.79	10.77	11.37	11.36	11.62	11.81

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	155	55	50	29	31	111	34	90	351	152	174
2	143	154	53	41	25	32	97	33	142	216	167	149
3	115	150	55	28	24	31	102	34	175	145	155	289
4	95	142	55	32	24	49	100	43	180	176	188	373
5	82	107	54	36	23	49	98	82	159	158	181	361
6	73	99	54	36	22	44	95	115	148	143	140	285
7	69	97	52	33	22	43	93	153	182	133	112	210
8	81	96	52	35	22	43	101	118	162	116	109	159
9	125	95	52	32	23	56	101	72	149	83	121	137
10	134	90	52	29	22	86	98	71	140	184	139	166
11	135	75	51	28	23	75	95	78	151	192	139	166
12	133	72	49	29	22	72	92	77	182	142	148	155
13	132	70	48	29	20	70	90	78	113	119	158	158
14	130	69	47	31	17	68	87	79	104	128	149	162
15	127	69	46	35	17	67	84	80	102	139	138	159
16	124	62	47	41	17	67	76	80	100	134	145	158
17	122	62	46	40	18	72	61	77	137	143	149	155
18	120	67	42	40	18	94	54	68	178	144	153	157
19	125	69	41	36	17	89	52	67	170	141	148	154
20	155	61	42	33	16	83	51	46	167	142	144	129
21	162	62	46	31	13	94	50	40	172	144	141	140
22	160	63	50	36	15	186	49	55	173	141	139	171
23	161	62	48	34	31	182	48	55	174	143	135	155
24	164	63	48	32	28	172	46	54	189	145	144	150
25	162	62	46	31	32	144	45	47	195	145	145	168
26	162	61	46	31	33	166	43	47	183	139	149	165
27	161	60	44	25	35	163	44	47	185	133	134	156
28	160	61	38	24	37	158	50	48	185	128	150	146
29	160	60	37	25	---	152	43	49	247	139	184	145
30	159	67	56	29	---	145	34	51	373	144	130	146
31	157	---	56	29	---	135	---	59	---	145	128	---
TOTAL	4,162	2,482	1,508	1,021	645	2,918	2,190	2,037	5,007	4,675	4,514	5,398
MEAN	134	82.7	48.6	32.9	23.0	94.1	73.0	65.7	167	151	146	180
MAX	174	155	56	50	37	186	111	153	373	351	188	373
MIN	69	60	37	24	13	31	34	33	90	83	109	129
AC-FT	8,260	4,920	2,990	2,030	1,280	5,790	4,340	4,040	9,930	9,270	8,950	10,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)

MEAN	132	112	73.8	70.9	67.5	61.2	47.6	43.8	76.9	90.9	100	125
MAX	349	277	253	305	295	190	178	150	238	286	212	258
(WY)	(1996)	(1993)	(1995)	(1993)	(1993)	(1993)	(1993)	(1972)	(1994)	(2002)	(1995)	(2001)
MIN	17.2	21.9	15.4	5.90	1.75	10.6	5.88	5.80	8.85	16.2	25.1	26.6
(WY)	(1973)	(1973)	(1989)	(1989)	(1989)	(1975)	(1999)	(1974)	(2004)	(1990)	(1975)	(1972)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1971 - 2005	
ANNUAL TOTAL	23,023.53		36,557			
ANNUAL MEAN	62.9		100		83.8	
HIGHEST ANNUAL MEAN					172	1993
LOWEST ANNUAL MEAN					24.2	1975
HIGHEST DAILY MEAN	753	Sep 26	373	Jun 30	2,150	Oct 18, 1995
LOWEST DAILY MEAN	0.44	Jun 30	13	Feb 21	0.00	May 4, 1974
ANNUAL SEVEN-DAY MINIMUM	1.8	Jun 28	16	Feb 16	0.16	May 2, 1974
MAXIMUM PEAK FLOW					2,660	Oct 18, 1995
MAXIMUM PEAK STAGE					16.39	Oct 18, 1995
INSTANTANEOUS LOW FLOW					0.00	May 4, 1974
ANNUAL RUNOFF (AC-FT)	45,670		72,510		60,710	
10 PERCENT EXCEEDS	134		167		176	
50 PERCENT EXCEEDS	44		92		61	
90 PERCENT EXCEEDS	14		31		16	

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.

265651080045500 LOXAHATCHEE RIVER AT COAST GUARD DOCK NR JUPITER, FL

LOCATION.--Lat 26 56'52", long 80 04'55", in NE 1/4 NW 1/4 SE 1/4, sec.31, T.43 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, at the Coast Guard Station, 1.2 mi northeast of Jupiter, 0.7 mi northwest of the mouth of the Loxahatchee River, 4.75 mi east of U.S. Interstate 95.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 4.63 ft Sept. 25, 2004; minimum, -1.95 ft July 1, 2004 and Dec. 13, 2004.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 4.63 ft Sept. 25; minimum, -1.95 ft Dec. 13.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): October 2002 to current year.
SALINITY (BOTTOM): August 2003 to current year.
WATER TEMPERATURE (TOP): October 2002 to current year.
WATER TEMPERATURE (BOTTOM): August 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors. A second salinity and temperature sensor was installed in August 2003.

REMARKS.--Salinity record (TOP) rated excellent except for the following periods: Jan. 10-21, Feb. 11 to Mar. 1, Apr. 14-19, May 2-26, and July 7-18, rated good; Jan. 22-27 and July 19-28, rated fair. Salinity record (BOTTOM) rated excellent except for the following perids: Jan. 7-27, Feb. 14 to Mar. 1, Apr. 10-19, and May 7-26 rated good. Temperature records (TOP and BOTTOM) are rated excellent for the entire water year.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 39.5 ppt Aug. 18, 2004; minimum recorded, 1.2 ppt Sept. 27, 2004.
SALINITY (BOTTOM): Maximum recorded, 37.4 ppt Dec. 15, 16, 2003; minimum recorded, 1.2 ppt Sept. 27, 2004.
WATER TEMPERATURE (TOP): Maximum recorded, 32.9 C Aug. 17, 18, 2005; minimum recorded, 14.7 C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.8 C Aug. 18, 2005; minimum recorded, 16.4 C Feb. 6, 2005.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 37.8 ppt May 21; minimum recorded, 6.8 ppt Oct. 3.
SALINITY (BOTTOM): Maximum recorded, 37.2 ppt Jan. 22, 23; minimum recorded, 7.4 ppt Oct. 3.
WATER TEMPERATURE (TOP): Maximum recorded, 32.9 C Aug. 17,18; minimum recorded, 16.4 C Feb. 6.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.8 C Aug. 18; minimum recorded, 16.4 C Feb. 6.

265651080045500 LOXAHATCHEE RIVER AT COAST GUARD DOCK NR JUPITER, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.25	-0.54	1.95	-0.35	1.62	-0.62	1.32	-0.72	2.13	0.04	1.59	-0.77
2	2.05	-0.60	1.80	-0.40	1.61	-0.60	1.32	-0.66	2.35	-0.13	1.63	-0.77
3	1.99	-0.53	1.67	-0.42	1.61	-0.51	1.14	-0.86	2.27	0.02	1.60	-0.74
4	2.04	-0.16	1.70	-0.30	1.65	-0.26	1.16	-0.98	2.63	0.50	1.73	-0.88
5	1.89	-0.13	1.77	-0.19	1.35	-0.60	1.38	-1.18	3.10	0.42	1.52	-1.23
6	1.75	-0.03	2.17	0.31	1.25	-0.88	1.50	-1.28	3.22	0.30	1.41	-1.13
7	2.07	0.25	2.19	0.14	1.29	-1.05	1.58	-1.48	2.93	0.07	1.68	-1.10
8	2.30	0.35	1.94	-0.24	1.49	-1.39	1.75	-1.54	3.15	-0.10	1.75	-1.18
9	2.45	0.43	2.09	-0.22	1.44	-1.67	1.66	-1.72	2.74	-0.36	1.87	-1.30
10	2.47	0.23	2.61	0.11	1.52	-1.74	1.98	-1.74	2.44	-0.54	1.99	-1.07
11	2.32	0.00	2.76	-0.01	1.63	-1.79	2.21	-1.55	2.38	-0.44	1.81	-1.04
12	2.51	-0.10	2.85	-0.33	1.72	-1.90	2.10	-1.39	2.33	-0.16	1.50	-1.36
13	2.68	0.02	2.68	-0.62	1.56	-1.92	2.08	-1.15	2.30	-0.29	1.44	-1.27
14	2.77	-0.17	2.74	-0.77	1.73	-1.81	1.54	-1.28	2.12	-0.55	1.33	-1.43
15	2.98	-0.13	3.02	-0.03	1.96	-1.48	1.84	-0.83	1.67	-0.86	1.26	-1.15
16	2.72	-0.48	2.78	-0.13	2.09	-0.75	2.03	0.02	1.40	-0.62	1.30	-0.82
17	2.50	-0.66	2.53	-0.28	1.84	-0.80	2.19	0.05	1.56	-0.61	1.41	-0.60
18	2.26	-0.75	2.37	-0.19	1.90	-0.52	2.19	-0.06	1.46	-0.45	1.57	-0.30
19	1.99	-0.84	2.17	-0.22	1.80	-0.58	2.13	-0.21	1.62	-0.74	1.77	-0.20
20	1.85	-0.90	2.04	-0.32	1.64	-0.68	1.98	-0.31	1.36	-0.87	1.74	-0.33
21	2.21	-0.63	1.91	-0.50	1.73	-0.87	2.10	-0.57	1.35	-0.95	1.70	-0.34
22	2.67	0.00	2.10	-0.42	1.70	-0.79	1.79	-0.62	1.14	-1.18	1.76	-0.52
23	2.82	0.42	2.13	-0.48	1.74	-1.01	1.74	-0.75	1.25	-1.24	1.58	-0.68
24	2.97	0.57	2.34	-0.53	1.70	-1.08	2.13	-0.44	1.53	-0.96	1.46	-0.90
25	3.06	0.71	2.10	-0.66	2.08	-0.91	2.18	-0.25	1.63	-0.96	1.82	-0.90
26	3.04	0.52	2.01	-1.05	2.04	-0.46	2.28	-0.31	1.98	-0.51	1.99	-0.76
27	3.07	0.40	2.25	-0.61	2.10	-0.56	1.99	-0.52	2.05	-0.29	2.02	-0.74
28	2.93	0.21	1.98	-0.62	2.12	-0.30	2.21	-0.24	1.86	-0.63	1.99	-0.87
29	2.81	0.05	1.87	-0.71	1.92	-0.41	2.10	-0.08	---	---	1.99	-0.88
30	2.62	-0.04	1.92	-0.60	1.84	-0.54	2.13	0.07	---	---	1.93	-1.08
31	2.34	-0.13	---	---	1.63	-0.50	2.12	0.02	---	---	1.68	-1.16
MONTH	3.07	-0.90	3.02	-1.05	2.12	-1.92	2.28	-1.74	3.22	-1.24	2.02	-1.43
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.47	-1.07	1.52	-1.03	---	---	---	---	1.53	-1.10	1.84	-0.61
2	1.56	-1.11	1.62	-0.71	---	---	1.81	-0.98	1.64	-0.95	1.97	-0.50
3	1.40	-0.97	1.95	-0.47	---	---	1.48	-1.17	1.91	-0.72	2.41	-0.15
4	1.66	-0.89	1.91	-0.71	---	---	1.40	-1.40	1.74	-0.85	2.45	0.09
5	1.78	-0.92	1.90	-0.92	---	---	1.61	-1.26	1.93	-0.67	2.23	0.05
6	1.85	-0.87	2.29	-0.74	---	---	1.64	-1.08	1.83	-0.69	2.55	0.11
7	1.92	-1.08	2.39	-0.59	---	---	1.63	-1.05	1.94	-0.41	2.73	0.49
8	2.11	-1.04	2.24	-0.70	---	---	1.60	-1.01	1.94	-0.34	3.08	0.55
9	2.10	-1.08	1.97	-1.01	---	---	1.52	-0.91	1.94	-0.31	3.32	0.80
10	2.21	-0.91	1.72	-0.96	---	---	1.36	-1.03	1.81	-0.45	3.09	0.74
11	2.21	-0.69	1.71	-1.03	---	---	1.22	-0.87	1.64	-0.55	2.97	0.58
12	2.21	-0.71	1.61	-0.86	---	---	1.29	-0.76	1.58	-0.65	2.90	0.43
13	1.98	-0.70	1.60	-0.55	---	---	1.33	-0.75	1.66	-0.83	2.83	0.19
14	1.79	-0.30	1.60	-0.52	---	---	1.37	-0.89	1.81	-0.81	3.10	0.08
15	1.95	0.23	1.58	-0.33	---	---	1.36	-0.97	1.72	-1.06	3.22	0.09
16	2.19	0.66	1.61	-0.21	---	---	1.40	-1.12	1.89	-1.16	3.02	-0.01
17	2.34	0.74	1.49	-0.38	---	---	1.57	-1.30	2.03	-1.32	2.79	-0.34
18	2.21	0.18	1.43	-0.48	---	---	1.65	-1.43	2.06	-1.37	2.74	-0.21
19	1.89	0.02	1.65	-0.57	---	---	1.69	-1.64	2.17	-1.34	2.82	-0.20
20	1.78	-0.18	2.08	-0.55	---	---	1.99	-1.59	2.13	-1.19	3.19	0.22
21	1.78	-0.43	2.18	-0.71	---	---	2.12	-1.50	2.13	-0.97	2.52	-0.38
22	1.98	-0.62	2.51	-0.73	---	---	2.11	-1.30	2.17	-0.78	2.34	-0.38
23	2.03	-0.76	2.61	-0.59	---	---	1.97	-1.42	2.08	-0.89	2.14	-0.33
24	2.18	-0.93	2.60	-0.85	---	---	1.97	-0.99	1.97	-0.81	2.16	-0.37
25	2.08	-0.99	2.60	-0.86	---	---	2.11	-0.75	2.60	-0.27	1.49	-0.63
26	1.96	-1.19	2.54	-0.62	---	---	2.05	-0.69	2.01	-0.39	1.50	-0.56
27	1.87	-1.40	---	---	---	---	1.73	-0.90	2.19	-0.33	1.65	-0.47
28	1.66	-1.17	---	---	---	---	1.42	-1.14	1.86	-0.30	1.66	-0.51
29	1.83	-1.05	---	---	---	---	1.32	-1.23	1.77	-0.57	1.64	-0.53
30	1.74	-1.20	---	---	---	---	1.36	-1.19	1.80	-0.45	1.77	-0.46
31	---	---	---	---	---	---	1.29	-1.26	1.88	-0.54	---	---
MONTH	2.34	-1.40	2.61	-1.03	---	---	2.12	-1.64	2.60	-1.37	3.32	-0.63
YEAR	3.32	-1.92										

265651080045500 LOXAHATCHEE RIVER AT COAST GUARD DOCK NR JUPITER, FL—Continued

TOP
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	34.7	7.4	35.0	26.6	35.2	28.6	35.6	31.0	36.2	33.4	36.1	31.3
2	33.4	7.2	35.0	22.8	35.2	28.4	35.5	31.8	35.8	32.7	36.2	32.9
3	33.1	6.8	34.9	18.6	35.2	28.9	35.5	29.5	36.1	32.6	36.2	33.0
4	34.6	7.6	34.9	24.2	35.2	29.8	35.6	29.3	36.3	33.5	36.0	30.9
5	34.4	7.7	35.0	20.2	34.6	29.8	35.8	28.0	35.7	32.9	35.9	31.4
6	31.8	8.6	35.0	25.1	35.2	30.7	35.8	30.3	35.1	32.3	35.6	32.1
7	31.2	9.7	33.9	27.6	35.1	30.0	35.9	30.3	36.4	33.1	36.2	32.1
8	30.5	8.6	34.4	28.2	35.3	30.3	36.0	30.7	36.7	33.5	36.3	32.7
9	30.9	11.1	32.3	28.3	35.4	30.2	36.1	31.0	36.7	34.0	36.3	32.5
10	32.9	12.3	32.6	30.0	35.3	29.5	36.1	31.8	36.9	34.2	35.6	31.4
11	35.1	14.3	33.9	29.6	35.2	29.3	36.1	32.4	36.9	34.6	35.8	30.3
12	35.4	15.6	35.1	28.7	35.2	30.2	36.1	33.4	35.9	33.6	35.9	29.5
13	35.5	19.8	35.2	27.3	35.2	31.0	36.2	33.8	35.0	32.8	35.8	30.9
14	35.4	23.2	35.1	28.4	35.7	30.8	36.1	31.3	34.6	31.8	35.8	31.2
15	35.5	24.3	34.7	30.4	35.9	31.6	36.0	30.5	33.9	31.4	35.7	30.8
16	35.4	24.2	34.8	28.9	35.1	31.6	35.4	31.3	33.7	30.9	35.9	31.2
17	34.1	23.5	35.0	27.3	35.7	31.8	35.6	31.4	33.3	29.4	35.7	27.2
18	35.1	22.6	34.9	28.6	35.6	31.3	35.9	31.4	34.2	31.1	35.6	26.0
19	35.2	21.2	35.1	29.0	34.6	31.1	36.1	31.3	34.2	30.7	35.4	27.0
20	35.1	21.0	35.1	29.9	34.3	30.9	37.0	32.2	34.2	31.6	34.8	29.1
21	35.0	23.3	35.2	29.6	34.9	31.8	37.2	32.1	34.4	31.5	35.4	29.0
22	33.6	25.7	35.0	30.1	35.0	31.9	37.6	33.0	34.8	30.9	35.8	26.4
23	32.8	26.7	35.0	29.5	35.8	31.2	37.5	33.4	34.7	31.6	36.0	23.6
24	33.5	25.9	35.0	30.5	35.7	30.1	37.2	33.7	34.3	31.0	36.0	24.4
25	34.4	26.5	34.9	29.4	35.5	29.5	37.1	34.0	34.0	30.5	36.0	26.6
26	34.2	27.1	35.0	28.0	35.5	31.8	36.9	33.5	33.8	29.9	36.2	27.2
27	33.5	27.3	35.0	31.6	35.2	31.0	36.5	33.4	33.6	30.1	36.2	28.2
28	33.7	25.4	34.9	29.5	34.9	31.7	35.3	32.4	35.2	29.8	36.1	24.8
29	33.4	26.2	35.0	28.9	35.4	32.1	36.0	34.4	---	---	36.0	27.4
30	34.4	25.0	35.1	30.4	35.6	31.5	36.1	33.3	---	---	35.8	29.1
31	35.0	25.5	---	---	35.6	32.3	36.3	33.0	---	---	35.8	28.6
MONTH	35.5	6.8	35.2	18.6	35.9	28.4	37.6	28.0	36.9	29.4	36.3	23.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	35.7	27.4	37.1	33.0	---	---	---	---	35.2	23.6	35.5	23.4
2	35.4	25.2	37.2	33.2	---	---	36.3	12.8	35.0	25.9	35.1	23.6
3	35.4	28.2	37.2	33.4	---	---	36.5	15.8	34.9	25.0	35.1	22.6
4	35.1	28.2	37.1	33.8	---	---	36.6	17.6	34.8	24.3	34.0	15.6
5	35.5	28.7	37.3	33.2	---	---	36.6	17.5	34.1	20.5	33.5	10.9
6	35.8	31.7	37.5	32.6	---	---	36.8	18.9	33.7	20.5	34.2	10.6
7	35.7	31.4	37.3	32.6	---	---	36.8	19.5	34.3	20.7	35.0	11.9
8	35.7	26.6	37.0	31.5	---	---	36.8	21.5	33.6	21.0	35.0	15.4
9	35.7	28.7	37.3	30.9	---	---	36.2	18.2	33.9	22.4	35.6	17.8
10	34.9	29.6	37.4	30.2	---	---	36.0	11.1	34.2	21.3	35.1	18.4
11	34.9	30.2	37.5	31.3	---	---	36.3	11.5	34.4	20.2	34.5	17.3
12	35.1	30.0	37.5	31.4	---	---	35.9	13.0	34.6	20.1	34.8	17.9
13	35.7	27.0	37.4	31.6	---	---	35.8	15.0	34.5	19.4	34.8	21.2
14	36.0	28.1	37.4	31.8	---	---	35.5	17.8	34.5	21.1	34.9	23.6
15	35.9	30.2	37.5	27.8	---	---	35.7	17.6	34.5	22.1	34.8	24.7
16	35.5	31.2	37.2	27.9	---	---	35.6	18.8	34.4	23.6	35.0	26.0
17	35.7	30.4	37.4	29.2	---	---	35.9	20.0	34.3	24.2	34.9	25.2
18	35.2	29.5	37.5	30.2	---	---	36.1	21.8	34.4	25.7	34.4	25.5
19	35.6	30.5	37.4	30.2	---	---	36.8	22.2	34.3	26.3	34.0	25.9
20	36.0	31.1	36.7	30.4	---	---	36.9	25.4	33.9	26.9	34.1	26.5
21	36.4	30.9	37.8	30.5	---	---	37.2	26.3	33.8	27.5	34.8	22.8
22	36.5	31.9	37.0	32.6	---	---	37.3	27.6	33.8	27.5	34.1	20.0
23	36.5	32.2	35.9	32.9	---	---	37.4	29.0	33.7	26.8	34.2	15.9
24	36.6	32.3	35.9	31.2	---	---	37.5	30.1	33.6	25.8	33.3	14.8
25	36.7	33.4	35.9	32.5	---	---	36.7	29.4	33.3	26.4	32.6	15.6
26	36.9	33.9	36.0	33.1	---	---	36.5	29.2	33.1	22.3	34.2	14.2
27	36.8	32.8	---	---	---	---	37.5	27.3	32.3	20.0	34.4	15.9
28	37.0	33.3	---	---	---	---	37.6	26.0	32.5	16.8	33.3	18.7
29	36.9	33.8	---	---	---	---	35.9	25.0	33.0	16.1	34.1	19.9
30	37.1	33.8	---	---	---	---	35.6	27.0	32.4	16.0	33.4	21.8
31	---	---	---	---	---	---	35.5	27.5	35.3	19.1	---	---
MONTH	37.1	25.2	37.8	27.8	---	---	37.6	11.1	35.3	16.0	35.6	10.6
YEAR	37.8	6.8										

265651080045500 LOXAHATCHEE RIVER AT COAST GUARD DOCK NR JUPITER, FL—Continued

TOP
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.6	27.5	27.0	25.8	25.2	22.9	22.8	20.1	21.4	19.8	22.6	21.1
2	29.4	27.6	27.1	25.3	25.5	23.3	22.7	20.5	21.6	20.1	22.1	20.1
3	29.8	27.2	27.3	25.5	25.3	23.2	22.7	20.6	21.3	20.5	21.3	19.6
4	30.3	27.5	27.2	25.8	24.5	22.3	23.1	21.0	21.5	18.8	20.9	19.2
5	30.2	27.5	26.9	25.4	24.4	22.1	23.5	21.7	18.8	17.0	20.8	19.1
6	28.4	27.2	26.3	24.5	25.2	22.9	23.9	22.2	17.8	16.4	20.9	19.4
7	28.0	26.2	26.0	23.9	25.4	23.6	24.0	22.7	22.4	17.5	22.4	20.4
8	27.4	25.2	26.0	24.0	25.6	24.0	24.2	23.1	23.6	19.5	22.7	21.2
9	27.3	25.7	25.0	24.1	25.7	24.6	24.4	23.2	23.5	20.4	21.6	20.1
10	27.4	26.1	24.4	23.6	25.4	24.6	24.3	23.2	23.1	21.6	20.4	19.2
11	27.6	26.7	25.2	23.3	24.6	22.5	24.1	23.0	22.0	19.7	20.8	18.9
12	27.7	26.5	26.0	23.4	23.1	21.4	24.3	22.8	21.2	18.2	21.3	19.5
13	28.4	26.8	26.5	24.1	23.2	20.7	24.1	23.0	22.7	18.8	22.4	19.8
14	28.6	27.1	26.4	24.5	23.5	20.9	23.8	23.1	23.0	19.9	23.3	21.0
15	28.4	27.3	24.6	23.1	21.5	18.5	23.6	22.5	23.3	20.7	24.1	22.4
16	27.4	26.0	23.9	21.8	21.7	17.7	22.8	21.0	23.4	21.4	24.4	23.1
17	27.3	25.3	25.7	21.8	24.1	18.6	21.6	18.9	23.7	21.4	23.6	22.6
18	27.2	25.5	24.7	22.3	24.1	20.3	18.9	17.5	23.4	21.8	23.0	21.9
19	27.8	25.9	25.1	22.5	22.9	20.2	18.9	17.6	22.1	21.0	22.9	20.5
20	27.6	26.4	25.6	23.2	21.8	17.7	22.9	18.0	22.8	20.7	23.2	20.8
21	28.0	26.1	25.7	23.9	22.7	17.7	22.6	18.4	23.4	21.3	23.5	22.6
22	27.6	26.4	25.8	24.1	22.9	18.8	22.8	19.6	23.9	22.0	24.4	23.0
23	27.0	25.6	25.7	24.5	23.8	19.8	22.7	19.4	24.4	22.8	25.9	22.5
24	26.5	24.7	25.6	24.2	23.8	20.8	19.4	17.4	24.2	23.1	25.1	22.4
25	26.7	25.2	25.6	24.1	22.9	21.4	21.2	16.8	23.6	23.0	25.9	23.1
26	26.6	25.4	25.2	23.6	22.9	20.8	22.8	17.6	23.6	22.7	25.6	23.0
27	26.3	25.3	24.9	23.4	20.8	18.3	22.6	19.7	23.4	22.9	26.1	23.1
28	25.8	25.1	25.0	23.4	18.3	17.5	22.8	20.7	23.7	22.1	25.4	21.4
29	26.1	25.0	24.7	23.1	21.8	17.1	21.5	19.7	---	---	24.5	21.0
30	26.9	25.1	25.0	22.9	22.5	18.6	21.8	20.0	---	---	24.4	21.5
31	27.2	25.5	---	---	22.6	20.0	22.7	20.2	---	---	25.1	21.7
MONTH	30.3	24.7	27.3	21.8	25.7	17.1	24.4	16.8	24.4	16.4	26.1	18.9
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.3	21.9	25.7	24.6	---	---	---	---	32.0	27.2	31.1	28.4
2	24.4	22.4	26.1	24.7	---	---	30.8	27.3	31.8	27.9	31.4	28.9
3	22.7	20.7	26.0	24.6	---	---	31.3	26.8	31.4	28.1	30.6	29.2
4	23.7	21.3	26.1	24.8	---	---	31.4	26.7	31.8	28.4	29.4	28.3
5	24.7	23.1	25.4	24.5	---	---	31.6	27.3	30.5	28.8	28.9	27.9
6	24.7	23.5	25.5	24.2	---	---	31.5	26.9	31.2	28.9	28.4	27.3
7	24.8	23.5	25.8	24.1	---	---	31.8	27.1	31.7	28.6	28.9	26.8
8	24.9	23.8	26.0	23.8	---	---	31.2	27.5	31.3	29.2	28.9	27.3
9	24.9	23.4	26.7	24.0	---	---	30.2	28.2	31.2	29.4	29.6	27.3
10	25.4	23.3	26.9	24.5	---	---	29.2	27.3	31.4	29.2	30.4	27.8
11	25.5	23.4	27.2	24.8	---	---	30.8	26.1	30.4	28.7	30.4	28.3
12	25.4	23.5	27.3	24.7	---	---	31.5	27.1	31.9	28.7	30.5	28.0
13	25.4	23.6	27.0	24.6	---	---	31.4	27.4	31.8	29.5	30.3	28.3
14	24.9	22.7	27.4	24.9	---	---	30.8	28.1	31.9	29.6	30.1	28.4
15	23.5	21.9	27.4	25.1	---	---	30.9	27.4	31.7	29.0	30.5	28.6
16	22.9	21.4	27.8	25.2	---	---	30.6	28.3	32.1	29.5	30.7	29.0
17	22.1	20.6	27.6	25.7	---	---	30.7	28.2	32.9	30.5	31.0	29.0
18	22.6	20.6	27.6	25.9	---	---	31.2	28.6	32.9	29.5	31.0	29.3
19	23.1	21.4	27.5	25.9	---	---	31.9	28.4	32.7	29.3	30.3	28.8
20	23.7	22.1	28.0	25.9	---	---	31.8	28.4	32.7	29.9	29.3	28.4
21	24.8	22.9	28.2	26.1	---	---	31.8	28.9	32.4	30.1	28.7	27.7
22	25.6	23.7	28.9	26.4	---	---	32.0	29.1	32.5	30.1	28.7	27.7
23	26.2	24.3	28.9	26.8	---	---	32.0	28.6	32.7	30.5	28.7	27.3
24	25.5	24.1	29.4	26.2	---	---	30.2	28.4	32.1	30.2	29.8	27.2
25	25.0	23.2	28.6	26.0	---	---	30.7	29.3	30.5	28.9	29.3	27.5
26	25.5	23.6	27.2	26.0	---	---	31.3	29.5	29.5	27.9	29.6	27.6
27	26.0	24.1	---	---	---	---	31.2	28.6	30.1	28.2	29.3	28.0
28	26.0	23.7	---	---	---	---	31.5	29.0	30.5	28.8	29.4	27.9
29	26.2	24.1	---	---	---	---	31.6	28.1	30.3	29.0	29.7	28.3
30	26.3	24.1	---	---	---	---	31.4	29.2	31.0	28.1	30.2	28.6
31	---	---	---	---	---	---	31.3	27.1	31.2	27.6	---	---
MONTH	26.3	20.6	29.4	23.8	---	---	32.0	26.1	32.9	27.2	31.4	26.8
YEAR	32.9	16.4										

265651080045500 LOXAHATCHEE RIVER AT COAST GUARD DOCK NR JUPITER, FL—Continued

BOTTOM
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	35.5	7.6	34.2	26.1	35.0	28.7	36.5	31.5	35.9	33.1	36.1	31.3
2	34.0	7.7	34.2	23.0	35.0	28.3	36.4	32.5	35.6	33.1	36.2	32.9
3	33.7	7.4	34.1	20.7	34.9	28.8	36.3	30.2	35.7	33.4	36.2	33.1
4	35.0	8.8	34.5	25.4	34.9	29.8	36.3	30.1	35.9	33.1	36.0	31.0
5	34.6	9.6	34.6	22.0	34.1	29.5	36.7	28.7	35.2	32.6	35.9	31.5
6	32.0	10.5	34.7	25.2	34.6	30.1	36.7	31.1	34.6	31.9	35.7	32.1
7	31.2	11.6	34.6	28.2	34.7	29.3	36.9	31.5	35.8	31.9	36.2	32.1
8	29.4	9.2	35.3	28.9	34.5	29.6	36.9	31.4	35.9	33.0	36.3	32.6
9	31.2	12.1	33.0	29.2	34.4	29.5	36.9	31.2	35.4	32.8	36.2	32.5
10	33.3	14.8	33.2	30.6	34.1	28.8	36.7	32.0	34.8	32.2	35.6	31.4
11	35.5	15.5	34.6	30.3	33.9	28.1	36.9	33.1	34.7	32.4	35.8	30.8
12	35.8	16.4	35.8	29.2	33.6	28.9	37.0	33.8	34.2	31.6	35.8	29.9
13	35.9	20.2	35.9	28.0	33.5	29.6	37.0	34.1	33.8	31.5	35.9	30.9
14	35.8	23.5	35.9	29.0	35.9	29.5	37.0	32.0	33.6	31.3	35.7	31.1
15	35.8	24.6	35.5	31.0	35.8	31.9	36.8	31.1	33.3	30.5	35.5	30.4
16	35.7	24.4	35.5	29.5	35.7	32.3	36.6	32.6	33.2	30.1	35.4	30.5
17	34.4	23.7	35.7	27.8	36.1	32.4	36.5	32.4	33.8	30.1	35.2	27.0
18	35.3	23.6	35.6	29.2	36.2	32.4	36.2	31.9	34.5	31.2	35.1	26.0
19	35.2	21.3	35.8	29.7	36.0	32.3	36.4	31.6	34.2	31.1	34.9	26.8
20	35.0	21.4	35.8	30.6	35.7	32.0	37.0	32.3	34.2	31.1	34.2	28.6
21	35.0	23.5	35.8	30.1	36.1	32.9	37.1	32.3	34.0	31.2	34.8	28.3
22	33.9	26.0	35.6	30.5	36.3	33.0	37.2	32.9	34.1	30.5	35.9	26.4
23	33.3	27.4	35.5	30.1	36.3	31.6	37.2	33.3	34.2	31.0	36.1	23.9
24	34.2	26.8	35.4	30.9	36.3	30.8	36.8	33.7	34.2	31.6	36.1	24.6
25	34.4	26.8	35.1	29.6	36.1	30.0	36.9	33.6	34.2	31.5	36.2	26.6
26	34.2	27.5	35.4	28.0	36.1	32.3	37.0	33.9	34.7	31.5	36.4	27.6
27	33.5	27.3	35.4	31.9	35.8	31.6	36.7	33.5	35.2	32.6	36.3	28.4
28	33.5	25.5	35.2	30.0	35.4	32.2	35.8	33.1	35.2	31.7	36.4	25.0
29	33.6	26.4	35.1	29.3	36.0	32.8	35.6	34.1	---	---	36.2	27.7
30	34.3	25.3	35.1	30.3	36.3	32.1	35.7	33.1	---	---	36.1	29.4
31	34.5	25.4	---	---	36.5	33.1	36.0	32.3	---	---	36.1	28.8
MONTH	35.9	7.4	35.9	20.7	36.5	28.1	37.2	28.7	35.9	30.1	36.4	23.9
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	36.1	27.7	36.2	32.4	---	---	---	---	36.0	24.6	35.3	23.6
2	36.0	25.3	35.9	31.9	---	---	35.8	13.1	36.1	26.7	35.0	23.8
3	36.0	28.5	36.1	32.8	---	---	35.9	16.2	36.0	25.8	35.0	22.8
4	35.6	28.5	36.1	33.1	---	---	35.9	17.9	36.0	25.3	34.0	16.1
5	36.0	29.0	36.7	32.4	---	---	35.7	17.6	35.3	21.4	33.6	11.4
6	35.7	31.7	36.6	31.9	---	---	35.7	19.1	35.0	21.6	34.4	11.0
7	36.0	31.5	36.2	31.9	---	---	35.5	19.6	35.4	21.7	35.2	12.3
8	35.8	26.7	35.6	30.7	---	---	35.4	20.7	34.7	22.1	35.4	16.2
9	36.0	28.7	36.1	30.0	---	---	34.9	17.7	34.8	22.9	35.4	18.1
10	35.2	29.6	35.9	30.2	---	---	34.9	12.4	35.0	21.8	35.2	19.3
11	35.0	30.0	36.2	30.2	---	---	35.6	12.8	35.4	20.8	34.7	17.8
12	35.3	29.1	36.4	30.6	---	---	35.3	13.9	35.6	20.9	35.2	18.7
13	36.4	26.8	36.1	31.4	---	---	35.2	15.6	35.6	20.1	35.1	21.5
14	36.4	27.6	36.1	31.7	---	---	35.0	18.1	35.6	22.0	35.4	24.2
15	36.1	29.7	36.0	29.0	---	---	35.4	17.6	35.7	23.1	35.3	25.5
16	35.8	30.8	36.2	28.3	---	---	35.3	19.1	35.7	24.6	35.6	26.9
17	35.0	30.1	36.6	30.8	---	---	34.9	19.3	35.6	25.2	35.7	26.3
18	35.2	29.8	36.5	30.4	---	---	35.3	21.6	35.7	26.9	35.7	26.5
19	35.9	31.1	36.5	30.5	---	---	35.4	21.7	35.8	27.5	35.3	27.6
20	36.1	31.3	36.5	30.8	---	---	35.4	24.4	35.5	28.6	35.1	27.6
21	36.4	31.0	36.2	31.5	---	---	35.5	25.3	35.7	29.1	35.6	24.1
22	36.4	31.8	35.9	32.6	---	---	35.5	26.7	35.8	29.1	35.2	21.2
23	36.4	32.1	36.7	33.7	---	---	35.8	27.9	---	---	35.7	17.7
24	36.3	32.1	36.2	32.2	---	---	35.7	28.8	---	---	34.9	16.5
25	36.3	33.2	36.0	32.9	---	---	34.9	28.2	---	---	33.7	17.1
26	36.5	33.5	35.7	33.4	---	---	34.8	27.9	---	---	35.6	16.1
27	36.4	32.3	---	---	---	---	35.6	26.0	---	---	35.8	17.5
28	36.4	32.7	---	---	---	---	35.7	25.6	---	---	34.8	20.2
29	36.3	33.6	---	---	---	---	35.8	25.1	---	---	35.9	22.0
30	36.6	32.8	---	---	---	---	36.0	27.2	---	---	34.9	23.6
31	---	---	---	---	---	---	36.1	28.0	---	---	---	---
MONTH	36.6	25.3	36.7	28.3	---	---	36.1	12.4	36.1	20.1	35.9	11.0
YEAR	37.2	7.4										

265651080045500 LOXAHATCHEE RIVER AT COAST GUARD DOCK NR JUPITER, FL—Continued

BOTTOM
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.5	27.5	27.0	25.8	25.3	23.0	22.8	20.1	21.4	19.9	22.6	21.2
2	29.4	27.7	27.1	25.4	25.5	23.4	22.7	20.6	21.6	20.2	22.0	20.1
3	29.7	27.3	27.3	25.6	25.3	23.3	22.6	20.6	21.3	20.5	21.3	19.6
4	30.2	27.6	27.3	26.0	24.6	22.3	23.1	21.0	21.5	18.8	20.9	19.2
5	30.2	27.6	26.9	25.6	24.4	22.1	23.5	21.7	18.8	17.0	20.8	19.1
6	28.4	27.2	26.3	24.6	25.2	22.9	23.9	22.2	17.8	16.4	20.9	19.4
7	28.0	26.4	26.0	23.9	25.4	23.6	24.0	22.7	22.4	17.5	22.4	20.4
8	27.5	25.3	26.0	24.0	25.6	24.0	24.2	23.1	23.6	19.5	22.7	21.2
9	27.3	25.7	25.0	24.1	25.6	24.6	24.3	23.2	23.5	20.4	21.6	20.1
10	27.4	26.2	24.4	23.6	25.4	24.6	24.3	23.2	23.1	21.6	20.3	19.2
11	27.6	26.7	25.2	23.3	24.7	22.5	24.1	23.0	22.0	19.7	20.8	18.9
12	27.7	26.6	26.0	23.5	23.1	21.4	24.3	22.8	21.2	18.3	21.3	19.5
13	28.3	26.8	26.5	24.1	23.2	20.8	24.1	23.0	22.7	18.8	22.4	19.8
14	28.6	27.1	26.4	24.5	23.5	20.9	23.8	23.2	23.0	19.8	23.3	21.0
15	28.5	27.3	24.7	23.2	21.6	18.5	23.6	22.5	23.3	20.7	24.1	22.4
16	27.4	26.0	23.9	21.8	21.7	17.7	22.8	21.0	23.3	21.5	24.4	23.1
17	27.3	25.3	25.7	21.8	24.1	18.7	21.6	18.9	23.7	21.5	23.6	22.6
18	27.2	25.5	24.7	22.3	24.1	20.3	18.9	17.5	23.4	21.8	23.0	21.9
19	27.7	26.0	25.1	22.5	22.9	20.2	18.9	17.7	22.1	21.0	22.8	20.5
20	27.7	26.4	25.6	23.2	21.8	17.8	22.9	18.0	22.8	20.7	23.1	20.8
21	28.0	26.2	25.7	23.9	22.7	17.8	22.6	18.5	23.4	21.3	23.5	22.6
22	27.6	26.5	25.8	24.1	22.9	18.9	22.8	19.8	23.9	22.1	24.4	23.0
23	27.0	25.6	25.7	24.5	23.8	19.8	22.7	19.4	24.4	22.9	25.8	22.5
24	26.5	24.7	25.6	24.2	23.8	20.9	19.4	17.4	24.2	23.1	25.1	22.4
25	26.6	25.2	25.6	24.1	22.9	21.4	21.2	16.8	23.6	23.0	25.9	23.1
26	26.6	25.4	25.2	23.6	22.9	20.8	22.8	17.6	23.6	22.7	25.6	23.1
27	26.4	25.3	24.9	23.4	20.8	18.3	22.6	19.7	23.4	22.9	26.1	23.1
28	25.8	25.1	25.0	23.4	18.3	17.5	22.8	20.7	23.7	22.1	25.4	21.4
29	26.1	25.0	24.7	23.2	21.8	17.1	21.5	19.7	---	---	24.5	21.0
30	26.9	25.1	25.0	23.0	22.5	18.6	21.8	20.0	---	---	24.4	21.5
31	27.1	25.5	---	---	22.6	20.0	22.7	20.2	---	---	25.1	21.7
MONTH	30.2	24.7	27.3	21.8	25.6	17.1	24.3	16.8	24.4	16.4	26.1	18.9
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.3	21.9	25.7	24.6	---	---	---	---	31.7	27.2	31.0	28.4
2	24.3	22.4	26.1	24.7	---	---	30.4	27.3	31.6	28.0	31.4	28.9
3	22.7	20.7	26.0	24.6	---	---	31.0	26.8	31.4	28.1	30.6	29.2
4	23.6	21.3	26.1	24.8	---	---	31.0	26.7	31.7	28.4	29.4	28.3
5	24.7	23.1	25.4	24.5	---	---	31.5	27.3	30.5	28.8	28.9	28.0
6	24.6	23.5	25.5	24.2	---	---	31.3	26.9	31.2	28.9	28.4	27.4
7	24.8	23.5	25.8	24.2	---	---	31.6	27.1	31.7	28.6	28.9	26.9
8	24.8	23.8	26.0	23.9	---	---	31.2	27.5	31.3	29.2	28.9	27.4
9	24.9	23.4	26.7	24.0	---	---	30.2	28.2	31.2	29.4	29.6	27.4
10	25.3	23.3	26.9	24.5	---	---	29.2	27.3	31.4	29.2	30.3	27.8
11	25.5	23.4	27.1	24.8	---	---	30.9	26.1	30.4	28.7	30.3	28.4
12	25.4	23.5	27.3	24.8	---	---	31.5	27.1	32.0	28.7	30.6	28.0
13	25.4	23.6	27.0	24.6	---	---	31.4	27.4	31.8	29.5	30.3	28.4
14	24.9	22.7	27.4	24.8	---	---	30.8	28.0	31.8	29.6	30.0	28.4
15	23.5	21.9	27.4	25.1	---	---	30.9	27.4	31.6	29.0	30.5	28.6
16	22.9	21.4	27.9	25.2	---	---	30.4	28.4	32.1	29.5	30.7	29.0
17	22.1	20.6	27.7	25.7	---	---	30.5	28.2	32.7	30.5	31.0	29.0
18	22.6	20.6	27.6	26.0	---	---	31.1	28.6	32.8	29.5	31.0	29.3
19	23.1	21.4	27.5	25.9	---	---	31.8	28.4	32.7	29.3	30.3	28.8
20	23.7	22.1	27.8	25.9	---	---	31.6	28.4	32.7	30.0	29.3	28.4
21	24.8	22.9	28.1	26.1	---	---	31.7	28.9	32.5	30.1	28.7	27.7
22	25.6	23.7	28.9	26.4	---	---	32.0	29.1	32.5	30.1	28.7	27.8
23	26.3	24.3	28.9	26.8	---	---	32.1	28.7	32.6	30.5	28.8	27.4
24	25.5	24.1	29.4	26.2	---	---	30.2	28.4	32.1	30.2	29.9	27.3
25	25.0	23.2	28.6	26.0	---	---	30.8	29.3	30.5	28.9	29.3	27.5
26	25.5	23.6	27.3	26.0	---	---	31.3	29.5	29.5	27.9	29.6	27.6
27	26.0	24.1	---	---	---	---	31.2	28.6	30.1	28.3	29.4	28.0
28	26.0	23.7	---	---	---	---	31.5	29.1	30.5	28.8	29.4	28.0
29	26.2	24.1	---	---	---	---	31.5	28.1	30.3	29.0	29.7	28.3
30	26.3	24.0	---	---	---	---	31.3	29.2	30.6	28.1	30.0	28.6
31	---	---	---	---	---	---	31.2	27.1	30.3	27.6	---	---
MONTH	26.3	20.6	29.4	23.9	---	---	32.1	26.1	32.8	27.2	31.4	26.9
YEAR	32.8	16.4										

265645080055900 LOXAHATCHEE RIVER AT POMPANO DR. NEAR JUPITER, FL

LOCATION.--Lat 26 56'45", long 80 05'59", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, sec.36, T.40 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, on the Loxahatchee River, Jupiter, 76 mi north of Indiantown road, .49 mi east of State Road 811 Alternate (A1A), 3.6 mi northwest of U.S. Interstate 95.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929, survey levels from a benchmark provided by Palm Beach County.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 4.45 ft Sept. 5, 2004; minimum, -1.60 ft Dec. 12, 2004.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 3.31 ft Sept. 9; minimum, -1.60 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: October 2002 to current year.
WATER TEMPERATURE: October 2002 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: July 11-28, Aug. 14-31, Sept. 18-30, rated good. Temperature record rated good. Elevation of the salinity and temperature sensor is -1.41 ft NGVD. During periods of missing record, values may be higher or lower than the listed extremes recorded.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 37.0 ppt July 24, 2005; minimum recorded, 0.8 ppt, Sept. 7, 2004.
WATER TEMPERATURE: Maximum recorded, 33.6 C Aug. 17, 18, 20, 2005; minimum recorded, 13.5 C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 37.0 ppt July 24; minimum recorded, 0.9 ppt, Sept. 6.
WATER TEMPERATURE: Maximum recorded, 33.6 C Aug. 17, 18, 20; minimum recorded, 16.2 C Jan. 20, 26.

265645080055900 LOXAHATCHEE RIVER AT POMPANO DR. NEAR JUPITER, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.26	-0.26	1.95	-0.37	1.64	-0.64	1.35	-0.72	2.12	0.03	1.56	-0.76
2	2.05	-0.32	1.82	-0.41	1.65	-0.61	1.32	-0.64	2.31	-0.13	1.64	-0.76
3	1.98	-0.34	1.68	-0.41	1.63	-0.54	1.17	-0.84	2.24	0.04	1.63	-0.71
4	2.02	-0.06	1.71	-0.33	1.69	-0.32	1.16	-0.96	2.56	0.46	1.76	-0.82
5	1.87	-0.05	1.75	-0.21	1.38	-0.62	1.39	-1.11	3.07	0.42	1.52	-1.19
6	1.75	0.01	2.14	0.25	1.26	-0.87	1.53	-1.17	3.20	0.37	1.42	-1.11
7	2.08	0.29	2.17	0.08	1.30	-0.99	1.61	-1.17	2.88	0.10	1.73	-1.01
8	2.29	0.38	1.92	-0.25	1.50	-1.18	1.76	-1.32	3.05	-0.01	1.72	-1.05
9	2.43	0.45	2.09	-0.29	1.44	-1.26	1.68	-1.46	2.74	-0.30	1.80	-1.13
10	2.42	0.25	2.60	0.09	1.52	-1.50	1.95	-1.44	2.42	-0.48	1.99	-0.89
11	2.28	0.06	2.74	0.00	1.64	-1.53	2.17	-1.27	2.35	-0.41	1.84	-0.92
12	2.48	-0.02	2.83	-0.30	1.71	-1.60	2.07	-1.12	2.32	-0.17	1.53	-1.16
13	2.61	0.08	2.67	-0.58	1.59	-1.58	2.08	-0.94	2.31	-0.27	1.45	-1.12
14	2.70	-0.14	2.72	-0.71	1.73	-1.50	1.55	-1.05	2.12	-0.55	1.45	-1.26
15	2.93	-0.12	3.01	-0.04	1.95	-1.31	1.86	-0.76	1.70	-0.86	1.27	-1.09
16	2.67	-0.45	2.77	-0.15	2.11	-0.69	2.05	0.06	1.39	-0.64	1.29	-0.83
17	2.45	-0.61	2.53	-0.32	1.87	-0.76	2.23	0.03	1.56	-0.65	1.37	-0.56
18	2.22	-0.67	2.36	-0.24	1.92	-0.50	2.20	-0.08	1.49	-0.49	1.51	-0.30
19	1.97	-0.79	2.16	-0.27	1.82	-0.58	2.16	-0.23	1.64	-0.69	1.78	-0.21
20	1.86	-0.87	2.03	-0.33	1.67	-0.68	1.97	-0.34	1.36	-0.75	1.76	-0.35
21	2.16	-0.60	1.90	-0.50	1.78	-0.83	2.10	-0.41	1.32	-0.90	1.72	-0.33
22	2.65	-0.03	2.08	-0.48	1.74	-0.83	1.81	-0.60	1.15	-1.13	1.79	-0.33
23	2.82	0.38	2.14	-0.41	1.78	-0.70	1.74	-0.76	1.22	-1.17	1.61	-0.63
24	2.96	0.54	2.36	-0.50	1.74	-1.01	2.08	-0.46	1.53	-0.89	1.48	-0.80
25	3.02	0.69	2.08	-0.62	2.08	-0.88	2.22	-0.28	1.64	-0.91	1.72	-0.74
26	3.02	0.51	2.00	-0.98	1.97	-0.45	2.26	-0.27	1.94	-0.48	1.93	-0.65
27	3.05	0.39	2.25	-0.58	2.10	-0.53	1.99	-0.52	2.03	-0.26	2.04	-0.62
28	2.89	0.18	1.97	-0.62	2.17	-0.29	2.24	-0.25	1.99	-0.67	1.98	-0.77
29	2.79	0.04	1.90	-0.70	1.91	-0.39	2.10	-0.08	---	---	1.96	-0.81
30	2.60	-0.05	1.94	-0.60	1.88	-0.54	2.15	0.04	---	---	1.96	-0.97
31	2.34	-0.16	---	---	1.67	-0.51	2.09	-0.03	---	---	1.72	-1.06
MONTH	3.05	-0.87	3.01	-0.98	2.17	-1.60	2.26	-1.46	3.20	-1.17	2.04	-1.26
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.47	-0.99	1.51	-0.95	1.90	-0.60	1.88	-0.69	1.56	-0.98	1.90	-0.55
2	1.57	-1.06	1.63	-0.70	1.89	-0.70	1.84	-0.78	1.69	-0.86	2.02	-0.42
3	1.40	-0.89	1.95	-0.61	1.83	-0.84	1.50	-0.97	1.91	-0.66	2.48	-0.03
4	1.68	-0.89	1.91	-0.62	1.91	-0.81	1.43	-1.14	1.78	-0.77	2.47	0.25
5	1.80	-0.83	1.90	-0.75	1.86	-0.99	1.64	-1.04	1.91	-0.57	2.29	0.19
6	1.86	-0.77	2.25	-0.64	1.92	-0.96	1.67	-0.91	1.87	-0.58	2.60	0.34
7	1.91	-0.83	2.41	-0.48	1.81	-0.90	1.66	-0.89	1.97	-0.35	2.79	0.61
8	2.08	-0.81	2.24	-0.59	1.96	-0.69	1.66	-0.83	1.97	-0.28	3.05	0.64
9	2.08	-0.88	1.98	-0.88	1.93	-0.65	1.66	-0.71	1.96	-0.30	3.31	0.88
10	2.18	-0.77	1.88	-0.87	1.79	-0.60	1.37	-0.82	1.85	-0.36	3.10	0.76
11	2.18	-0.60	1.74	-0.93	1.71	-0.52	1.25	-0.71	1.70	-0.49	2.97	0.58
12	2.19	-0.60	1.64	-0.80	1.60	-0.55	1.30	-0.61	1.62	-0.59	2.91	0.49
13	1.98	-0.68	1.62	-0.55	1.42	-0.44	1.36	-0.64	1.72	-0.72	2.80	0.19
14	1.77	-0.33	1.64	-0.50	1.54	-0.42	1.40	-0.78	1.86	-0.74	3.07	0.13
15	1.94	0.19	1.62	-0.33	1.41	-0.57	1.39	-0.84	1.79	-0.96	3.22	0.12
16	2.14	0.60	1.62	-0.23	1.50	-0.68	1.46	-0.96	1.94	-1.00	3.00	0.06
17	2.33	0.64	1.52	-0.38	1.82	-0.63	1.62	-1.11	2.05	-1.10	2.80	-0.21
18	2.16	0.18	1.44	-0.48	1.91	-0.74	1.68	-1.23	2.08	-1.07	2.75	-0.09
19	1.88	0.08	1.68	-0.56	2.04	-1.01	1.72	-1.34	2.18	-1.03	2.83	-0.07
20	1.81	-0.17	2.08	-0.50	2.13	-1.01	2.00	-1.29	2.16	-0.92	3.17	0.29
21	1.81	-0.42	2.19	-0.64	2.44	-0.94	2.16	-1.17	2.19	-0.72	2.54	-0.28
22	2.01	-0.58	2.49	-0.62	2.47	-0.88	2.16	-1.05	2.20	-0.60	2.38	-0.27
23	1.98	-0.68	2.60	-0.54	2.46	-0.88	2.07	-1.16	2.09	-0.71	2.21	-0.23
24	2.14	-0.81	2.56	-0.73	2.46	-0.80	1.98	-0.81	2.03	-0.66	2.19	-0.22
25	2.07	-0.88	2.57	-0.67	2.48	-0.72	2.08	-0.60	2.61	-0.22	2.21	0.06
26	1.95	-1.00	2.57	-0.54	2.27	-0.52	2.08	-0.59	2.07	-0.29	2.19	0.13
27	1.91	-1.24	2.57	-0.67	2.24	-0.59	1.76	-0.81	2.22	-0.28	2.32	0.23
28	1.65	-1.05	2.28	-0.72	1.82	-0.69	1.45	-1.05	1.91	-0.27	2.33	0.21
29	1.85	-0.93	2.10	-0.58	1.62	-0.88	1.35	-1.11	1.82	-0.51	2.35	0.18
30	1.76	-1.04	2.09	-0.41	1.82	-0.77	1.38	-1.06	1.85	-0.41	2.47	0.24
31	---	---	2.01	-0.52	---	---	1.31	-1.12	1.93	-0.48	---	---
MONTH	2.33	-1.24	2.60	-0.95	2.48	-1.01	2.16	-1.34	2.61	-1.10	3.31	-0.55
YEAR	3.31	-1.60										

265645080055900 LOXAHATCHEE RIVER AT POMPANO DR. NEAR JUPITER, FL—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	34.3	23.5	34.9	24.6	36.0	29.4	35.2	30.5	35.7	30.8
2	---	---	34.0	19.0	35.1	25.5	36.4	30.9	34.4	30.1	35.8	31.6
3	---	---	33.7	15.7	35.2	27.3	35.8	25.7	34.5	31.2	35.6	31.6
4	---	---	34.0	20.7	35.1	28.0	35.7	26.3	34.8	32.1	35.4	30.0
5	31.5	2.1	34.5	17.4	34.5	27.8	35.8	22.5	34.2	31.5	35.5	29.8
6	29.8	7.2	34.7	21.1	35.2	29.8	35.7	27.0	33.6	30.9	35.1	30.0
7	27.5	2.3	33.8	24.9	35.2	25.6	35.7	29.1	34.5	30.6	35.7	30.0
8	28.5	6.2	34.8	25.6	35.0	26.0	35.7	28.7	34.9	30.8	35.9	32.6
9	28.8	11.5	32.1	26.7	35.3	29.3	35.8	28.7	34.6	30.3	35.9	30.2
10	31.4	13.7	32.6	28.6	35.3	27.9	35.7	29.2	34.8	31.8	35.2	28.6
11	32.9	13.1	33.7	28.6	35.3	29.5	35.8	31.7	34.8	32.2	35.5	29.1
12	33.7	12.1	35.1	26.4	35.4	29.9	35.8	32.4	34.2	31.5	35.5	29.2
13	34.1	16.0	35.3	22.8	35.3	29.9	35.8	33.5	34.4	31.6	35.5	28.9
14	34.4	19.3	35.1	26.3	35.7	31.1	35.8	30.1	34.6	31.0	35.6	27.7
15	34.5	19.5	35.0	27.8	35.8	30.7	35.5	28.8	34.6	29.1	35.5	26.6
16	34.4	19.0	35.1	25.9	35.6	31.5	35.4	30.4	34.6	29.2	35.7	31.2
17	33.4	17.6	35.0	24.5	35.6	30.6	35.1	30.4	34.4	28.9	35.5	25.7
18	34.0	21.1	34.9	24.9	35.9	30.4	34.7	30.0	34.4	29.8	35.3	23.3
19	33.8	14.8	34.7	24.9	35.7	31.5	34.9	28.7	34.2	30.4	35.4	24.2
20	33.8	15.6	35.2	27.0	35.5	30.9	35.1	28.9	33.8	30.8	34.9	24.9
21	33.8	16.7	35.3	26.2	35.5	31.1	35.5	29.8	34.3	30.3	35.2	26.4
22	32.7	19.0	35.2	25.0	35.8	31.8	35.7	30.1	34.3	29.6	35.0	26.2
23	32.0	21.3	35.3	27.3	35.9	28.1	35.8	32.3	34.2	30.6	35.2	20.1
24	32.8	21.1	35.2	31.1	35.7	27.7	35.4	32.1	34.2	30.3	35.6	18.8
25	33.8	22.8	35.0	29.0	35.6	29.3	35.4	31.7	34.1	29.2	35.4	24.1
26	33.7	21.5	35.1	27.7	35.8	32.4	35.7	30.6	34.1	30.7	35.9	26.2
27	33.5	22.8	35.2	31.0	35.4	30.6	35.4	31.5	34.0	32.0	35.8	26.8
28	33.4	22.2	35.2	28.4	35.2	29.8	35.2	31.6	34.0	30.9	35.8	24.7
29	32.9	21.9	35.0	27.7	35.7	31.3	35.1	33.4	---	---	35.8	26.3
30	33.8	22.3	34.8	28.8	35.8	29.5	35.0	30.8	---	---	35.6	25.8
31	34.0	22.3	---	---	36.1	30.8	35.2	31.4	---	---	35.7	26.7
MONTH	34.5	2.1	35.3	15.7	36.1	24.6	36.4	22.5	35.2	28.9	35.9	18.8
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	35.7	27.6	36.4	29.8	36.1	27.4	35.0	5.8	36.2	20.2	34.6	19.1
2	35.4	24.5	36.3	29.8	36.1	27.7	35.3	6.4	36.4	20.5	34.5	18.4
3	35.6	25.3	36.4	30.1	35.6	25.9	35.6	8.9	36.4	20.7	34.9	15.9
4	35.3	26.4	36.1	30.1	35.7	15.9	35.6	9.0	36.2	24.1	34.5	13.5
5	35.6	26.6	36.3	30.1	35.6	19.2	36.1	12.6	35.8	17.6	33.0	5.8
6	35.7	31.9	36.4	28.4	35.8	16.5	36.1	14.9	35.3	16.4	33.6	0.9
7	35.6	31.7	35.9	28.5	35.8	15.3	36.2	15.3	35.7	16.0	34.4	5.7
8	35.3	25.2	36.0	28.1	35.4	14.4	36.0	18.5	35.1	18.4	35.0	12.2
9	35.8	26.5	36.1	24.9	35.4	19.7	35.2	16.9	35.3	18.6	35.2	13.8
10	35.8	26.8	36.2	25.1	34.9	18.0	34.6	5.9	35.5	17.4	35.2	18.4
11	35.2	26.6	36.3	24.1	34.5	8.6	35.0	5.1	35.6	15.1	34.4	15.9
12	35.4	26.7	36.4	26.9	33.9	7.8	35.7	7.4	35.6	15.3	35.0	15.4
13	35.2	24.8	36.0	27.9	34.4	8.5	35.9	9.2	35.8	16.7	35.3	16.0
14	35.2	25.4	35.7	29.8	33.8	11.6	35.9	14.2	36.2	16.8	35.9	19.6
15	35.6	27.5	35.8	22.6	34.6	12.3	36.0	14.6	36.0	17.1	35.4	18.9
16	34.8	27.7	35.4	26.1	34.8	14.8	36.3	16.7	36.0	21.7	36.2	23.1
17	35.0	26.3	35.5	26.7	35.0	16.5	36.8	17.1	36.4	21.9	36.3	19.8
18	34.8	26.2	35.3	18.9	35.3	18.7	36.8	19.3	36.6	23.8	36.4	23.0
19	35.5	28.5	35.2	21.6	35.8	21.3	36.9	19.3	36.5	22.6	35.6	20.9
20	35.6	29.8	35.9	27.3	35.9	23.3	36.8	19.8	36.4	22.2	35.6	21.1
21	36.2	27.4	36.0	26.8	35.7	24.8	36.7	19.2	36.2	24.1	36.1	20.5
22	36.3	28.0	36.0	28.3	35.7	23.6	36.9	22.8	36.2	25.5	35.5	19.0
23	36.5	30.6	35.8	30.2	35.9	19.1	36.9	24.9	36.1	24.2	35.4	14.5
24	36.5	31.1	36.0	30.9	35.4	20.3	37.0	26.4	35.7	23.2	35.0	12.4
25	36.3	31.4	36.0	30.8	35.7	21.9	35.1	24.8	35.3	23.0	34.1	13.3
26	36.6	31.2	35.9	29.4	35.9	16.1	35.0	23.4	34.9	25.0	35.4	10.5
27	36.5	31.5	36.0	30.7	35.5	15.2	36.0	22.9	34.8	22.6	36.1	17.2
28	36.5	30.6	36.2	32.0	34.9	17.2	35.9	23.6	34.6	18.9	34.8	21.5
29	36.2	29.4	36.3	32.2	35.0	8.1	35.6	24.9	35.0	17.6	36.3	19.6
30	36.5	34.0	36.4	31.7	34.5	8.5	35.8	23.7	34.5	15.5	35.8	21.7
31	---	---	36.4	31.2	---	---	36.3	26.5	35.3	17.0	---	---
MONTH	36.6	24.5	36.4	18.9	36.1	7.8	37.0	5.1	36.6	15.1	36.4	0.9
YEAR	37.0	0.9										

265645080055900 LOXAHATCHEE RIVER AT POMPANO DR. NEAR JUPITER, FL—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	27.2	25.5	25.0	22.2	22.7	19.3	21.3	19.0	22.4	20.6
2	---	---	27.3	24.9	25.4	22.4	22.6	20.0	21.6	19.7	21.9	19.2
3	---	---	27.4	25.1	25.3	22.1	22.5	19.8	21.4	20.6	21.0	18.8
4	---	---	27.5	25.7	24.1	20.9	23.1	20.3	21.5	18.8	20.6	18.4
5	28.9	27.9	26.7	25.1	24.2	21.0	23.4	21.4	18.9	17.0	21.1	17.6
6	28.7	27.4	26.3	23.7	24.7	22.3	24.1	22.3	18.4	16.4	21.5	18.4
7	28.0	26.6	25.9	23.2	25.0	23.3	24.6	22.9	21.6	17.6	22.8	20.2
8	27.5	25.6	25.8	22.9	25.5	23.5	24.6	22.7	23.3	18.9	22.2	20.5
9	27.4	26.4	25.2	23.1	26.3	24.7	24.7	22.8	23.2	19.8	21.2	18.8
10	28.2	26.5	24.3	22.8	25.6	24.5	24.5	22.6	23.0	21.3	20.4	18.0
11	27.6	26.8	24.8	22.8	24.6	21.6	23.9	22.6	21.3	18.6	21.0	18.6
12	27.6	26.5	25.4	22.9	22.4	19.7	24.0	22.4	20.8	17.1	21.4	19.1
13	28.5	26.6	26.2	23.3	22.4	19.0	24.2	22.8	21.5	17.5	22.6	18.8
14	28.4	26.7	26.2	24.3	22.8	19.9	23.9	22.9	22.0	18.3	23.6	20.1
15	28.5	27.0	24.4	22.2	21.1	17.1	23.3	21.9	23.2	19.3	24.9	21.7
16	27.4	24.6	23.8	20.8	21.4	17.1	22.9	20.0	23.4	20.1	24.9	23.3
17	27.7	25.1	25.1	20.3	22.7	17.6	21.1	18.1	24.0	20.8	23.8	22.5
18	27.3	25.4	24.6	21.2	23.8	18.8	18.5	16.6	23.2	21.4	23.3	21.3
19	27.7	25.7	24.8	21.2	22.7	19.5	18.7	16.8	22.5	20.3	23.1	19.9
20	27.8	25.8	25.4	22.8	21.2	17.2	21.6	16.2	22.7	20.6	23.4	21.6
21	28.1	26.2	25.3	23.1	21.4	16.4	21.7	18.0	23.9	20.9	23.9	22.6
22	27.5	26.5	25.5	24.0	21.8	18.3	22.4	18.8	24.5	21.6	24.8	23.0
23	27.2	25.7	25.9	24.1	22.8	19.9	22.1	18.5	24.7	22.6	26.1	22.8
24	27.1	25.2	25.4	24.5	23.4	20.5	18.6	16.8	24.3	22.7	25.4	22.6
25	27.4	25.6	25.6	23.6	23.0	21.1	20.5	16.3	23.7	22.7	25.9	23.3
26	26.9	25.5	24.5	22.8	22.6	19.5	22.1	16.2	23.6	22.3	26.1	23.5
27	26.7	25.2	24.4	22.9	19.9	17.9	22.4	18.3	23.4	22.8	26.8	23.3
28	26.0	24.6	24.7	22.8	18.1	17.4	22.3	19.8	23.8	22.0	25.2	21.7
29	26.4	24.5	24.6	22.3	21.0	16.7	21.2	19.3	---	---	24.7	21.4
30	26.8	24.6	24.0	22.3	21.8	17.8	21.7	18.8	---	---	25.2	21.4
31	27.6	24.9	---	---	22.5	19.3	22.4	19.4	---	---	24.9	22.2
MONTH	28.9	24.5	27.5	20.3	26.3	16.4	24.7	16.2	24.7	16.4	26.8	17.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.8	22.2	25.9	24.4	27.3	26.2	30.9	28.2	33.1	28.0	31.8	28.5
2	24.0	21.9	26.6	24.6	26.8	26.0	31.8	27.8	32.0	28.1	32.5	29.0
3	23.0	19.5	26.7	24.8	27.0	26.0	31.2	27.3	31.9	28.6	30.5	29.1
4	24.1	21.1	26.0	24.9	26.8	26.1	31.8	27.0	32.1	28.6	29.6	28.8
5	25.7	22.9	25.6	24.5	28.3	26.1	32.6	27.5	30.2	28.8	28.9	27.6
6	25.5	23.4	26.2	24.1	29.4	26.6	32.3	27.2	31.6	28.5	28.5	26.8
7	25.4	23.4	26.5	23.6	28.0	26.7	32.5	27.4	31.2	28.7	28.6	26.7
8	25.3	23.7	26.8	23.6	29.7	26.9	31.0	28.0	31.2	29.0	28.8	27.3
9	25.4	22.9	27.4	24.0	28.7	27.3	30.1	28.3	31.1	29.4	28.8	27.4
10	26.0	22.9	27.6	24.6	27.4	26.8	29.6	27.5	31.1	29.4	29.6	27.8
11	26.0	22.6	27.4	24.8	27.8	26.4	30.9	27.3	30.2	29.2	29.8	28.8
12	25.6	23.5	27.7	25.1	28.4	26.9	30.7	27.5	31.3	29.0	29.6	28.8
13	25.7	23.7	27.1	24.8	29.7	26.8	31.2	27.8	31.5	29.6	30.6	29.1
14	25.1	22.2	27.3	24.7	30.0	27.3	30.5	28.6	31.8	29.9	31.1	28.7
15	23.8	22.0	26.9	25.1	30.2	27.9	31.0	27.9	32.4	29.5	31.3	28.8
16	23.1	21.1	27.8	25.5	31.4	28.3	30.7	28.8	33.0	29.8	31.5	29.0
17	22.3	20.0	28.1	25.9	31.4	28.1	31.4	28.6	33.6	30.7	31.7	29.0
18	22.8	20.4	28.3	26.0	32.0	28.2	32.1	28.9	33.6	29.7	31.9	29.4
19	23.7	21.4	28.3	26.0	32.2	27.6	33.3	29.0	33.5	29.6	30.4	28.8
20	24.4	22.1	28.8	26.0	29.5	27.1	32.5	28.7	33.6	30.0	29.2	28.2
21	25.8	22.8	29.1	26.2	28.6	26.8	32.8	29.1	33.1	30.1	28.7	27.7
22	26.5	23.4	29.9	26.6	28.1	27.2	33.0	29.4	33.3	30.4	28.6	27.7
23	26.8	24.3	29.7	26.8	29.9	27.0	32.5	29.0	32.7	30.4	28.7	27.6
24	25.9	23.7	29.9	26.4	29.7	27.0	30.1	28.8	32.1	30.4	29.4	27.4
25	25.5	22.4	28.7	25.8	29.8	27.7	31.3	28.7	30.4	28.5	29.4	27.5
26	25.8	23.0	27.4	25.9	28.9	27.5	32.0	29.3	29.6	27.5	29.6	28.3
27	26.0	24.1	28.2	26.0	28.8	27.4	31.4	29.0	30.0	28.6	29.8	28.8
28	26.6	23.8	29.4	26.3	29.8	27.7	31.6	29.2	30.3	29.1	30.0	28.5
29	26.2	23.3	29.3	26.3	29.4	27.7	31.8	28.6	31.1	29.4	30.1	28.6
30	26.4	23.9	29.1	26.8	30.6	27.7	32.5	29.6	31.9	28.4	30.1	28.8
31	---	---	28.4	26.2	---	---	31.8	28.5	31.8	27.8	---	---
MONTH	26.8	19.5	29.9	23.6	32.2	26.0	33.3	27.0	33.6	27.5	32.5	26.7
YEAR	33.6	16.2										

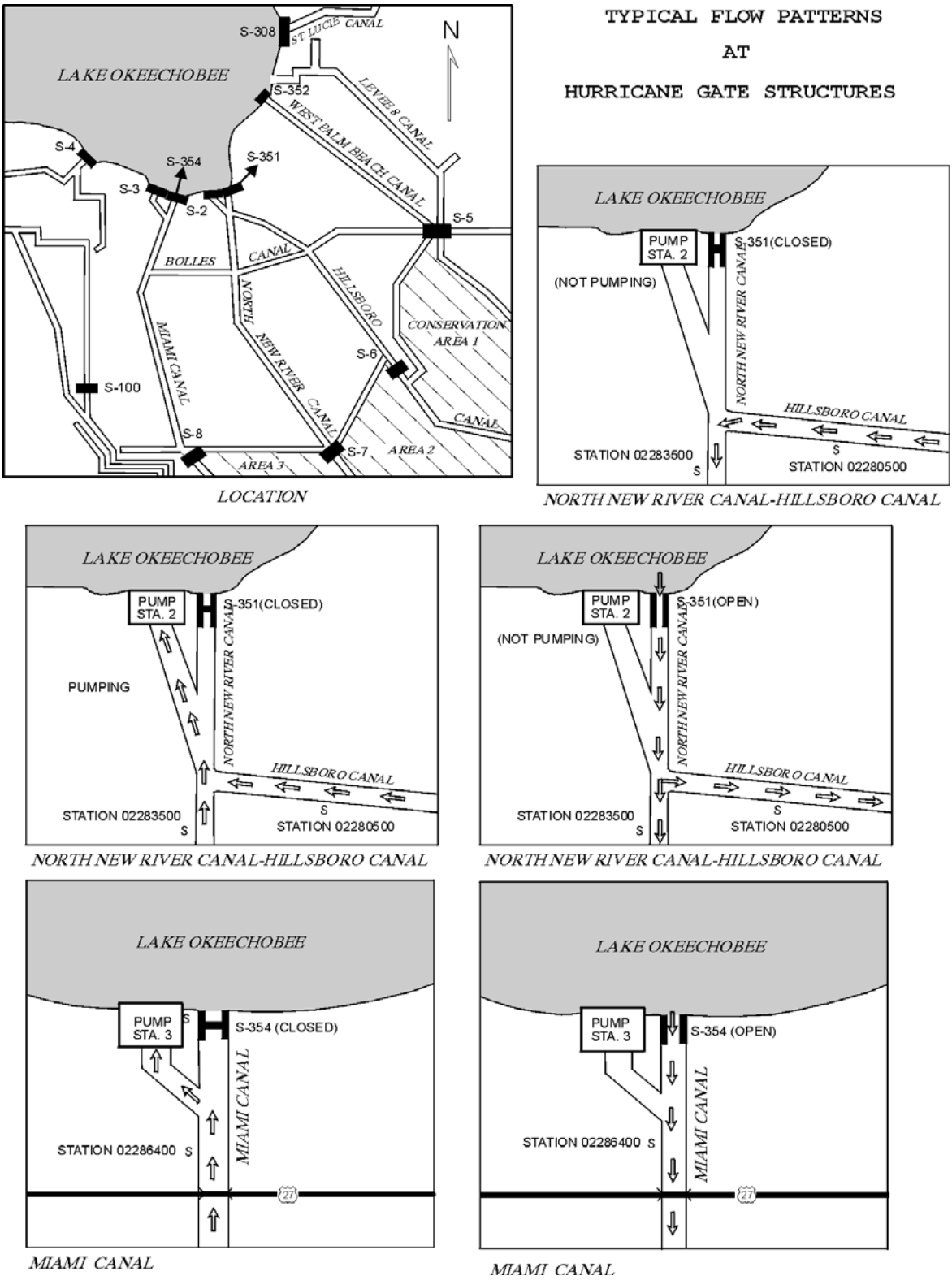


Figure 18. Typical flow patterns at Lake Okeechobee Control Structure.

02278000 WEST PALM BEACH CANAL AT S-352, AT CANAL POINT, FL

LOCATION.--Lat 26 51'05", long 80 37'55", in NE 1/4 sec.33, T.41 S., R.37 E., Palm Beach County, Hydrologic Unit 03090202, in the instrumentation house of gate structure 352 at Lake Okeechobee, 200 ft upstream from bridge on U.S. Highway 441 at Canal Point.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1940 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to January 14, 1954, nonrecording lake gage at site 550 ft downstream at same datum. January 14, 1954 to February 24, 1956, lake water-stage recorder, and February 25, 1956, to September 30, 1967, canal water-stage and deflection vane recorders all at present site and datum. May 1940, auxiliary water-stage recorder at old lock, 700 ft downstream from gate structures replaced on May 1, 1995, by data collection platform at structure. August 1986 to December 1989, electromagnetic velocity meter. Digital water-stage recorder removed and satellite data collection platform installed January 14, 1992.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated at station by operation of gates. Flow was occasionally reversed after periods of considerable rainfall because of downstream natural drainage and pumpage from agricultural lands in the Everglades (negative figures indicate flow reversed), since vertical lift gates replaced HGS-5, reverse flow is not expected. Discharge computed from relations between discharge, head, and gate openings at gate structure S-352. Discharge and lake gage height formerly published as West Palm Beach Canal at HGS-5, at Canal Point. Canal gage height prior to 1997 water year, formerly published as West Palm Beach Canal below S-352, at Canal Point under 02278002.

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

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 61 complete water years of discharge (1941-89, 1992-97, 1999-2000, 2002-2005).

EXTREME LAKE STAGES FOR PERIOD OF RECORD.--Maximum gage height, 20.84 ft Sept. 25, 2004; minimum observed, 8.33 ft May 22, 2001.

EXTREME LAKE STAGES FOR CURRENT YEAR.--Maximum gage height, 18.40 ft Oct. 15; minimum, 13.26 ft May 25.

EXTREME CANAL STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.70 ft Oct. 12, 1947; minimum, 5.80 ft Sept. 5, 2004.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 12.64 ft June 4; minimum, 8.64 ft Oct.15.

LAKE
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	17.00	16.12	15.57	15.26	15.08	15.44	14.66	14.02	15.98	16.15	15.76
2	---	16.96	16.10	15.56	15.24	14.95	15.66	14.69	14.18	16.09	16.13	15.82
3	---	16.93	16.09	15.58	15.21	14.85	15.64	14.61	14.31	16.14	16.12	15.82
4	---	16.90	16.04	15.57	15.26	14.89	15.53	14.69	14.50	16.17	16.13	15.76
5	---	16.90	16.05	15.56	15.27	14.92	15.45	14.70	14.60	16.19	16.19	15.81
6	---	16.85	16.00	15.56	15.15	14.93	15.40	14.76	14.71	16.21	16.18	15.91
7	17.87	16.77	15.97	15.55	15.12	14.87	15.41	14.66	14.83	16.22	16.20	15.94
8	17.93	16.71	15.96	15.56	15.10	14.95	15.58	14.58	14.88	16.13	16.18	16.01
9	17.97	16.64	15.93	15.54	15.06	15.00	15.57	14.56	14.86	16.00	16.15	15.97
10	17.97	16.46	15.95	15.52	15.16	15.09	15.50	14.53	14.76	16.25	16.14	15.84
11	17.97	16.44	16.12	15.48	15.19	15.06	15.40	14.46	14.99	16.45	16.11	15.81
12	17.97	16.44	15.94	15.45	15.01	15.07	15.40	14.40	15.13	16.52	16.08	15.81
13	18.02	16.42	15.87	15.38	14.91	15.03	15.50	14.34	15.20	16.56	16.07	15.83
14	17.96	16.37	15.92	15.48	14.88	15.01	15.53	14.32	15.23	16.59	16.05	15.79
15	17.95	16.32	15.96	15.62	14.87	15.01	15.46	14.28	15.27	16.57	16.03	15.76
16	17.89	16.35	15.70	15.72	14.86	15.00	15.41	14.29	15.30	16.58	15.97	15.71
17	17.75	16.35	15.66	15.69	14.89	15.18	15.40	14.26	15.34	16.57	15.94	15.66
18	17.67	16.30	15.63	15.62	14.85	15.49	15.25	14.23	15.37	16.57	15.90	15.62
19	17.65	16.27	15.72	15.53	14.75	15.44	15.08	14.17	15.36	16.56	15.86	15.55
20	17.62	16.26	15.70	15.53	14.68	15.41	15.04	14.12	15.37	16.57	15.80	15.38
21	17.62	16.25	15.53	15.49	14.71	15.42	15.01	14.14	15.40	16.55	15.76	15.43
22	17.56	16.23	15.48	15.45	14.73	15.43	14.95	14.06	15.45	16.55	15.71	15.46
23	17.50	16.19	15.52	15.51	14.69	15.54	14.97	13.99	15.47	16.56	15.67	15.50
24	17.46	16.17	15.57	15.54	14.69	15.53	15.05	14.02	15.52	16.54	15.67	15.48
25	17.41	16.29	15.59	15.39	14.79	15.53	14.87	13.98	15.57	16.45	15.65	15.48
26	17.35	16.25	15.90	15.39	14.82	15.51	14.78	13.93	15.57	16.40	15.45	15.48
27	17.27	16.15	15.73	15.37	14.86	15.53	14.89	14.03	15.64	16.35	15.63	15.48
28	17.22	16.19	15.62	15.29	15.00	15.72	14.85	14.07	15.73	16.30	15.67	15.47
29	17.18	16.16	15.59	15.26	---	15.63	14.69	14.01	15.79	16.21	15.69	15.49
30	17.13	16.12	15.58	15.31	---	15.51	14.60	13.92	15.88	16.18	15.70	15.43
31	17.06	---	15.56	15.30	---	15.45	---	13.93	---	16.17	15.74	---
TOTAL	---	493.64	490.10	480.37	419.01	472.03	457.31	443.39	454.23	507.18	493.72	470.26
MEAN	---	16.45	15.81	15.50	14.96	15.23	15.24	14.30	15.14	16.36	15.93	15.68
MAX	---	17.00	16.12	15.72	15.27	15.72	15.66	14.76	15.88	16.59	16.20	16.01
MIN	---	16.12	15.48	15.26	14.68	14.85	14.60	13.92	14.02	15.98	15.45	15.38

02278000 WEST PALM BEACH CANAL AT S-352, AT CANAL POINT, FL—Continued

CANAL
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.98	10.71	10.42	10.98	10.77	9.66	10.22	11.83	11.22	9.69	11.52	10.60
2	10.94	10.71	10.71	10.85	10.69	10.08	10.21	11.64	11.15	9.56	11.02	10.17
3	9.85	10.78	10.77	10.83	10.78	10.45	10.25	11.38	11.43	10.66	9.99	9.72
4	9.94	10.90	10.93	11.04	11.28	10.25	10.17	11.15	11.99	11.11	9.33	10.16
5	9.86	10.70	10.86	11.05	11.21	9.54	10.21	11.37	12.10	11.09	9.46	9.95
6	10.50	10.92	10.62	10.99	11.27	9.98	10.36	10.58	11.08	10.53	9.90	10.18
7	10.39	10.67	10.71	11.03	11.21	10.43	10.39	10.57	9.98	9.87	9.93	9.90
8	9.73	9.95	11.35	11.02	10.77	10.33	10.01	9.89	9.88	9.63	9.83	9.38
9	9.69	10.38	11.34	11.08	10.66	10.49	9.84	9.92	10.43	9.60	9.89	9.68
10	10.91	10.74	11.21	10.99	10.54	11.39	10.20	10.02	11.17	9.33	9.65	10.02
11	10.50	10.86	11.30	11.01	11.10	10.32	10.52	10.55	11.28	9.72	10.03	10.16
12	10.01	10.92	11.31	11.07	11.35	10.75	10.75	10.89	9.23	9.63	10.47	10.02
13	9.64	10.95	11.07	11.16	11.15	9.54	10.76	10.79	9.42	9.91	10.67	10.04
14	9.69	10.86	10.80	11.03	11.10	9.57	10.78	10.77	10.29	10.15	10.75	10.41
15	9.68	10.87	10.79	11.55	11.21	10.36	10.87	10.74	10.78	9.82	10.66	10.37
16	9.89	10.58	11.08	10.82	11.21	10.37	10.79	10.68	11.02	9.96	10.40	10.20
17	10.0	10.64	11.26	10.10	11.22	10.40	10.66	10.77	11.16	10.51	10.09	10.15
18	10.06	10.56	11.10	10.20	11.38	11.36	10.77	10.54	11.04	10.17	10.13	10.01
19	10.03	10.66	11.36	10.42	11.12	10.70	11.22	10.42	10.64	9.40	10.23	10.02
20	10.42	10.66	11.23	10.34	11.21	9.85	11.38	10.68	10.70	9.25	10.08	9.86
21	10.66	10.81	11.28	10.32	11.39	9.90	11.57	10.79	9.38	9.44	10.41	9.64
22	10.04	10.85	10.86	10.82	11.27	11.05	11.81	10.81	9.27	9.50	10.42	10.06
23	10.04	10.43	10.76	10.85	11.35	10.49	11.82	11.27	9.48	9.88	10.52	10.16
24	10.18	10.77	10.65	10.83	11.10	10.0	11.79	11.59	9.52	10.07	10.09	10.01
25	10.35	10.67	10.65	10.97	10.90	9.98	11.85	11.60	9.74	10.27	9.25	9.73
26	10.12	10.57	10.97	10.95	10.84	9.89	11.68	11.27	9.58	10.22	9.50	9.58
27	10.18	10.78	11.23	10.57	10.81	10.29	11.05	11.40	10.29	10.04	10.84	9.60
28	10.70	10.70	11.13	10.84	10.60	10.25	11.25	10.91	10.05	10.13	10.56	9.42
29	10.68	10.71	11.01	10.72	---	9.99	11.76	9.64	10.25	10.57	9.87	9.66
30	10.88	10.59	11.15	10.71	---	9.83	11.81	9.89	10.03	10.84	9.49	9.42
31	10.84	---	11.13	10.68	---	10.29	---	10.86	---	10.69	9.99	---
TOTAL	318.38	320.90	341.04	335.82	309.49	317.78	326.75	335.21	313.58	311.24	314.97	298.28
MEAN	10.27	10.70	11.00	10.83	11.05	10.25	10.89	10.81	10.45	10.04	10.16	9.94
MAX	11.98	10.95	11.36	11.55	11.39	11.39	11.85	11.83	12.10	11.11	11.52	10.60
MIN	9.64	9.95	10.42	10.10	10.54	9.54	9.84	9.64	9.23	9.25	9.25	9.38

02278000 WEST PALM BEACH CANAL AT S-352, AT CANAL POINT, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	233	439	104	297	0.00	111	776	0.00	0.00	0.00	0.00
2	0.00	395	618	178	339	0.00	87	640	0.00	0.00	307	0.00
3	0.00	500	676	267	390	0.00	0.00	405	0.00	0.00	172	0.00
4	0.00	557	498	441	513	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	542	149	345	392	0.00	131	0.00	0.00	0.00	0.00	0.00
6	0.00	407	210	334	365	0.00	206	0.00	0.00	0.00	0.00	0.00
7	0.00	102	436	354	220	0.00	297	0.00	0.00	0.00	0.00	0.00
8	0.00	230	672	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	316	632	287	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	535	590	300	17	0.00	0.00	125	0.00	0.00	0.00	0.00
11	0.00	644	681	355	522	0.00	448	560	0.00	0.00	0.00	0.00
12	0.00	796	627	329	438	0.00	588	581	0.00	0.00	0.00	0.00
13	0.00	718	336	168	231	0.00	508	510	0.00	0.00	0.00	327
14	0.00	185	428	0.00	389	0.00	437	514	0.00	0.00	0.00	299
15	0.00	0.00	533	0.00	510	0.00	579	593	0.00	0.00	0.00	243
16	0.00	319	690	0.00	489	0.00	380	555	0.00	0.00	0.00	185
17	0.00	206	684	0.00	473	0.00	329	608	0.00	0.00	131	108
18	0.00	86	724	0.00	446	0.00	599	474	0.00	0.00	259	178
19	177	246	409	0.00	489	0.00	795	592	0.00	0.00	0.00	60
20	294	320	517	0.00	508	0.00	779	735	0.00	0.00	166	0.00
21	90	295	516	104	447	0.00	829	644	0.00	0.00	240	0.00
22	0.00	190	445	469	347	0.00	894	652	0.00	238	0.00	0.00
23	0.00	272	209	386	406	0.00	893	848	0.00	458	0.00	0.00
24	0.00	178	76	486	166	0.00	869	961	0.00	479	0.00	0.00
25	0.00	5.9	0.00	538	0.00	0.00	856	917	0.00	441	0.00	0.00
26	0.00	144	0.00	220	0.00	0.00	781	388	0.00	135	0.00	213
27	290	284	0.00	131	0.00	0.00	285	0.00	0.00	369	0.00	122
28	568	135	0.00	336	0.00	0.00	422	0.00	0.00	491	0.00	0.00
29	425	153	96	94	---	0.00	774	0.00	0.00	614	0.00	0.00
30	351	313	267	80	---	135	824	362	0.00	412	0.00	0.00
31	229	---	126	279	---	329	---	79	---	105	0.00	---
TOTAL	2,424.00	9,306.90	12,284.00	6,905.00	8,394.00	464.00	13,701.00	12,519.00	0.00	3,742.00	1,275.00	1,735.00
MEAN	78.2	310	396	223	300	15.0	457	404	0.00	121	41.1	57.8
MAX	568	796	724	538	522	329	894	961	0.00	614	307	327
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	4,810	18,460	24,370	13,700	16,650	920	27,180	24,830	0.00	7,420	2,530	3,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	92.1	172	223	217	220	229	323	308	98.1	37.5	85.7	21.6
MAX	803	507	739	1,007	637	610	840	743	703	706	1,156	1,183
(WY)	(2003)	(2003)	(2003)	(2003)	(1949)	(1949)	(1999)	(1965)	(1998)	(1992)	(1959)	(1959)
MIN	-350	-247	-77.0	-13.6	-80.6	-21.2	-99.6	-170	-1,130	-939	-528	-813
(WY)	(1951)	(1964)	(1964)	(1941)	(1941)	(1982)	(1962)	(1976)	(1942)	(1947)	(1953)	(1945)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	89,079.80		72,749.90			
ANNUAL MEAN	243		199		171	
HIGHEST ANNUAL MEAN					376	2003
LOWEST ANNUAL MEAN					-20.8	1962
HIGHEST DAILY MEAN	1,180	May 26	961	May 24	1,610	Oct 2, 1959
LOWEST DAILY MEAN	0.00	Jan 28	0.00	Oct 1	-1,760	Jun 15, 1942
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 31	0.00	Oct 1	-1,640	Jun 11, 1942
ANNUAL RUNOFF (AC-FT)	176,700		144,300		124,000	
10 PERCENT EXCEEDS	682		589		557	
50 PERCENT EXCEEDS	115		17		63	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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.

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

LOCATION.--Lat 26 55'01", long 80 36'49", in SE $^{1}/_{4}$ sec.10, T.41S., R.37 E., Palm Beach County, Hydrologic Unit 03090202, on west side of U.S. Highway 441 bridge, 3.6 mi northeast of Canal Point, and 4.8 mi south of Port Mayaca, at Sand Cut.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow regulated by gated structure at Lake Okeechobee. Flow reverses during and after periods of heavy rainfall because of pumpage into the canal from agricultural lands in the Everglades (negative figures indicate flow towards Lake Okeechobee).

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 19 complete water years of discharge (1977-89, 1995, 1997-99, 2002, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.39 ft Oct. 19, 1995; minimum, 8.57 ft May 21, 2001 (estimated).

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 18.24 ft Oct. 1; minimum, 13.07 ft Aug.28.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.18	15.03	16.02	15.60	15.18	15.09	15.34	14.74	14.05	16.14	15.97	15.74
2	18.12	15.03	16.00	15.57	15.17	14.89	15.53	14.73	14.24	16.18	16.02	15.81
3	18.04	14.95	16.00	15.53	15.17	14.78	15.47	14.63	14.46	16.23	15.99	15.81
4	18.01	14.92	15.93	15.54	15.16	14.89	15.39	14.74	14.75	16.25	15.98	15.74
5	17.96	14.84	15.88	15.47	15.12	14.86	15.34	14.80	14.82	16.27	16.06	15.81
6	17.78	14.78	15.86	15.49	15.07	14.84	15.29	14.79	14.87	16.28	16.05	15.91
7	17.87	14.72	15.85	15.46	15.06	14.84	15.32	14.67	14.99	16.28	16.06	15.99
8	17.50	14.89	15.84	15.54	15.06	14.93	15.47	14.60	14.99	16.13	16.06	16.06
9	16.85	15.09	15.82	15.57	15.10	14.92	15.46	14.58	14.93	15.85	16.03	16.00
10	16.07	14.73	15.85	15.54	15.16	15.07	15.33	14.56	14.86	15.31	16.07	15.85
11	15.86	14.41	15.97	15.49	15.14	15.06	15.32	14.48	15.09	14.81	16.04	15.81
12	15.85	14.33	15.81	15.43	14.99	15.07	15.35	14.41	15.22	14.81	15.97	15.81
13	15.55	14.98	15.77	15.41	14.93	15.03	15.42	14.34	15.27	15.42	15.94	15.82
14	16.05	15.81	15.81	15.50	14.91	14.94	15.44	14.33	15.28	15.59	15.91	15.77
15	15.96	15.98	15.71	15.65	14.89	14.99	15.33	14.31	15.30	---	15.89	15.68
16	15.82	15.95	15.60	15.74	14.90	14.99	15.23	14.29	15.31	15.66	15.87	15.62
17	15.72	16.23	15.58	15.68	14.89	15.17	15.20	14.29	15.37	15.46	15.95	15.53
18	15.94	16.21	15.66	15.59	14.85	15.48	15.17	14.24	15.37	15.34	15.82	15.52
19	16.19	16.16	15.65	15.57	14.75	15.42	15.10	14.20	15.36	15.28	15.76	15.45
20	16.12	16.15	15.61	15.57	14.70	15.37	15.03	14.18	15.40	16.09	15.72	15.31
21	16.11	16.13	15.48	15.55	14.76	15.41	15.02	14.18	15.43	16.35	15.66	15.34
22	15.99	16.11	15.44	15.51	14.75	15.43	15.01	14.10	15.43	16.35	15.63	15.38
23	15.58	16.11	15.44	15.50	14.70	15.52	15.04	14.06	15.42	16.38	15.59	15.42
24	14.66	16.08	15.47	15.47	14.70	15.48	15.05	14.12	15.49	16.39	15.22	15.40
25	14.11	16.15	15.59	15.27	14.82	15.44	14.92	14.05	15.57	16.32	14.36	15.38
26	14.89	16.09	15.90	15.29	14.84	15.39	14.86	13.98	15.60	16.26	13.97	15.37
27	15.19	16.03	15.71	15.28	14.94	15.45	14.88	14.07	15.71	16.18	13.54	15.38
28	15.18	16.06	15.59	15.21	15.06	15.64	14.83	14.11	15.81	16.16	13.90	15.39
29	15.21	16.02	15.56	15.18	---	15.61	14.75	14.01	15.88	16.11	14.78	15.47
30	15.14	16.01	15.53	15.24	---	15.45	14.70	13.95	16.00	16.01	15.49	15.41
31	15.03	---	15.55	15.22	---	15.37	---	13.95	---	15.96	15.61	---
TOTAL	502.53	465.98	487.48	479.66	418.77	470.82	455.59	444.49	456.27	---	482.91	468.98
MEAN	16.21	15.53	15.73	15.47	14.96	15.19	15.19	14.34	15.21	---	15.58	15.63
MAX	18.18	16.23	16.02	15.74	15.18	15.64	15.53	14.80	16.00	---	16.07	16.06
MIN	14.11	14.33	15.44	15.18	14.70	14.78	14.70	13.95	14.05	---	13.54	15.31

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-829	390	588	274	425	145	e439	363	147	-298	578	269
2	-661	385	597	323	422	358	e504	342	65	-2.9	478	221
3	-439	392	555	413	404	331	e480	357	-356	9.7	496	218
4	-232	393	570	391	428	44	e469	248	-548	101	517	223
5	-199	381	577	488	443	e396	e448	222	-483	155	504	128
6	101	382	578	467	420	416	454	288	-405	163	485	41
7	-22	379	568	504	413	348	459	317	-368	164	474	10
8	-34	359	560	385	362	365	454	352	-254	123	496	77
9	-12	338	545	281	e190	e327	444	349	-163	48	465	130
10	-6.8	355	556	287	296	e207	487	308	-225	106	411	192
11	4.5	385	596	315	247	290	417	e353	-202	113	415	262
12	-4.1	392	547	377	269	267	382	e339	-122	274	473	299
13	-13	329	530	298	224	267	465	329	-75	360	501	e314
14	0.29	209	494	282	212	419	419	348	105	343	498	379
15	-3.3	161	532	111	260	241	e393	348	217	315	505	e420
16	-1.4	393	502	e-11	216	333	453	360	261	e333	455	438
17	1.2	573	492	6.7	227	261	476	314	229	359	193	480
18	-0.32	570	332	41	227	143	407	296	270	380	427	448
19	-4.6	603	459	119	266	241	393	295	312	388	438	403
20	-8.7	620	435	210	305	306	448	287	245	461	426	331
21	-7.8	613	425	74	227	237	435	303	178	589	452	426
22	-7.8	616	419	159	251	250	399	288	338	603	421	425
23	-12	585	474	298	308	268	398	318	354	585	423	437
24	-9.0	594	472	350	314	331	433	314	305	523	262	432
25	142	622	259	521	133	431	367	323	285	517	56	447
26	352	600	294	484	173	483	369	239	200	529	62	496
27	391	597	232	461	137	446	403	132	-81	568	59	465
28	397	601	338	429	58	457	382	182	-194	537	48	412
29	391	589	389	431	---	e291	371	276	-226	508	110	333
30	386	576	408	444	---	370	338	267	-256	566	135	315
31	397	---	320	433	---	e379	---	214	---	602	192	---
TOTAL	56.17	13,982	14,643	9,645.7	7,857	9,648	12,786	9,271	-447	10,021.8	11,455	9,471
MEAN	1.81	466	472	311	281	311	426	299	-14.9	323	370	316
MAX	397	622	597	521	443	483	504	363	354	603	578	496
MIN	-829	161	232	-11	58	44	338	132	-548	-298	48	10
AC-FT	111	27,730	29,040	19,130	15,580	19,140	25,360	18,390	-887	19,880	22,720	18,790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	-75.9	9.37	84.9	93.9	71.9	63.4	125	134	-27.1	-76.0	-106	-115
MAX	365	466	472	452	407	352	426	349	227	323	370	316
(WY)	(1989)	(2005)	(2005)	(2003)	(2004)	(2004)	(2005)	(1987)	(1987)	(2005)	(2005)	(2005)
MIN	-564	-313	-182	-107	-177	-107	-226	-93.6	-377	-693	-599	-605
(WY)	(2001)	(1988)	(1978)	(1987)	(1994)	(1982)	(1991)	(1982)	(1991)	(1991)	(1997)	(1981)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005	
ANNUAL TOTAL	108,389.67			
ANNUAL MEAN	297		13.7	
HIGHEST ANNUAL MEAN			297	2005
LOWEST ANNUAL MEAN			-126	1997
HIGHEST DAILY MEAN	622	Nov 25	766	Apr 25, 1983
LOWEST DAILY MEAN	-829	Oct 1	-1,400	Sep 30, 1992
ANNUAL SEVEN-DAY MINIMUM	-368	Jun 3	-1,160	Sep 29, 1992
ANNUAL RUNOFF (AC-FT)	215,000		9,930	
10 PERCENT EXCEEDS	529		251	
50 PERCENT EXCEEDS	343		0.00	
90 PERCENT EXCEEDS	-2.0		-192	

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.

02278450 WEST PALM BEACH CANAL ABOVE S-5A, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26 41'05", long 80 22'15", in SW $^{1}/_{4}$ sec.32, T.43 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, near south bank, 500 ft upstream from pump station S-5A, 0.3 mi upstream from Levee 8 Canal, 1.1 mi downstream from bridge on U.S. Highway 441 and Cross Canal, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WDR FL-93-2A:1983.

GAGE.--Electronic data logger for the conservation area, satellite data collection platform with water-stage shaft encoder for West Palm Beach Canal, Moscad RF Data/Telemetry system operated by South Florida Water Management District for Levee 8 Canal. Satellite data collection platform for Levee 8 Canal discontinued on November 19, 2001. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). Prior to September 30, 1967, deflection vane recorder at same site and auxiliary water-stage recorder at control structure 5A-W, 0.3 mi downstream. Prior to October 1, 1981, datum of gage is 0.24 ft higher, from October 1, 1981 to June 22, 1994, datum of gage is -.19 ft lower and from June 22, 1994 to October 1, 2001 datum of gage is .11 ft higher than present datum. The change in datum is based upon an adjustment to FCE 790 benchmark elevation surveyed by South Florida Water Management District.

REMARKS.--Records fair. Flow regulated primarily by pumpage at S-5A and to a lesser extent by operation of control structure 5A-W. Major regulation above the station occurs in Cross Canal, 1.5 mi upstream, and at Lake Okeechobee, 20 mi upstream. Discharge is the difference between pumpage at S-5A and gate discharge at S-5A-W. Negative figures indicate flow to the west. See records on Diversions to Conservation Area No. 1 at S-5A, near Loxahatchee (station 02278500; pump station S-5A, upper), for table of daily gage height and extremes for period of record. Starting in water year 2001, negative discharge from control structure S-5A-W is considered estimated due to updated information provided to the U.S. Geological Survey. Prior negative discharges are not marked estimated in the files or databases of U.S. Geological Survey. Estimated discharge does not necessarily indicate negative discharge through control structure S-5A-W.

COOPERATION.--Gate-opening, pump records and supplemental stage data provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 48 complete water years of discharge (1958-2005).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,220	151	396	0.00	0.00	311	0.00	297	2,300	1,400	168	523
2	3,280	287	247	0.00	0.00	0.00	0.00	305	3,050	494	672	560
3	2,360	165	548	0.00	0.00	231	0.00	309	3,610	0.00	508	317
4	2,010	0.00	0.00	0.00	85	1,180	0.00	470	4,130	0.00	0.00	374
5	1,380	275	0.00	0.00	0.00	0.00	0.00	2,700	3,910	0.00	0.00	378
6	1,490	0.00	0.00	0.00	0.00	0.00	0.00	1,510	3,010	0.00	0.00	610
7	2,750	0.00	0.00	0.00	0.00	0.00	220	503	2,160	0.00	0.00	527
8	1,970	457	0.00	0.00	124	633	352	272	883	395	0.00	272
9	680	-179	350	0.00	0.00	1,170	0.00	0.00	314	691	0.00	0.00
10	0.00	149	565	0.00	0.00	3,050	0.00	0.00	638	383	0.00	0.00
11	864	0.00	577	0.00	0.00	1,850	269	211	1,880	383	0.00	0.00
12	765	489	378	0.00	0.00	867	284	124	1,090	291	0.00	0.00
13	554	0.00	253	0.00	0.00	627	225	279	402	0.00	0.00	0.00
14	253	0.00	372	0.00	0.00	0.00	263	128	0.00	507	0.00	0.00
15	356	118	277	928	0.00	42	286	273	0.00	593	0.00	0.00
16	0.00	282	453	e832	0.00	248	0.00	334	0.00	0.00	0.00	0.00
17	0.00	217	568	566	0.00	926	0.00	231	0.00	0.00	0.00	0.00
18	0.00	0.00	636	0.00	0.00	2,780	330	263	0.00	572	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	1,940	360	200	0.00	284	0.00	0.00
20	0.00	0.00	428	0.00	0.00	1,090	0.00	238	528	0.00	0.00	497
21	0.00	0.00	308	0.00	0.00	233	0.00	267	570	0.00	0.00	0.00
22	582	0.00	728	0.00	0.00	434	291	244	0.00	0.00	0.00	0.00
23	0.00	272	0.00	0.00	0.00	666	277	278	140	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	444	286	244	400	0.00	846	0.00
25	0.00	0.00	0.00	0.00	935	0.00	281	281	0.00	0.00	605	0.00
26	0.00	0.00	0.00	0.00	1,180	0.00	276	283	0.00	0.00	206	0.00
27	0.00	0.00	0.00	0.00	1,160	0.00	290	459	1,010	0.00	0.00	135
28	201	0.00	0.00	0.00	875	269	304	634	1,460	0.00	799	49
29	275	0.00	0.00	0.00	---	0.00	280	413	1,700	0.00	424	357
30	0.00	278	0.00	0.00	---	0.00	295	174	1,700	0.00	315	217
31	0.00	---	0.00	0.00	---	0.00	---	542	---	0.00	0.00	---
TOTAL	23990.0											
0	2,961.00	7,084.00	2,326.00	4,359.00	18,991.00	5,169.00	12,466.00	34,885.00	5,993.00	4,543.00	4,816.00	
MEAN	774	98.7	229	75.0	156	613	172	402	1,163	193	147	161
MAX	4,220	489	728	928	1,180	3,050	360	2,700	4,130	1,400	846	610
MIN	0.00	-179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	47,580	5,870	14,050	4,610	8,650	37,670	10,250	24,730	69,190	11,890	9,010	9,550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	501	262	231	329	270	297	230	289	525	527	674	786
MAX	1,713	1,381	1,200	2,149	1,321	1,588	840	1,174	1,865	1,309	1,894	2,497
(WY)	(2000)	(1988)	(2003)	(1958)	(1983)	(1970)	(1960)	(1976)	(1968)	(1988)	(1959)	(2004)
MIN	-408	-230	-242	-148	-180	-69.3	-165	-381	-101	-98.8	-162	-107
(WY)	(1989)	(1990)	(1985)	(1985)	(1985)	(1975)	(1986)	(1983)	(1987)	(1979)	(1984)	(1970)

02278450 WEST PALM BEACH CANAL ABOVE S-5A, NEAR LOXAHATCHEE, FL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	214,142.40		127,583.00			
ANNUAL MEAN	585		350		411	
HIGHEST ANNUAL MEAN					719	2003
LOWEST ANNUAL MEAN					150	1990
HIGHEST DAILY MEAN	5,000	Sep 28	4,220	Oct 1	5,230	Mar 27, 1970
LOWEST DAILY MEAN	-179	Nov 9	-179	Nov 9	-967	Jun 3, 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 29	0.00	Dec 23	-624	Jun 6, 1984
ANNUAL RUNOFF (AC-FT)	424,800		253,100		297,600	
10 PERCENT EXCEEDS	1,680		900		1,380	
50 PERCENT EXCEEDS	274		0.00		120	
90 PERCENT EXCEEDS	0.00		0.00		-45	

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.

02278500 DIVERSIONS TO CONSERVATION AREA N0. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26 41'00", long 80 22'10", in SW $^{1}/_{4}$ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at pump station S-5A, 1.5 mi downstream from Cross Canal, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year. Records of gage heights prior to October 1961 are available in files of the U.S. Geological Survey.

GAGE.--Electronic data logger for the conservation area, satellite data collection platform with water-stage shaft encoder for West Palm Beach Canal. Moscad RF Data/Telemetry system operated by South Florida Water Management District for Levee 8 Canal. Satellite data collection platform for Levee 8 Canal discontinued on November 19, 2001. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District benchmark). Prior to September 30, 1967, auxiliary deflection vane recorder 500 ft upstream and in Levee 8 Canal, and auxiliary water-stage recorder upstream from S-5A-W and downstream from S-5A-E. Prior to October 1, 1981, datum of gage is 0.24 ft higher, from October 1, 1981 to June 22, 1994, datum of gage is -0.19 ft lower and from June 22, 1994 to October 1, 2001, datum of gage is 0.11 ft higher than present datum. The change in datum is based upon an adjustment to FCE 790 benchmark elevation surveyed by South Florida Water Management District.

REMARKS.--No estimated daily discharges. Records fair. Normal flow is considered as that to the south into Conservation Area No. 1. Flow is controlled by S-5A pumpage, siphoning, gate operation of S-5A-S, and regulation of Cross Canal, 1.5 mi upstream, and gate structure S-352, 20 mi upstream. Negative figures indicate releases from gate S-5A-S when stage in the conservation area is higher than stage in Levee 8 Canal. The discharge is summation of S-5A pumpage, siphoning and S-5A-S gate flow. Stage determined from either of 2 sources, digital recorder at 02278500 or DCP stage from 02278520 station. Digital recorder discontinued on January 14, 1999. Starting October 1, 2001 the datum of all the gages is 0.11 ft higher. No corrections to previous years were deemed necessary. See GAGE.

COOPERATION.--Gate-opening, pump records and supplemental stage record provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 48 complete water years of discharge (1958-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.18 ft present datum, Oct. 3, 1957; minimum, 6.78 ft present datum, Oct. 28, 1981. See GAGE.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.24 ft Aug. 1; minimum, 8.99 ft Oct. 2,9,11, and Aug. 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.27	10.85	10.30	11.24	11.00	10.04	10.46	11.43	10.85	9.71	11.88	10.49
2	9.22	10.73	10.44	11.10	10.91	10.47	10.61	11.56	10.20	9.86	10.93	10.14
3	9.18	10.76	10.27	11.06	10.96	10.69	10.67	11.34	9.71	10.93	10.16	9.88
4	9.41	10.88	10.98	11.18	11.41	10.17	10.50	11.33	9.71	11.37	9.68	10.38
5	9.70	10.65	11.10	11.27	11.47	9.88	10.44	10.18	9.75	11.35	9.83	10.13
6	10.09	11.07	10.83	11.20	11.51	10.32	10.51	10.41	9.63	10.80	10.30	10.31
7	9.38	10.98	10.74	11.22	11.51	10.74	10.39	10.73	9.30	10.13	10.33	10.09
8	9.27	9.99	11.22	11.27	11.09	10.54	10.29	10.10	10.02	9.70	10.21	9.69
9	9.77	10.49	11.10	11.34	10.99	10.40	10.21	10.19	10.59	9.48	10.24	10.08
10	11.16	10.62	10.88	11.23	10.98	10.12	10.53	10.27	11.12	9.53	9.98	10.38
11	10.31	10.71	10.97	11.19	11.26	9.95	10.39	10.39	10.70	9.94	10.38	10.52
12	9.90	10.27	11.12	11.26	11.59	11.00	10.57	10.79	9.29	9.88	10.79	10.39
13	9.69	10.72	11.15	11.28	11.40	9.74	10.83	10.75	9.65	10.21	11.03	10.22
14	9.86	11.05	10.69	11.34	11.28	9.87	10.92	10.72	10.55	10.33	11.09	10.70
15	9.86	11.07	10.82	11.66	11.34	10.65	10.85	10.53	11.06	10.01	11.01	10.69
16	10.19	10.58	10.67	10.96	11.39	10.57	11.01	10.58	11.33	10.28	10.72	10.53
17	10.26	10.82	10.96	10.40	11.44	10.32	10.95	10.60	11.43	10.81	10.37	10.47
18	10.29	10.81	10.74	10.60	11.57	9.97	10.59	10.50	11.32	10.32	10.39	10.31
19	10.20	10.85	11.58	10.78	11.21	10.08	10.81	10.23	10.94	9.65	10.57	10.35
20	10.58	10.81	11.14	10.71	11.27	9.76	11.11	10.30	10.77	9.57	10.37	9.93
21	10.89	10.99	11.20	10.61	11.54	10.03	11.25	10.54	9.56	9.77	10.68	9.88
22	10.12	11.07	10.55	10.95	11.52	10.98	11.27	10.53	9.57	9.70	10.75	10.35
23	10.32	10.43	10.97	11.12	11.54	10.51	11.26	10.74	9.76	10.03	10.82	10.47
24	10.49	10.92	10.96	11.02	11.38	10.08	11.28	11.02	9.78	10.21	10.03	10.33
25	10.65	10.98	10.95	11.12	10.96	10.26	11.36	11.12	10.03	10.44	9.40	10.04
26	10.42	10.79	11.42	11.25	10.84	10.17	11.27	11.27	9.88	10.50	9.63	9.83
27	10.29	10.95	11.62	10.86	10.83	10.56	11.10	11.45	10.41	10.24	11.07	9.87
28	10.57	10.98	11.47	11.01	10.83	10.53	11.18	11.14	10.12	10.27	10.52	9.72
29	10.67	10.96	11.28	10.96	---	10.34	11.32	9.95	10.34	10.58	9.95	9.89
30	11.05	10.67	11.35	11.03	---	10.12	11.20	9.71	10.17	10.98	9.68	9.68
31	11.07	---	11.37	10.95	---	10.51	---	10.95	---	11.01	10.26	---
TOTAL	314.13	323.45	340.84	343.17	315.02	319.37	325.13	331.35	307.54	317.59	323.05	305.74
MEAN	10.13	10.78	10.99	11.07	11.25	10.30	10.84	10.69	10.25	10.24	10.42	10.19
MAX	11.16	11.07	11.62	11.66	11.59	11.00	11.36	11.56	11.43	11.37	11.88	10.70
MIN	9.18	9.99	10.27	10.40	10.83	9.74	10.21	9.71	9.29	9.48	9.40	9.68

02278500 DIVERSIONS TO CONSERVATION AREA N0. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,710	55	157	203	0.00	16	-44	13	2,220	1,400	191	523
2	3,890	203	53	190	0.00	8.9	-54	8.9	3,050	494	672	560
3	3,120	104	295	54	0.00	217	-37	3.0	3,610	0.00	508	317
4	2,810	-64	-93	0.00	12	955	-66	192	4,130	0.00	0.00	374
5	2,160	133	0.00	0.00	-58	0.00	-33	2,680	3,910	0.00	0.00	378
6	2,120	-108	103	130	-52	0.00	-28	1,510	3,010	0.00	0.00	610
7	3,480	-71	285	122	-36	0.00	83	503	2,160	0.00	0.00	527
8	2,670	328	398	43	-6.6	633	67	272	883	395	0.00	272
9	1,180	0.00	604	-122	0.00	1,170	-64	0.00	314	691	0.00	0.00
10	273	-21	714	-64	0.00	3,050	25	-2.1	638	383	0.00	0.00
11	933	-180	577	-47	0.00	1,720	47	89	1,880	383	0.00	0.00
12	765	232	174	-45	0.00	392	141	-64	1,090	291	0.00	0.00
13	554	0.00	20	-45	0.00	231	33	111	402	0.00	0.00	0.00
14	253	0.00	127	12	0.00	-93	43	-63	0.00	507	0.00	0.00
15	356	-97	144	928	0.00	46	31	21	0.00	593	0.00	0.00
16	0.00	97	483	e832	0.00	98	22	97	0.00	0.00	0.00	0.00
17	0.00	71	689	566	0.00	682	94	-7.6	0.00	0.00	0.00	0.00
18	0.00	-12	736	17	0.00	2,690	140	23	0.00	572	0.00	0.00
19	0.00	-78	328	7.1	0.00	1,740	105	80	0.00	284	0.00	0.00
20	0.00	-150	674	0.00	0.00	805	-14	-70	528	0.00	0.00	497
21	0.00	-194	658	0.00	0.00	30	0.00	-17	570	0.00	0.00	0.00
22	339	-184	984	0.00	0.00	166	53	-24	0.00	0.00	2.8	0.00
23	-171	3.9	342	0.00	0.00	481	-18	71	140	0.00	0.00	0.00
24	-142	-98	129	365	0.00	384	12	6.5	400	0.00	846	0.00
25	-86	-71	0.00	119	834	0.00	-2.6	-15	0.00	0.00	605	0.00
26	0.00	-64	0.00	0.00	904	-124	-24	8.6	0.00	0.00	206	0.00
27	0.00	-78	186	1.2	832	-127	-0.20	126	1,010	0.00	0.00	135
28	77	-114	253	0.00	420	84	14	504	1,460	1.3	357	55
29	141	-82	192	0.00	---	0.00	6.6	161	1,700	9.2	127	357
30	-16	67	163	0.00	---	0.00	-25	-49	1,700	76	315	217
31	-77	---	196	0.00	---	0.00	---	494	---	52	0.00	---
TOTAL												
29339.0												
0	-372.10	9,571.00	3,266.30	2,849.40	15,254.90	506.80	6,662.30	34,805.00	6,131.50	3,829.80	4,822.00	
MEAN	946	-12.4	309	105	102	492	16.9	215	1,160	198	124	161
MAX	4,710	328	984	928	904	3,050	141	2,680	4,130	1,400	846	610
MIN	-171	-194	-93	-122	-58	-127	-66	-70	0.00	0.00	0.00	0.00
AC-FT	58,190	-738	18,980	6,480	5,650	30,260	1,010	13,210	69,040	12,160	7,600	9,560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	608	243	158	255	180	215	133	240	538	509	667	863
MAX	2,528	1,719	1,229	2,605	1,478	1,992	820	1,440	2,750	1,592	1,816	2,711
(WY)	(1996)	(1988)	(2003)	(1958)	(1983)	(1970)	(1991)	(1984)	(1968)	(1968)	(2003)	(2004)
MIN	-204	-870	-537	-460	-456	-144	-326	-184	-300	-136	-141	18.2
(WY)	(1981)	(1992)	(1992)	(1984)	(1987)	(1999)	(1995)	(1994)	(1989)	(1989)	(1984)	(1961)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	205,222.70		116,665.90			
ANNUAL MEAN	561		320		385	
HIGHEST ANNUAL MEAN					720	2003
LOWEST ANNUAL MEAN					111	1971
HIGHEST DAILY MEAN	5,480	Sep 27	4,710	Oct 1	7,040	Mar 28, 1970
LOWEST DAILY MEAN	-197	Mar 20	-194	Nov 21	-2,200	Apr 27, 1982
ANNUAL SEVEN-DAY MINIMUM	-131	Mar 4	-110	Nov 19	-1,570	Nov 23, 1991
ANNUAL RUNOFF (AC-FT)	407,100		231,400		278,800	
10 PERCENT EXCEEDS	1,740		861		1,490	
50 PERCENT EXCEEDS	138		8.9		0.00	
90 PERCENT EXCEEDS	-77		-45		-66	

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.

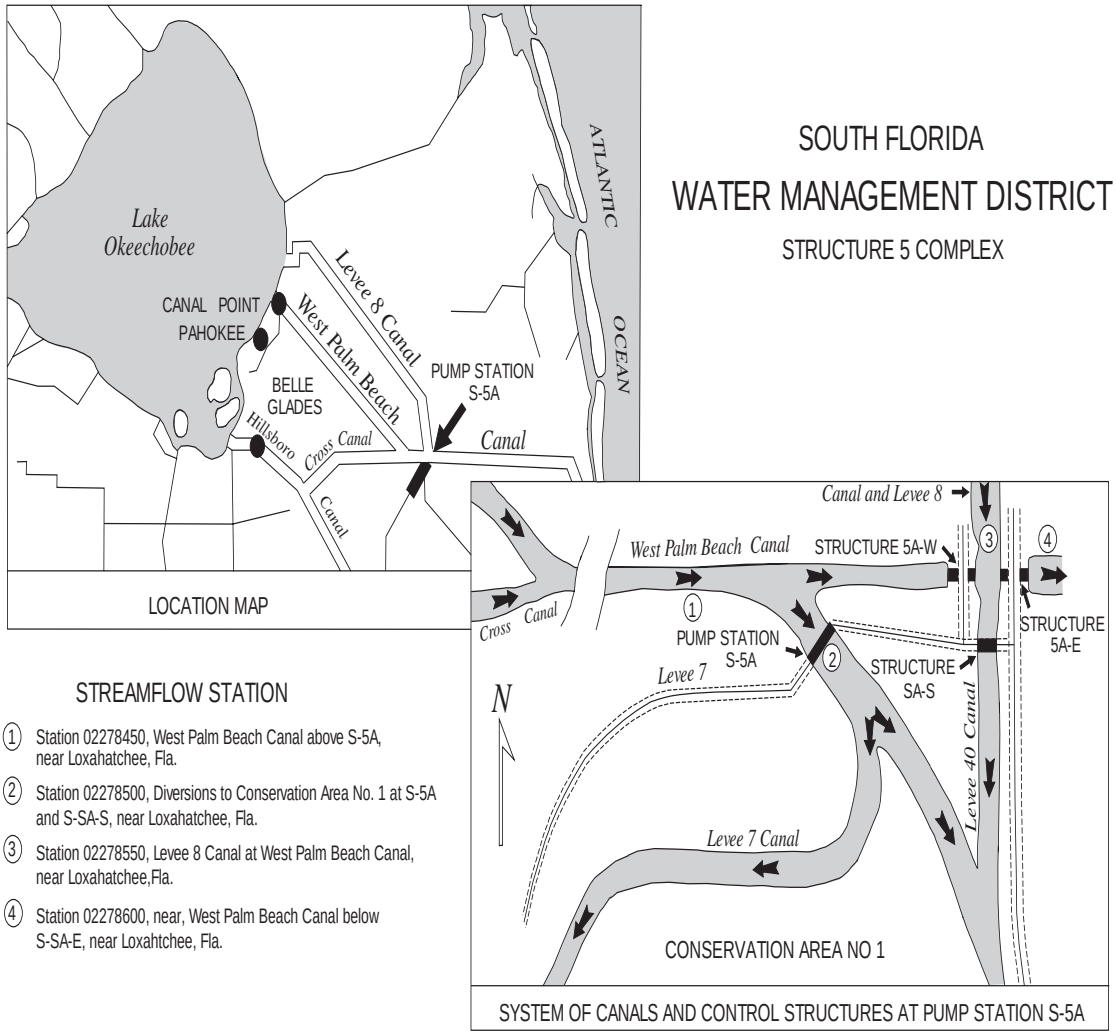


Figure 19. South Florida Water Management District, Structure 5 Complex.

02278501 CONSERVATION AREA NO. 1 BELOW S-5 COMPLEX, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26 41'00", long 80 22'10", in SW $^{1}/_{4}$ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at pump station S-5A, 1.5 mi downstream from Cross Canal, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1955 to current year (gage heights only).

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench marks). Prior to October 1, 1981, datum of gage is 0.24 ft higher, from October 1, 1981 to June 22, 1994, datum of gage is -0.19 ft lower and from June 22, 1994 to October 1, 2001, datum of gage is 0.11 ft higher than present datum. The change in datum is based upon an adjustment to FCE 790 benchmark elevation surveyed by South Florida Water Management District.

REMARKS.--Gage records water level in Conservation Area No. 1 at structure 5 complex. Stage is affected by pumping at S-5A and S-6 and the operation of gated-control structures in levees 39 and 40. Discharge for S-5A-S is stored under this station number in the U.S. Geological Survey's database starting 1991 water year. Records of gage height prior to October 1967 are available from the files of the U.S. Geological Survey.

COOPERATION.--Supplemental stage record provided by South Florida Water Management District.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.04 ft present datum, Oct. 18 1999; minimum, 8.18 ft present datum, Apr. 20, 24, 1956. See GAGE.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 18.58 ft June 11; minimum, 11.37 ft Aug. 20, 21, and Sept. 19.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.00	14.32	15.72	13.14	13.23	14.94	13.70	13.97	16.08	17.64	13.32	13.22
2	17.95	15.57	15.61	13.10	13.24	14.05	13.52	14.43	16.69	16.58	13.61	13.48
3	17.87	16.79	15.57	12.43	13.25	14.09	13.73	14.16	16.83	13.25	12.99	12.93
4	17.67	16.34	13.63	11.67	13.64	15.03	13.55	14.42	16.93	12.91	12.15	12.99
5	16.28	16.29	13.15	11.65	13.56	13.18	13.67	16.38	16.99	12.44	11.73	13.11
6	15.43	15.88	12.82	12.79	13.56	12.78	13.34	15.99	16.91	11.72	11.60	13.50
7	17.77	13.62	12.68	13.42	13.84	12.56	13.58	15.70	16.84	11.50	11.56	13.60
8	17.43	15.87	12.56	14.75	14.21	13.29	14.37	15.71	17.12	12.40	11.54	13.14
9	14.76	16.95	13.18	15.24	14.13	14.52	13.64	15.46	16.36	13.27	11.52	12.03
10	12.93	16.46	14.01	15.18	13.95	16.64	13.23	15.14	13.94	13.29	11.52	11.65
11	13.72	14.91	15.23	14.89	13.80	16.67	14.52	15.13	16.42	12.99	11.53	11.53
12	13.12	14.79	15.97	14.49	13.64	16.74	14.41	15.29	17.75	12.77	11.54	11.50
13	12.83	16.52	15.39	14.65	13.53	14.97	14.28	14.64	16.39	12.25	11.55	11.47
14	13.11	16.35	14.20	14.88	13.46	13.25	14.64	15.09	13.17	13.07	11.54	11.45
15	14.02	16.09	13.71	13.82	13.42	13.72	14.73	14.32	12.73	13.28	11.53	11.43
16	13.90	15.83	13.46	13.33	13.38	14.36	13.33	14.56	12.54	12.30	11.47	11.42
17	14.01	16.63	14.08	12.91	13.30	15.62	13.27	14.57	12.46	11.68	11.46	11.41
18	13.96	16.50	15.30	12.02	13.23	17.54	14.37	14.60	12.40	13.01	11.43	11.40
19	13.94	15.27	14.09	13.02	13.20	17.42	14.51	14.92	12.37	12.78	11.40	11.40
20	13.96	12.86	14.43	13.55	13.17	16.96	14.80	14.90	13.11	11.87	11.38	12.67
21	13.98	12.88	13.91	13.77	13.15	15.62	15.57	14.49	13.72	11.58	11.42	12.14
22	15.86	12.70	14.10	13.67	13.13	14.98	14.72	14.43	12.85	11.49	11.49	12.00
23	15.42	13.48	13.30	13.59	13.11	16.31	14.35	13.36	12.71	11.45	11.43	11.92
24	14.16	12.72	12.68	13.36	13.10	14.38	14.14	13.79	13.09	11.45	13.29	11.84
25	12.86	12.78	11.79	12.96	14.78	13.25	14.25	13.71	11.66	11.44	13.32	11.78
26	13.01	12.76	11.93	12.97	15.74	13.70	14.03	13.80	11.46	11.42	12.95	11.77
27	13.28	12.70	12.53	13.07	15.63	13.68	14.00	14.52	13.58	11.40	12.49	12.06
28	14.56	12.77	13.17	13.13	15.73	14.89	14.00	15.45	16.84	11.43	14.03	12.02
29	15.47	12.90	13.11	13.16	---	15.33	13.69	14.67	17.66	11.48	13.65	12.56
30	16.11	14.87	12.89	13.19	---	14.88	13.90	13.32	17.59	12.29	12.88	12.26
31	14.91	---	13.02	13.21	---	14.33	---	13.30	---	12.38	12.33	---
TOTAL	462.28	444.40	427.22	417.01	385.11	459.68	421.84	454.22	445.19	388.81	375.65	365.68
MEAN	14.91	14.81	13.78	13.45	13.75	14.83	14.06	14.65	14.84	12.54	12.12	12.19
MAX	18.00	16.95	15.97	15.24	15.74	17.54	15.57	16.38	17.75	17.64	14.03	13.60
MIN	12.83	12.70	11.79	11.65	13.10	12.56	13.23	13.30	11.46	11.40	11.38	11.40

02278550 LEVEE 8 CANAL AT WEST PALM BEACH CANAL NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26 41'05", long 80 21'35", in SE 1/4 sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, 37 mi east of Belle Glade on U.S. Highway 441, 21 mi southeast of Canal Point on U.S. Highway 98 and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 2004, gage-height and discharge. October 2004 to current year, (gage-height only).

REVISED RECORDS.--WDR FL-84-2A, 1982, (revised maximum negative discharge).

GAGE.--Moscad RF Data/Telemetry system operated by South Florida Water Management District for West Palm Beach Canal east of Levee 8 Canal, satellite data collection platform with water-stage shaft encoder for West Palm Beach Canal west of Levee 8 Canal. Electronic data logger for Conservation area was used for discharge computation. Satellite data collection platform for Levee 8 discontinued on November 19,2001. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District benchmark). Prior to October 1, 1981, datum of gage is 0.24 ft higher, from October 1, 1981 to June 22, 1994, datum of gage is -.19 ft lower and from June 22, 1994 to October 1, 2001, datum of gage is .11 ft higher than present datum. The change in datum is based upon an adjustment to FCE 790 benchmark elevation surveyed by South Florida Water Management District.

REMARKS.--Levee 8 Canal stage only published. Discharge record computation discontinued due to combination of flow not possible due to S-5A-E being discontinued. Flow regulated by operation of S-5A-E, S-5A-S, and S-5A-W, just downstream and pumpage at S-5A. Gate operation and pumpage occasionally reverses the flow (negative figures indicate flow reversed). Discharge is summation of flows at S-5A-E, S-5A-S, and S-5A-W. Discharge computed from relation between discharge, head, and gate openings. Records of gage heights prior to October 1961, are available in files of the U.S. Geological Survey, (USGS). Prior to September 30, 1967, deflection vane recorder at upstream side in center of span of bridge on U.S. Highway 441, 50 ft upstream from mouth and West Palm Beach Canal. Satellite data collection platform with acoustic velocity meter installed April 11, 1991, at same location of satellite data collection platform, removed October, 1993. Starting in the water year 2001, negative discharge from control structure S-5A-W and S-5A-E is considered estimated due to updated information, provided to USGS about the site. Prior negative discharges are not marked estimated in the files or data bases of USGS. Estimated discharge does not necessarily indicate negative discharges through these control structures.

COOPERATION.--Stage record provided by South Florida Water Management District.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.69 ft present datum, Oct. 18, 1995; minimum, 8.21 ft present datum, Mar. 17, 1969. See GAGE.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 18.04 ft Oct. 1; minimum, 11.90 ft Nov. 12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.77	12.70	12.72	15.23	13.68	14.82	13.68	13.44	13.20	16.20	13.38	14.76
2	16.25	12.86	12.68	14.93	13.79	14.05	13.49	13.89	13.48	15.77	14.61	15.05
3	15.61	12.82	12.74	14.43	13.72	14.06	13.72	13.56	14.88	15.62	14.78	15.05
4	15.58	12.67	12.67	14.20	13.76	14.84	13.53	13.79	15.34	15.73	14.51	14.97
5	15.54	12.74	12.67	14.01	13.54	13.46	13.66	13.49	15.35	15.72	14.51	15.35
6	15.54	12.63	12.65	14.06	13.54	13.38	13.32	13.85	15.35	15.76	14.52	15.67
7	16.34	12.54	12.85	13.48	13.83	13.78	13.30	13.50	15.42	15.76	14.53	15.74
8	15.78	13.41	12.87	14.76	14.28	13.77	13.80	13.14	15.16	15.58	14.57	15.73
9	14.81	13.91	13.16	15.22	14.97	13.66	13.61	13.17	14.94	14.90	14.53	15.66
10	14.13	12.82	13.04	15.16	14.92	14.33	13.24	13.48	14.88	14.41	14.52	15.41
11	14.41	12.56	13.19	14.87	14.93	14.15	14.11	12.91	15.00	14.06	14.54	15.16
12	14.62	12.82	13.14	14.47	14.76	14.59	14.23	12.96	15.07	13.53	14.39	15.06
13	14.70	14.77	13.00	14.64	14.61	14.32	13.99	12.95	15.13	13.93	14.30	14.82
14	15.64	15.72	13.05	15.08	14.59	13.23	14.25	12.74	14.69	14.37	14.24	14.55
15	15.47	15.82	13.24	15.72	14.58	14.41	14.33	12.81	14.43	14.89	14.15	14.15
16	15.47	14.84	13.46	16.03	14.73	13.62	13.34	13.10	14.24	14.42	14.46	14.21
17	15.45	14.12	13.91	15.95	14.80	14.50	13.30	13.57	14.20	13.95	15.71	14.20
18	15.75	13.80	15.26	15.84	14.73	14.89	14.00	13.24	14.16	13.60	14.62	14.14
19	16.02	12.83	14.30	15.65	14.36	14.77	14.09	12.96	14.11	13.84	14.45	14.02
20	15.99	12.81	14.47	15.53	14.03	14.84	13.37	13.20	14.62	15.20	14.27	13.83
21	16.00	12.85	14.10	15.67	14.47	14.63	13.22	13.14	14.79	14.68	13.90	13.68
22	15.91	12.67	13.95	15.38	14.37	14.48	13.70	12.94	14.30	14.78	13.99	13.77
23	15.31	13.40	13.52	15.40	13.84	14.82	13.81	12.85	14.17	14.92	14.00	13.85
24	14.08	12.70	13.94	14.57	14.11	14.65	13.65	13.33	14.36	15.04	14.14	13.84
25	12.77	12.77	15.37	13.60	14.66	13.96	13.71	13.16	14.63	14.98	13.81	13.64
26	12.79	12.75	15.72	13.79	14.68	13.49	13.45	13.23	14.74	14.83	12.84	13.67
27	12.78	12.68	15.50	13.80	14.63	13.50	13.45	13.73	15.10	14.70	12.19	13.91
28	12.93	12.76	14.67	13.72	15.18	14.45	13.45	13.13	15.23	14.73	13.72	14.06
29	13.29	12.89	14.22	13.63	---	15.08	13.20	12.91	15.56	14.65	14.54	14.40
30	12.71	12.92	14.26	13.92	---	14.42	13.28	12.77	16.03	13.42	15.29	14.22
31	12.69	---	14.96	13.82	---	14.07	---	12.62	---	12.88	15.07	---
TOTAL	462.13	397.58	425.28	456.56	402.09	441.02	409.28	409.56	442.56	456.85	443.08	436.57
MEAN	14.91	13.25	13.72	14.73	14.36	14.23	13.64	13.21	14.75	14.74	14.29	14.55
MAX	17.77	15.82	15.72	16.03	15.18	15.08	14.33	13.89	16.03	16.20	15.71	15.74
MIN	12.69	12.54	12.65	13.48	13.54	13.23	13.20	12.62	13.20	12.88	12.19	13.64

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.

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

LOCATION.--Lat 26 45'14", long 80 55'07", in NW $\frac{1}{4}$ sec.14, T.43 S., R.34 E., Hendry County, Hydrologic Unit 03090202, on concrete wall inside lock chamber of structure S-310 (HGS-2) in Okeechobee Waterway, and 0.8 mi north of U.S. Highway 27 near Clewiston.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1979, at datum 0.24 ft lower. Prior to April 19, 2001, acoustic velocity meter at same site and datum. Prior to October 19, 1992, water-stage recorder and electromagnetic velocity meter at site. Prior to October 1982, water-stage recorder 0.4 mi downstream of S-310 (HGS-2) on south side of U.S. Highway 27 bridge. August 1976 to September 1979, deflection velocity meter recorder on south side of U.S. Highway 27 bridge.

REMARKS.--Records poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow regulated by hurricane gate at Lake Okeechobee. Prior to October 19, 1992, electromagnetic velocity meter at site.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 11 complete water years of discharge (1977-79, 1983-87, 1990, 1994, 2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.17 ft Mar. 7, 1983; minimum, 8.73 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Not available at time of publication.

DATA UNAVAILABLE AT TIME OF PUBLICATION

02280500 HILLSBORO CANAL BELOW S-351, NEAR SOUTH BAY, FL

LOCATION.--Lat 26 42'00", long 80 42'45", in SW $^{1}/_{4}$ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, acoustic Doppler velocity meter located approximately 1,800 ft downstream from S-351 and pump station 2 at Lake Okeechobee, and 2.5 mi north of South Bay, along the south bank of Hillsboro Canal.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to current year.

REVISED RECORDS.--WDR FL-92-2A, 1991; WDR FL-03-2A, 2002.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to January 1, 2002, acoustic velocity meter. Prior to April 1993 electromagnetic velocity meter and digital water-stage recorder. Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter installed December 1990. Prior to October 1, 1986, water-stage recorder at pump station 2 used for gage heights at this station. Prior to August 1982, deflection meter. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Records poor. Flow regulated by vertical lift gates and pump station at Lake Okeechobee. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, by the operation of pump station 2, or by gravity flow through gates during periods of negative head (negative figures indicate flow reversed). Discharge computed from continuous velocity record obtained from acoustic Doppler velocity meter starting January 1, 2002.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 41 complete water years of discharge (1958-88, 1991-95, 1997-98, 2000-01, 2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.09 ft Sept. 28, 1962; minimum, 6.98 ft Oct. 28, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.71 ft June 4; minimum, 8.52 ft Oct 8.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.16	10.70	10.61	11.05	---	10.10	10.26	11.28	11.98	10.77	11.84	10.79
2	9.65	10.97	10.73	10.90	10.67	10.29	10.25	11.33	11.94	10.36	11.19	10.97
3	9.82	10.78	10.68	10.92	10.75	10.53	10.31	10.98	11.80	10.56	10.68	11.73
4	9.56	10.66	10.87	11.03	11.41	10.75	10.25	10.57	12.33	10.50	9.84	11.97
5	9.36	10.74	10.97	11.12	11.37	9.59	10.35	11.60	11.56	10.60	10.23	10.91
6	9.72	10.91	10.77	11.00	11.38	10.23	10.22	11.39	11.86	10.18	10.91	11.08
7	10.48	10.72	10.77	---	11.35	10.67	10.32	9.94	11.69	9.78	10.65	10.55
8	8.94	10.55	11.09	11.07	11.33	10.61	10.17	9.37	11.72	10.20	10.81	9.59
9	9.13	10.85	11.27	11.08	---	10.90	10.02	10.08	10.92	10.41	10.15	10.13
10	10.21	10.84	11.23	10.98	11.40	12.07	10.21	10.19	11.10	10.52	10.01	10.11
11	10.19	10.65	11.21	11.01	11.35	11.39	10.15	10.60	11.67	10.20	10.79	10.36
12	9.63	10.68	11.21	11.06	11.46	10.64	10.18	10.92	11.29	9.92	10.87	10.34
13	9.70	---	11.21	11.11	11.32	9.36	10.71	10.93	10.58	10.60	10.94	10.00
14	9.75	10.91	11.06	11.22	11.17	9.96	10.69	10.81	10.36	10.58	10.88	10.13
15	10.05	10.77	---	11.65	11.44	10.55	10.81	10.87	10.96	---	10.83	10.36
16	9.93	10.52	---	11.26	11.31	10.59	10.89	10.69	11.17	---	10.60	10.22
17	10.05	10.92	11.10	10.66	11.29	10.56	10.79	10.68	11.17	11.08	10.30	10.48
18	10.09	10.66	11.30	10.39	11.12	11.49	10.91	10.51	11.02	10.96	10.65	10.40
19	10.32	10.64	11.34	10.55	10.57	11.06	11.24	---	10.22	9.98	---	10.34
20	10.06	10.73	11.43	10.40	11.07	9.88	11.13	---	10.79	---	10.28	10.39
21	10.61	10.92	11.41	10.31	11.15	9.66	11.14	10.83	10.06	9.96	10.39	9.53
22	10.62	10.83	11.15	10.93	11.25	10.50	11.10	10.83	9.44	---	10.73	10.29
23	10.11	10.55	10.79	10.81	11.55	10.0	11.11	10.96	10.23	9.91	10.54	10.63
24	10.30	10.83	10.77	10.85	11.17	9.87	11.13	11.25	10.91	10.18	10.53	10.76
25	---	10.77	10.78	10.74	11.09	9.56	11.08	11.38	9.94	10.35	10.03	10.75
26	---	10.62	10.93	10.94	11.16	9.40	11.03	11.47	9.79	10.33	9.97	10.69
27	10.38	10.84	11.22	10.61	10.74	10.37	10.71	11.19	11.45	10.09	10.52	11.03
28	10.87	10.73	11.18	10.94	10.70	10.53	10.94	11.02	12.09	10.18	10.88	10.39
29	10.78	10.81	11.03	10.94	---	9.87	11.11	9.92	12.14	10.63	10.79	11.25
30	---	10.76	11.09	10.79	---	9.81	11.00	9.80	11.80	10.96	10.51	10.26
31	---	---	11.18	10.62	---	10.42	---	10.73	---	10.91	10.48	---
TOTAL	---	---	---	---	---	321.21	320.21	---	333.98	---	---	316.43
MEAN	---	---	---	---	---	10.36	10.67	---	11.13	---	---	10.55
MAX	---	---	---	---	---	12.07	11.24	---	12.33	---	---	11.97
MIN	---	---	---	---	---	9.36	10.02	---	9.44	---	---	9.53

02280500 HILLSBORO CANAL BELOW S-351, NEAR SOUTH BAY, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-588	154	215	18	e26	199	0.33	436	-158	160	-244	174
2	-238	403	355	65	160	34	62	392	-379	4.6	238	-340
3	26	336	353	121	185	33	4.9	90	-518	98	371	-294
4	-41	303	289	140	309	-33	109	-289	-390	333	268	3.0
5	-89	366	104	179	251	-17	189	5.9	-493	349	233	-152
6	-291	237	145	155	210	151	103	65	24	229	283	-145
7	-250	201	278	e244	131	113	189	29	476	265	318	43
8	-316	331	324	153	278	65	152	-23	700	209	318	-23
9	-343	507	337	111	e389	-161	57	159	476	13	47	62
10	-183	376	303	132	471	-699	-16	201	179	283	59	0.42
11	-190	334	267	262	439	-640	39	366	233	69	248	42
12	-228	450	247	163	339	-258	101	386	561	181	171	143
13	66	e432	274	87	246	20	308	373	416	371	153	81
14	40	93	334	79	293	277	263	401	-22	43	72	242
15	49	16	e326	-123	423	247	327	437	176	e108	42	237
16	-68	61	e315	-40	293	240	293	310	172	e192	72	229
17	16	288	337	107	340	60	232	306	275	219	134	293
18	-38	86	389	-84	270	-335	433	191	-48	229	23	157
19	279	64	196	-55	79	-184	568	---	-274	158	e136	68
20	107	184	294	-35	293	-88	535	---	93	e235	44	-19
21	239	201	272	72	183	-68	453	531	292	220	38	-65
22	231	15	77	358	195	351	426	491	109	e240	-146	92
23	171	71	-58	149	355	343	434	---	384	230	-39	-14
24	88	130	47	219	102	276	431	563	539	286	-93	0.42
25	e202	-45	-3.6	193	-55	171	389	549	311	233	-192	38
26	e192	57	-29	97	115	18	438	328	218	128	-151	-38
27	312	196	-144	14	-282	342	153	-106	259	176	-84	-229
28	452	122	-96	146	-86	466	207	22	-54	214	-39	-121
29	364	27	-28	93	---	278	376	110	25	309	100	-410
30	e144	87	64	36	---	50	381	267	-8.9	191	-9.1	35
31	e245	---	28	19	---	159	---	-117	---	-149	133	---
TOTAL	360	6,083	5,811.4	3,075	5,952	1,410	7,637.23	---	3,573.1	5,826.6	2,503.9	89.84
MEAN	11.6	203	187	99.2	213	45.5	255	---	119	188	80.8	2.99
MAX	452	507	389	358	471	466	568	---	700	371	371	293
MIN	-588	-45	-144	-123	-282	-699	-16	---	-518	-149	-244	-410
AC-FT	714	12,070	11,530	6,100	11,810	2,800	15,150	---	7,090	11,560	4,970	178

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	-1.18	32.1	59.4	48.2	59.5	86.3	225	172	0.17	-89.2	-89.9	-122
MAX	296	366	520	606	574	359	676	720	610	482	268	351
(WY)	(1995)	(1974)	(1996)	(2003)	(1993)	(1999)	(1993)	(1966)	(2000)	(1992)	(1974)	(1992)
MIN	-370	-276	-314	-265	-232	-534	-241	-328	-633	-553	-609	-537
(WY)	(1965)	(1960)	(1960)	(1964)	(1963)	(1970)	(1957)	(1968)	(1968)	(1975)	(1981)	(1960)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	52,635.45			
ANNUAL MEAN	144		18.3	
HIGHEST ANNUAL MEAN			288	2000
LOWEST ANNUAL MEAN			-207	1960
HIGHEST DAILY MEAN	892	Jun 1	1,210	Apr 27, 1999
LOWEST DAILY MEAN	-1,090	Sep 7	-1,720	Aug 19, 1981
ANNUAL SEVEN-DAY MINIMUM	-846	Sep 22	-1,190	Aug 17, 1981
ANNUAL RUNOFF (AC-FT)	104,400		13,240	
10 PERCENT EXCEEDS	490		369	
50 PERCENT EXCEEDS	166		27	
90 PERCENT EXCEEDS	-206		-335	

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.

02281200 HILLSBORO CANAL AT S-6, NEAR SHAWANO, FL

LOCATION.--Lat 26 28'18", long 80 26'46", in NE 1/4 sec.4, T.46 S., R.39 E., Palm Beach County, Hydrologic Unit 03090202, at pump station 6, and 7 mi southeast of Shawano.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 1968 (gage heights and discharge). October 1968 to September 1981 (discharge), October 1990 to current year.

REVISED RECORDS.--WDR FL-03-2A, 1995.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. The acoustic velocity meter and acoustic Doppler velocity meter were run in tandem for the period of August 10, 2001 to January 30, 2002. Dual water-stage recorder from 1968 to 1981 at S-6. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to October 1, 1959, at datum 0.44 ft lower.

REMARKS.--Records poor. Flow regulated by pumpage at S-6, by Structure 351 and pump station 2 at Lake Okeechobee and by drainage and irrigation pumps upstream. Records include flow from Levee 6 Canal from March 15, 1966 to October 1, 1999. Discharge is the summation of pumpage and siphoning at S-6. Negative flow indicates flow to the north due to siphoning at S-6. Acoustic velocity meter system began operation October 1990, on both S-6 and L-6 canals. After October 1, 1999, total discharge represents S-6 canal flow. Everglades Construction Project for Storm Treatment Area 2 (STA2) had a permanent effect on L-6 canal. Flow from L-6 canal into Hillsboro canal main channel was plugged in August 1999, approximately 0.25 mi upstream of L-6 cross-section for the diversion of flow into STA2. L-6 acoustic velocity meter was discontinued on September 30, 1999. From October 1990 to September 1999, total discharge is computed by the sum of S-6 and L-6 discharges from relations between stage vs area and line velocity vs mean velocity index ratings. Acoustic velocity meter removed on January 30, 2002.

COOPERATION.--Records furnished by South Florida Water Management District October 1968 to September 1981. Prior to October 1968, pump records furnished by South Florida Water Management District, and records computed by U.S. Geological Survey. After reestablishment in the 1991 water year, records computed by U.S. Geological Survey.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 27 complete water years of discharge (1958-81, 1998, 2001, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.74 ft Dec. 25, 1958; minimum, 7.35 ft May 14, 1959.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.73 ft Aug. 1; minimum, 8.78 ft Oct. 7.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.25	10.61	10.68	11.23	10.75	9.70	10.40	11.01	11.38	9.20	11.01	10.50
2	9.19	---	10.44	11.07	10.79	10.51	10.48	11.27	11.06	9.42	9.28	10.42
3	9.29	10.54	10.45	11.05	10.76	10.68	10.61	11.18	11.28	9.46	9.60	10.87
4	9.12	10.51	10.90	11.12	11.27	10.35	10.39	10.16	---	9.28	9.49	10.38
5	9.47	10.41	11.14	11.08	11.50	9.82	10.36	---	---	---	10.32	9.30
6	10.03	11.05	10.88	11.01	11.49	10.38	10.26	---	---	---	---	9.66
7	9.94	10.52	10.77	11.06	11.48	10.81	10.27	9.20	9.24	---	10.27	9.41
8	9.49	10.15	11.09	11.21	11.34	10.63	9.86	9.43	9.29	---	10.31	9.51
9	9.91	10.21	11.18	11.25	11.18	10.15	10.25	10.13	9.35	9.45	10.03	9.99
10	10.61	10.50	11.20	11.12	11.18	11.76	10.43	10.21	9.42	9.67	10.09	10.35
11	10.28	10.52	11.26	11.03	11.20	11.27	10.31	10.36	9.94	9.76	10.73	10.59
12	9.87	10.06	11.31	11.14	11.45	9.70	10.26	10.71	9.30	9.32	10.54	10.18
13	9.73	---	11.27	11.15	11.36	9.04	10.67	10.77	9.63	9.93	11.09	---
14	9.98	11.09	11.07	11.38	11.12	9.66	10.78	10.58	10.52	10.57	11.06	10.16
15	10.17	10.68	11.20	11.30	11.22	10.28	10.84	---	11.07	---	11.02	10.38
16	10.25	---	10.99	11.24	11.29	---	10.96	---	11.31	10.33	10.76	10.26
17	10.28	10.88	11.05	10.56	---	9.31	10.95	---	10.74	10.96	10.44	---
18	10.33	10.83	11.20	10.74	11.03	10.12	10.45	10.53	11.26	10.56	10.84	10.52
19	10.04	10.83	11.55	10.82	10.68	9.81	10.55	---	10.79	9.83	11.04	10.53
20	10.05	10.84	11.56	10.69	10.99	9.36	10.44	10.19	9.96	---	10.50	9.92
21	10.41	11.05	11.48	10.52	11.22	9.71	10.89	---	9.36	9.94	10.59	9.76
22	10.40	11.06	11.32	10.81	11.32	9.48	10.92	10.46	9.45	9.78	10.74	10.40
23	10.03	10.66	11.00	11.02	11.48	9.06	10.91	---	9.46	9.91	10.35	10.52
24	10.53	10.90	11.01	11.01	11.31	9.00	10.99	10.70	9.45	10.10	9.88	10.94
25	10.16	11.04	11.02	10.90	10.79	9.29	10.95	10.89	9.24	10.37	9.34	10.92
26	10.27	10.84	11.34	11.13	9.57	9.48	10.72	11.36	9.56	10.41	9.56	10.90
27	10.24	10.92	11.63	10.80	10.46	9.65	10.80	10.86	9.92	10.21	---	10.32
28	10.42	10.97	11.48	10.99	9.67	9.32	10.99	10.74	10.11	10.24	10.65	9.92
29	10.29	11.02	11.25	11.03	---	9.28	10.92	9.77	10.37	10.54	10.51	10.60
30	11.01	10.88	11.27	10.99	---	9.94	10.72	9.65	10.49	10.97	10.43	9.38
31	10.59	---	11.35	10.85	---	10.44	---	10.97	---	11.21	10.35	---
TOTAL	311.63	---	345.34	341.30	---	---	318.33	---	---	---	---	---
MEAN	10.05	---	11.14	11.01	---	---	10.61	---	---	---	---	---
MAX	11.01	---	11.63	11.38	---	---	10.99	---	---	---	---	---
MIN	9.12	---	10.44	10.52	---	---	9.86	---	---	---	---	---

02281200 HILLSBORO CANAL AT S-6, NEAR SHAWANO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,980	247	0.00	0.00	0.00	551	13	5.2	1,330	1,740	1,420	483
2	1,490	e296	246	0.00	0.00	0.00	21	7.5	2,150	1,130	1,830	996
3	1,220	255	219	0.00	0.00	146	1.8	0.00	2,160	1,360	1,070	1,060
4	1,220	268	0.00	0.00	168	1,050	0.00	984	e2,250	1,300	557	1,910
5	542	282	0.00	266	0.00	239	0.00	e1,860	e2,160	e1,100	0.00	1,960
6	317	0.00	0.00	260	0.00	0.00	3.0	e1,960	e2,030	e1,050	0.00	1,960
7	1,360	409	0.00	172	0.00	0.00	10	1,130	1,610	e489	450	1,610
8	608	374	0.00	0.00	0.00	256	532	205	1,620	e648	384	582
9	0.00	297	0.00	0.00	0.00	1,350	28	0.00	1,430	918	371	463
10	0.00	244	0.00	0.00	0.00	2,220	9.5	0.00	1,840	1,170	0.00	18
11	470	0.00	0.00	0.00	0.00	2,140	0.00	11	1,970	1,150	40	20
12	356	335	0.00	0.00	0.00	1,920	0.00	0.00	1,750	932	503	383
13	335	0.00	0.00	0.00	0.00	929	22	0.00	678	552	0.00	e22
14	70	0.00	0.00	0.00	0.00	270	1.5	0.00	14	495	5.1	41
15	237	413	0.00	1,010	0.00	285	5.4	e31	23	e604	0.00	18
16	0.00	e71	0.00	587	0.00	e695	10	e1.6	5.9	95	0.00	2.0
17	0.00	175	0.00	579	0.00	1,360	1.5	e17	522	0.00	5.0	0.00
18	0.00	151	0.00	0.00	0.00	2,140	278	1.6	0.00	438	0.00	0.00
19	247	0.00	0.00	0.00	0.00	1,980	294	0.00	0.00	284	0.00	0.00
20	272	0.00	0.00	0.00	0.00	1,160	293	0.00	1,070	0.00	1.6	848
21	400	0.00	0.00	0.00	0.00	288	0.00	e66	1,070	16	0.00	0.00
22	447	0.00	0.00	0.00	0.00	1,110	8.5	11	412	50	367	0.00
23	367	0.00	0.00	0.00	0.00	883	1.8	0.00	1,050	19	497	352
24	18	0.00	0.00	17	0.00	777	3.1	5.0	1,250	10	1,030	0.00
25	522	0.00	0.00	0.00	832	436	0.00	19	1,000	5.0	1,550	5.4
26	296	0.00	0.00	0.00	1,580	104	0.00	0.00	305	137	811	3.3
27	167	0.00	0.00	0.00	1,090	746	17	517	1,430	2.9	0.00	1,200
28	265	0.00	0.00	0.00	1,610	944	0.00	508	2,080	3.5	491	783
29	377	0.00	0.00	0.00	---	671	0.00	421	2,130	17	484	1,450
30	0.00	0.00	0.00	0.00	---	0.00	1.7	0.00	2,120	0.00	419	1,460
31	370	---	0.00	0.00	---	0.00	---	9.2	---	1.7	403	---
TOTAL												
13953.0												
0	3,817.00	465.00	2,891.00	5,280.00	24,650.00	1,555.80	7,770.10	37,459.90	15,717.10	12,688.70	17,629.70	
MEAN	450	127	15.0	93.3	189	795	51.9	251	1,249	507	409	588
MAX	1,980	413	246	1,010	1,610	2,220	532	1,960	2,250	1,740	1,830	1,960
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	27,680	7,570	922	5,730	10,470	48,890	3,090	15,410	74,300	31,170	25,170	34,970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	384	161	138	197	162	148	133	222	378	360	422	573
MAX	1,431	1,417	1,120	1,326	591	1,020	710	991	1,343	980	1,355	1,695
(WY)	(1995)	(1995)	(1995)	(1958)	(1998)	(1970)	(1998)	(1998)	(1968)	(1995)	(1994)	(1960)
MIN	-57.4	-29.3	0.00	0.00	-84.0	-65.9	0.00	-11.5	-152	0.00	43.2	4.63
(WY)	(1981)	(1992)	(1971)	(1975)	(1991)	(1991)	(1974)	(1993)	(1980)	(1981)	(1958)	(1961)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	143,877.30			
ANNUAL MEAN	394		233	
HIGHEST ANNUAL MEAN			597	1998
LOWEST ANNUAL MEAN			68.1	1962
HIGHEST DAILY MEAN	2,250	Jun 4	4,480	May 1, 1998
LOWEST DAILY MEAN	0.00	Oct 9	-673	Apr 16, 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Nov 19	-407	Jun 12, 1980
ANNUAL RUNOFF (AC-FT)	285,400		168,800	
10 PERCENT EXCEEDS	1,380		874	
50 PERCENT EXCEEDS	17		0.00	
90 PERCENT EXCEEDS	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.

02281400 HILLSBORO CANAL NEAR MARGATE, FL

LOCATION.--Lat 26 19'48", long 80 12'45", in NW $\frac{1}{4}$ sec.36, T.47 S., R.41 E., Broward County, Hydrologic Unit 03090202, on north side of Loxahatchee Road, 0.7 mi west of U.S. Highway 441, and 5.1 mi north of Margate. (Corrected).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

REVISED RECORDS.--WDR FL-99-2A, 1998

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to November 20, 2001, electronic data logger with water-stage shaft encoder and acoustic Doppler velocity meter with cellular phone/radio telemetry provided by South Florida Water Management District. Use of telemetry data started in September, 1999. Digital water-stage recorder removed September 27, 1999. Electromagnetic velocity meter prior to October 1, 1999. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except estimated daily discharges, which are poor. Flow affected by regulation downstream at structure G-56 and upstream storage releases at control structures S-39 and S-39A. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 19 complete water years of discharge (1977-89, 1996, 1998-2001, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.88 ft Apr. 25, 1979; minimum, 4.15 ft May 20, 1978.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 9.08 ft June 5; minimum, 6.44 ft July 11, Sept. 21.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.42	8.08	7.60	8.04	7.63	7.66	7.33	7.78	8.09	7.75	7.71	8.05
2	7.54	8.03	7.81	7.91	7.52	7.60	7.47	7.86	8.08	7.72	7.87	7.98
3	7.42	7.56	7.78	7.75	7.77	---	7.45	7.81	8.18	7.76	8.05	7.81
4	7.49	7.47	7.78	7.96	7.58	7.93	7.32	8.12	7.61	7.79	7.65	8.37
5	7.63	8.16	7.59	7.66	8.17	7.87	7.51	7.96	8.40	7.81	7.75	8.40
6	7.73	7.89	7.78	7.79	8.47	7.59	7.60	8.14	8.66	7.72	7.91	8.59
7	8.25	7.99	7.54	7.61	8.41	7.64	7.53	---	7.89	7.78	8.17	8.22
8	7.88	7.72	7.83	7.85	7.96	---	7.93	8.01	7.65	7.78	8.26	8.00
9	7.58	8.09	7.85	7.90	7.58	8.14	7.89	7.85	7.76	7.54	7.90	8.28
10	7.55	8.14	7.73	7.82	7.74	8.07	7.48	7.83	7.60	6.65	8.05	8.34
11	7.62	8.01	8.03	7.54	7.55	7.97	7.66	7.75	7.53	7.21	7.54	8.27
12	7.65	8.05	7.92	7.87	7.37	7.64	7.71	7.62	7.86	7.64	8.18	7.85
13	7.63	8.25	7.74	7.75	7.57	7.40	7.91	7.70	7.71	7.66	7.25	7.77
14	7.72	8.18	7.85	7.86	7.75	7.71	7.87	7.75	7.67	7.68	7.34	8.20
15	7.75	7.83	7.66	7.89	7.59	8.12	7.64	7.80	7.65	---	8.26	7.63
16	7.58	---	7.87	8.00	7.61	7.87	7.92	7.89	7.73	7.69	7.69	7.78
17	7.53	7.31	7.67	7.46	7.77	8.05	7.76	7.89	7.99	7.71	8.20	---
18	7.50	7.52	8.02	7.64	7.58	7.94	7.62	7.71	7.85	7.49	7.77	7.16
19	7.56	7.93	7.79	7.62	7.85	8.13	7.50	7.70	7.88	7.60	7.40	7.59
20	7.77	7.98	7.86	7.56	7.60	7.96	7.64	7.68	7.53	7.53	7.85	7.43
21	8.26	7.84	7.82	7.55	7.48	7.75	7.79	7.77	7.89	7.56	8.16	6.82
22	7.94	7.72	8.16	7.86	7.89	7.52	7.86	7.71	7.45	7.83	7.53	7.60
23	7.88	7.71	8.31	8.17	7.72	7.61	7.81	7.68	7.25	8.09	7.67	8.15
24	7.82	7.86	8.34	8.16	7.68	7.61	7.84	7.78	7.26	8.16	7.97	7.91
25	7.92	7.67	7.97	7.85	8.02	7.67	7.77	7.83	6.92	7.92	8.11	7.54
26	8.00	7.82	7.80	7.90	8.00	7.68	---	7.80	6.91	8.18	7.53	7.91
27	8.05	7.60	7.50	7.96	7.67	7.66	---	7.72	6.92	7.81	6.97	8.15
28	8.08	7.95	7.66	7.91	7.25	7.57	7.63	7.85	7.06	7.89	7.89	8.20
29	8.02	7.70	7.80	7.86	---	7.35	7.76	8.13	7.36	7.98	8.06	7.55
30	8.13	7.80	7.61	7.89	---	7.35	7.85	8.18	7.68	7.69	7.77	7.85
31	8.06	---	8.02	7.83	---	7.35	---	8.00	---	7.67	7.88	---
TOTAL	240.96	---	242.69	242.42	216.78	---	---	---	230.02	---	242.34	---
MEAN	7.77	---	7.83	7.82	7.74	---	---	---	7.67	---	7.82	---
MAX	8.26	---	8.34	8.17	8.47	---	---	---	8.66	---	8.26	---
MIN	7.42	---	7.50	7.46	7.25	---	---	---	6.91	---	6.97	---

02281400 HILLSBORO CANAL NEAR MARGATE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	439	205	131	64	76	189	456	70	147	576	248	e148
2	480	130	137	58	96	204	436	112	270	633	123	291
3	435	131	126	86	95	e141	447	118	491	611	131	170
4	486	105	123	69	81	151	424	92	595	592	131	238
5	582	107	125	107	50	112	390	138	461	576	81	258
6	584	121	104	106	57	70	184	236	561	607	183	469
7	686	99	156	101	91	78	82	e291	512	591	316	586
8	599	113	144	68	87	e74	148	272	401	603	372	360
9	589	94	90	41	102	179	135	187	535	488	261	314
10	595	93	100	78	163	291	63	135	563	186	112	133
11	589	89	53	96	174	126	59	168	278	368	129	178
12	592	100	53	79	172	130	60	164	506	566	255	264
13	562	89	83	74	131	132	47	161	612	540	353	119
14	596	153	77	136	70	68	44	121	604	555	158	104
15	616	145	84	256	66	84	106	155	594	e580	188	153
16	555	e106	83	117	98	154	23	118	535	546	154	86
17	555	93	74	85	54	262	35	54	472	557	85	e121
18	568	130	109	61	84	255	185	123	544	578	153	166
19	605	107	104	81	72	97	150	210	537	561	93	326
20	522	85	57	79	53	120	152	178	322	591	30	399
21	402	92	80	66	112	137	77	145	453	591	96	e81
22	314	104	58	36	98	157	82	170	383	504	106	62
23	178	123	74	41	87	104	62	190	364	396	66	64
24	187	99	119	62	143	187	41	116	378	373	312	137
25	199	110	53	63	162	215	126	85	244	395	416	59
26	134	99	90	60	163	242	e160	53	192	267	466	53
27	124	96	145	62	156	261	e134	55	268	135	131	83
28	131	91	135	84	113	336	190	43	308	127	150	188
29	149	111	81	62	---	445	152	48	366	339	106	149
30	108	107	95	28	---	437	81	67	503	236	241	60
31	123	---	99	60	---	450	---	63	---	221	210	---
TOTAL	13,284	3,327	3,042	2,466	2,906	5,888	4,731	4,138	12,999	14,489	5,856	5,819
MEAN	429	111	98.1	79.5	104	190	158	133	433	467	189	194
MAX	686	205	156	256	174	450	456	291	612	633	466	586
MIN	108	85	53	28	50	68	23	43	147	127	30	53
AC-FT	26,350	6,600	6,030	4,890	5,760	11,680	9,380	8,210	25,780	28,740	11,620	11,540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	211	203	206	240	223	197	187	140	203	220	236	241
MAX	719	671	738	541	634	708	458	452	527	624	630	518
(WY)	(2000)	(2000)	(2000)	(1998)	(1998)	(1998)	(1983)	(2000)	(2003)	(1986)	(1995)	(1995)
MIN	71.8	38.6	2.47	47.4	40.8	27.1	38.0	14.7	45.4	63.1	35.2	40.3
(WY)	(1999)	(1997)	(1997)	(1992)	(1997)	(1997)	(1997)	(1997)	(1985)	(1994)	(1996)	(1992)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005	
ANNUAL TOTAL	78,945			
ANNUAL MEAN	216		221	
HIGHEST ANNUAL MEAN			351	2000
LOWEST ANNUAL MEAN			103	1977
HIGHEST DAILY MEAN	686	Oct 7	1,300	Oct 18, 1999
LOWEST DAILY MEAN	23	Apr 16	-247	Apr 25, 1979
ANNUAL SEVEN-DAY MINIMUM	53	Apr 11	-45	Nov 17, 1976
ANNUAL RUNOFF (AC-FT)	156,600		160,100	
10 PERCENT EXCEEDS	555		545	
50 PERCENT EXCEEDS	135		154	
90 PERCENT EXCEEDS	62		52	

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.

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26 10'22", long 80 10'47", in NW $\frac{1}{4}$ sec.20, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, 20 ft from south bank, 120 ft upstream from salinity-control structure S-36, 1.5 mi east of bridge on U.S. Highway 441, and 5 mi west of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1955 to September 1961 (gage heights only), October 1961 to current year.

GAGE.--Electronic data logger with water-stage shaft encoder for upstream and downstream. Electronic data logger for gate opening until November 12, 2003. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1, 1993, both upstream and downstream gage heights at datum, 0.21 ft lower. Discharge not affected by the change in datum. Electromagnetic velocity meter and deflection vane recorder at same site prior to October 1, 1985.

REMARKS.--No estimated daily discharges. Records fair. Flow is at times affected by tide and occasionally reversed. Flow is regulated by operation of salinity-control structure 36. Discharge computed from the relationship of gate opening versus head difference. Records of gage heights prior to October 1961 are available in files of the U.S. Geological Survey. Starting in the 2002 water year, the downstream record published is maximum and minimum stage for each calendar day. Prior to the 2002 water year, daily mean was published.

COOPERATION.--Gage height and S-36 gate-operation records provided by South Florida Water Management District upon request.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 36 complete water years of discharge (1962-90, 1998-2003, 2005).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.59 ft (present datum) Dec. 27, 1958; minimum, -0.32 ft (present datum) June 28, 1958.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 5.16 ft Aug. 6; minimum, 3.19 ft June 25.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.76 ft Sept. 20; minimum, -0.79 ft Dec.12.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.56	5.03	4.73	4.82	4.69	4.45	4.53	4.27	4.89	3.71	4.76	4.68
2	3.84	5.01	4.72	4.82	4.68	4.41	4.55	4.27	5.02	3.70	4.86	4.72
3	3.98	4.99	4.72	4.81	4.67	4.38	4.54	4.28	4.82	3.51	4.96	4.79
4	4.00	4.98	4.71	4.79	4.68	4.55	4.51	4.55	4.14	3.49	4.89	4.83
5	3.93	4.98	4.70	4.79	4.66	4.57	4.49	4.96	3.46	3.89	4.45	4.82
6	4.03	4.98	4.69	4.79	4.64	4.56	4.46	4.71	3.51	3.95	4.47	4.54
7	4.44	4.97	4.67	4.78	4.62	4.54	4.45	4.43	4.13	3.89	4.90	4.63
8	4.59	4.96	4.66	4.77	4.62	4.56	4.72	4.34	4.89	3.85	4.87	4.63
9	4.69	4.94	4.66	4.77	4.61	4.66	4.80	4.55	4.52	3.77	4.92	4.54
10	4.75	4.92	4.67	4.76	4.62	4.96	4.78	4.60	3.40	3.42	4.90	4.41
11	4.80	4.92	4.68	4.74	4.58	4.98	4.75	4.61	3.50	3.96	4.79	4.44
12	4.85	4.93	4.66	4.71	4.56	4.96	4.72	4.59	3.51	4.99	4.67	4.35
13	4.89	4.91	4.65	4.68	4.53	4.93	4.72	4.56	3.88	4.73	4.61	4.45
14	4.89	4.89	4.66	4.73	4.52	4.91	4.69	4.52	4.58	4.62	4.54	4.74
15	4.95	4.85	4.64	4.85	4.50	4.86	4.64	4.51	4.78	4.52	4.47	4.84
16	4.96	4.84	4.61	4.91	4.50	4.83	4.60	4.48	4.89	4.41	4.35	4.88
17	4.95	4.84	4.70	4.90	4.49	4.88	4.57	4.45	5.05	4.43	4.52	4.89
18	4.94	4.83	4.85	4.87	4.47	4.87	4.53	4.43	5.04	4.78	4.69	4.03
19	4.96	4.81	4.87	4.86	4.44	4.62	4.49	4.40	4.72	4.92	4.73	3.75
20	4.97	4.81	4.85	4.86	4.43	4.39	4.43	4.41	4.38	4.98	4.62	3.74
21	4.44	4.79	4.82	4.85	4.44	4.34	4.39	4.42	3.49	5.01	4.35	4.15
22	4.36	4.79	4.79	4.83	4.44	4.53	4.39	4.44	3.63	5.02	4.57	4.77
23	4.73	4.77	4.80	4.83	4.42	4.63	4.39	4.42	3.59	5.03	4.65	4.92
24	4.91	4.77	4.83	4.80	4.42	4.65	4.38	4.42	3.68	5.02	3.91	4.57
25	5.00	4.78	4.85	4.78	4.44	4.67	4.34	4.39	3.55	5.03	3.51	4.38
26	5.03	4.77	4.88	4.77	4.44	4.67	4.32	4.45	3.48	5.07	3.64	4.46
27	5.05	4.76	4.83	4.76	4.45	4.67	4.34	4.71	3.59	5.09	3.94	4.74
28	5.05	4.77	4.79	4.71	4.47	4.68	4.32	4.71	3.87	5.03	4.68	4.82
29	5.04	4.75	4.77	4.69	---	4.64	4.29	4.70	3.58	4.62	4.85	4.92
30	5.03	4.73	4.76	4.73	---	4.60	4.27	4.71	3.58	4.37	4.49	5.06
31	5.03	---	4.78	4.71	---	4.57	---	4.68	---	4.46	4.66	---
TOTAL	144.64	146.07	147.00	148.47	127.03	144.52	135.40	139.97	123.15	137.27	141.22	137.49
MEAN	4.67	4.87	4.74	4.79	4.54	4.66	4.51	4.52	4.11	4.43	4.56	4.58
MAX	5.05	5.03	4.88	4.91	4.69	4.98	4.80	4.96	5.05	5.09	4.96	5.06
MIN	3.56	4.73	4.61	4.68	4.42	4.34	4.27	4.27	3.40	3.42	3.51	3.74

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.67	0.45	2.54	0.36	2.01	-0.03	1.91	-0.09	2.38	0.26	1.99	-0.37
2	2.38	0.24	2.29	0.30	2.07	0.06	1.92	-0.03	2.49	0.03	2.02	-0.36
3	2.33	0.26	2.09	0.24	1.93	0.04	1.78	-0.17	2.37	0.14	2.00	-0.33
4	2.21	0.40	2.07	0.30	1.91	0.16	1.79	-0.26	2.64	0.37	2.10	-0.40
5	2.16	0.45	2.32	0.51	1.76	-0.01	1.96	-0.38	3.01	0.37	1.84	-0.57
6	2.01	0.46	2.41	0.73	1.72	-0.20	2.02	-0.36	3.21	0.30	1.81	-0.57
7	2.23	0.56	2.66	0.77	1.84	-0.30	2.07	-0.48	3.04	0.16	2.01	-0.57
8	2.57	0.76	2.63	0.61	1.98	-0.39	2.24	-0.62	3.26	0.08	2.16	-0.55
9	2.75	0.84	2.76	0.44	1.94	-0.65	2.16	-0.71	3.14	0.00	2.37	-0.60
10	2.83	0.65	3.11	0.55	2.09	-0.73	2.26	-0.74	3.00	-0.04	2.43	-0.51
11	2.83	0.58	3.07	0.26	2.27	-0.75	2.56	-0.66	2.91	0.02	2.38	-0.42
12	3.03	0.55	3.26	0.19	2.33	-0.79	2.47	-0.54	2.81	0.09	2.19	-0.47
13	3.13	0.57	3.09	0.02	2.24	-0.78	2.62	-0.36	2.80	0.19	2.13	-0.46
14	3.05	0.28	2.87	-0.16	2.34	-0.64	2.13	-0.47	2.70	-0.02	2.04	-0.60
15	3.29	0.34	2.95	-0.10	2.22	-0.71	2.24	-0.25	2.25	-0.24	1.82	-0.37
16	3.04	0.16	2.97	0.12	2.32	-0.33	2.14	-0.24	1.86	-0.02	1.92	-0.19
17	2.90	0.02	2.85	0.14	2.54	-0.15	2.14	0.20	2.02	-0.10	1.85	0.18
18	2.86	0.08	2.73	0.27	2.33	0.00	2.46	0.17	1.82	-0.06	1.87	0.25
19	2.61	0.06	2.65	0.29	2.28	-0.04	2.37	0.18	1.88	-0.08	1.81	0.35
20	2.38	-0.03	2.60	0.28	2.15	-0.17	2.31	0.18	1.70	-0.27	2.00	0.36
21	2.63	0.74	2.50	0.14	2.21	-0.17	2.52	0.22	1.76	-0.41	2.06	0.35
22	2.78	0.82	2.52	0.07	2.24	-0.16	2.22	0.03	1.72	-0.50	2.20	0.15
23	3.00	0.63	2.75	0.18	2.44	0.04	2.28	-0.01	1.78	-0.58	2.12	-0.08
24	3.22	0.74	2.84	0.14	2.35	-0.22	2.22	-0.18	2.02	-0.41	2.07	-0.21
25	3.33	0.82	2.58	0.02	2.46	-0.18	2.32	-0.08	1.96	-0.47	2.14	-0.28
26	3.41	0.85	2.56	-0.18	2.26	-0.03	2.67	0.16	2.07	-0.31	2.30	-0.23
27	3.34	0.71	2.55	-0.04	2.08	-0.30	2.44	-0.01	2.30	-0.15	2.29	-0.31
28	3.18	0.51	2.50	0.05	2.22	-0.21	2.60	0.17	2.32	-0.29	2.20	-0.40
29	3.09	0.48	2.28	-0.05	2.28	-0.06	2.35	0.08	---	---	2.20	-0.41
30	3.01	0.45	2.35	0.00	2.23	-0.13	2.61	0.43	---	---	2.19	-0.39
31	2.86	0.46	---	---	2.12	0.03	2.58	0.22	---	---	2.15	-0.31
MONTH	3.41	-0.03	3.26	-0.18	2.54	-0.79	2.67	-0.74	3.26	-0.58	2.43	-0.60
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.13	-0.22	2.31	-0.07	2.48	0.27	2.40	0.57	1.94	-0.21	2.40	0.50
2	2.19	-0.22	2.31	0.02	2.49	0.02	2.40	0.54	2.01	-0.14	2.58	0.63
3	2.08	-0.15	2.34	-0.06	2.50	0.25	2.06	0.39	2.19	-0.07	2.78	0.70
4	2.12	-0.29	2.37	-0.10	2.70	0.44	1.90	-0.06	2.13	0.10	2.87	0.85
5	2.34	-0.21	2.56	-0.09	2.52	0.74	1.95	-0.14	2.22	0.21	2.75	0.83
6	2.55	-0.13	2.59	0.11	2.54	0.74	2.06	0.00	2.30	-0.02	2.96	0.95
7	2.63	-0.21	2.58	0.09	2.33	-0.21	2.20	0.08	2.43	0.42	2.96	0.84
8	2.68	-0.21	2.68	-0.07	2.58	0.00	2.44	0.27	2.44	0.51	3.09	0.89
9	2.60	-0.29	2.41	-0.29	2.66	0.36	2.55	1.03	2.48	0.48	3.25	1.08
10	2.50	-0.32	2.40	-0.21	2.71	1.01	2.61	0.85	2.45	0.46	3.26	1.22
11	2.51	-0.25	2.27	-0.22	2.61	1.02	2.19	-0.08	2.42	0.53	3.12	1.05
12	2.43	-0.18	2.21	-0.17	2.46	0.74	1.87	0.00	2.38	0.51	3.05	0.91
13	2.27	-0.14	2.10	0.14	2.19	0.34	1.91	0.30	2.47	0.40	2.93	0.58
14	2.14	0.08	2.20	0.20	2.20	0.38	2.16	0.37	2.56	0.44	3.16	0.54
15	2.13	0.27	2.14	0.29	2.13	0.31	2.23	0.38	2.56	0.31	3.21	0.50
16	2.12	0.44	2.09	0.35	2.29	0.20	2.30	0.31	2.63	0.28	3.29	0.52
17	2.14	0.69	2.01	0.25	2.53	0.22	2.35	0.08	2.68	-0.10	3.26	0.43
18	2.27	0.56	2.09	0.23	2.70	0.19	2.52	-0.19	2.78	-0.16	3.57	0.38
19	2.28	0.53	2.28	0.16	2.78	0.37	2.72	-0.12	2.94	-0.06	3.42	0.92
20	2.30	0.29	2.48	0.06	2.91	0.32	2.89	-0.11	3.04	0.13	3.76	1.21
21	2.47	0.23	2.68	-0.11	2.83	0.68	2.84	-0.20	3.01	0.17	3.30	0.76
22	2.63	0.11	2.67	-0.12	2.86	0.46	2.83	-0.11	2.96	0.00	2.96	0.48
23	2.54	-0.09	2.71	-0.24	3.14	0.36	2.83	-0.24	2.92	0.08	2.85	0.50
24	2.54	-0.30	2.86	-0.22	3.10	0.95	2.73	-0.03	2.88	0.23	2.60	0.71
25	2.33	-0.47	2.86	-0.12	3.10	0.70	2.69	-0.06	2.89	0.81	2.46	0.74
26	2.33	-0.53	2.92	0.10	2.90	0.67	2.58	-0.07	2.87	0.92	2.48	0.69
27	2.27	-0.61	2.85	-0.09	2.73	0.33	2.33	-0.11	2.35	0.55	2.56	0.74
28	2.14	-0.39	2.66	0.03	2.65	0.36	2.15	-0.25	2.08	0.13	2.65	0.75
29	2.31	-0.25	2.61	0.09	2.44	0.66	1.92	0.11	2.17	0.01	2.72	0.70
30	2.32	-0.18	2.57	0.20	2.61	0.43	2.01	0.04	2.17	0.47	2.67	0.59
31	---	---	2.51	0.12	---	---	1.87	-0.22	2.32	0.49	---	---
MONTH	2.68	-0.61	2.92	-0.29	3.14	-0.21	2.89	-0.25	3.04	-0.21	3.76	0.38
YEAR	3.76	-0.79										

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	268	0.00	170
2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44	273	0.00	169
3	148	0.00	0.00	0.00	0.00	0.00	0.00	1.7	167	274	0.00	167
4	148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	332	227	96	163
5	146	0.00	0.00	0.00	0.00	0.00	0.00	67	402	158	164	163
6	62	0.00	0.00	0.00	0.00	0.00	0.00	171	382	156	100	216
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	167	124	152	170	154
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87	0.00	147	167	151
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	259	469	169	143
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	390	498	167	136
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	359	223	164	142
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300	73	161	147
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113	168	160	62
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	163	156	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158	156	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	157	153	0.00
17	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	88	29	0.00
18	0.00	0.00	0.00	0.00	0.00	177	0.00	0.00	63	0.00	0.00	259
19	0.00	0.00	0.00	0.00	0.00	172	0.00	0.00	160	0.00	0.00	200
20	85	0.00	0.00	0.00	0.00	163	1.9	0.00	272	0.00	68	181
21	269	0.00	0.00	0.00	0.00	66	0.00	0.00	377	0.00	94	100
22	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	252	0.40	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	236	0.00	0.00	65
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	347	0.00	253	149
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	265	0.00	222	146
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	232	0.00	236	61
27	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	163	0.00	122	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	195	60	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	253	170	84	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	232	166	234	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	67	173	---
TOTAL	1,310.00	0.00	0.00	0.00	0.00	597.00	2.30	494.60	5,919.00	4,115.40	3,498.00	3,144.00
MEAN	42.3	0.00	0.00	0.00	0.00	19.3	0.08	16.0	197	133	113	105
MAX	269	0.00	0.00	0.00	0.00	177	1.9	171	402	498	253	259
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	2,600	0.00	0.00	0.00	0.00	1,180	4.6	981	11,740	8,160	6,940	6,240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	89.6	69.2	33.3	29.5	34.1	31.3	30.1	39.9	104	88.2	99.1	104
MAX	277	332	161	123	252	246	220	249	306	226	308	336
(WY)	(1984)	(1995)	(1999)	(1979)	(2004)	(1983)	(1979)	(1979)	(1999)	(1980)	(1982)	(1983)
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)	(1962)	(1962)	(1962)	(1962)	(1962)	(1962)	(1963)	(1962)	(1963)	(1963)	(1963)	(1967)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	19,080.30			
ANNUAL MEAN	52.3		60.9	
HIGHEST ANNUAL MEAN			197	1983
LOWEST ANNUAL MEAN			1.44	1971
HIGHEST DAILY MEAN	498	Jul 10	1,490	Apr 25, 1979
LOWEST DAILY MEAN	0.00	Oct 7	-402	Sep 6, 1997
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 7	-53	Oct 21, 1999
ANNUAL RUNOFF (AC-FT)	37,850		44,130	
10 PERCENT EXCEEDS	171		204	
50 PERCENT EXCEEDS	0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00	

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.

02283500 NORTH NEW RIVER CANAL BELOW S-351, NEAR SOUTH BAY, FL

LOCATION.--Lat 26 41'50", long 80 42'50", in SW $^{1}/_{4}$ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, 30 ft from west bank, 800 ft downstream from Hillsboro Canal, 1,600 ft downstream from gate structure S-351 and pump station 2 at Lake Okeechobee, and 2.5 mi north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1957 to current year. Records of gage heights prior to October 1961 are available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR FL-77-2A, 1974, 1975; WDR FL-92-2A, 1991; WDR FL-93-2A, 1977, 1985.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to January 1, 2002, acoustic velocity meter at same site and datum. Prior to October 1, 1986, water-stage recorder at pump station 2 used for gage heights at this station. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to January 18, 1954, water-stage and deflection-meter recorder at site 1,600 ft downstream at same datum. January 19, 1965 to September 30, 1967, deflection-meter recorder at site 1,600 ft downstream. Satellite data collection platform collecting stage and velocity data was installed November 29, 1990.

REMARKS.--Records poor. Flow regulated by S-351 gate and pump station at Lake Okeechobee. Flow occasionally reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, by pumping at structure 2 or by gravity flow through gates during periods of negative heads (negative figures indicate flow reversed). Discharge was the difference in flow between North New River Canal at S-2 and S-351 and Hillsboro Canal below S-351 October 1967 to June 9, 1987. Records of stage and discharge for water year 2002 are published in the data book for water year 2003.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 43 complete water years of discharge (1958-95,1997-98, 2000, 2004-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.09 ft Sept. 28, 1962; minimum, 6.98 ft Oct. 28, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.85 ft June 4; minimum, 8.97 ft Mar. 21.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.87	10.78	11.21	---	10.26	10.43	11.51	12.12	10.92	11.99	10.95
2	---	11.16	10.92	11.06	10.83	10.45	10.41	11.56	12.07	10.51	11.35	11.11
3	---	10.97	10.86	11.08	10.91	10.69	10.47	11.19	11.93	10.71	10.85	11.88
4	---	10.84	11.05	11.19	11.57	10.91	10.43	10.74	12.47	10.66	10.01	12.12
5	---	10.93	11.13	11.28	11.53	9.75	10.53	11.84	11.70	10.76	10.40	11.05
6	---	11.10	10.93	11.16	11.54	10.39	10.40	11.61	12.01	10.34	11.07	11.23
7	---	10.90	10.94	11.22	11.51	10.83	10.49	10.09	11.85	9.94	10.82	10.70
8	---	10.73	11.27	11.23	11.49	10.77	10.34	9.50	11.90	10.35	10.97	9.75
9	---	11.05	11.44	11.24	11.53	11.05	10.19	10.25	11.09	10.56	10.31	10.29
10	---	11.03	11.40	11.15	11.56	12.22	10.38	10.37	11.25	10.68	10.17	10.27
11	---	10.82	11.37	11.18	11.52	11.53	10.32	10.80	11.82	10.35	10.95	10.51
12	---	10.86	---	11.23	11.63	10.79	10.36	11.13	11.46	10.08	11.03	10.50
13	---	---	---	11.28	11.49	9.51	10.90	11.14	10.75	10.76	11.09	10.15
14	---	11.08	---	11.38	11.34	10.12	10.88	11.01	10.51	10.73	11.04	10.29
15	10.26	10.94	---	11.81	11.61	10.71	11.01	11.08	11.10	e10.54	10.98	10.52
16	10.13	10.69	---	11.42	11.47	10.75	11.09	10.89	11.32	---	10.76	10.38
17	10.25	11.09	11.26	10.82	11.45	10.72	10.99	10.86	11.32	11.23	10.46	10.64
18	10.29	---	11.47	10.55	11.28	11.64	11.13	10.67	11.17	11.12	10.80	10.56
19	10.51	---	11.51	10.71	10.73	11.21	11.48	10.36	10.35	10.13	11.02	10.49
20	10.25	---	11.60	10.56	11.24	10.03	11.36	10.73	10.94	9.93	10.44	10.54
21	10.79	11.10	11.59	10.48	11.31	9.82	11.36	10.99	10.22	10.12	10.54	9.68
22	10.81	11.00	11.32	11.10	11.41	10.68	11.33	10.99	9.59	9.96	10.88	10.45
23	10.30	10.72	10.94	10.97	11.71	10.17	11.33	11.12	10.40	10.07	10.70	10.78
24	10.48	11.00	10.93	11.02	11.32	10.03	11.34	11.42	11.08	10.35	10.68	10.91
25	10.58	10.93	10.94	10.91	11.24	9.70	11.29	11.55	10.11	10.51	10.18	10.90
26	10.50	---	11.10	11.10	11.32	9.53	11.25	11.63	9.95	10.49	10.13	10.84
27	10.57	---	11.39	10.76	10.89	10.56	10.90	11.33	11.61	10.25	10.68	11.18
28	11.06	10.89	11.35	11.10	10.86	10.73	11.14	11.17	12.24	10.34	11.04	10.54
29	10.97	10.98	11.19	11.10	---	10.03	11.34	10.07	12.30	10.80	10.95	11.39
30	11.06	10.92	11.26	10.94	---	9.97	11.22	9.95	11.95	11.12	10.66	10.41
31	11.05	---	11.34	10.77	---	10.60	---	10.87	---	11.06	10.64	---
TOTAL	---	---	---	343.01	---	326.15	326.09	338.42	338.58	---	333.59	321.01
MEAN	---	---	---	11.06	---	10.52	10.87	10.92	11.29	---	10.76	10.70
MAX	---	---	---	11.81	---	12.22	11.48	11.84	12.47	---	11.99	12.12
MIN	---	---	---	10.48	---	9.51	10.19	9.50	9.59	---	10.01	9.68

e Estimated

02283500 NORTH NEW RIVER CANAL BELOW S-351, NEAR SOUTH BAY, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e651	192	257	95	e29	-216	97	1,280	157	-224	253	-263
2	e261	346	217	129	293	377	18	1,330	129	-36	-54	351
3	e-58	163	235	298	509	104	-59	903	-212	-128	-553	297
4	e39	233	208	439	613	-3.8	73	315	-130	-379	-353	-3.8
5	e71	264	234	333	518	-20	171	-2.7	-371	-382	-353	166
6	e299	230	600	389	280	-207	179	-140	-16	-229	-374	129
7	e252	16	1,240	451	726	113	-17	-82	-629	-395	-450	-72
8	e328	262	1,270	390	600	-76	-218	-2.3	-768	-276	-422	3.5
9	e368	357	1,280	331	688	153	-141	-194	-517	-39	-62	-171
10	e191	233	1,100	371	776	111	-66	-37	-182	-311	-52	-88
11	e234	296	1,100	330	754	-27	-54	390	-219	-72	-321	-97
12	e258	324	1,150	337	617	269	118	426	-614	-277	-270	-238
13	e-92	e422	1,190	59	440	-26	283	311	-499	-502	-217	-178
14	e301	172	e1,280	-55	698	-332	389	381	34	-2.7	-116	229
15	0.04	-11	e1,290	111	884	-387	491	260	-234	e-220	-120	290
16	141	59	e1,260	26	1,010	-282	255	270	-318	e-272	-118	322
17	11	234	1,380	-143	1,090	-80	214	333	-351	-318	-239	201
18	98	e94	1,210	59	485	325	741	118	22	-310	-69	130
19	157	e274	1,240	-70	114	174	1,130	415	294	-222	-272	-125
20	-86	e352	1,070	10	238	108	1,540	572	-113	-374	-72	38
21	-342	203	483	35	304	66	1,460	532	-393	-423	-89	73
22	-264	170	310	253	773	-392	1,450	362	-181	-6.8	186	-120
23	-194	183	29	252	435	-389	1,470	585	-468	277	145	82
24	-171	96	-82	251	58	-304	1,530	691	-631	265	110	-34
25	-207	4.9	-17	226	38	-225	1,500	645	-329	255	204	-89
26	-52	e135	-19	73	-128	-56	1,400	354	-281	151	145	13
27	231	e123	107	252	299	-411	984	135	-318	281	108	267
28	3.1	151	83	415	113	-482	1,250	-51	163	355	60	141
29	200	183	225	8.9	---	-309	1,410	-256	39	313	-101	409
30	214	164	254	-18	---	122	1,370	198	-26	234	6.5	-18
31	-21	---	179	355	---	142	---	162	---	221	-227	---
TOTAL	2,821.14	5,924.9	20,363	5,992.9	13,254	-2,160.8	18,968	10,203.0	-6,962	-3,046.5	-3,686.5	1,644.7
MEAN	91.0	197	657	193	473	-69.7	632	329	-232	-98.3	-119	54.8
MAX	651	422	1,380	451	1,090	377	1,540	1,330	294	355	253	409
MIN	-342	-11	-82	-143	-128	-482	-218	-256	-768	-502	-553	-263
AC-FT	5,600	11,750	40,390	11,890	26,290	-4,290	37,620	20,240	-13,810	-6,040	-7,310	3,260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	-33.3	112	176	149	217	276	490	357	-29.4	-107	-97.2	-233
MAX	609	776	685	751	1,141	1,525	1,405	1,393	1,073	819	401	900
(WY)	(1995)	(1974)	(1996)	(1996)	(1993)	(1985)	(1993)	(1992)	(1979)	(1992)	(1974)	(1992)
MIN	-779	-431	-309	-1,487	-283	-782	-265	-668	-987	-939	-1,086	-1,902
(WY)	(1961)	(1999)	(1995)	(1958)	(1958)	(1970)	(1958)	(1972)	(1982)	(1959)	(1981)	(1960)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	97,958.16		63,315.84			
ANNUAL MEAN	268		173		114	
HIGHEST ANNUAL MEAN					501	1992
LOWEST ANNUAL MEAN					-232	1982
HIGHEST DAILY MEAN	1,530	May 29	1,540	Apr 20	2,920	Mar 13, 1985
LOWEST DAILY MEAN	-965	Sep 7	-768	Jun 8	-3,460	Jun 25, 1982
ANNUAL SEVEN-DAY MINIMUM	-285	Sep 4	-490	Jun 7	-2,720	Jun 18, 1959
ANNUAL RUNOFF (AC-FT)	194,300		125,600		82,620	
10 PERCENT EXCEEDS	763		732		704	
50 PERCENT EXCEEDS	203		122		117	
90 PERCENT EXCEEDS	-135		-309		-411	

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.

263537080211400 NORTH LOXAHATCHEE CONSERVATION AREA NO.1, NEAR BOYNTON BEACH, FL

LOCATION.--Lat 26 35'37", long 80 21'14", in T.46 S., R.41 E., Palm Beach County, Hydrologic Unit 03090202 in Loxahatchee Wildlife Refuge (Arthur R. Marshall). Township and range approximated from topographic map for which most section lines are not delineated, unable to determine section.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2001 to current year. (Corrected). See REMARKS.

REVISED RECORDS.--WDR FL-03-2A, 2002.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is North American Vertical Datum of 1988 (NAVD 88). (Corrected). See REVISIONS.

REMARKS.--Station is one of several located in Conservation Area No. 1. Station was established at arbitrary datum in June 2001. Record prior to Oct. 1, 2001 is considered unreliable. All daily values records revised to NAVD 88. Unit values data prior to Oct. 1, 2004, requires a conversion of -1.67 ft to convert record to NAVD 88.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 16.27 ft Sept. 30, 2004 (Corrected to NAVD 88); minimum, 13.99 ft May 15, 16, 2002 (Corrected to NAVD 88).

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 16.38 ft Oct. 2; minimum, 14.41 ft May 15.

REVISIONS.--Revised figures of gage height for the 2002, 2003 and 2004 water years, superseding those published in WDR FL-02-2A, WDR FL-03-2A, and WDR FL-04-2A, are provided below in the following tables.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.74	15.90	15.44	---	15.04	15.20	14.80	14.41	14.17	14.99	15.05	14.94
2	15.73	15.89	15.44	---	15.03	15.18	14.79	14.38	14.13	15.04	15.04	14.98
3	15.71	15.89	15.43	---	15.02	15.17	14.81	14.36	14.10	15.04	15.06	14.99
4	15.71	15.87	15.42	---	15.01	15.16	14.86	14.33	14.07	15.02	15.04	15.00
5	15.70	15.92	15.40	---	14.99	15.14	14.84	14.30	14.04	15.01	15.04	15.01
6	15.70	15.92	15.39	---	14.98	15.13	14.83	14.27	14.13	15.02	15.04	15.03
7	15.69	15.89	15.48	---	14.98	15.12	14.81	14.24	14.33	15.02	15.02	15.04
8	15.68	15.86	15.51	---	14.96	15.14	14.79	14.21	14.36	15.06	15.01	15.05
9	15.67	15.83	15.49	---	14.96	15.12	14.77	14.18	14.43	15.19	14.99	15.06
10	15.66	15.81	15.47	---	15.10	15.10	14.75	14.15	14.41	15.22	14.97	15.06
11	15.65	15.79	15.46	---	15.27	15.09	14.74	14.11	14.39	15.27	15.00	15.07
12	15.64	15.78	15.44	---	15.24	15.09	14.72	14.09	14.40	15.35	15.06	15.10
13	15.63	15.75	15.42	---	15.21	15.08	14.71	14.06	14.47	15.44	15.04	15.10
14	15.62	15.73	15.41	---	15.21	15.06	14.72	14.03	14.54	15.44	15.02	15.11
15	15.62	15.71	15.40	---	15.20	15.04	14.73	14.00	14.63	15.43	15.00	15.11
16	15.63	15.70	15.39	---	15.27	15.03	14.72	---	14.67	15.42	14.98	15.11
17	15.63	15.68	15.38	---	15.29	15.01	14.74	---	14.76	15.43	15.03	15.11
18	15.61	15.66	15.36	---	15.26	14.99	14.73	14.29	14.80	15.42	15.01	15.10
19	15.60	15.64	15.35	---	15.24	14.98	14.71	14.31	14.78	15.42	14.99	15.11
20	15.60	15.63	---	---	15.23	14.96	14.69	14.36	14.77	15.39	14.98	15.11
21	15.61	15.61	---	---	15.22	14.95	14.67	14.33	14.89	15.36	14.98	15.10
22	15.74	15.59	---	---	15.21	14.94	14.65	14.30	14.90	15.33	14.96	15.10
23	15.83	15.57	---	---	15.27	14.92	14.62	14.26	14.90	15.30	14.95	15.11
24	15.84	15.55	---	---	15.28	14.90	14.60	14.23	14.91	15.27	14.95	15.13
25	15.89	15.54	---	15.06	15.26	14.89	14.58	14.19	14.92	15.24	14.94	15.13
26	15.89	15.53	---	15.05	15.24	14.87	14.55	14.17	14.92	15.21	14.93	15.13
27	15.90	15.51	---	15.04	15.23	14.87	14.53	14.15	14.92	15.18	14.94	15.13
28	15.88	15.49	---	15.03	15.21	14.87	14.50	14.11	14.94	15.15	14.95	15.13
29	15.86	15.47	---	15.02	---	14.85	14.47	14.08	14.92	15.13	14.94	15.13
30	15.88	15.45	---	15.02	---	14.83	14.44	14.11	14.94	15.10	14.92	15.12
31	15.90	---	---	15.01	---	14.82	---	14.20	---	15.08	14.91	---
TOTAL	487.44	471.16	---	---	424.41	465.50	440.87	---	437.54	471.97	464.74	452.40
MEAN	15.72	15.71	---	---	15.16	15.02	14.70	---	14.58	15.22	14.99	15.08
MAX	15.90	15.92	---	---	15.29	15.20	14.86	---	14.94	15.44	15.06	15.13
MIN	15.60	15.45	---	---	14.96	14.82	14.44	---	14.04	14.99	14.91	14.94

REVISED

263537080211400 NORTH LOXAHATCHEE CONSERVATION AREA No.1, NEAR BOYNTON BEACH, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.11	15.03	15.18	15.49	15.22	14.96	14.99	14.79	14.71	15.01	14.92	15.58
2	15.11	15.04	15.18	15.49	15.21	14.95	14.98	14.79	14.69	14.99	14.98	15.59
3	15.10	15.03	15.18	15.51	15.19	14.94	14.96	14.77	14.67	14.97	15.01	15.57
4	15.09	15.03	15.17	15.50	15.18	14.94	14.95	14.75	14.69	14.95	15.01	15.57
5	15.09	15.03	15.17	15.49	15.17	14.92	14.94	14.73	14.88	14.94	14.99	15.60
6	15.07	15.02	15.17	15.48	15.16	14.91	14.92	14.70	14.90	14.94	14.99	15.65
7	15.06	15.02	15.17	15.47	15.15	14.90	14.90	14.68	14.88	14.93	15.07	15.66
8	15.05	15.01	15.17	15.46	15.14	14.88	14.88	14.65	14.95	14.92	15.07	15.65
9	15.04	15.01	15.19	15.46	15.13	14.87	14.87	14.63	15.11	14.90	15.13	15.64
10	15.03	15.00	15.30	15.45	15.12	14.87	14.87	14.60	15.10	14.87	15.20	15.64
11	15.02	14.99	15.31	15.44	15.10	14.86	14.85	14.57	15.11	14.85	15.20	15.68
12	15.01	14.99	15.32	15.43	15.09	14.85	14.83	14.54	15.07	14.83	15.21	15.65
13	14.99	14.99	15.34	15.42	15.07	14.83	14.81	14.51	15.03	14.81	15.22	15.64
14	14.99	---	15.37	15.44	15.06	14.83	14.79	14.48	15.00	14.79	15.29	15.62
15	14.98	14.98	15.38	15.43	15.06	14.82	14.78	14.45	14.98	14.79	15.33	15.61
16	14.99	15.01	15.38	15.42	15.05	14.81	14.77	14.42	14.96	14.86	15.35	15.59
17	14.98	15.11	15.38	15.41	15.05	14.92	14.75	14.40	14.94	14.84	15.36	15.57
18	14.97	15.10	15.38	15.39	15.03	14.93	14.74	14.38	14.95	14.83	15.37	15.54
19	14.96	15.10	15.39	15.38	15.02	14.92	14.73	14.39	15.01	14.81	15.39	15.51
20	14.96	15.10	15.42	15.37	15.02	14.90	14.71	14.42	15.00	14.80	15.42	15.50
21	14.95	15.24	15.47	15.35	15.01	14.95	14.69	14.38	15.01	14.78	15.47	15.49
22	14.95	15.23	15.47	15.35	15.00	14.97	14.67	14.41	15.02	14.77	15.49	15.47
23	14.95	---	15.49	15.34	15.03	15.02	14.65	14.49	15.02	14.79	15.51	15.45
24	14.95	15.21	15.50	15.32	15.01	15.03	14.62	14.50	15.04	14.78	15.56	15.44
25	14.96	15.20	15.51	15.31	15.00	15.00	14.60	14.52	15.02	14.77	15.57	15.45
26	---	15.20	15.52	15.30	14.99	14.99	14.72	14.57	15.05	14.76	15.58	15.44
27	15.03	15.19	15.52	15.28	14.98	15.01	14.79	14.70	15.12	14.75	15.57	15.45
28	15.03	15.19	15.51	15.27	14.97	15.07	14.82	14.76	15.08	14.74	15.58	15.50
29	15.02	---	15.50	15.26	---	15.05	14.81	14.76	15.06	14.77	15.60	15.52
30	15.02	15.18	15.49	15.24	---	---	14.79	14.75	15.03	14.87	15.58	15.58
31	15.02	---	15.48	15.23	---	15.01	---	14.73	---	14.91	15.57	---
TOTAL	---	---	476.01	477.18	422.21	---	444.18	452.22	449.08	460.32	474.59	466.85
MEAN	---	---	15.36	15.39	15.08	---	14.81	14.59	14.97	14.85	15.31	15.56
MAX	---	---	15.52	15.51	15.22	---	14.99	14.79	15.12	15.01	15.60	15.68
MIN	---	---	15.17	15.23	14.97	---	14.60	14.38	14.67	14.74	14.92	15.44

REVISED

263537080211400 NORTH LOXAHATCHEE CONSERVATION AREA No.1, NEAR BOYNTON BEACH, FL—Continued

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	15.59	15.22	15.27	15.27	15.29	15.23	14.89	14.74	14.52	14.33	14.49	14.88
2	15.60	15.24	15.26	15.26	15.29	15.22	14.87	14.72	14.49	14.30	14.56	14.86
3	15.62	15.27	15.25	15.25	15.27	15.21	14.85	14.79	14.46	14.27	14.67	14.86
4	15.63	15.28	15.24	15.24	15.26	15.19	14.83	14.95	14.52	14.33	14.66	14.95
5	15.62	15.31	15.25	15.24	15.25	15.18	14.82	14.92	14.65	14.43	14.67	15.33
6	15.61	15.38	15.31	15.23	15.24	15.17	14.80	14.90	14.68	14.53	14.69	15.44
7	15.58	15.41	15.29	15.22	15.24	15.16	14.79	14.88	14.67	14.50	14.67	15.46
8	15.57	15.41	15.28	15.21	15.22	15.14	14.77	14.86	14.69	14.46	14.65	15.50
9	15.55	15.42	15.27	15.20	15.21	15.13	14.76	14.84	14.67	14.43	14.63	15.56
10	15.53	15.42	15.29	15.20	15.20	15.11	14.75	14.82	14.67	14.39	14.62	15.60
11	15.53	15.42	15.30	15.19	15.20	15.10	14.73	14.80	14.66	14.37	14.63	15.62
12	15.55	15.41	15.29	15.18	15.19	15.08	14.78	14.79	14.64	14.38	14.62	15.64
13	15.52	15.42	15.28	15.17	15.18	15.07	14.86	14.77	14.63	14.35	14.68	15.62
14	15.49	15.42	15.31	15.16	15.17	15.06	14.92	14.74	14.60	14.31	14.67	15.59
15	15.47	15.41	15.38	15.16	15.18	15.05	14.90	14.72	14.57	14.29	14.66	15.56
16	15.44	15.40	15.37	15.15	15.17	15.08	14.88	14.79	14.54	14.32	14.64	15.52
17	15.42	15.39	15.37	15.14	15.16	15.11	14.87	14.89	14.52	14.32	14.63	15.48
18	15.41	15.39	15.36	15.15	15.15	15.09	14.85	14.87	14.51	14.33	14.68	15.43
19	15.39	15.39	15.36	15.16	15.14	15.07	14.83	14.85	14.49	14.33	14.79	15.39
20	15.37	15.38	15.35	15.16	15.14	15.06	14.81	14.83	14.45	14.30	14.77	15.39
21	15.35	15.37	15.34	15.15	15.13	15.05	14.80	14.81	14.49	14.27	14.75	15.63
22	15.34	15.35	15.34	15.14	15.12	15.03	14.78	14.79	14.54	14.24	14.77	15.74
23	15.32	15.35	15.34	15.14	15.11	15.02	14.76	14.77	14.51	14.21	14.81	15.66
24	15.30	15.34	15.33	15.12	15.11	15.00	14.74	14.75	14.47	14.18	14.82	15.60
25	15.29	15.33	15.32	15.12	15.19	14.99	14.72	14.72	14.44	14.18	14.84	15.61
26	15.30	15.32	15.32	15.11	15.31	14.98	14.70	14.70	14.41	14.25	14.87	16.04
27	15.28	15.31	15.31	15.11	15.28	14.96	14.68	14.67	14.38	14.42	14.85	16.12
28	15.27	15.30	15.30	15.11	15.26	14.94	14.67	14.64	14.34	14.42	14.83	16.17
29	15.27	15.29	15.29	15.10	15.24	14.93	14.66	14.61	14.36	14.45	14.82	16.22
30	15.25	15.27	15.28	15.10	---	14.92	14.76	14.58	14.36	14.44	14.81	16.26
31	15.24	---	15.27	15.18	---	14.91	---	14.55	---	14.43	14.84	---
TOTAL	478.70	460.62	474.52	470.32	440.90	467.24	443.83	458.06	435.93	444.76	456.09	466.73
MEAN	15.44	15.35	15.31	15.17	15.20	15.07	14.79	14.78	14.53	14.35	14.71	15.56
MAX	15.63	15.42	15.38	15.27	15.31	15.23	14.92	14.95	14.69	14.53	14.87	16.26
MIN	15.24	15.22	15.24	15.10	15.11	14.91	14.66	14.55	14.34	14.18	14.49	14.86

REVISED

263537080211400 NORTH LOXAHATCHEE CONSERVATION AREA No.1, NEAR BOYNTON BEACH, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.28	15.30	15.10	14.90	14.79	14.64	14.89	14.52	15.13	15.26	15.12	15.16
2	16.30	15.29	15.09	14.90	14.79	14.62	14.88	14.50	15.17	15.24	15.10	15.15
3	16.33	15.27	15.08	14.89	14.78	14.61	14.87	14.50	15.17	15.24	15.08	15.13
4	16.26	15.26	15.07	14.88	14.78	14.72	14.85	14.55	15.17	15.25	15.06	15.13
5	16.19	15.25	15.06	14.87	14.77	14.72	14.84	14.66	15.14	15.22	15.08	15.18
6	16.18	15.24	15.05	14.87	14.76	14.70	14.82	14.66	15.12	15.19	15.10	15.22
7	16.20	15.23	15.04	14.87	14.75	14.69	14.81	14.63	15.12	15.17	15.08	15.21
8	16.11	15.21	15.04	14.86	14.74	14.69	14.91	14.60	15.14	15.15	15.05	15.19
9	16.03	15.20	15.03	14.85	14.73	14.80	14.92	14.57	15.12	15.16	15.04	15.17
10	15.98	15.18	15.02	14.84	14.73	14.96	14.90	14.54	15.13	15.20	15.02	15.15
11	15.91	15.17	15.02	14.83	14.71	14.95	14.89	14.51	15.17	15.20	15.01	15.16
12	15.85	15.16	15.00	14.83	14.70	14.93	14.87	14.48	15.15	15.18	15.01	15.14
13	15.78	15.15	14.99	14.82	14.68	14.91	14.86	14.46	15.13	15.16	15.01	15.11
14	15.72	15.20	14.98	14.86	14.67	14.90	14.85	14.43	15.10	15.15	15.01	15.09
15	15.66	15.23	14.97	14.93	14.66	14.89	14.83	14.58	15.07	15.13	15.02	15.07
16	15.61	15.22	14.96	14.93	14.65	14.87	14.81	14.79	15.05	15.11	15.00	15.05
17	15.56	15.21	14.96	14.91	14.63	14.92	14.79	14.77	15.03	15.09	14.99	15.04
18	15.52	15.20	14.97	14.91	14.62	15.01	14.78	14.75	15.03	15.08	14.97	15.02
19	15.49	15.19	14.96	14.89	14.60	14.99	14.76	14.73	15.08	15.06	14.95	15.01
20	15.48	15.18	14.95	14.89	14.59	14.98	14.75	14.71	15.11	15.04	14.93	15.05
21	15.46	15.17	14.94	14.88	14.58	14.96	14.73	14.71	15.12	15.02	14.95	15.08
22	15.45	15.16	14.94	14.87	14.56	14.95	14.71	14.80	15.11	15.01	15.00	15.07
23	15.42	15.15	14.94	14.87	14.55	14.94	14.69	14.83	15.09	14.99	14.99	15.09
24	15.40	15.15	14.94	14.86	14.54	14.94	14.66	14.85	15.10	14.98	14.97	15.07
25	15.38	15.14	14.95	14.85	14.57	14.92	14.63	14.83	15.08	15.00	14.97	15.06
26	15.36	15.13	14.95	14.85	14.60	14.93	14.61	14.87	15.06	15.00	15.01	15.05
27	15.34	15.12	14.94	14.84	14.65	14.97	14.62	14.91	15.07	14.99	15.05	15.05
28	15.33	15.13	14.93	14.83	14.66	14.95	14.60	14.89	15.12	15.00	15.10	15.04
29	15.33	15.11	14.93	14.82	---	14.92	14.57	14.90	15.23	15.07	15.19	15.04
30	15.32	15.10	14.92	14.81	---	14.91	14.54	14.93	15.28	15.12	15.18	15.04
31	15.30	---	14.91	14.81	---	14.90	---	15.09	---	15.13	15.18	---
TOTAL	487.53	455.70	464.63	460.82	410.84	460.79	443.24	455.55	453.59	468.59	466.22	453.02
MEAN	15.73	15.19	14.99	14.87	14.67	14.86	14.77	14.70	15.12	15.12	15.04	15.10
MAX	16.33	15.30	15.10	14.93	14.79	15.01	14.92	15.09	15.28	15.26	15.19	15.22
MIN	15.30	15.10	14.91	14.81	14.54	14.61	14.54	14.43	15.03	14.98	14.93	15.01

263180080205001 SITE 7 IN CONSERVATION AREA NO. 1 NEAR SHAWANO, FL

LOCATION.--Lat 26 31'10", long 80 20'50", in T.45 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, in Loxahatchee Wildlife Refuge (Arthur R. Marshall Park). Township and range approximated from topographic map for which most section lines are not delineated, unable to determine section.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Prior to October 1, 2003, a tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum (NGVD) of 1929 converted through VERTCON using the NAVD 88 survey levels from a benchmark provided by Florida Department of Environmental Protection (FDEP). The current datum of gage that started October 1, 2003, is at a datum 0.102 ft lower than previously published historic NGVD 1929 datum. Prior to October 1, 2003, datum of gage was historic NGVD 1929 (benchmark provided by U.S. Army Corps of Engineers (USACE)).

REMARKS.--Land surface is approximately 15 ft above National Geodetic Vertical datum of 1929 (Benchmark provided by FDEP converted from NAVD 88 survey levels through VERTOCON to NGVD 1929). Station is one of several located in Conservation Area No. 1. Gage is capable of recording water levels below land-surface datum. Rainfall is not published, but is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.12 ft Nov. 17, 18, 1994 (present datum); minimum, 14.75 ft May 22, 2001 (present datum).

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.36 ft Oct. 2, 3; minimum, 15.73 ft May 21, 25, 26.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.20	16.70	16.48	16.28	16.12	15.94	16.18	15.91	15.94	16.58	16.39	16.52
2	17.25	16.69	16.47	16.28	16.11	15.92	16.17	15.90	16.01	16.55	16.39	16.50
3	17.35	16.68	16.46	16.27	16.11	15.92	16.17	15.90	16.05	16.56	16.37	16.50
4	17.32	16.67	16.45	16.25	16.10	15.99	16.16	15.94	16.09	16.58	16.36	16.49
5	17.28	16.66	16.44	16.25	16.09	15.99	16.15	16.01	16.12	16.53	16.35	16.52
6	17.28	16.65	16.43	16.25	16.08	15.97	16.14	16.00	16.11	16.49	16.37	16.54
7	17.31	16.63	16.42	16.25	16.08	15.96	16.12	15.98	16.17	16.46	16.43	16.52
8	17.27	16.62	16.41	16.24	16.07	15.96	16.22	15.97	16.28	16.43	16.42	16.50
9	17.23	16.61	16.41	16.23	16.07	16.04	16.24	15.95	16.25	16.45	16.40	16.48
10	17.18	16.59	16.40	16.22	16.05	16.19	16.22	15.93	16.27	16.51	16.39	16.46
11	17.14	16.58	16.39	16.21	16.03	16.18	16.21	15.91	16.35	16.51	16.37	16.44
12	17.10	16.57	16.37	16.20	16.01	16.16	16.20	15.89	16.35	16.48	16.35	16.42
13	17.05	16.56	16.36	16.20	16.00	16.15	16.19	15.87	16.33	16.46	16.36	16.40
14	17.00	16.59	16.36	16.22	16.00	16.14	16.17	15.85	16.31	16.45	16.37	16.38
15	16.95	16.61	16.34	16.27	15.99	16.12	16.15	15.84	16.28	---	16.36	16.36
16	16.90	16.60	16.33	16.27	15.99	16.12	16.13	15.82	16.26	16.41	16.34	16.34
17	16.86	16.59	16.32	16.24	15.98	16.15	16.11	15.81	16.24	16.38	16.32	16.33
18	16.82	16.58	16.34	16.23	15.96	16.25	16.10	15.79	16.23	16.36	16.30	16.31
19	16.81	16.57	16.33	16.22	15.95	16.23	16.08	15.77	16.28	16.34	16.28	16.29
20	16.83	16.56	16.32	16.21	15.94	16.21	16.07	15.76	16.30	16.32	16.26	16.31
21	16.86	16.56	16.31	16.20	15.93	16.20	16.05	15.75	16.34	16.30	16.30	16.33
22	16.84	16.55	16.31	16.20	15.92	16.20	16.04	15.80	16.33	16.27	16.42	16.33
23	16.81	16.54	16.31	16.19	15.91	16.19	16.02	15.78	16.31	16.25	16.42	16.32
24	16.80	16.53	16.31	16.19	15.91	16.19	16.00	15.76	16.30	16.25	16.39	16.31
25	16.77	16.53	16.34	16.18	15.92	16.18	15.98	15.74	16.28	16.27	16.37	16.30
26	16.76	16.51	16.34	16.17	15.94	16.18	15.97	15.77	16.26	16.26	16.42	16.28
27	16.74	16.51	16.32	16.16	15.95	16.21	15.97	15.85	16.31	16.28	16.45	16.28
28	16.72	16.51	16.31	16.16	15.96	16.21	15.96	15.83	16.40	16.34	16.44	16.26
29	16.72	16.49	16.31	16.15	---	16.20	15.94	15.81	16.53	16.36	16.46	16.26
30	16.71	16.49	16.30	16.14	---	16.19	15.93	15.79	16.60	16.41	16.46	16.25
31	16.70	---	16.29	16.13	---	16.19	---	15.84	---	16.41	16.49	---
TOTAL	526.56	497.53	507.28	502.66	448.17	499.73	483.04	491.52	487.88	---	507.80	491.53
MEAN	16.99	16.58	16.36	16.21	16.01	16.12	16.10	15.86	16.26	---	16.38	16.38
MAX	17.35	16.70	16.48	16.28	16.12	16.25	16.24	16.01	16.60	---	16.49	16.54
MIN	16.70	16.49	16.29	16.13	15.91	15.92	15.93	15.74	15.94	---	16.26	16.25

263050080145001 SITE 8T IN CONSERVATION AREA NO. 1 NEAR BOYNTON BEACH, FL

LOCATION.--Lat 26 30'50", long 80 14'50", in T.41 S., R.41 E., Palm Beach County, Hydrologic Unit 03090202, in Loxahatchee Wildlife Refuge (Arthur R. Marshall Park). Township and range approximated from topographic map for which most section lines are not delineated, unable to determine section.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Prior to October 1, 2003, tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum (NGVD) 1929 converted through VERTCON using the NAVD 88 survey levels from a benchmark provided by Florida Department of Environmental Protection (FDEP). The current datum of gage that started October 1, 2003, is at a datum 0.04 ft lower than previously published historic NGVD 1929 datum. Prior to October 1, 2003, datum of gage was historic NGVD 1929 (benchmark provided by U.S. Army Corps of Engineers (USACE).

REMARKS.--Land surface is approximately 15 ft above National Geodetic Vertical datum of 1929 (benchmark provided by FDEP converted from NAVD 88 survey levels through VERTCON to NGVD 1929). Station is one of several located in Conservation Area No. 1. Gage is capable of recording water levels below land-surface datum. Rainfall record is not published, but available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.07 ft Nov. 17, 1994 (present datum); minimum, 13.87 ft May 21, 22, 2001 (present datum).

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.10 ft Oct. 3, 4; minimum, 15.47 ft May 25, 26, 28.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.07	16.70	16.47	16.19	16.06	15.71	16.20	15.69	15.63	16.20	15.89	16.18
2	17.07	16.69	16.46	16.19	16.04	15.70	16.18	15.68	15.77	16.23	15.86	16.20
3	17.10	16.69	16.45	16.18	16.02	15.69	16.17	15.69	15.94	16.26	15.83	16.22
4	17.08	16.68	16.43	16.17	16.00	15.77	16.14	15.68	16.06	16.28	15.85	16.23
5	17.05	16.68	16.42	16.17	15.98	15.78	16.10	15.72	16.13	16.20	15.94	16.30
6	17.02	16.68	16.40	16.15	15.96	15.78	16.06	15.75	16.20	16.15	15.94	16.33
7	17.06	16.66	16.39	16.14	15.95	15.78	16.04	15.75	16.25	16.11	15.96	16.35
8	17.04	16.64	16.39	16.13	15.94	15.78	16.16	15.74	16.25	16.06	15.98	16.38
9	17.00	16.62	16.38	16.13	15.92	15.86	16.19	15.72	16.20	16.01	15.97	16.38
10	16.96	16.58	16.37	16.12	15.91	16.03	16.17	15.71	16.14	16.03	15.95	16.36
11	16.90	16.57	16.38	16.11	15.89	16.09	16.14	15.70	16.19	15.99	15.93	16.35
12	16.84	16.58	16.37	16.10	15.87	16.13	16.12	15.68	16.16	15.94	15.95	16.34
13	16.77	16.57	16.34	16.08	15.85	16.14	16.10	15.66	16.12	15.91	16.00	16.33
14	16.72	16.58	16.33	16.12	15.83	16.14	16.10	15.64	16.06	15.94	15.96	16.31
15	16.70	16.58	16.32	16.22	15.82	16.14	16.08	15.63	16.00	---	15.93	16.28
16	16.69	16.57	16.29	16.24	15.80	16.13	16.04	15.61	15.96	15.93	15.90	16.26
17	16.67	16.58	16.29	16.23	15.78	16.17	16.02	15.59	15.95	15.89	15.88	16.24
18	16.66	16.58	16.33	16.21	15.77	16.28	15.99	15.58	15.92	15.86	15.86	16.22
19	16.65	16.57	16.33	16.20	15.74	16.31	15.96	15.55	15.96	15.84	15.83	16.20
20	16.66	16.55	16.31	16.20	15.72	16.32	15.93	15.54	15.96	15.80	15.81	16.24
21	16.75	16.54	16.28	16.21	15.71	16.31	15.90	15.52	15.98	15.77	15.79	16.25
22	16.78	16.54	16.27	16.19	15.70	16.31	15.86	15.51	15.95	15.74	15.83	16.26
23	16.78	16.53	16.27	16.19	15.68	16.31	15.84	15.50	15.91	15.71	15.84	16.27
24	16.78	16.52	16.29	16.16	15.66	16.32	15.82	15.49	15.90	15.74	15.82	16.26
25	16.77	16.53	16.31	16.15	15.66	16.30	15.79	15.48	15.87	15.82	15.84	16.25
26	16.77	16.52	16.32	16.14	15.67	16.31	15.77	15.49	15.84	15.79	15.93	16.24
27	16.75	16.51	16.30	16.13	15.69	16.33	15.77	15.49	15.83	15.77	15.98	16.24
28	16.74	16.51	16.26	16.12	15.71	16.33	15.76	15.50	15.87	15.81	15.98	16.25
29	16.73	16.49	16.24	16.07	---	16.30	15.73	15.53	16.01	15.81	16.04	16.27
30	16.71	16.48	16.22	16.07	---	16.27	15.71	15.52	16.13	15.82	16.12	16.30
31	16.71	---	16.20	16.06	---	16.23	---	15.54	---	15.94	16.17	---
TOTAL	521.98	497.52	506.41	500.77	443.33	499.05	479.84	483.88	480.14	---	493.56	488.29
MEAN	16.84	16.58	16.34	16.15	15.83	16.10	15.99	15.61	16.00	---	15.92	16.28
MAX	17.10	16.70	16.47	16.24	16.06	16.33	16.20	15.75	16.25	---	16.17	16.38
MIN	16.65	16.48	16.20	16.06	15.66	15.69	15.71	15.48	15.63	---	15.79	16.18

263000080120001 SITE 8C NEAR L-40 IN CONSERVATION AREA 1 NEAR BOYNTON BEACH, FL

LOCATION.--Lat 26 29'57", long 80 13'20", T.46 S., R.41 E., Palm Beach County, Hydrologic Unit 03090202, 20 ft west of L-40 near Loxahatchee Wildlife Refuge (Arthur R. Marshall Park). Township and range approximated from topographic map for which most section lines are not delineated, unable to determine section.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Prior to Oct. 1, 2003, tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1995, datum of gage is 0.10 ft higher, from Nov. 1, 1995 to Sept. 14, 1997, datum of gage is 0.11 ft higher, from Sept. 15, 1997 to July 14, 1999, datum of gage is 0.12 ft higher, from July 15, 1999 to May 31, 2001, datum of gage is 0.13 ft higher, from June 1, 2001 to Mar. 31, 2003, datum of gage is 0.14 ft higher, from Apr. 1, 2003 to July 30, 2003, datum of gage is 0.15 ft higher, and from July 31, 2003 to Sept. 5, 2004, 0.13 ft higher than present datum. The change in datum is based upon an adjustment to PB-44 benchmark elevation surveyed by South Florida Water Management District and revised by the U.S. Army Corps of Engineers (USACE). See REMARKS.

REMARKS.--Station is one of several located in Conservation Area No. 1. Rainfall data published but available in files of the U.S. Geological Survey. The rainfall record was discontinued Sept. 30, 2003. Maximum gage height may have been exceeded. Station was destroyed during Hurricane Frances on Sept. 5, 2004 and reconstructed Dec. 1, 2004.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.08 ft Oct. 16, 1999 (present datum); minimum, 11.89 ft May 22, 2001 (present datum). (Corrected). (Maximum gage height may have been exceeded). See REMARKS.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 16.56 ft Dec. 1; minimum, 15.09 ft July 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	16.28	16.13	15.82	16.26	15.67	15.79	16.23	15.48	16.23
2	---	---	16.54	16.27	16.11	15.78	16.28	15.64	16.02	16.26	15.53	16.26
3	---	---	16.53	16.26	16.09	15.77	16.26	15.62	16.15	16.27	15.57	16.28
4	---	---	16.52	16.26	16.06	15.87	16.21	15.66	16.22	16.26	15.59	16.31
5	---	---	---	16.25	16.05	15.90	16.15	15.79	16.28	16.21	15.66	16.37
6	---	---	---	16.23	16.02	15.90	16.12	15.88	16.33	16.17	15.70	16.43
7	---	---	16.48	16.22	16.01	15.89	16.11	15.84	16.36	16.10	15.79	16.45
8	---	---	16.47	16.21	16.00	15.90	16.25	15.82	16.33	15.95	15.81	16.47
9	---	---	16.46	16.21	15.98	15.97	16.28	15.81	16.25	15.55	15.80	16.47
10	---	---	16.47	16.20	15.98	16.17	16.25	15.80	16.19	15.51	15.81	16.45
11	---	---	16.47	16.19	15.95	16.26	16.22	15.78	16.24	15.45	15.79	16.43
12	---	---	16.45	16.18	15.92	16.27	16.19	15.74	16.21	15.43	15.84	16.42
13	---	---	16.44	16.14	15.88	16.26	16.21	15.70	16.12	15.49	15.86	16.41
14	---	---	16.43	16.22	15.86	16.26	16.19	15.67	16.03	15.51	15.85	16.39
15	---	---	16.40	16.33	15.84	16.25	16.14	15.66	15.91	15.47	15.84	16.36
16	---	---	16.37	16.34	15.83	16.26	16.10	15.64	15.77	15.41	15.82	16.35
17	---	---	16.38	16.33	15.82	16.27	16.08	15.62	15.68	15.35	15.81	16.32
18	---	---	16.42	16.31	15.79	16.41	16.05	15.58	15.56	15.29	15.79	16.30
19	---	---	16.42	16.30	15.75	16.45	16.02	15.55	15.60	15.24	15.78	16.29
20	---	---	16.39	16.30	15.73	16.44	15.95	15.53	15.60	15.27	15.75	16.31
21	---	---	16.36	16.30	15.71	16.43	15.86	15.52	15.68	15.21	15.75	16.34
22	---	---	16.36	16.28	15.69	16.41	15.84	15.52	15.60	15.19	15.79	16.35
23	---	---	16.36	16.27	15.66	16.44	15.86	15.48	15.59	15.21	15.81	16.36
24	---	---	16.37	16.25	15.66	16.42	15.84	15.49	15.58	15.19	15.82	16.34
25	---	---	16.39	16.23	15.69	16.42	15.80	15.48	15.49	15.17	15.87	16.33
26	---	---	16.43	16.23	15.73	16.40	15.77	15.46	15.38	15.19	15.95	16.33
27	---	---	16.37	16.21	15.79	16.43	15.76	15.54	15.32	15.24	16.02	16.33
28	---	---	16.32	16.17	15.82	16.43	15.73	15.55	15.38	15.28	16.06	16.35
29	---	---	16.31	16.13	---	16.39	15.69	15.56	15.88	15.32	16.12	16.38
30	---	---	16.30	16.15	---	16.35	15.65	15.57	16.14	15.37	16.18	16.40
31	---	---	16.27	16.14	---	16.30	---	15.63	---	15.46	16.21	---
TOTAL	---	---	---	503.39	444.55	502.52	481.12	484.80	476.68	482.25	490.45	490.81
MEAN	---	---	---	16.24	15.88	16.21	16.04	15.64	15.89	15.56	15.82	16.36
MAX	---	---	---	16.34	16.13	16.45	16.28	15.88	16.36	16.27	16.21	16.47
MIN	---	---	---	16.13	15.66	15.77	15.65	15.46	15.32	15.17	15.48	16.23

262750080175001 SITE 9 IN CONSERVATION AREA NO. 1, NEAR BOYNTON BEACH, FL

LOCATION.--Lat 26 27'50", long 80 17'50", in T.50 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, in Loxahatchee Wildlife Refuge (Arthur R. Marshall Park). Township and range approximated from topographic map for which most section lines are not delineated, unable to determine section.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1991 to current year.

REVISED RECORDS.--WDR FL-97-2A, 1997.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Prior to October 1, 2003 tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum (NGVD) 1929 converted through VERTCON using NAVD 88 survey levels from a benchmark provided by Florida Department of Environmental Protection (FDEP). The current datum of gage that started October 1, 2003, is at a datum 0.015 ft lower than previously published historic NGVD 1929 datum. Prior to October 1, 2003, datum of gage was historic NGVD 1929 (benchmark provided by U.S. Army Corps of Engineers (USACE).

REMARKS.--Land surface is approximately 15 ft above National Geodetic Vertical Datum of 1929 (benchmark provided by FDEP converted from NAVD 88 survey levels through VERTCON to NGVD 1929). Station is one of several located in Conservation Area No. 1. Gage is capable of recording water levels below land-surface datum. Rainfall data is not published, but available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.02 ft Oct. 15, 1999 (present datum); minimum, 14.74 ft July 3, 2004.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 16.94 ft Oct. 6, 7; minimum, 15.45 ft May 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.85	16.67	16.44	16.21	16.05	15.77	16.19	15.80	15.53	16.32	16.10	16.22
2	16.84	16.67	16.43	16.19	16.04	15.76	16.18	15.80	15.64	16.32	16.08	16.24
3	16.87	16.65	16.42	16.18	16.03	15.75	16.16	15.81	15.73	16.30	16.07	16.25
4	16.87	16.65	16.41	16.17	16.03	15.83	16.14	15.81	15.82	16.30	16.09	16.24
5	16.86	16.64	16.39	16.16	16.01	15.82	16.13	15.84	15.89	16.28	16.14	16.26
6	16.89	16.63	16.39	16.16	16.00	15.80	16.10	15.86	15.93	16.24	16.16	16.28
7	16.93	16.62	16.37	16.15	15.99	15.78	16.08	15.84	15.96	16.22	16.28	16.28
8	16.90	16.61	16.37	16.14	15.97	15.77	16.21	15.82	15.99	16.19	16.33	16.28
9	16.87	16.59	16.36	16.13	15.96	15.86	16.22	15.80	16.01	16.18	16.28	16.28
10	16.83	16.57	16.35	16.11	15.95	16.02	16.20	15.78	16.05	16.22	16.24	16.28
11	16.80	16.55	16.34	16.10	15.94	16.00	16.17	15.76	16.15	16.23	16.21	16.28
12	16.76	16.55	16.32	16.09	15.91	15.99	16.14	15.74	16.15	16.21	16.21	16.28
13	16.72	16.54	16.31	16.09	15.90	15.99	16.13	15.72	16.13	16.19	16.22	16.26
14	16.67	16.55	16.31	16.12	15.88	15.99	16.11	15.70	16.10	16.18	16.21	16.25
15	16.64	16.56	16.29	16.19	15.87	16.01	16.09	15.69	16.08	16.18	16.25	16.24
16	16.62	16.55	16.27	16.20	15.87	16.01	16.06	15.67	16.06	16.16	16.21	16.22
17	16.61	16.54	16.27	16.18	15.85	16.05	16.05	15.65	16.08	16.14	16.17	16.21
18	16.61	16.54	16.30	16.17	15.84	16.17	16.02	15.64	16.11	16.13	16.14	16.19
19	16.61	16.53	16.30	16.17	15.83	16.17	16.01	15.62	16.18	16.10	16.12	16.18
20	16.64	16.53	16.28	16.16	15.81	16.17	15.99	15.60	16.18	16.08	16.09	16.24
21	16.73	16.51	16.27	16.15	15.79	16.19	15.98	15.58	16.21	16.06	16.07	16.27
22	16.74	16.51	16.27	16.15	15.79	16.20	15.96	15.58	16.18	16.04	16.10	16.27
23	16.75	16.50	16.26	16.15	15.77	16.21	15.94	15.57	16.16	16.04	16.15	16.27
24	16.75	16.49	16.26	16.14	15.76	16.21	15.91	15.54	16.14	16.02	16.13	16.25
25	16.73	16.49	16.29	16.13	15.76	16.21	15.89	15.52	16.11	16.01	16.14	16.24
26	16.72	16.48	16.28	16.12	15.77	16.22	15.86	15.51	16.09	16.00	16.19	16.23
27	16.71	16.47	16.26	16.11	15.77	16.25	15.86	15.51	16.14	16.01	16.22	16.21
28	16.69	16.47	16.25	16.10	15.78	16.25	15.86	15.49	16.21	16.08	16.23	16.20
29	16.69	16.46	16.24	16.09	---	16.23	15.84	15.48	16.34	16.10	16.23	16.20
30	16.68	16.45	16.23	16.08	---	16.22	15.82	15.46	16.34	16.14	16.22	16.18
31	16.67	---	16.22	16.07	---	16.21	---	15.47	---	16.12	16.22	---
TOTAL	519.25	496.57	505.75	500.36	444.92	497.11	481.30	485.66	481.69	500.79	501.50	487.28
MEAN	16.75	16.55	16.31	16.14	15.89	16.04	16.04	15.67	16.06	16.15	16.18	16.24
MAX	16.93	16.67	16.44	16.21	16.05	16.25	16.22	15.86	16.34	16.32	16.33	16.28
MIN	16.61	16.45	16.22	16.07	15.76	15.75	15.82	15.46	15.53	16.00	16.07	16.18

262528080202700 SOUTH LOXAHATCHEE CONSERVATION AREA NO. 1, NEAR BOYNTON BEACH, FL

LOCATION.--Lat 26 25'28", long 80 20'27", T.46 S., R.41 E., Palm Beach County, Hydrologic Unit 03090202 in Loxahatchee Wildlife Refuge (Arthur R. Marshall). Township and range approximated from topographic map for which most section lines are not delineated, unable to determine section.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2001 to current year. (Corrected). See REMARKS.

REVISED RECORDS.--WDR FL-03-2A, 2002.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is North American Vertical Datum of 1988 (NAVD 88). (Corrected). See REVISIONS.

REMARKS.--Station is one of several located in Conservation Area No. 1. Station was originally established at arbitrary datum in May 2001. Record prior to Oct. 1, 2001 is considered unreliable. All daily value records revised to NAVD 88. Unit value data prior to October 1, 2004, requires conversion of -1.36 ft to convert record to NAVD 88.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.91 ft Oct. 30, 31 and Nov. 1, 2001 (Corrected to NAVD 88); minimum, 12.96 ft July 31, 2004 (Corrected to NAVD 88).

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 15.31 ft Oct. 20, 23, 24; minimum, 13.93 ft May 26.

REVISIONS.--Revised figures of gage height for the 2002, 2003 and 2004 water years, superseding those published in WDR FL-02-2A, WDR FL-03-2A and WDR FL-04-2A, are provided below in the following tables.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.55	15.90	15.44	15.30	14.94	15.13	14.37	13.65	13.27	14.73	14.61	14.98
2	15.62	15.88	15.44	15.29	14.95	15.09	14.35	13.63	13.25	14.76	14.60	14.99
3	15.67	15.81	15.43	15.29	14.96	15.06	14.34	13.61	13.23	14.77	14.58	15.06
4	15.69	15.76	15.42	15.28	14.94	15.03	14.36	13.59	13.21	14.76	14.57	15.14
5	15.70	15.81	15.41	15.25	14.92	15.00	14.34	13.56	13.19	e14.74	14.55	15.15
6	15.71	15.88	15.40	15.25	14.90	14.96	14.32	13.54	13.23	e14.77	14.55	15.17
7	15.69	15.86	15.44	15.25	14.89	14.95	14.29	13.52	13.34	e14.83	14.54	15.17
8	15.69	15.83	15.44	15.24	14.87	14.97	14.26	13.49	13.36	e14.88	14.53	15.20
9	15.70	15.80	15.44	15.21	14.86	14.94	14.23	13.47	13.36	e14.93	14.53	15.21
10	15.69	15.79	15.44	15.20	14.96	14.90	14.20	13.45	13.33	e15.00	14.52	15.21
11	15.67	15.76	15.43	15.18	15.04	14.87	14.17	13.43	13.32	e15.01	14.52	15.22
12	15.65	15.74	15.41	15.17	15.07	14.87	14.13	13.40	13.47	e15.06	14.54	15.28
13	15.63	15.73	e15.41	15.15	15.10	14.83	14.10	13.38	13.68	e15.20	14.53	15.26
14	15.61	15.72	e15.41	15.14	15.13	14.80	14.11	13.36	13.70	15.18	14.53	15.25
15	15.60	15.70	15.39	15.13	15.16	14.78	14.13	13.34	13.77	15.18	14.57	15.24
16	15.60	15.68	e15.38	15.13	15.24	14.75	14.11	---	13.76	15.17	14.59	15.23
17	15.61	15.67	15.37	15.12	15.30	14.73	14.09	13.58	13.77	e15.15	14.60	15.21
18	15.63	15.65	15.36	15.10	15.28	14.70	14.07	13.55	13.78	15.13	14.61	15.20
19	15.64	15.63	15.35	15.09	15.25	14.68	14.04	13.57	13.83	15.12	14.60	15.19
20	15.64	15.61	15.34	15.09	15.21	14.65	14.01	13.59	13.90	15.07	14.60	15.19
21	15.66	15.59	15.33	15.07	15.17	14.63	13.97	13.56	14.09	15.03	14.63	15.19
22	15.74	15.56	15.31	15.06	15.16	14.60	13.93	13.54	14.24	14.98	14.66	15.18
23	15.81	15.54	15.29	15.05	15.23	14.58	13.90	13.51	14.37	14.92	14.69	15.19
24	15.83	15.52	15.28	15.04	15.25	14.56	13.86	13.48	14.49	14.87	14.74	15.21
25	15.84	15.52	15.27	15.02	15.23	14.53	13.83	13.45	14.57	14.81	14.77	15.21
26	15.86	15.51	15.30	15.01	15.21	14.51	13.80	13.42	14.63	14.75	14.80	15.20
27	15.89	15.49	15.28	15.00	15.19	14.49	13.76	13.39	14.67	14.71	14.86	15.19
28	15.88	15.48	15.26	14.98	15.17	14.47	13.73	13.36	14.72	14.69	14.89	15.18
29	15.89	15.46	15.25	14.97	---	14.45	13.70	13.33	14.72	14.66	14.92	15.17
30	15.90	15.44	15.24	14.96	---	14.42	13.68	13.31	14.71	14.63	14.94	15.15
31	15.91	---	15.27	14.94	---	14.39	---	13.29	---	14.62	14.97	---
TOTAL	487.20	470.32	476.23	468.96	422.58	457.32	422.18	---	414.96	462.11	454.14	455.42
MEAN	15.72	15.68	15.36	15.13	15.09	14.75	14.07	---	13.83	14.91	14.65	15.18
MAX	15.91	15.90	15.44	15.30	15.30	15.13	14.37	---	14.72	15.20	14.97	15.28
MIN	15.55	15.44	15.24	14.94	14.86	14.39	13.68	---	13.19	14.62	14.52	14.98

e Estimated

REVISED

262528080202700 SOUTH LOXAHATCHEE CONSERVATION AREA No. 1, NEAR BOYNTON BEACH, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.15	15.21	15.25	15.50	15.11	14.73	14.80	14.40	14.26	14.65	14.66	15.54
2	15.16	15.21	15.26	15.49	15.08	14.71	14.78	14.45	14.19	14.62	14.70	15.54
3	15.16	15.19	15.26	15.51	15.06	14.70	14.75	14.50	14.12	14.58	14.75	15.56
4	15.15	15.17	15.26	15.51	15.04	14.70	14.71	14.47	14.09	14.58	14.80	15.57
5	15.13	15.17	15.26	15.51	15.02	14.68	14.67	14.45	14.13	14.56	14.83	15.58
6	15.12	15.17	15.27	15.51	15.01	14.66	14.63	14.43	14.15	14.55	14.88	15.64
7	15.10	15.17	15.28	15.51	15.00	14.64	14.59	14.40	14.11	14.52	14.94	15.66
8	15.10	15.15	15.26	15.48	14.98	14.62	14.55	14.36	14.13	14.49	14.97	15.64
9	15.09	15.13	15.29	15.45	14.96	14.60	14.51	14.32	14.13	14.45	15.05	15.63
10	15.08	15.10	15.40	15.43	14.94	14.58	14.49	14.28	14.19	14.42	15.20	15.63
11	15.08	15.08	15.40	15.42	14.91	14.56	14.45	14.25	14.36	14.38	15.26	15.65
12	15.08	15.06	15.42	15.39	14.89	14.54	14.42	14.23	14.40	14.35	15.28	15.64
13	15.08	15.05	15.44	15.38	14.86	14.52	14.38	14.20	14.41	14.33	15.29	15.62
14	15.08	---	15.45	15.40	14.82	14.59	14.35	14.17	14.40	14.30	15.38	15.59
15	15.10	15.01	15.45	15.40	14.79	14.58	14.33	14.14	14.38	14.29	15.40	15.57
16	15.16	15.03	15.43	15.39	14.77	14.58	14.31	14.14	14.34	14.29	15.38	15.55
17	15.17	15.15	15.44	15.39	14.76	14.67	14.32	14.10	14.31	14.29	15.37	15.53
18	15.17	15.14	15.47	15.37	14.74	14.72	14.29	14.07	14.31	14.29	15.35	15.52
19	15.17	15.15	15.48	15.36	14.73	14.75	14.27	14.05	14.36	14.31	15.36	15.50
20	15.17	15.17	15.51	15.34	14.73	14.74	14.25	14.03	14.37	14.34	15.44	15.50
21	15.17	15.32	15.54	15.33	14.73	14.76	14.23	14.00	14.49	14.42	15.49	15.51
22	15.17	15.30	15.55	15.32	14.74	14.76	14.21	14.06	14.54	14.45	15.49	15.49
23	15.18	---	15.55	15.31	14.77	14.79	14.18	14.17	14.57	14.56	15.49	15.47
24	15.18	15.30	15.56	15.27	14.78	14.82	14.14	14.17	14.62	14.49	15.49	15.46
25	15.18	15.30	15.56	15.26	14.78	14.82	14.12	14.17	14.66	14.48	15.49	15.45
26	---	15.30	15.55	15.23	14.77	14.80	14.15	14.18	14.68	14.52	15.49	15.47
27	15.21	15.30	15.55	15.19	14.75	14.78	14.21	14.26	14.71	14.54	15.49	15.47
28	15.21	15.30	15.54	15.17	14.74	14.80	14.28	14.46	14.73	14.56	15.50	15.49
29	15.21	---	15.53	15.15	---	14.82	14.29	14.44	14.71	14.60	15.51	15.58
30	15.20	15.27	15.51	15.13	---	---	14.33	14.40	14.68	14.62	15.52	15.64
31	15.20	---	15.51	15.12	---	14.82	---	14.33	---	14.64	15.52	---
TOTAL	---	---	478.23	476.22	416.26	---	431.99	442.08	431.53	448.47	472.77	466.69
MEAN	---	---	15.43	15.36	14.87	---	14.40	14.26	14.38	14.47	15.25	15.56
MAX	---	---	15.56	15.51	15.11	---	14.80	14.50	14.73	14.65	15.52	15.66
MIN	---	---	15.25	15.12	14.73	---	14.12	14.00	14.09	14.29	14.66	15.45

REVISED

262528080202700 SOUTH LOXAHATCHEE CONSERVATION AREA No. 1, NEAR BOYNTON BEACH, FL—Continued

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	15.66	15.25	15.28	15.26	15.22	15.05	14.36	13.86	13.29	13.08	13.27	14.98
2	15.68	15.24	15.27	15.25	15.23	15.02	14.33	13.85	13.27	13.07	13.70	14.97
3	15.69	15.29	15.26	15.25	15.24	15.00	14.30	13.84	13.25	13.07	13.81	14.92
4	15.68	15.30	15.25	15.24	15.25	14.97	14.28	13.85	13.27	13.10	13.92	14.98
5	15.65	15.38	15.25	15.23	15.25	14.94	14.26	13.83	13.32	13.10	14.06	15.22
6	15.62	15.46	15.27	15.22	15.24	14.90	14.22	13.80	13.32	13.12	14.17	15.16
7	15.59	15.50	15.27	15.21	15.22	14.87	14.19	13.77	13.39	13.12	14.25	15.20
8	15.57	15.51	15.26	15.20	15.19	14.84	14.17	13.74	13.50	13.11	14.32	15.13
9	---	15.52	15.26	15.18	15.18	14.80	14.14	13.72	13.47	13.09	14.37	15.13
10	15.53	15.54	15.27	15.17	15.16	14.76	14.14	13.70	13.45	13.07	14.39	15.09
11	15.51	15.54	15.27	15.15	15.14	14.71	14.13	13.68	13.43	13.06	14.42	14.97
12	15.49	15.53	15.27	15.15	15.12	14.69	14.16	13.66	13.41	13.06	14.47	14.89
13	15.47	15.51	15.26	15.14	15.10	14.66	14.22	13.64	13.38	13.06	14.49	14.83
14	15.46	15.50	15.30	15.13	15.09	14.65	14.25	13.62	13.35	13.03	14.44	14.77
15	15.45	15.48	15.34	15.11	15.07	14.64	14.22	13.60	13.33	13.00	14.44	14.74
16	15.43	15.46	15.37	15.10	15.06	14.65	14.20	13.61	13.31	12.99	14.45	14.78
17	15.41	15.45	15.39	15.10	15.04	14.67	14.18	13.60	13.29	13.02	14.49	14.80
18	15.40	15.44	15.38	15.11	15.02	14.66	14.16	13.57	13.28	13.00	14.53	14.79
19	15.39	15.43	15.38	15.13	14.99	14.65	14.13	13.56	13.26	13.02	14.56	14.77
20	15.37	15.42	15.37	15.11	14.97	14.62	14.11	13.53	13.25	13.09	14.60	14.74
21	15.36	15.41	15.35	15.10	14.95	14.61	14.10	13.51	13.24	13.08	14.63	14.75
22	15.35	15.39	15.34	15.10	14.94	14.58	14.07	13.49	13.23	13.07	14.68	14.86
23	15.32	15.38	15.34	15.09	14.91	14.55	14.05	13.46	13.22	13.05	14.74	14.93
24	15.31	15.37	15.34	15.07	14.90	14.52	14.03	13.44	13.20	13.03	14.77	14.98
25	15.30	15.36	15.33	15.06	14.91	14.50	14.00	13.41	13.18	13.01	14.81	15.05
26	15.32	15.35	15.32	15.06	15.01	14.48	13.97	13.38	13.16	13.02	14.85	15.30
27	15.29	15.34	15.31	15.07	15.02	14.46	13.94	13.37	13.14	13.04	14.88	15.30
28	15.28	15.33	15.30	15.06	15.04	14.44	13.92	13.36	13.12	13.03	14.93	15.21
29	15.29	15.31	15.29	15.06	15.06	14.42	13.91	13.34	13.11	13.02	14.98	15.16
30	15.27	15.30	15.28	15.06	---	14.40	13.89	13.32	13.10	12.99	14.98	15.13
31	15.26	---	15.27	15.14	---	14.38	---	13.31	---	13.01	14.98	---
TOTAL	---	462.29	474.44	469.31	437.52	455.09	424.03	421.42	398.52	404.61	448.38	449.53
MEAN	---	15.41	15.30	15.14	15.09	14.68	14.13	13.59	13.28	13.05	14.46	14.98
MAX	---	15.54	15.39	15.26	15.25	15.05	14.36	13.86	13.50	13.12	14.98	15.30
MIN	---	15.24	15.25	15.06	14.90	14.38	13.89	13.31	13.10	12.99	13.27	14.74

REVISED

262528080202700 SOUTH LOXAHATCHEE CONSERVATION AREA No. 1, NEAR BOYNTON BEACH, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.10	15.24	14.99	14.76	14.59	14.21	14.74	14.16	14.20	14.42	14.20	14.65
2	15.09	15.23	14.98	14.75	14.58	14.21	14.73	14.15	14.34	14.50	14.17	14.68
3	15.13	15.21	14.97	14.74	14.56	14.21	14.70	14.13	14.48	14.53	14.15	14.69
4	15.12	15.20	14.96	14.73	14.54	14.29	14.67	14.13	14.58	14.56	14.14	14.72
5	15.09	15.19	14.95	14.72	14.52	14.30	14.64	14.17	14.62	14.57	14.13	14.76
6	15.11	15.19	14.94	14.71	14.51	14.31	14.61	14.22	14.68	14.56	14.15	14.80
7	15.18	15.18	14.94	14.70	14.50	14.32	14.60	14.26	14.71	14.54	14.25	14.83
8	15.14	15.16	14.92	14.69	14.48	14.32	14.71	14.27	14.66	14.51	14.25	14.87
9	15.08	15.15	14.92	14.68	14.47	14.38	14.71	14.27	14.61	14.51	14.25	14.86
10	15.03	15.13	14.91	14.68	14.45	14.53	14.70	14.27	14.58	14.56	14.26	14.86
11	14.98	15.12	14.90	14.67	14.41	14.59	14.68	14.25	14.60	14.53	14.26	14.86
12	14.94	15.12	14.88	14.66	14.38	14.64	14.66	14.23	14.57	14.44	14.26	14.84
13	14.89	15.11	14.87	14.65	14.36	14.66	14.65	---	14.52	14.38	14.28	14.82
14	14.96	15.11	14.86	14.67	14.34	14.66	14.62	14.18	14.48	14.36	14.30	14.81
15	15.07	15.12	14.84	14.75	14.33	14.66	14.60	14.16	14.44	---	14.32	14.79
16	15.12	15.11	14.83	14.76	14.31	14.67	14.58	14.15	14.38	14.31	14.30	14.78
17	15.15	15.11	14.83	14.75	14.29	14.69	14.56	14.12	14.33	14.27	14.29	14.77
18	15.16	15.10	14.86	14.75	14.27	14.79	14.54	14.10	14.31	14.23	14.27	14.75
19	15.16	15.09	14.85	14.75	14.25	14.81	14.51	14.08	14.30	14.19	14.26	14.74
20	15.18	15.08	14.83	14.74	14.23	14.83	14.49	14.06	14.31	14.15	14.24	14.79
21	15.27	15.08	14.82	14.74	14.21	14.85	14.45	14.03	14.35	14.11	14.24	14.82
22	15.28	15.07	14.82	14.73	14.18	14.85	14.40	14.03	14.34	14.10	14.30	14.82
23	15.30	15.06	14.81	14.72	14.15	14.85	14.35	14.01	14.31	14.11	14.31	14.82
24	15.30	15.05	14.80	14.70	14.13	14.83	14.33	13.98	14.27	14.08	14.30	14.80
25	15.28	15.04	14.82	14.69	14.13	14.83	14.29	13.95	14.24	14.07	14.32	14.78
26	15.27	15.03	14.82	14.67	14.15	14.83	14.27	13.95	14.20	14.08	14.45	14.77
27	15.27	15.03	14.79	14.66	14.18	14.86	14.27	13.96	14.19	14.11	14.51	14.77
28	15.25	15.02	14.79	14.64	14.21	14.84	14.25	13.95	14.21	14.20	14.51	14.77
29	15.24	15.01	14.78	14.63	---	14.81	14.22	13.95	14.32	14.22	14.53	14.79
30	15.23	14.99	14.77	14.62	---	14.78	14.18	14.01	14.35	14.24	14.56	14.81
31	15.24	---	14.76	14.60	---	14.77	---	14.13	---	14.23	14.60	---
TOTAL	469.61	453.33	460.81	455.71	401.71	453.18	435.71	---	432.48	---	443.36	443.62
MEAN	15.15	15.11	14.86	14.70	14.35	14.62	14.52	---	14.42	---	14.30	14.79
MAX	15.30	15.24	14.99	14.76	14.59	14.86	14.74	---	14.71	---	14.60	14.87
MIN	14.89	14.99	14.76	14.60	14.13	14.21	14.18	---	14.19	---	14.13	14.65

262358080055700 E-4 CANAL AT CLINT-MOORE ROAD, BOCA RATON, FL

LOCATION.--Lat 26 23'58", long 80 05'57", in NE 1/4 NE 1/4 NW 1/4 sec.6, T.47 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, 0.6 mi west on Clint-Moore Road from U.S. Interstate 95 overpass in Boca Raton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is part of a canal system operated and controlled by Lake Worth Drainage District.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.52 ft Oct. 15, 1999; minimum, 2.33 ft May 14-16, 1989.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 6.51 ft June 5; minimum, 4.09 ft May 2.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.11	4.67	4.40	4.31	4.28	4.20	4.47	4.22	4.70	4.93	4.74	4.64
2	5.17	4.64	4.39	4.29	4.29	4.17	4.49	4.13	4.82	4.99	4.74	4.61
3	5.23	4.62	4.40	4.29	4.29	4.16	4.45	4.16	4.86	4.94	4.75	4.60
4	5.09	4.60	4.40	4.29	4.29	4.43	4.42	4.35	4.89	4.91	4.74	4.79
5	5.01	4.60	4.40	4.30	4.29	4.36	4.40	4.55	5.71	4.88	4.76	4.82
6	4.99	4.58	4.39	4.32	4.28	4.31	4.39	4.52	5.34	4.85	4.79	5.21
7	5.09	4.57	4.37	4.32	4.28	4.31	4.40	4.50	5.18	4.82	4.79	5.14
8	5.01	4.56	4.35	4.29	4.28	4.29	4.58	4.47	5.08	4.80	4.77	5.01
9	4.96	4.55	4.34	4.30	4.30	4.47	4.55	4.44	5.01	4.83	4.73	4.91
10	4.93	4.53	4.33	4.30	4.28	4.66	4.50	4.39	4.98	4.81	4.71	4.85
11	4.90	4.53	4.31	4.31	4.26	4.60	4.47	4.36	5.49	4.81	4.69	4.80
12	4.88	4.54	4.28	4.32	4.27	4.54	4.45	4.36	5.35	4.78	4.63	4.76
13	4.85	4.53	4.28	4.31	4.29	4.50	4.43	4.35	5.19	4.76	4.62	4.74
14	4.81	4.52	4.27	4.39	4.29	4.48	4.42	4.37	5.10	4.76	4.60	4.70
15	4.82	4.52	4.27	4.44	4.27	4.45	4.39	4.37	5.03	4.76	4.58	4.67
16	4.78	4.50	4.28	4.45	4.25	4.48	4.36	4.35	5.01	4.75	4.58	4.65
17	4.76	4.48	4.34	4.42	4.20	4.54	4.37	4.30	5.08	4.74	4.60	4.63
18	4.75	4.49	4.46	4.39	4.15	4.66	4.37	4.29	5.10	4.73	4.57	4.62
19	4.74	4.49	4.42	4.38	4.16	4.60	4.35	4.27	5.14	4.71	4.56	4.62
20	4.83	4.48	4.38	4.37	4.20	4.57	4.34	4.29	5.17	4.72	4.54	4.66
21	4.89	4.48	4.37	4.36	4.22	4.56	4.32	4.29	5.17	4.70	4.51	4.65
22	4.83	4.47	4.39	4.36	4.21	4.54	4.31	4.27	5.10	4.68	4.51	4.63
23	4.82	4.48	4.39	4.33	4.20	4.54	4.27	4.30	5.03	4.66	4.52	4.59
24	4.82	4.49	4.37	4.31	4.19	4.53	4.25	4.33	4.99	4.74	4.49	4.55
25	4.78	4.46	4.36	4.30	4.23	4.53	4.23	4.28	4.94	4.83	4.53	4.53
26	4.74	4.44	4.36	4.29	4.23	4.51	4.18	4.38	4.91	4.88	4.63	4.53
27	4.71	4.44	4.31	4.29	4.24	4.53	4.21	4.47	4.97	4.82	4.58	4.50
28	4.69	4.42	4.31	4.27	4.25	4.52	4.27	4.43	4.97	4.78	4.55	4.51
29	4.67	4.42	4.31	4.26	---	4.49	4.24	4.41	4.92	4.75	4.53	4.51
30	4.66	4.41	4.30	4.27	---	4.48	4.24	4.41	4.89	4.74	4.51	4.54
31	4.66	---	4.32	4.29	---	4.47	---	4.47	---	4.76	4.60	---
TOTAL	150.98	135.51	134.85	134.12	118.97	138.48	131.12	135.08	152.12	148.62	143.45	140.97
MEAN	4.87	4.52	4.35	4.33	4.25	4.47	4.37	4.36	5.07	4.79	4.63	4.70
MAX	5.23	4.67	4.46	4.45	4.30	4.66	4.58	4.55	5.71	4.99	4.79	5.21
MIN	4.66	4.41	4.27	4.26	4.15	4.16	4.18	4.13	4.70	4.66	4.49	4.50

262337080074800 E-3 CANAL AT 51ST STREET, BOCA RATON, FL

LOCATION.--Lat 26 23'37", long 80 07'48", in NE 1/4 NE 1/4 NW 1/4 sec.11, T.47 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, 2.2 mi west of U.S. Interstate 95, Yamato Road exit approximately 110 yards south of 51st Street (Yamato Road) on the E-3 Canal in Boca Raton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 1, 1994, at site 100 yards upstream at same datum.

REMARKS.--Station is part of a canal system operated by Lake Worth Drainage District.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.53 ft June 18, 1999; minimum, 7.61 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.43 ft June 5; minimum, 7.84 ft Aug. 26.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.07	9.65	8.88	9.41	9.14	9.06	9.39	9.07	9.74	9.84	9.33	9.59
2	10.16	9.64	9.03	9.48	9.25	9.01	9.38	9.04	10.04	9.81	9.28	9.59
3	10.42	9.62	9.11	9.49	9.38	8.91	9.39	9.03	10.28	9.77	9.29	9.60
4	10.18	9.58	9.22	9.36	9.41	9.21	9.38	9.21	10.17	9.70	9.40	9.75
5	10.01	9.55	9.31	9.34	9.28	9.28	9.37	9.75	10.77	9.66	9.51	9.86
6	9.99	9.53	9.22	9.42	9.19	9.29	9.37	9.82	10.24	9.70	9.58	10.16
7	10.20	9.51	9.11	9.47	9.15	9.28	9.42	9.66	10.32	9.67	9.61	10.08
8	10.15	9.47	9.23	9.49	9.35	9.25	9.70	9.53	10.13	9.34	9.60	9.96
9	10.04	9.44	9.19	9.38	9.45	9.40	9.81	9.42	10.05	8.38	9.56	9.83
10	9.97	9.40	9.24	9.33	9.48	9.93	9.78	9.31	10.01	8.78	9.49	9.71
11	9.91	9.36	9.31	9.47	9.55	9.89	9.72	9.22	10.36	9.30	9.44	9.68
12	9.84	9.37	9.35	9.39	9.61	9.78	9.64	9.17	9.97	9.46	9.42	9.65
13	9.82	9.32	9.36	9.24	9.65	9.69	9.56	9.10	10.18	9.55	9.40	9.63
14	9.77	9.29	9.34	9.20	9.67	9.64	9.46	9.03	10.07	9.61	9.37	9.64
15	9.76	9.27	9.38	9.28	9.50	9.65	9.36	8.96	9.98	9.56	9.31	9.61
16	9.72	9.25	9.41	9.29	9.37	9.64	9.27	8.90	9.93	9.46	9.27	9.57
17	9.66	9.21	9.49	9.24	9.28	9.69	9.20	8.83	10.04	9.42	9.23	9.51
18	9.61	9.19	9.76	9.19	9.22	9.95	9.16	8.76	10.02	9.40	9.17	9.47
19	9.61	9.15	9.72	9.31	9.33	9.85	9.21	8.70	10.12	9.37	9.11	9.47
20	9.69	9.12	9.68	9.47	9.43	9.77	9.27	8.67	10.09	9.33	9.04	9.59
21	9.84	9.11	9.65	9.53	9.47	9.71	9.30	8.65	10.06	9.28	8.99	9.67
22	9.79	9.10	9.54	9.43	9.40	9.75	9.29	8.93	10.01	9.25	8.98	9.66
23	9.79	9.08	9.40	9.34	9.24	9.74	9.23	9.26	9.94	9.23	9.13	9.63
24	9.89	9.07	9.27	9.27	9.14	9.62	9.22	9.52	9.91	9.20	8.87	9.62
25	9.84	9.03	9.15	9.25	9.07	9.59	9.19	9.40	9.83	9.23	8.05	9.60
26	9.76	9.00	9.04	9.24	9.03	9.55	9.16	9.37	9.88	9.32	8.12	9.56
27	9.70	8.97	8.94	9.25	9.02	9.53	9.16	9.47	9.93	9.37	8.98	9.50
28	9.70	8.95	9.03	9.20	8.97	9.49	9.13	9.42	9.88	9.37	9.31	9.46
29	9.68	8.92	9.16	9.35	---	9.42	9.09	9.37	9.97	9.40	9.43	9.44
30	9.65	8.89	9.24	9.36	---	9.38	9.08	9.30	9.89	9.39	9.53	9.41
31	9.64	---	9.32	9.22	---	9.41	---	9.41	---	9.37	9.59	---
TOTAL	305.86	278.04	288.08	289.69	261.03	295.36	280.69	285.28	301.81	291.52	286.39	289.50
MEAN	9.87	9.27	9.29	9.34	9.32	9.53	9.36	9.20	10.06	9.40	9.24	9.65
MAX	10.42	9.65	9.76	9.53	9.67	9.95	9.81	9.82	10.77	9.84	9.61	10.16
MIN	9.61	8.89	8.88	9.19	8.97	8.91	9.08	8.65	9.74	8.38	8.05	9.41

262300080220001 HILLSBORO CANAL AT S-10-D, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26 23'14", long 80 22'50", in NE 1/4 sec.6, T.47 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, on Hillsboro Canal on the north bank of the spillway 200 ft northeast of S-10-D, a four-gated control structure, 11.9 mi west of State Road 7 (U.S. Highway 441) on Hillsboro Boulevard. The auxiliary stage recorder is located approximately 20 yards downstream of S-10-D on the south bank of the spillway.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders upstream and downstream of structure S-10-D. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers).

REMARKS.--Station is one of several located on L-39 which regulates flow for Conservation Areas 1 and 2A. Gage records are primarily used to determine stages. Gage is capable of recording water levels below land-surface datum. Rainfall data is not published but is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Corps of Engineers maintains raingage after September 30, 2003.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 17.82 ft Dec. 15, 1997; minimum, dry May 11-26, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 17.07 ft Oct. 15, 1996, Oct. 15, 1999; minimum, 11.43 ft May 22, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 16.79 ft Oct. 21, 22; minimum, 15.02 ft July 24.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 16.31 ft Oct. 7; minimum, 11.78 ft May 25.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.45	16.70	16.45	16.23	16.04	15.74	16.17	15.51	15.71	15.88	15.39	16.12
2	16.46	16.70	16.44	16.23	16.03	15.72	16.14	15.48	15.97	15.93	15.41	16.15
3	16.51	16.69	16.44	16.21	16.00	15.69	16.14	15.48	16.09	15.95	15.44	16.19
4	16.48	16.67	16.42	16.19	15.99	15.78	16.10	15.49	16.14	15.98	15.46	16.23
5	16.45	16.67	16.41	16.17	15.98	15.79	16.07	15.67	16.21	15.98	15.53	16.28
6	16.47	16.67	16.40	16.16	15.95	15.79	16.05	15.80	16.25	15.96	15.58	16.32
7	16.54	16.65	16.39	16.16	15.94	15.77	16.01	15.76	16.20	15.92	15.65	16.33
8	16.50	16.63	16.39	16.15	15.92	15.74	16.12	15.76	16.09	15.65	15.68	16.35
9	16.44	16.62	16.37	16.15	15.89	15.85	16.14	15.74	16.01	15.34	15.69	16.35
10	16.38	16.62	16.34	16.15	15.86	16.05	16.14	15.71	15.97	15.30	15.70	16.35
11	16.32	16.59	16.34	16.13	15.85	16.16	16.12	15.68	15.96	15.31	15.70	16.33
12	16.26	16.57	16.35	16.11	15.82	16.17	16.10	15.66	15.94	15.33	15.71	16.32
13	16.34	16.56	16.32	16.09	15.79	16.15	16.06	15.63	15.86	15.36	15.74	16.29
14	16.53	16.60	16.32	16.13	15.77	16.15	16.05	15.60	15.77	15.38	15.75	16.28
15	16.60	16.63	16.34	16.23	15.76	16.15	16.06	15.58	15.65	---	15.75	16.26
16	16.64	16.60	16.30	16.25	15.73	16.10	16.04	15.56	15.49	15.32	15.73	16.25
17	16.66	16.58	16.30	16.25	15.71	16.17	16.02	15.55	15.44	15.26	15.72	16.24
18	16.65	16.57	16.31	16.25	15.70	16.29	15.98	15.53	15.36	15.19	15.71	16.22
19	16.63	16.55	16.31	16.23	15.68	16.33	15.95	15.49	15.34	15.19	15.70	16.23
20	16.65	16.55	16.30	16.21	15.66	16.35	15.87	15.44	15.33	15.25	15.68	16.29
21	16.72	16.54	16.29	16.20	15.62	16.33	15.76	15.40	15.41	15.19	15.67	16.31
22	16.77	16.53	16.28	16.18	15.59	16.33	15.73	15.42	15.42	15.12	15.70	16.29
23	16.77	16.52	16.26	16.17	15.58	16.31	15.72	15.39	15.43	15.12	15.73	16.28
24	16.76	16.50	16.27	16.17	15.55	16.32	15.72	15.34	15.40	15.08	15.75	16.27
25	16.75	16.49	16.28	16.14	15.59	16.30	15.69	15.32	15.30	15.09	15.83	16.26
26	16.75	16.50	16.25	16.11	15.63	16.30	15.64	15.35	15.23	15.11	15.93	16.23
27	16.74	16.48	16.27	16.10	15.63	16.30	15.65	15.40	15.17	15.15	15.98	16.24
28	16.73	16.49	16.26	16.11	15.70	16.28	15.64	15.42	15.21	15.18	15.99	16.28
29	16.72	16.48	16.25	16.10	---	16.26	15.60	15.43	15.54	15.22	16.03	16.31
30	16.71	16.46	16.25	16.06	---	16.23	15.56	15.44	15.77	15.28	16.07	16.32
31	16.70	---	16.25	16.06	---	16.20	---	15.52	---	15.36	16.10	---
TOTAL	514.08	497.41	506.15	501.08	441.96	499.10	478.04	481.55	470.66	---	487.50	488.17
MEAN	16.58	16.58	16.33	16.16	15.78	16.10	15.93	15.53	15.69	---	15.73	16.27
MAX	16.77	16.70	16.45	16.25	16.04	16.35	16.17	15.80	16.25	---	16.10	16.35
MIN	16.26	16.46	16.25	16.06	15.55	15.69	15.56	15.32	15.17	---	15.39	16.12

262300080220001 HILLSBORO CANAL AT S-10-D, NEAR DEERFIELD BEACH, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.17	13.88	13.16	12.58	12.38	12.27	12.40	12.17	12.04	14.71	13.50	13.09
2	16.18	13.84	13.14	12.57	12.38	12.26	12.38	12.13	12.14	14.73	13.45	13.09
3	16.22	13.80	13.10	12.56	12.38	12.26	12.34	12.11	13.04	14.73	13.41	13.10
4	16.21	13.76	13.07	12.55	12.37	12.37	12.35	12.14	14.45	14.74	13.39	13.14
5	16.18	13.71	13.03	12.56	12.34	12.35	12.36	12.23	14.50	14.74	13.34	13.19
6	16.21	13.67	13.00	12.56	12.35	12.33	12.37	12.21	14.44	14.73	13.32	13.19
7	16.28	13.65	12.97	12.56	12.35	12.33	12.51	12.18	14.83	14.72	13.35	13.18
8	16.25	13.62	12.93	12.56	12.34	12.33	12.61	12.16	15.06	15.13	13.34	13.18
9	16.20	13.60	12.90	12.54	12.35	12.39	12.58	12.14	15.05	15.29	13.29	13.14
10	16.15	13.59	12.87	12.54	12.34	12.52	12.57	12.11	15.05	15.27	13.25	13.08
11	16.10	13.55	12.82	12.54	12.30	12.50	12.57	12.09	15.06	15.10	13.20	13.05
12	16.06	13.53	12.77	12.54	12.30	12.47	12.56	12.06	15.06	14.85	13.19	13.02
13	15.70	13.51	12.75	12.57	12.32	12.44	12.53	12.04	15.04	14.70	13.19	13.01
14	15.06	13.49	12.73	12.62	12.33	12.43	12.51	12.02	15.02	14.68	13.14	12.99
15	14.81	13.46	12.66	12.67	12.32	12.43	12.48	12.00	14.98	---	13.13	12.98
16	14.52	13.43	12.66	12.63	12.31	12.45	12.46	11.98	14.89	14.64	13.12	---
17	14.37	13.41	12.65	12.58	12.31	12.46	12.45	11.96	14.84	14.62	13.10	---
18	14.29	13.39	12.67	12.55	12.29	12.54	12.46	11.93	14.82	14.59	13.08	---
19	14.23	13.38	12.66	12.55	12.28	12.51	12.46	11.91	14.81	14.24	13.05	---
20	14.23	13.37	12.64	12.55	12.29	12.50	12.42	11.89	14.80	13.91	13.03	---
21	14.22	13.36	12.63	12.54	12.29	12.50	12.38	11.87	14.83	13.82	13.01	13.00
22	14.19	13.34	12.64	12.54	12.28	12.50	12.40	11.91	14.83	13.76	13.03	12.99
23	14.17	13.32	12.64	12.53	12.28	12.47	12.37	11.90	14.82	13.71	13.07	12.99
24	14.13	13.31	12.62	---	12.28	12.45	12.32	11.86	14.82	13.66	13.02	12.98
25	14.09	13.29	12.60	---	12.28	12.44	12.30	11.83	14.79	13.65	13.00	---
26	14.06	13.26	12.58	---	12.28	12.43	12.31	11.83	14.77	13.71	13.16	---
27	14.03	13.24	12.55	---	12.31	12.44	12.28	11.84	14.73	13.67	13.17	---
28	13.99	13.22	12.57	---	12.31	12.40	12.24	11.83	14.67	13.62	13.12	---
29	13.96	13.20	12.58	12.44	---	12.38	12.22	11.84	14.68	13.60	13.11	---
30	13.92	13.18	12.58	12.42	---	12.39	12.20	11.89	14.71	13.58	13.10	---
31	13.89	---	12.59	12.40	---	12.40	---	11.92	---	13.54	13.09	---
TOTAL	466.07	404.36	395.76	---	344.94	384.94	372.39	371.98	437.57	---	408.75	---
MEAN	15.03	13.48	12.77	---	12.32	12.42	12.41	12.00	14.59	---	13.19	---
MAX	16.28	13.88	13.16	---	12.38	12.54	12.61	12.23	15.06	---	13.50	---
MIN	13.89	13.18	12.55	---	12.28	12.26	12.20	11.83	12.04	---	13.00	---

262200080210001 HILLSBORO CANAL AT S-10-C, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26 22'16", long 80 21'00", in NW $\frac{1}{4}$ sec.14, T.47 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, on Hillsboro Canal on the north bank of the spillway, 200 ft northeast of S-10-C, a four-gated control structure, 9.6 mi west of State Road 7 (U.S. Highway 441) on Hillsboro Boulevard. The auxiliary stage recorder is located approximately 20 yards downstream of S-10-C on the south bank of the spillway.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders upstream and downstream of structure S-10-C. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Station is one of several located on L-39 which regulates flow for Conservation Areas 1 and 2A. Gage records are primarily used to determine stages. Water levels below land-surface datum can be recorded.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 17.82 ft Dec. 15, 1997; minimum, 11.79 ft May 22, 23, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 16.92 ft Oct. 15, 1999; minimum, 11.45 ft May 22, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 16.80 ft Oct. 23; minimum, 15.10 ft July 24, 25.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 16.22 ft Oct. 7; minimum, 11.84 ft May 25, 26.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.20	16.71	16.47	16.24	16.03	15.68	16.14	15.51	15.65	15.87	15.37	16.11
2	16.20	16.70	16.46	16.23	16.00	15.67	16.11	15.52	15.86	15.93	15.40	16.14
3	16.26	16.70	16.46	16.22	15.98	15.65	16.13	15.52	15.99	15.96	15.45	16.18
4	16.24	16.68	16.44	16.20	15.97	15.76	16.08	15.53	16.04	15.98	15.47	16.21
5	16.20	16.67	16.43	16.18	15.97	15.76	16.05	15.62	16.10	15.99	15.53	16.26
6	16.25	16.69	16.42	16.15	15.94	15.76	16.02	15.74	16.17	15.98	15.58	16.31
7	16.34	16.67	16.40	16.15	15.91	15.74	15.98	15.74	16.13	---	15.66	16.33
8	16.29	16.66	16.39	16.14	15.90	15.72	16.10	15.72	16.01	15.56	15.69	16.35
9	16.23	16.64	16.38	16.14	15.87	15.83	16.13	15.71	15.90	15.18	15.69	16.35
10	16.17	16.63	16.35	16.14	15.84	16.02	16.13	15.70	15.86	15.18	15.69	16.35
11	16.11	16.60	16.35	16.13	15.84	16.08	16.12	15.67	15.88	15.17	15.69	16.33
12	16.05	16.58	16.37	16.11	15.80	16.13	16.09	15.65	15.84	15.23	15.71	16.31
13	16.12	16.58	16.34	16.08	15.77	16.12	16.05	15.62	15.77	15.35	15.74	16.29
14	16.40	16.60	16.33	16.13	15.74	16.12	16.05	15.59	15.70	15.38	15.75	16.27
15	16.52	16.63	16.37	16.25	15.73	16.13	16.06	15.56	15.60	---	15.74	16.25
16	16.61	16.61	16.32	16.27	15.71	16.08	16.05	15.55	15.44	15.31	15.73	16.24
17	16.64	16.58	16.31	16.29	15.69	16.15	16.03	15.53	15.41	15.27	15.71	16.23
18	16.63	16.58	16.34	16.27	15.69	16.27	15.97	15.52	15.33	15.20	15.70	16.21
19	16.62	16.56	16.33	16.24	15.66	16.30	15.93	15.47	15.31	15.16	15.69	16.22
20	16.65	16.55	16.32	16.22	15.63	16.32	15.88	15.43	15.30	15.20	15.67	16.26
21	16.75	16.55	16.30	16.21	15.60	16.30	15.79	15.40	15.38	15.16	15.66	16.27
22	16.77	16.54	16.29	16.19	15.57	16.29	15.73	15.41	15.36	15.12	15.68	16.26
23	16.78	16.53	16.26	16.19	15.55	16.28	15.71	15.38	15.36	15.12	15.73	16.26
24	16.78	16.50	16.27	16.19	15.51	16.29	15.72	15.34	15.33	15.11	15.73	16.25
25	16.77	16.50	16.30	16.16	15.54	16.26	15.68	15.33	15.26	15.11	15.81	16.24
26	16.76	16.51	16.27	16.13	15.60	16.27	15.63	15.34	15.19	15.12	15.86	16.22
27	16.75	16.50	16.31	16.12	15.59	16.26	15.63	15.39	15.14	15.15	15.91	16.22
28	16.74	16.50	16.27	16.11	15.65	16.24	15.64	15.41	15.19	15.18	15.92	16.25
29	16.74	16.50	16.26	16.07	---	16.24	15.59	15.44	15.51	15.22	15.96	16.28
30	16.72	16.48	16.26	16.03	---	16.22	15.54	15.44	15.75	15.27	16.02	16.29
31	16.72	---	16.25	16.04	---	16.18	---	15.50	---	15.34	16.08	---
TOTAL	511.01	497.73	506.62	501.22	441.28	498.12	477.76	481.28	468.76	---	487.02	487.74
MEAN	16.48	16.59	16.34	16.17	15.76	16.07	15.93	15.53	15.63	---	15.71	16.26
MAX	16.78	16.71	16.47	16.29	16.03	16.32	16.14	15.74	16.17	---	16.08	16.35
MIN	16.05	16.48	16.25	16.03	15.51	15.65	15.54	15.33	15.14	---	15.37	16.11

262200080210001 HILLSBORO CANAL AT S-10-C, NEAR DEERFIELD BEACH, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.09	13.85	13.10	12.51	12.40	12.29	12.40	12.16	12.13	14.50	13.53	13.08
2	16.09	13.81	13.08	12.50	12.40	12.28	12.38	12.12	12.22	14.50	13.48	---
3	16.11	13.76	13.05	12.50	12.40	12.28	12.35	12.10	13.03	14.50	13.44	---
4	16.11	13.73	13.01	12.49	12.38	12.39	12.35	12.14	14.38	14.50	13.43	---
5	16.08	13.69	12.97	12.50	12.36	12.36	12.35	12.25	14.43	14.50	13.36	---
6	16.12	13.65	12.94	12.50	12.36	12.34	12.36	12.23	14.36	14.50	13.33	---
7	16.20	13.63	12.90	12.50	12.36	12.34	12.50	12.19	14.61	---	13.31	---
8	16.17	13.59	12.87	12.49	12.36	12.34	---	12.17	14.86	14.91	13.31	---
9	16.12	13.57	12.84	12.48	12.37	12.41	---	12.14	14.88	15.17	13.25	---
10	16.07	13.55	12.81	12.47	12.35	12.54	---	12.12	14.89	15.20	13.20	13.07
11	16.02	13.52	12.75	12.47	12.32	12.51	---	12.10	14.91	15.07	13.17	13.04
12	15.97	13.49	12.71	12.48	12.32	12.47	12.55	12.07	14.92	14.81	13.17	13.02
13	15.66	13.47	12.70	12.50	12.34	12.45	12.54	12.05	14.92	14.60	13.17	13.00
14	15.02	13.46	12.66	12.55	12.34	12.44	12.51	12.03	14.91	14.57	13.14	12.99
15	14.78	13.43	12.60	12.60	12.33	12.43	12.49	12.01	14.89	---	13.13	12.98
16	14.50	13.39	12.60	12.56	12.32	12.45	12.47	11.99	14.84	14.53	13.11	12.97
17	14.34	13.37	12.60	12.51	12.32	12.46	12.45	11.97	14.79	14.52	13.09	12.96
18	14.25	13.35	12.63	12.50	12.30	12.52	12.46	11.94	14.76	14.50	13.06	12.95
19	14.20	13.34	12.61	12.50	12.30	12.49	12.46	11.92	14.75	14.25	13.05	12.94
20	14.19	13.32	12.58	12.50	12.30	12.48	12.41	11.90	14.75	13.96	13.03	12.98
21	14.20	13.30	12.57	12.49	12.30	12.48	12.38	11.89	14.76	13.88	13.01	13.02
22	14.18	13.28	12.58	12.49	12.29	12.48	12.40	11.93	14.76	13.82	13.03	13.01
23	14.16	13.26	12.58	12.48	12.29	12.46	12.38	11.92	14.76	13.77	13.06	13.01
24	14.12	13.25	12.56	12.44	12.30	12.44	12.33	11.89	14.76	13.73	13.01	13.00
25	14.08	13.23	12.55	12.45	12.30	12.44	12.30	11.87	14.74	13.72	13.00	12.99
26	14.04	13.21	12.53	12.44	12.30	12.43	12.30	11.87	14.72	13.77	13.14	12.98
27	14.01	13.19	12.50	12.44	12.33	12.44	12.27	11.91	14.67	13.72	13.15	12.96
28	13.97	13.17	12.52	12.45	12.32	12.41	12.23	11.90	14.55	13.67	13.12	12.96
29	13.93	13.15	12.52	12.43	---	12.39	12.21	11.90	14.50	13.64	13.11	12.98
30	13.89	13.13	12.52	12.42	---	12.39	12.19	11.96	14.50	13.61	13.10	13.00
31	13.86	---	12.53	12.41	---	12.40	---	12.00	---	13.57	13.09	---
TOTAL	464.53	403.14	393.97	387.05	345.36	385.03	---	372.64	434.95	---	408.58	---
MEAN	14.98	13.44	12.71	12.49	12.33	12.42	---	12.02	14.50	---	13.18	---
MAX	16.20	13.85	13.10	12.60	12.40	12.54	---	12.25	14.92	---	13.53	---
MIN	13.86	13.13	12.50	12.41	12.29	12.28	---	11.87	12.13	---	13.00	---

262100080190001 HILLSBORO CANAL AT S-10-A, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26 21'32", long 80 18'37", in NE 1/4 sec.24, T.47 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, on Hillsboro Canal on the north bank of the spillway 200 ft northeast of S-10-A, a four-gated control structure, 6.9 mi west of State Road 7 (U.S. Highway 441) on Hillsboro Boulevard. The auxiliary stage recorder is located approximately 20 yards downstream of S-10-A on the south bank of the spillway.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders upstream and downstream of structure S-10-A. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Station is one of several located on L-39 which regulates flow for Conservation Areas 1 and 2A. Gage records are primarily used to determine stages. Water levels below land-surface datum can be recorded. Revised figures of downstream stage for water year 2000 are available in the files of the U.S. Geological Survey. These supersede those published in the water year 2000 report. Revisions were necessary due to new levels run on February 7, 2002.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 17.78 ft Dec. 14, 15, 1998; minimum gage height, 12.03 ft May 23, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 16.77 ft (estimated) Oct. 16, 1999; minimum, 11.43 ft May 22, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 16.76 ft Oct. 26; minimum, 15.06 ft July 22, 24, 25.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 16.15 ft Oct. 7; minimum, 11.79 ft May 29.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.20	16.70	16.47	16.24	16.04	15.69	16.14	15.52	15.66	15.89	15.38	16.14
2	16.20	16.69	16.46	16.23	16.01	15.68	16.13	15.52	15.87	15.94	15.42	16.17
3	16.25	16.69	16.46	16.22	15.99	15.66	16.15	15.51	15.99	15.97	15.46	16.20
4	16.23	16.68	16.44	16.20	15.98	15.77	16.10	15.53	16.04	15.99	15.48	16.23
5	16.19	16.67	16.43	16.17	15.98	15.78	16.05	15.62	16.10	16.00	15.54	16.27
6	16.25	16.69	16.41	16.15	15.94	15.78	16.02	15.74	16.18	15.99	15.59	16.33
7	16.34	16.67	16.39	16.14	15.92	15.76	16.01	15.73	16.14	15.95	15.67	16.35
8	16.30	16.66	16.39	16.14	15.90	15.74	16.12	15.71	16.01	15.55	15.70	16.38
9	16.22	16.64	16.38	16.14	15.88	15.86	16.16	15.70	15.89	15.13	15.69	16.38
10	16.16	16.62	16.36	16.14	15.86	16.04	16.15	15.70	15.84	15.17	15.70	16.38
11	16.10	16.59	16.37	16.12	15.86	16.09	16.12	15.67	15.89	15.16	15.69	16.36
12	16.05	16.59	16.38	16.11	15.82	16.14	16.09	15.64	15.84	15.22	15.72	16.35
13	16.11	16.58	16.35	16.06	15.77	16.14	16.06	15.61	15.78	15.35	15.75	16.32
14	16.37	16.60	16.35	16.13	15.75	16.14	16.06	15.58	15.70	15.39	15.75	16.30
15	---	16.63	16.38	16.26	15.74	16.14	16.08	15.56	15.60	---	15.74	16.28
16	---	16.60	16.33	16.29	15.72	16.09	16.06	15.54	15.46	15.31	15.73	16.27
17	---	16.59	16.32	16.30	15.71	16.16	16.03	15.53	---	15.26	15.72	16.26
18	---	16.59	16.35	16.29	15.70	16.29	15.97	15.52	---	15.20	15.71	16.24
19	---	16.57	16.34	16.25	15.67	16.32	15.92	15.47	---	15.15	15.70	16.24
20	---	16.56	16.33	16.23	15.63	16.32	15.87	15.43	---	15.18	15.68	16.28
21	---	16.55	16.30	16.22	15.59	16.31	15.79	15.41	---	15.14	15.67	16.28
22	---	16.55	16.29	16.20	15.57	16.29	15.73	15.41	---	15.09	15.70	16.28
23	---	16.53	16.27	16.20	15.55	16.30	15.72	15.38	---	15.11	15.74	16.28
24	---	16.51	16.29	16.20	15.52	16.30	15.73	15.36	---	15.09	---	16.28
25	---	16.51	16.31	16.16	15.56	16.28	15.69	15.34	---	15.08	15.85	16.26
26	---	16.53	16.30	16.14	15.61	16.28	15.63	15.36	---	15.10	---	16.25
27	16.75	16.50	16.32	16.12	15.61	16.28	15.64	15.41	---	15.16	---	16.25
28	16.75	16.51	16.27	16.11	15.66	16.27	15.64	15.42	15.20	15.19	---	16.28
29	16.73	16.51	16.26	16.06	---	16.26	15.57	15.45	15.53	15.23	16.02	16.31
30	16.72	16.49	16.25	16.04	---	16.23	15.52	15.45	15.77	15.28	16.07	16.32
31	16.71	---	16.24	16.05	---	16.19	---	15.51	---	15.35	16.11	---
TOTAL	---	497.80	506.79	501.31	441.54	498.58	477.95	481.33	---	---	---	488.52
MEAN	---	16.59	16.35	16.17	15.77	16.08	15.93	15.53	---	---	---	16.28
MAX	---	16.70	16.47	16.30	16.04	16.32	16.16	15.74	---	---	---	16.38
MIN	---	16.49	16.24	16.04	15.52	15.66	15.52	15.34	---	---	---	16.14

262100080190001 HILLSBORO CANAL AT S-10-A, NEAR DEERFIELD BEACH, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.00	13.83	13.09	12.49	12.39	12.28	12.39	12.17	12.02	14.35	13.48	13.05
2	16.00	13.79	13.06	12.48	12.38	12.27	12.40	12.13	12.12	14.34	13.44	13.05
3	16.05	13.75	13.03	12.48	12.39	12.26	12.36	12.11	12.76	14.33	13.39	13.07
4	16.04	13.71	12.99	12.48	12.38	12.37	12.35	12.14	13.90	14.33	13.37	13.11
5	16.01	13.68	12.95	12.48	12.35	12.35	12.35	12.23	13.98	14.33	13.33	13.15
6	16.07	13.64	12.92	12.48	12.35	12.33	12.34	12.22	13.98	14.33	13.29	13.16
7	16.14	13.62	12.88	12.48	12.35	12.33	12.49	12.17	14.24	14.32	13.30	13.17
8	16.11	13.59	12.85	12.47	12.35	12.34	12.62	12.15	14.52	14.72	13.27	13.20
9	16.04	13.56	12.82	12.46	12.35	12.40	12.59	12.12	14.56	15.07	13.21	13.14
10	15.99	13.53	12.79	12.46	12.35	12.53	12.58	12.10	14.57	15.13	13.16	13.07
11	15.95	13.50	12.76	12.46	12.32	12.50	12.56	12.08	14.62	15.01	13.13	13.04
12	15.90	13.48	12.71	12.46	12.31	12.46	12.55	12.06	14.62	14.74	13.13	13.02
13	15.64	13.46	12.69	12.47	12.32	12.44	12.55	12.03	14.62	14.50	13.13	13.00
14	15.00	13.44	12.67	12.54	12.33	12.43	12.53	12.02	14.62	14.44	13.09	12.99
15	14.76	13.40	12.60	12.60	12.32	12.41	12.50	12.01	14.61	---	13.08	12.98
16	14.50	13.38	12.59	12.57	12.31	12.43	12.47	11.98	14.57	14.37	13.06	12.97
17	14.34	13.36	12.60	12.52	12.31	12.45	12.46	11.96	---	14.35	13.04	12.95
18	14.25	13.34	12.62	12.49	12.30	12.54	12.46	11.93	---	14.34	13.03	12.93
19	14.20	13.32	12.60	12.49	12.29	12.50	12.46	11.90	---	14.16	13.00	12.92
20	14.20	13.30	12.57	12.49	12.29	12.48	12.41	11.89	---	13.92	12.99	12.95
21	14.19	13.28	12.56	12.48	12.29	12.48	12.38	11.89	---	13.83	12.97	12.99
22	14.17	13.26	12.56	12.48	12.28	12.47	12.40	11.92	---	13.78	13.00	12.98
23	14.14	13.25	12.56	12.47	12.28	12.47	12.39	11.91	---	13.74	13.02	12.98
24	14.10	13.24	12.55	12.44	12.28	12.45	12.35	11.89	---	13.69	---	12.97
25	14.06	13.23	12.54	12.44	12.29	12.45	12.31	11.87	---	13.68	12.97	12.96
26	14.02	13.19	12.55	12.43	12.29	12.44	12.31	11.85	---	13.72	---	12.94
27	13.99	13.18	12.50	12.43	12.32	12.44	12.29	11.85	---	13.68	---	12.93
28	13.95	13.16	12.50	12.42	12.31	12.43	12.23	11.83	---	13.63	---	12.92
29	13.92	13.13	12.50	12.41	---	12.40	12.20	11.83	14.37	13.60	13.07	12.95
30	13.88	13.11	12.50	12.41	---	12.40	12.18	11.89	14.35	13.57	13.06	12.95
31	13.84	---	12.50	12.40	---	12.40	---	11.91	---	13.53	13.05	---
TOTAL	463.45	402.71	393.61	386.66	345.08	384.93	372.46	372.04	---	---	---	390.49
MEAN	14.95	13.42	12.70	12.47	12.32	12.42	12.42	12.00	---	---	---	13.02
MAX	16.14	13.83	13.09	12.60	12.39	12.54	12.62	12.23	---	---	---	13.20
MIN	13.84	13.11	12.50	12.40	12.28	12.26	12.18	11.83	---	---	---	12.92

261952080074500 E-3 CANAL AT SW 18TH STREET, BOCA RATON, FL

LOCATION.--Lat 26 19'52", long 80 07'45", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.47 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, 0.7 mi west of U.S. Interstate 95, 1.5 mi south of Palmetto Park Road exit in Boca Raton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Salinity monitoring was discontinued for water year 2001. Station is part of a canal system operated and controlled by Lake Worth Drainage District.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.79 ft May 4, 1982; minimum, 4.65 ft Sept. 15, 2004.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.43 ft June 5; minimum, 5.49 ft Aug. 26.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.67	9.58	8.86	9.45	---	9.10	9.36	9.14	9.57	9.60	9.29	9.51
2	9.72	9.56	9.05	9.52	---	9.03	9.36	9.15	9.68	9.59	9.24	9.52
3	9.78	9.54	9.12	9.51	---	8.93	9.40	9.16	9.90	9.55	9.24	9.52
4	9.62	9.51	9.26	9.34	---	9.20	9.38	9.28	9.86	9.49	9.35	9.65
5	9.60	9.49	9.36	9.37	---	9.27	9.36	9.59	9.18	9.49	9.46	9.74
6	9.67	9.47	9.19	9.44	---	9.28	9.35	9.65	9.03	9.56	9.51	9.83
7	9.77	9.46	9.11	9.49	---	9.25	9.35	9.48	9.83	9.54	9.54	9.74
8	9.69	9.41	9.25	9.50	---	9.22	9.61	9.37	9.68	8.17	9.53	9.69
9	9.63	9.37	9.16	9.35	---	9.37	9.67	9.27	9.65	6.55	9.49	9.63
10	9.57	9.33	9.28	9.27	---	9.81	9.63	9.21	9.67	8.71	9.43	9.56
11	9.52	9.31	9.36	9.40	---	9.76	9.61	9.22	8.81	9.22	9.38	9.57
12	9.54	9.31	9.41	9.32	9.57	9.62	9.56	9.18	8.75	9.39	9.37	9.56
13	9.58	9.27	9.44	9.19	9.59	9.53	9.48	9.13	9.76	9.48	9.34	9.55
14	9.54	9.25	9.45	9.15	9.60	9.52	9.40	9.05	9.69	9.52	9.31	9.56
15	9.56	9.23	9.46	---	9.43	9.57	9.32	8.98	9.66	9.48	9.27	9.54
16	9.52	9.20	9.47	---	9.30	9.55	9.24	8.93	9.66	9.41	9.22	9.50
17	9.49	9.18	9.53	---	9.21	9.61	9.19	8.86	9.73	9.38	9.18	9.45
18	9.50	9.15	9.65	---	9.16	9.80	9.15	8.79	9.74	9.36	9.12	9.42
19	9.52	9.12	9.67	---	9.29	9.71	9.23	8.74	9.85	9.33	9.07	9.44
20	9.57	9.10	9.66	---	9.38	9.62	9.27	8.70	9.73	9.29	9.00	9.54
21	9.61	9.07	9.61	---	9.41	9.58	9.31	8.73	9.68	9.24	8.95	9.61
22	9.59	9.06	9.43	---	9.34	9.63	9.33	9.05	9.69	9.21	8.94	9.60
23	9.59	9.04	9.28	---	9.18	9.63	9.32	9.25	9.64	9.19	9.08	9.58
24	9.64	9.00	9.18	---	9.08	9.51	9.30	9.46	9.63	9.16	8.45	9.59
25	9.59	8.98	9.08	---	9.02	9.50	9.27	9.36	9.58	9.17	5.91	9.56
26	9.54	8.95	8.98	---	9.00	9.47	9.23	9.34	9.64	9.26	7.03	9.52
27	9.53	8.92	8.95	---	8.97	9.42	9.22	9.43	9.67	9.32	8.93	9.46
28	9.53	8.91	9.09	---	8.99	9.40	9.23	9.40	9.64	9.32	9.25	9.42
29	9.55	8.88	9.24	---	---	9.34	9.19	9.35	9.71	9.35	9.39	9.40
30	9.58	8.85	9.30	---	---	9.32	9.16	9.28	9.64	9.34	9.49	9.37
31	9.58	---	9.37	---	---	9.36	---	9.40	---	9.33	9.53	---
TOTAL	297.39	276.50	288.25	---	---	292.91	280.48	284.93	287.95	286.00	281.29	286.63
MEAN	9.59	9.22	9.30	---	---	9.45	9.35	9.19	9.60	9.23	9.07	9.55
MAX	9.78	9.58	9.67	---	---	9.81	9.67	9.65	9.90	9.60	9.54	9.83
MIN	9.49	8.85	8.86	---	---	8.93	9.15	8.70	8.75	6.55	5.91	9.37

261710080190001 SITE 19 IN CONSERVATION AREA 2A NEAR CORAL SPRINGS, FL

LOCATION.--Lat 26 16'55", long 80 18'23", T.48 S., R.40 E., Broward County, Hydrologic Unit 03090202, in Conservation Area 2A near Coral Springs. Station is located approximately 0.5 mi west of the Sawgrass Expressway and 1 mi north of Sample Road in line with the water tower in Coral Springs. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 10.60 ft above National Geodetic Vertical Datum of 1929. Station is one of several located in Conservation Area 2A. Rainfall data available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army corps of Engineers maintains raingage after September 30, 2003.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.33 ft Dec. 9, 10, 1994; minimum, 10.83 ft July 1-4.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.65 ft Oct. 7; minimum, 10.97 ft Feb. 24-28, Mar. 1-3, May 2, 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.23	13.72	12.98	11.84	11.21	10.97	---	10.98	11.13	13.45	13.33	12.88
2	14.29	13.68	12.92	11.81	11.19	10.97	---	10.97	11.21	13.42	13.28	12.91
3	14.36	13.65	12.84	11.78	11.17	10.97	---	10.99	11.29	13.38	13.25	13.00
4	14.41	13.62	12.76	11.76	11.16	11.03	11.42	11.07	11.38	13.34	13.21	13.06
5	14.44	13.59	12.68	11.73	11.15	11.02	---	11.21	11.46	13.31	13.15	13.04
6	14.48	13.57	12.62	11.71	11.14	11.01	---	11.25	11.65	13.28	13.13	13.05
7	14.61	13.54	12.55	11.69	11.13	10.99	11.30	11.28	11.76	13.26	13.17	13.03
8	14.62	13.52	12.50	11.66	11.12	10.99	---	11.31	11.87	13.24	13.12	13.02
9	14.61	13.49	12.44	11.63	11.11	11.09	11.36	11.31	12.02	13.42	13.07	13.00
10	14.59	13.43	12.39	11.60	11.10	11.26	11.32	---	12.23	13.62	13.01	12.99
11	14.54	13.41	12.35	11.57	11.09	11.27	11.28	---	12.47	13.70	12.98	12.98
12	14.50	13.40	12.28	11.54	11.08	11.29	11.25	---	12.59	13.71	12.96	12.97
13	14.48	13.38	12.23	11.51	11.07	11.31	11.22	11.29	12.68	13.73	12.96	12.97
14	14.39	13.36	12.18	11.51	11.06	11.34	11.20	11.28	12.79	13.73	12.95	12.95
15	14.28	13.31	12.13	11.57	11.06	11.37	11.17	11.27	12.89	---	12.93	12.94
16	14.22	13.29	12.09	11.57	11.04	11.40	11.14	11.25	13.02	13.75	12.90	12.92
17	14.18	13.28	12.07	11.54	11.03	11.46	11.12	11.22	13.23	13.75	12.86	12.91
18	14.14	13.26	12.10	11.52	11.03	11.62	11.11	11.20	13.27	13.75	12.84	12.89
19	14.11	13.24	12.08	11.49	11.02	11.62	11.10	11.16	13.28	13.74	12.80	12.86
20	14.09	13.22	12.04	11.47	11.01	11.62	11.08	11.14	13.32	13.72	12.76	12.88
21	14.09	13.20	12.02	11.44	10.99	11.61	11.07	11.12	13.41	13.69	12.73	12.91
22	14.08	13.17	11.99	11.42	10.98	11.62	11.06	11.16	13.44	13.66	12.71	12.91
23	14.06	13.15	11.97	11.40	10.98	11.62	11.04	11.12	13.50	13.62	12.70	12.93
24	14.03	13.13	11.97	11.37	10.98	11.63	11.03	11.09	13.64	13.57	12.69	12.93
25	13.99	13.13	11.97	11.34	10.97	---	11.01	11.06	13.58	13.55	12.72	12.91
26	13.96	13.10	11.97	11.32	10.97	11.63	11.00	11.05	13.51	13.56	12.82	12.90
27	13.91	13.08	11.95	11.30	10.97	11.64	11.00	11.07	13.47	13.52	12.88	12.88
28	13.88	13.06	11.92	11.28	10.97	---	11.00	11.05	13.50	13.48	12.90	12.87
29	13.83	13.03	11.90	11.25	---	---	10.99	11.03	13.51	13.43	12.91	12.86
30	13.79	13.00	11.87	11.23	---	---	10.99	11.01	13.47	13.42	12.91	12.85
31	13.75	---	11.85	11.22	---	---	---	11.05	---	13.38	12.89	---
TOTAL	440.94	400.01	379.61	357.07	309.78	---	---	---	380.57	---	401.52	388.20
MEAN	14.22	13.33	12.25	11.52	11.06	---	---	---	12.69	---	12.95	12.94
MAX	14.62	13.72	12.98	11.84	11.21	---	---	---	13.64	---	13.33	13.06
MIN	13.75	13.00	11.85	11.22	10.97	---	---	---	11.13	---	12.69	12.85

261300080280001 NORTH NEW RIVER CANAL AT S-11-C, NEAR ANDYTOWN, FL

LOCATION.--Lat 26 13'43", long 80 27'37", in NE 1/4 sec.32, T.48 S., R.37 E., Broward County, Hydrologic Unit 03090202, in North New River Canal on the east bank of the spillway, 100 ft southeast of S-11-C, a four-gated control structure, 5.9 mi north of State Road 84 on U.S. Highway 27. The auxiliary stage recorder is located approximately 30 yards downstream of structure S-11-C on the west bank of the spillway.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1991 to current year.
REVISED RECORDS.--WDR FL-04-2A: 2002, 2003.

GAGE.--Satellite data collection platform with water-stage shaft encoders upstream and downstream of structure S-11-C. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Station is one of several located on Levee 38W which regulates flow for Conservation Areas 2A and 3A. Gage records are primarily used to determine stages.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.90 ft Dec. 22, 1994; minimum, 9.64 ft May 22, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.93 ft Dec. 12, 1994; minimum, indeterminate, many days during the 2001, 2002, 2004 water years when well went dry.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 14.13 ft Oct. 21-23; minimum, 10.41 ft Feb. 18.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 13.08 ft Oct. 12; minimum, 8.22 ft May 26.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.99	---	12.97	11.84	10.78	10.74	11.53	11.32	11.19	12.40	13.20	12.91
2	13.04	---	12.71	11.81	10.81	10.83	11.47	11.33	11.42	12.40	13.13	12.93
3	13.08	---	12.59	11.77	10.81	10.94	11.44	11.44	11.50	12.41	13.08	13.00
4	13.12	13.70	12.58	11.73	10.81	11.05	11.39	11.68	11.45	12.43	13.04	13.05
5	13.15	13.66	12.52	11.69	10.80	11.09	11.33	11.85	11.48	12.43	13.00	13.06
6	13.17	13.65	12.45	11.65	10.79	11.11	11.26	11.80	11.57	12.42	12.97	13.06
7	13.27	13.63	12.38	11.62	10.78	11.04	11.18	11.81	11.63	12.41	12.96	13.07
8	13.29	13.60	12.32	11.58	10.76	11.00	11.23	11.82	11.71	12.41	12.94	13.08
9	13.29	13.58	12.26	11.54	10.74	11.06	11.22	11.83	11.83	12.62	12.93	13.09
10	13.28	13.57	12.19	11.50	10.71	11.26	11.18	11.83	12.00	12.69	12.94	13.10
11	13.26	13.53	12.15	11.46	10.67	11.36	11.12	11.83	12.13	12.74	13.00	13.10
12	13.22	13.49	12.10	11.43	10.62	11.40	11.05	11.79	12.26	12.76	13.01	13.09
13	13.17	13.46	12.06	11.39	10.57	11.44	10.99	11.74	12.42	13.08	13.01	13.07
14	13.13	---	12.02	11.38	10.51	11.47	10.97	11.68	12.59	13.55	13.02	13.05
15	---	---	12.00	11.41	10.47	11.50	10.93	11.60	12.74	---	13.02	12.95
16	---	13.41	11.97	11.40	10.48	11.52	10.86	11.54	12.67	13.69	12.98	12.95
17	---	13.37	11.96	11.38	10.48	11.56	10.78	11.50	12.33	13.70	12.94	12.93
18	---	13.35	12.01	11.34	10.44	11.64	10.78	11.45	12.33	13.69	12.89	12.89
19	---	13.33	11.99	11.32	10.49	11.65	10.84	11.39	12.34	13.68	12.84	12.86
20	---	13.31	11.97	11.28	10.51	11.66	10.87	11.30	12.42	13.66	12.79	12.91
21	14.11	13.28	11.95	11.24	10.50	11.66	10.87	11.19	12.56	13.63	12.74	13.00
22	14.13	13.26	11.99	11.21	10.49	11.67	10.91	11.10	12.62	13.57	12.71	12.96
23	14.12	13.24	12.05	11.16	10.49	11.66	11.03	10.99	12.37	13.51	12.74	13.00
24	14.09	13.22	12.03	11.12	10.48	11.68	11.08	10.86	---	13.45	12.71	13.00
25	14.04	13.20	12.02	11.08	10.48	11.68	11.13	10.75	---	13.42	12.74	12.97
26	14.01	13.18	11.98	11.04	10.55	11.69	11.17	10.93	---	13.43	12.88	12.94
27	13.97	13.15	11.96	11.00	10.65	11.69	11.22	11.07	---	13.39	12.92	12.92
28	13.93	13.13	11.94	10.97	10.70	11.67	11.26	11.05	12.28	13.34	12.96	12.91
29	13.90	13.11	11.91	10.92	---	11.65	11.28	11.02	12.33	13.31	12.98	12.95
30	13.89	13.09	11.88	10.86	---	11.61	11.30	10.99	12.36	13.29	12.96	12.95
31	---	---	11.86	10.80	---	11.58	---	11.03	---	13.23	12.94	---
TOTAL	---	---	376.77	351.92	297.37	353.56	333.67	353.51	---	---	400.97	389.75
MEAN	---	---	12.15	11.35	10.62	11.41	11.12	11.40	---	---	12.93	12.99
MAX	---	---	12.97	11.84	10.81	11.69	11.53	11.85	---	---	13.20	13.10
MIN	---	---	11.86	10.80	10.44	10.74	10.78	10.75	---	---	12.71	12.86

261300080280001 NORTH NEW RIVER CANAL AT S-11-C, NEAR ANDYTOWN, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.89	11.80	10.84	10.35	10.0	9.55	9.77	8.67	8.94	12.34	12.42	11.95
2	12.92	11.75	10.96	10.33	9.94	9.53	9.73	8.63	9.11	12.35	12.39	11.95
3	12.96	11.71	10.97	10.30	9.92	9.51	9.76	8.68	9.51	12.36	12.36	11.99
4	12.99	11.67	10.94	10.28	9.89	9.56	9.72	9.02	9.93	12.39	12.32	12.00
5	13.01	11.63	10.92	10.27	9.84	9.54	9.63	9.52	10.00	12.39	12.31	11.98
6	---	11.59	10.90	10.26	9.83	9.51	9.55	9.63	10.06	12.38	12.30	11.99
7	---	11.54	10.88	10.24	9.82	9.50	9.53	9.60	10.12	12.37	12.28	11.99
8	---	11.49	10.87	10.22	9.80	9.49	9.72	9.60	10.16	12.37	12.28	11.99
9	---	11.45	10.85	10.20	9.79	9.52	9.75	9.59	10.21	12.58	12.26	11.96
10	---	11.41	10.84	10.18	9.77	9.68	9.71	9.50	10.30	12.64	12.22	11.94
11	---	11.37	10.84	10.17	9.74	9.63	9.67	9.45	10.41	12.69	12.15	11.98
12	---	11.34	10.82	10.15	9.72	9.68	9.66	9.37	10.46	12.72	12.12	11.97
13	13.05	11.30	10.79	10.14	9.70	9.69	9.61	9.32	10.50	12.63	12.09	11.96
14	13.01	11.27	10.77	10.16	9.67	9.69	9.56	9.26	10.51	12.51	12.07	11.95
15	12.85	11.23	10.74	10.23	9.63	9.68	9.44	9.20	10.52	---	12.09	11.97
16	12.56	11.19	10.71	10.26	9.65	9.70	9.31	9.13	10.71	12.47	12.06	11.91
17	12.47	11.16	10.71	10.26	9.61	9.74	9.24	9.06	11.12	12.47	12.03	11.88
18	12.41	11.13	10.73	10.25	9.56	9.94	9.16	8.97	11.19	12.45	12.00	11.87
19	12.37	11.10	10.73	10.24	9.52	9.97	9.06	8.91	11.29	12.45	11.96	11.86
20	12.39	11.06	10.73	10.23	9.51	9.98	8.99	8.85	11.39	12.43	11.95	11.90
21	12.40	11.03	10.71	10.22	9.51	9.99	8.93	8.76	11.53	12.41	11.96	11.99
22	12.36	11.00	10.63	10.17	9.47	10.0	8.86	8.70	11.58	12.40	11.95	11.94
23	12.31	10.97	10.54	10.13	9.46	10.00	8.80	8.65	11.86	12.38	11.98	11.90
24	12.26	10.95	10.50	10.09	9.45	9.99	8.68	8.60	---	12.38	11.94	11.85
25	12.21	10.94	10.49	10.09	9.45	9.99	8.58	8.44	---	12.38	11.96	11.81
26	12.16	10.90	10.50	10.13	9.41	9.98	8.54	8.29	---	12.37	12.00	11.78
27	12.11	10.87	10.46	10.12	9.45	9.98	8.55	8.57	---	12.36	12.02	11.78
28	12.06	10.84	10.44	10.09	9.50	9.96	8.63	8.55	12.21	12.35	12.05	11.82
29	11.99	10.80	10.40	10.07	---	9.91	8.66	8.47	12.27	12.37	12.04	11.88
30	11.91	10.77	10.35	10.07	---	9.83	8.68	8.42	12.30	12.36	12.01	11.85
31	11.85	---	10.35	10.05	---	9.78	---	8.52	---	12.38	11.98	---
TOTAL	---	337.26	331.91	315.95	270.61	302.50	277.48	277.93	---	---	375.55	357.59
MEAN	---	11.24	10.71	10.19	9.66	9.76	9.25	8.97	---	---	12.11	11.92
MAX	---	11.80	10.97	10.35	10.00	10.00	9.77	9.63	---	---	12.42	12.00
MIN	---	10.77	10.35	10.05	9.41	9.49	8.54	8.29	---	---	11.94	11.78

262240080258001 SITE 17 NEAR L-38 IN CONSERVATION AREA 2A NEAR CORAL SPRINGS, FL

LOCATION.--Lat 26 17'11", long 80 24'40", in NE 1/4 sec.11, T.48 S., R.39 E., Broward County, Hydrologic Unit 03090202, in Conservation Area 2A near L-38 and approximately 7 mi west of Coral Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1991 to current year. Prior to August 1991, station was operated by the U.S. Army Corps of Engineers.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 11.10 ft above National Geodetic Vertical datum of 1929. Gage is capable of recording water levels below land-surface datum. Rainfall data is not published but is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U.S. Army Corps of Engineers maintains raingage after September 30, 2003.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.38 ft Dec. 9, 1994; minimum, 10.30 ft May 19, 1999.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.60 ft Oct. 7, 8; minimum, 11.13 ft Mar. 2, 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.25	13.84	13.07	11.97	11.50	11.17	11.80	11.48	11.72	13.44	13.39	13.03
2	14.32	13.80	13.01	11.94	11.48	11.15	11.78	11.48	11.82	13.43	13.34	13.04
3	14.40	13.77	12.92	11.92	11.47	11.13	11.76	11.50	11.84	13.43	13.28	13.10
4	14.44	13.72	12.84	11.89	11.47	11.28	11.75	11.61	11.85	13.42	13.25	13.13
5	14.46	13.68	12.77	11.86	11.45	11.29	11.74	11.76	11.85	13.41	13.21	13.13
6	14.49	13.65	12.72	11.84	11.44	11.28	11.73	11.80	11.85	13.40	13.18	13.13
7	14.59	13.63	12.66	11.82	11.42	11.26	11.71	11.80	11.86	13.38	13.18	13.13
8	14.60	13.60	12.61	11.79	11.41	11.25	11.77	11.80	11.89	13.36	13.16	13.14
9	14.58	13.57	12.56	11.77	11.40	11.35	11.78	11.80	12.02	13.56	13.12	13.15
10	14.57	13.55	12.51	11.74	11.39	11.53	11.77	11.79	12.14	13.64	13.09	13.15
11	14.54	13.52	12.47	11.72	11.37	11.53	11.76	11.79	12.33	13.67	13.07	13.16
12	14.50	13.50	12.42	11.70	11.35	11.52	11.74	11.79	12.52	13.70	13.07	13.17
13	14.43	13.48	12.38	11.68	11.34	11.51	11.72	11.79	12.70	13.72	13.07	13.16
14	14.36	13.45	12.35	11.71	11.33	11.50	11.70	11.78	12.87	13.78	13.07	13.16
15	14.27	13.43	12.30	11.77	11.32	11.49	11.68	11.75	13.00	13.82	13.07	13.13
16	14.23	13.41	12.27	11.78	11.31	11.51	11.66	11.72	13.12	13.84	13.06	13.09
17	14.23	13.38	12.24	11.75	11.29	11.55	11.65	11.68	13.26	13.84	13.04	13.06
18	14.21	13.36	12.25	11.72	11.27	11.69	11.64	11.65	13.32	13.84	13.01	13.03
19	14.17	13.34	12.24	11.70	11.25	11.71	11.64	11.62	13.31	13.84	12.98	13.01
20	14.14	13.32	12.22	11.68	11.23	11.73	11.62	11.59	13.34	13.82	12.94	13.02
21	14.14	13.30	12.20	11.66	11.22	11.76	11.61	11.57	13.41	13.79	12.91	13.05
22	14.15	13.27	12.20	11.64	11.20	11.79	11.60	11.60	13.42	13.74	12.91	13.05
23	14.15	13.26	12.19	11.62	11.19	11.80	11.58	11.59	13.46	13.69	12.93	13.08
24	14.12	13.24	12.19	11.61	11.18	11.81	11.56	11.56	13.58	13.64	12.87	13.07
25	14.08	13.23	12.17	11.59	11.17	11.82	11.54	11.53	13.52	13.65	12.86	13.04
26	14.05	13.20	12.16	11.58	11.17	11.83	11.53	11.53	13.47	13.65	12.96	13.01
27	14.01	13.18	---	11.57	11.18	11.84	11.53	11.58	13.42	13.60	12.98	12.99
28	13.97	13.15	---	11.56	11.18	11.84	11.52	11.58	13.45	13.54	13.00	12.98
29	13.93	13.12	---	11.54	---	11.84	11.52	11.58	13.47	13.51	13.03	12.99
30	13.90	13.10	---	11.53	---	11.82	11.50	11.57	13.44	13.48	13.04	12.99
31	13.86	---	---	11.51	---	11.81	---	11.59	---	13.43	13.04	---
TOTAL	442.14	403.05	---	363.16	316.98	358.39	349.89	361.26	383.25	422.06	405.11	392.37
MEAN	14.26	13.44	---	11.71	11.32	11.56	11.66	11.65	12.78	13.61	13.07	13.08
MAX	14.60	13.84	---	11.97	11.50	11.84	11.80	11.80	13.58	13.84	13.39	13.17
MIN	13.86	13.10	---	11.51	11.17	11.13	11.50	11.48	11.72	13.36	12.86	12.98

261200080275001 NORTH NEW RIVER CANAL AT S-11-B NEAR ANDYTOWN, FL

LOCATION.--Lat 26 12'08", long 80 27'13", in NE 1/4 sec.9, T.48 S., R.37 E., Broward County, Hydrologic Unit 03090202, on North New River Canal on the east bank of the spillway, 100 ft southeast of S-11-B, a four-gated control structure, 4.0 mi north of State Road 84 on U.S. Highway 27. The auxiliary stage recorder is located approximately 30 yards downstream of S-11-B, on the west bank of the spillway .

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders upstream and downstream of structure S-11-B. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Station is one of several located on L-38W which regulates flow for Conservation Area 2A and 3A. Gage records are primarily used to determine stage.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.85 ft Jan. 15, 1995; minimum, 9.67 ft May 22, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.84 ft Dec. 5, 1994; minimum, indeterminate, many days during the 2001, 2002, 2004 water years when well went dry.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 14.17 ft Oct. 22; minimum, 10.44 ft Feb. 18.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 13.01 ft Oct. 9; minimum, 8.25 ft May 26.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.94	13.84	12.99	11.87	10.81	10.74	11.50	11.25	11.15	12.38	13.14	12.88
2	12.99	13.80	12.73	11.83	10.84	10.81	11.44	11.27	11.36	12.38	13.08	12.90
3	13.03	13.76	12.62	11.80	10.84	10.92	11.41	11.38	11.45	12.39	13.02	12.97
4	13.07	13.72	12.60	11.76	10.84	11.04	11.37	11.63	11.40	12.41	12.98	13.02
5	13.09	13.69	12.54	11.72	10.83	11.07	11.31	11.78	11.43	12.41	12.94	13.03
6	13.11	13.68	12.47	11.69	10.82	11.11	11.24	11.73	11.50	12.40	12.91	13.03
7	13.21	13.66	12.41	11.65	10.81	11.06	11.16	11.73	11.56	12.39	12.90	13.03
8	13.23	13.63	12.35	11.61	10.79	11.01	11.20	11.73	11.63	12.39	12.88	13.04
9	13.23	13.61	12.28	11.58	10.77	11.08	11.20	11.73	11.74	12.58	12.86	13.04
10	13.22	13.60	12.21	11.54	10.74	11.27	11.16	11.74	11.90	12.66	12.88	13.05
11	13.21	13.55	12.17	11.50	10.70	11.35	11.10	11.74	12.04	12.73	12.97	13.05
12	13.18	13.52	12.13	11.46	10.65	11.40	11.01	11.71	12.17	12.76	12.98	13.04
13	13.15	13.49	12.09	11.42	10.59	11.43	10.95	11.67	12.34	13.01	12.98	13.02
14	13.11	13.48	12.05	11.41	10.54	11.47	10.94	11.62	12.52	13.47	12.98	13.01
15	13.37	13.47	12.03	11.45	10.50	11.50	10.91	11.55	12.69	---	12.98	12.93
16	14.06	13.43	12.00	11.45	10.50	11.51	10.85	11.49	12.63	13.57	12.94	12.93
17	14.15	13.40	11.99	11.42	10.49	11.56	10.76	11.44	12.28	13.60	12.90	12.90
18	14.12	13.38	12.03	11.39	10.46	11.63	10.75	11.40	12.28	13.61	12.85	12.87
19	14.08	13.36	12.02	11.36	10.50	11.63	10.81	11.34	12.29	13.60	12.80	12.84
20	14.08	13.33	12.00	11.32	10.52	11.64	10.83	11.26	12.37	13.58	12.76	12.89
21	14.13	13.31	11.98	11.28	10.51	11.64	10.84	11.16	12.52	13.54	12.72	12.97
22	14.16	13.28	12.01	11.24	10.50	11.64	10.86	11.08	12.59	13.50	12.69	12.95
23	14.14	13.26	12.06	11.20	10.50	11.63	10.96	10.97	12.33	13.44	12.71	12.99
24	14.11	13.24	12.06	11.17	10.49	11.65	11.03	10.83	12.21	13.38	12.67	13.00
25	14.06	13.21	12.05	11.13	10.49	11.65	11.07	10.73	12.18	13.35	12.71	12.97
26	14.04	13.20	12.01	11.08	10.56	11.67	11.10	10.90	12.16	13.36	12.84	12.94
27	14.00	13.18	12.00	11.04	10.64	11.65	11.15	11.06	12.17	13.33	12.88	12.92
28	13.96	13.16	11.97	11.00	10.69	11.64	11.20	11.04	12.24	13.27	12.93	12.91
29	13.92	13.14	11.94	10.95	---	11.63	11.22	11.01	12.29	13.25	12.95	12.94
30	13.91	13.12	11.91	10.89	---	11.59	11.23	10.99	12.33	13.23	12.93	12.94
31	13.87	---	11.90	10.83	---	11.55	---	11.01	---	13.18	12.91	---
TOTAL	421.93	403.50	377.60	353.04	297.92	353.17	332.56	351.97	361.75	---	399.67	389.00
MEAN	13.61	13.45	12.18	11.39	10.64	11.39	11.09	11.35	12.06	---	12.89	12.97
MAX	14.16	13.84	12.99	11.87	10.84	11.67	11.50	11.78	12.69	---	13.14	13.05
MIN	12.94	13.12	11.90	10.83	10.46	10.74	10.75	10.73	11.15	---	12.67	12.84

261200080275001 NORTH NEW RIVER CANAL AT S-11-B NEAR ANDYTOWN, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.77	11.78	10.79	10.32	9.98	9.50	9.75	8.68	8.92	12.30	12.41	11.96
2	12.80	11.74	10.92	10.30	9.94	9.48	9.72	8.64	9.12	12.30	12.38	11.96
3	12.83	11.69	10.94	10.28	9.91	9.47	9.73	8.68	9.45	12.32	12.35	12.00
4	12.86	11.65	10.89	10.26	9.90	9.53	9.70	8.99	9.81	12.34	12.32	12.00
5	12.88	11.62	10.87	10.25	9.85	9.51	9.62	9.46	9.91	12.34	12.30	11.99
6	12.90	11.57	10.84	10.24	9.83	9.49	9.54	9.58	9.98	12.33	12.29	12.00
7	12.98	11.53	10.83	10.22	9.82	9.48	9.52	9.55	10.03	12.32	12.28	12.00
8	12.99	11.48	10.81	10.20	9.80	9.48	9.70	9.55	10.08	12.32	12.28	12.00
9	12.99	11.45	10.79	10.18	9.78	9.51	9.74	9.55	10.13	12.51	12.26	11.97
10	12.99	11.39	10.78	10.16	9.77	9.65	9.71	9.50	10.22	12.59	---	11.95
11	12.98	11.36	10.79	10.15	9.74	9.62	9.66	9.46	10.33	12.65	12.15	12.00
12	12.97	11.33	10.76	10.14	9.72	9.64	9.65	9.39	10.38	12.67	12.12	11.99
13	12.95	11.30	10.74	10.12	9.70	9.64	9.60	9.34	10.42	12.61	12.10	11.97
14	12.92	11.28	10.71	10.14	9.68	9.64	9.54	9.27	10.42	12.52	---	---
15	12.79	11.22	10.67	10.19	9.64	9.63	9.45	9.20	10.43	---	---	11.95
16	12.53	11.18	10.65	10.22	9.66	9.64	9.33	9.14	10.63	12.48	12.06	11.90
17	12.44	11.15	10.65	10.21	9.62	9.70	9.26	9.07	11.06	12.47	12.03	11.88
18	12.37	11.12	10.66	10.20	9.57	9.92	9.17	8.98	11.15	12.46	---	---
19	12.35	11.08	10.65	10.19	9.53	9.94	9.06	8.93	11.22	12.45	11.96	11.86
20	12.37	11.06	10.65	10.18	9.52	9.94	9.00	8.86	11.34	12.44	11.96	11.91
21	12.39	11.03	10.63	10.17	9.51	9.94	8.94	8.78	11.48	12.42	11.97	11.98
22	12.34	11.00	10.56	10.14	9.48	9.95	8.87	8.71	11.54	12.41	11.96	11.92
23	12.29	10.97	10.47	10.12	9.46	9.96	8.81	8.66	11.77	12.39	11.98	11.88
24	12.23	10.95	10.44	10.08	9.46	9.95	8.70	8.62	12.07	12.38	11.95	11.84
25	12.19	10.93	10.43	10.07	9.46	9.95	8.59	8.46	12.05	12.38	11.98	---
26	12.14	10.90	10.44	10.09	9.42	9.94	8.54	---	12.05	12.37	12.00	11.76
27	12.09	10.87	10.40	10.07	9.45	9.94	8.56	---	12.07	12.36	12.03	11.76
28	12.04	10.84	10.37	10.05	9.48	9.93	8.65	8.53	12.15	12.36	12.06	11.81
29	11.97	10.80	10.34	10.03	---	9.89	8.67	8.44	12.21	12.36	---	11.86
30	11.89	10.77	10.31	10.03	---	9.82	8.68	8.40	12.25	12.36	12.01	11.83
31	11.84	---	10.32	10.02	---	9.76	---	8.50	---	12.37	11.99	---
TOTAL	389.07	337.04	330.10	315.02	270.68	301.44	277.46	---	324.67	---	---	---
MEAN	12.55	11.23	10.65	10.16	9.67	9.72	9.25	---	10.82	---	---	---
MAX	12.99	11.78	10.94	10.32	9.98	9.96	9.75	---	12.25	---	---	---
MIN	11.84	10.77	10.31	10.02	9.42	9.47	8.54	---	8.92	---	---	---

261117080315201 SITE 63 IN CONSERVATION AREA 3A, NEAR ANDYTOWN, FL

LOCATION.--Lat 26 11'19", long 80 31'52", in SE $^{1}/_{4}$ sec.10, T.38 S., R.49 E., Broward County, Hydrologic Unit 03090202, in Conservation Area 3A, 6.2 mi west of intersection of U.S. Interstate 75 and U.S. Highway 27 and 4 mi north of U.S. Interstate 75.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder . Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 8.40 ft above National Geodetic Vertical Datum of 1929. Gage is capable of recording water levels below land-surface datum. Rainfall data available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Corps of Engineers maintains raingage after September 30, 2003.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.45 ft Dec. 6, 9-11, 1994; minimum, 7.24 ft June 1, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.45 ft Oct. 15, 16; minimum, 9.27 ft May 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.35	11.75	10.73	10.29	9.93	9.43	9.66	9.31	9.84	11.93	12.27	11.87
2	12.35	11.72	10.73	10.29	9.92	9.42	9.65	9.29	9.89	11.95	12.24	11.86
3	12.37	11.67	10.73	10.28	9.90	9.39	9.65	9.33	9.96	11.99	12.22	11.88
4	12.38	11.62	10.72	10.26	9.89	9.42	9.63	9.56	10.01	12.02	12.19	11.88
5	12.38	11.59	10.71	10.23	9.89	9.42	9.61	9.84	10.02	12.02	12.17	11.89
6	12.39	11.54	10.69	10.21	9.87	9.42	9.59	9.90	10.03	12.02	12.17	11.90
7	12.41	11.51	10.66	10.18	9.83	9.41	9.57	9.92	10.03	12.02	12.15	11.89
8	12.42	11.46	10.65	10.18	9.82	9.40	9.63	9.92	10.06	12.02	12.15	11.89
9	12.42	11.41	10.64	10.16	9.78	9.44	9.65	9.92	10.08	12.20	12.13	11.87
10	12.42	11.37	10.64	10.14	9.78	9.56	9.65	9.90	10.15	12.29	12.11	11.86
11	12.42	11.34	10.63	10.13	9.74	9.56	9.65	9.89	10.26	12.34	12.07	11.90
12	12.42	11.31	10.61	10.11	9.73	9.56	9.65	9.87	10.31	12.36	12.04	11.88
13	12.43	11.27	10.58	10.09	9.71	9.56	9.65	9.84	10.32	12.37	12.02	11.87
14	12.44	11.24	10.57	10.08	9.69	9.56	9.65	9.83	10.33	12.37	11.99	11.85
15	---	11.21	10.54	10.10	9.68	9.55	9.64	9.84	10.34	12.35	12.02	11.84
16	12.40	11.17	10.52	10.10	9.66	9.54	9.62	9.89	10.35	12.33	11.98	11.81
17	12.33	11.13	10.51	10.10	9.64	9.54	9.60	9.87	10.40	12.32	11.95	11.78
18	12.26	11.10	10.51	10.10	9.61	9.64	9.58	9.84	10.53	12.30	11.92	11.77
19	12.23	11.07	10.50	10.09	9.59	9.65	9.56	9.82	10.69	12.29	11.89	11.76
20	12.27	11.04	10.48	10.08	9.56	9.66	9.54	9.79	10.83	12.28	11.88	11.78
21	---	11.01	10.47	10.07	9.55	9.66	9.52	9.77	11.02	12.26	11.87	11.85
22	---	10.98	10.46	10.06	9.53	9.66	9.50	9.75	11.09	12.25	11.87	11.84
23	---	10.95	10.45	10.05	9.52	9.67	9.47	9.73	11.22	12.24	11.89	11.81
24	---	10.93	10.43	10.04	9.49	9.70	9.45	9.70	11.52	12.23	11.87	11.78
25	---	10.90	10.41	10.02	9.49	9.70	9.42	9.67	11.56	12.23	11.87	11.74
26	---	10.88	10.39	10.00	9.47	9.70	9.39	9.68	11.59	12.22	11.91	11.70
27	---	10.85	10.36	9.99	9.46	9.70	9.38	9.78	11.63	12.22	11.93	11.71
28	---	10.82	10.33	9.98	9.45	9.70	9.38	9.76	11.72	12.22	11.94	11.73
29	11.92	10.79	10.31	9.97	---	9.70	9.35	9.74	11.82	12.21	11.93	11.77
30	11.87	10.76	10.30	9.96	---	9.69	9.33	9.72	11.88	12.21	11.91	11.75
31	11.81	---	10.29	9.95	---	9.68	---	9.76	---	12.24	11.89	---
TOTAL	---	336.39	326.55	313.29	271.18	296.69	286.62	302.43	319.48	378.30	372.44	354.71
MEAN	---	11.21	10.53	10.11	9.68	9.57	9.55	9.76	10.65	12.20	12.01	11.82
MAX	---	11.75	10.73	10.29	9.93	9.70	9.66	9.92	11.88	12.37	12.27	11.90
MIN	---	10.76	10.29	9.95	9.45	9.39	9.33	9.29	9.84	11.93	11.87	11.70

261150080270001 NORTH NEW RIVER CANAL AT S-11-A, NEAR ANDYTOWN, FL

LOCATION.--Lat 26 10'40", long 80 26'53", in SE $^{1}/_{4}$ sec.16, T.49 S., R.39 E., Broward County, Hydrologic Unit 03090202, on North New River Canal on the east bank of the spillway, 100 ft northeast of S-11-A, a four-gated control structure, 2.2 mi north of State Road 84 on U.S. Highway 27. The auxiliary stage recorder is located approximately 30 yards upstream of S-11-A on the west bank of the spillway.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders upstream and downstream of structure S-11-A. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Station is one of several located on Levee 38W which regulates flow for Conservation Areas 2A and 3A. Gage records are primarily used to determine stage. Rainfall data available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Coprs of Engineers maintains raingage after September 30, 2003.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.12 ft Dec. 21, 1994; minimum, 9.64 ft May 22, 23, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.80 ft Dec. 5, 1994; minimum, 7.53 ft May 14, 2002.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 14.15 ft Oct. 22; minimum, 10.44 ft Feb. 17, 18.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 12.89 ft Oct. 8-10; minimum, 8.11 ft May 26.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.94	13.81	12.98	11.86	10.80	10.74	11.49	11.23	11.14	---	13.12	12.84
2	12.99	13.76	12.72	11.83	10.83	10.81	11.44	11.27	11.36	---	13.05	12.86
3	13.03	13.73	12.62	11.79	10.83	10.91	11.42	11.38	11.44	---	13.00	12.93
4	13.07	13.69	12.61	11.75	10.83	11.04	11.36	11.63	11.39	---	12.96	12.99
5	13.09	13.66	12.55	11.71	10.83	11.07	11.30	11.78	11.42	---	12.92	13.00
6	13.11	13.66	12.47	11.67	10.82	11.10	11.23	---	11.50	12.39	12.89	12.99
7	13.21	13.64	12.41	11.64	10.80	11.05	11.14	---	11.55	12.38	12.88	12.99
8	13.23	13.61	12.34	11.60	10.78	11.00	11.20	---	11.62	12.37	12.86	12.99
9	13.23	13.58	12.28	11.57	10.76	11.09	11.20	---	11.73	12.55	12.84	12.99
10	13.22	13.57	12.20	11.53	10.73	11.27	11.16	---	11.88	12.65	12.86	13.00
11	13.21	13.53	12.17	11.49	10.70	11.34	11.09	---	12.03	12.72	12.93	13.01
12	13.18	13.49	12.13	11.45	10.64	11.40	11.01	---	12.17	12.74	12.94	12.99
13	13.15	13.47	12.08	11.41	10.58	11.43	10.95	---	12.34	13.00	12.94	12.98
14	13.10	13.47	12.04	11.39	10.52	11.46	10.94	---	12.52	13.45	12.94	12.96
15	13.36	13.45	12.04	11.45	10.48	11.50	10.91	---	12.68	---	12.94	12.89
16	14.05	13.41	11.99	11.46	10.49	11.50	10.85	---	12.64	13.54	12.90	12.88
17	14.12	13.37	11.99	11.43	10.49	11.56	10.77	11.43	12.30	13.54	12.86	12.85
18	14.09	13.35	12.03	11.40	10.47	11.64	10.75	11.39	12.30	13.54	12.81	12.83
19	14.05	13.33	12.01	11.35	10.50	11.63	10.81	11.34	12.30	13.54	12.76	12.80
20	14.05	13.31	12.00	11.31	10.52	11.64	10.83	11.25	12.38	13.53	12.72	12.84
21	14.11	13.28	11.97	11.27	10.50	11.63	10.84	11.16	12.53	13.52	12.68	12.93
22	14.13	13.26	12.00	11.23	10.50	11.63	10.86	11.07	12.61	13.47	12.65	12.91
23	14.12	13.24	12.05	11.20	10.50	11.63	10.95	10.97	12.38	13.41	12.67	12.96
24	14.08	13.21	12.05	11.17	10.49	11.65	11.02	10.83	12.23	13.35	12.64	12.97
25	14.04	13.20	12.04	11.12	10.49	11.65	11.06	10.73	12.19	13.32	12.69	12.94
26	14.01	13.19	12.00	11.07	10.56	11.67	11.08	---	12.17	13.33	12.79	12.91
27	13.97	13.16	12.00	11.03	10.63	11.65	11.14	---	12.18	13.29	12.84	12.89
28	13.93	13.14	11.97	10.99	10.70	11.63	11.19	11.04	12.26	13.24	12.88	12.87
29	13.89	13.12	11.93	10.94	---	11.63	11.21	11.02	12.31	13.22	12.90	12.91
30	13.87	13.10	11.90	10.87	---	11.59	11.22	10.99	---	13.20	12.88	12.91
31	13.84	---	11.89	10.83	---	11.54	---	11.01	---	13.15	12.87	---
TOTAL	421.47	402.79	377.46	352.81	297.77	353.08	332.42	---	---	---	398.61	387.81
MEAN	13.60	13.43	12.18	11.38	10.63	11.39	11.08	---	---	---	12.86	12.93
MAX	14.13	13.81	12.98	11.86	10.83	11.67	11.49	---	---	---	13.12	13.01
MIN	12.94	13.10	11.89	10.83	10.47	10.74	10.75	---	---	---	12.64	12.80

261150080270001 NORTH NEW RIVER CANAL AT S-11-A, NEAR ANDYTOWN, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.67	11.75	10.75	10.27	9.94	9.45	9.68	8.64	8.87	---	12.34	11.93
2	12.70	11.70	10.82	10.25	9.90	9.43	9.65	8.61	9.08	---	12.31	11.92
3	12.72	11.66	10.80	10.23	9.88	9.42	9.65	8.64	9.35	---	12.29	11.97
4	12.75	11.62	10.72	10.21	9.86	9.48	9.62	8.92	9.65	---	12.26	11.97
5	12.77	11.59	10.69	10.20	9.83	9.47	9.56	9.39	9.76	---	12.24	11.96
6	12.78	11.55	10.67	10.19	9.80	9.45	9.49	9.52	9.83	12.21	12.23	11.97
7	12.86	11.50	10.66	10.17	9.79	9.43	9.46	9.49	9.89	12.20	12.22	11.96
8	12.88	11.45	10.64	10.15	9.77	9.44	9.64	9.49	9.94	12.20	12.23	11.96
9	12.88	11.41	10.63	10.14	9.75	9.48	9.68	9.50	9.99	12.40	12.20	11.94
10	12.88	11.36	10.62	10.12	9.74	9.61	9.65	9.47	10.09	12.49	12.17	11.92
11	12.87	11.33	10.62	10.10	9.71	9.58	9.60	9.43	10.20	12.55	12.12	11.97
12	12.85	11.30	10.59	10.09	9.69	9.59	9.58	9.36	10.25	12.57	12.09	11.96
13	12.83	11.26	10.57	10.07	9.67	9.58	9.54	9.31	10.29	12.52	12.06	11.94
14	12.80	11.23	10.55	10.09	9.64	9.58	9.49	9.24	10.28	12.45	12.04	11.92
15	12.70	11.18	10.53	10.14	9.61	9.57	9.41	9.18	10.29	---	12.06	11.91
16	12.46	11.14	10.51	10.17	9.63	9.58	9.31	9.12	10.46	12.41	12.02	11.87
17	12.37	11.12	10.50	10.16	9.60	9.63	9.24	9.04	10.83	12.41	11.99	11.84
18	12.30	11.08	10.51	10.14	9.56	9.84	9.14	8.96	10.93	12.39	11.96	11.83
19	12.28	11.05	10.50	10.12	9.52	9.86	9.03	8.91	11.01	12.39	11.93	11.83
20	12.32	11.02	10.49	10.12	9.50	9.86	8.96	8.84	11.15	12.37	11.93	11.88
21	12.36	10.99	10.48	10.11	9.49	9.86	8.91	8.76	11.31	12.35	11.93	11.94
22	12.30	10.96	10.45	10.09	9.46	9.86	8.84	8.69	11.38	12.34	11.92	11.87
23	12.24	10.93	10.40	10.07	9.44	9.87	8.78	8.63	11.60	12.33	11.94	11.83
24	12.18	10.90	10.38	10.04	9.43	9.86	8.67	8.59	11.89	12.32	11.92	11.79
25	12.13	10.89	10.36	10.03	9.44	9.86	8.56	8.43	11.90	12.32	11.95	11.75
26	12.08	10.86	10.37	10.03	9.40	9.85	8.51	8.23	11.91	12.30	11.97	11.72
27	12.03	10.82	10.34	10.02	9.42	9.85	8.53	8.50	11.93	12.30	12.00	11.72
28	11.98	10.80	10.31	9.99	9.45	9.85	8.62	8.47	12.02	12.30	12.02	11.77
29	11.93	10.76	10.27	9.97	---	9.80	8.63	8.39	12.08	12.30	12.01	11.82
30	11.86	10.72	10.25	9.97	---	9.75	8.64	8.34	---	12.29	11.97	11.79
31	11.80	---	10.26	9.96	---	9.70	---	8.44	---	12.31	11.95	---
TOTAL	386.56	335.93	326.24	313.41	269.92	299.44	276.07	276.53	---	---	374.27	356.45
MEAN	12.47	11.20	10.52	10.11	9.64	9.66	9.20	8.92	---	---	12.07	11.88
MAX	12.88	11.75	10.82	10.27	9.94	9.87	9.68	9.52	---	---	12.34	11.97
MIN	11.80	10.72	10.25	9.96	9.40	9.42	8.51	8.23	---	---	11.92	11.72

261023080443001 SITE 62 IN CONSERVATION AREA 3A, NEAR ANDYTOWN, FL

LOCATION.--Lat 26 10'28", long 80 45'05", T.36 S., R.49 E., Broward County, Hydrologic Unit 03090202, 20.5 mi west of intersection of U.S. Interstate 75 and U.S. Highway 27 and 1.5 mi north of U.S. Interstate 75. No section could be determined from existing map.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 9.90 ft above National Geodetic Vertical Datum of 1929. Gage is capable of recording water levels below land-surface datum. Rainfall data available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Coprs of Engineers maintains raingage after September 30, 2003.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.68 ft Oct. 21, 1999; minimum, 8.06 ft June 3, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.84 ft July 10, 11; minimum, 10.28 ft Apr. 2, 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.45	11.99	11.20	10.79	10.53	10.30	11.04	10.69	10.98	12.62	12.59	12.44
2	12.44	11.95	11.17	10.78	10.53	10.29	11.04	10.68	11.03	12.61	12.59	12.43
3	12.45	11.91	11.15	10.77	---	10.28	11.04	10.67	11.12	12.61	12.57	12.48
4	12.44	11.87	11.12	10.77	10.51	10.35	11.04	10.84	11.21	12.58	12.57	12.50
5	12.43	11.85	11.11	10.76	10.50	10.35	11.02	11.19	11.28	12.55	12.58	12.51
6	12.44	11.84	11.09	10.74	10.49	10.35	11.00	11.26	11.33	12.53	12.56	12.50
7	12.48	11.79	11.07	10.73	10.49	10.33	11.00	11.28	11.37	12.50	12.56	12.50
8	12.45	11.76	11.05	---	10.48	10.33	11.11	11.26	11.42	12.50	12.55	12.51
9	12.43	11.73	11.04	10.69	---	10.39	11.12	11.23	11.47	12.72	12.53	12.50
10	12.41	11.69	11.02	---	10.45	10.52	11.09	11.20	11.59	12.83	12.52	12.49
11	12.39	11.66	11.01	---	10.45	10.53	11.07	11.16	11.70	12.84	12.51	12.52
12	12.38	11.61	10.99	---	10.44	10.55	11.05	11.13	11.77	12.82	12.50	12.50
13	12.36	11.58	10.97	10.64	10.43	10.57	11.03	11.11	11.82	12.81	12.48	12.47
14	12.34	11.55	10.95	10.64	10.42	10.57	11.00	11.09	11.84	12.80	12.47	12.44
15	12.37	11.52	10.93	10.66	---	10.57	10.98	11.09	11.84	12.78	12.44	12.39
16	12.36	11.51	10.91	10.67	---	10.56	10.97	11.18	11.84	12.78	12.43	12.37
17	12.34	11.49	10.90	10.67	---	10.59	10.94	11.15	11.84	12.80	12.42	12.34
18	12.31	11.48	10.89	10.65	10.37	10.73	10.92	11.13	11.85	12.79	12.42	12.31
19	12.30	11.45	10.87	10.65	10.36	10.77	10.90	11.10	11.89	12.77	12.41	12.29
20	12.35	11.43	10.86	10.64	---	10.80	10.88	11.07	11.96	12.74	12.40	12.32
21	12.40	11.38	10.84	10.64	---	10.82	10.85	11.05	12.07	12.72	12.40	12.32
22	12.37	11.35	10.83	10.63	10.33	10.85	10.84	11.03	12.11	12.70	12.37	12.31
23	12.34	11.34	10.81	10.63	10.32	10.89	10.82	11.01	12.19	12.67	12.37	12.31
24	12.31	11.32	10.81	10.61	10.31	10.92	10.80	10.98	12.37	12.66	12.37	12.29
25	12.27	11.31	10.81	10.60	10.31	10.95	10.78	10.95	12.35	12.65	12.36	12.27
26	12.22	11.29	10.81	10.59	10.31	10.98	10.76	10.96	12.34	12.62	12.38	12.24
27	12.19	11.27	10.79	10.59	10.32	10.99	10.76	11.02	12.36	12.62	12.44	12.23
28	12.15	11.26	10.78	10.58	10.32	11.01	10.75	10.98	12.42	12.60	12.47	12.22
29	12.11	11.23	10.77	10.57	---	11.02	10.73	10.95	12.58	12.59	12.47	12.22
30	12.08	11.22	10.75	---	---	11.03	10.71	10.93	12.65	12.59	12.46	12.24
31	12.04	---	10.77	10.54	---	11.04	---	10.95	---	12.59	12.45	---
TOTAL	382.40	346.63	339.07	---	---	330.23	328.04	342.32	354.59	392.99	386.64	371.46
MEAN	12.34	11.55	10.94	---	---	10.65	10.93	11.04	11.82	12.68	12.47	12.38
MAX	12.48	11.99	11.20	---	---	11.04	11.12	11.28	12.65	12.84	12.59	12.52
MIN	12.04	11.22	10.75	---	---	10.28	10.71	10.67	10.98	12.50	12.36	12.22

260810080222001 SITE 99 NEAR L-35A IN CONSERVATION AREA 2B, NEAR SUNRISE, FL

LOCATION.--Lat 26 08'21", long 80 22'02", in sec.32, T.49 S., R.40 E., Broward County, Hydrologic Unit 03090202, located in Conservation Area 2B, north of North New River Canal, West of Markham Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 6.20 ft above National Geodetic Vertical Datum of 1929. Rainfall data collection discontinued April 4, 1996. Rainfall data available in files of the U.S. Geological Survey. Prior to July 1991, station operated by the U.S. Army Corps of Engineers. Raingage maintained by U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.92 ft Dec. 23, 1994; minimum, 4.12 ft May 26, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.32 ft July 13; minimum, 9.07 ft May 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.53	10.91	10.50	10.67	10.45	9.83	9.60	9.11	9.40	11.12	10.94	11.03
2	10.55	10.93	10.49	10.67	10.43	9.80	9.60	9.09	9.47	11.13	10.92	11.06
3	10.58	10.95	10.50	10.67	10.41	9.77	9.60	9.13	9.53	11.13	10.90	11.10
4	10.61	10.97	10.51	10.66	10.39	9.84	9.58	9.29	9.58	11.11	10.89	11.12
5	10.63	10.99	10.52	10.66	10.37	9.82	9.52	9.44	9.62	11.08	10.86	11.12
6	10.66	10.99	10.53	10.66	10.34	9.79	9.50	9.53	9.69	11.05	10.86	11.11
7	10.73	10.96	10.54	10.65	10.32	9.77	9.48	9.54	9.70	11.01	10.88	11.09
8	10.77	10.94	10.55	10.65	10.30	9.75	9.60	9.54	9.71	10.99	10.88	11.06
9	10.79	10.91	10.55	10.64	10.27	9.79	9.63	9.53	9.74	11.17	10.86	11.04
10	10.82	10.89	10.56	10.63	10.26	9.90	9.63	9.53	9.79	11.26	10.84	11.01
11	10.85	10.86	10.59	10.62	10.24	9.88	9.62	9.51	9.86	11.27	10.82	11.02
12	10.89	10.85	10.59	10.61	10.20	9.86	9.60	9.50	9.88	11.26	10.81	10.99
13	10.92	10.83	10.59	10.59	10.17	9.84	9.58	9.49	9.89	11.27	10.79	10.96
14	10.94	10.81	10.59	10.62	10.15	9.82	9.56	9.47	9.90	11.29	10.77	10.93
15	10.99	10.79	10.60	10.69	10.13	9.80	9.54	9.46	9.91	11.28	10.75	10.91
16	11.00	10.76	10.58	10.71	10.11	9.76	9.51	9.45	9.93	11.25	10.74	10.88
17	10.97	10.74	10.60	10.70	10.08	9.80	9.49	9.43	10.08	11.22	10.74	10.86
18	10.95	10.72	10.64	10.68	10.06	9.90	9.46	9.42	10.16	11.19	10.75	10.84
19	10.94	10.70	10.65	10.65	10.04	9.88	9.44	9.41	10.20	11.17	10.76	10.83
20	10.94	10.68	10.65	10.64	10.01	9.85	9.42	9.39	10.28	11.14	10.77	10.88
21	10.96	10.66	10.64	10.63	9.98	9.82	9.38	9.37	10.40	11.12	10.80	10.97
22	10.96	10.64	10.64	10.62	9.96	9.80	9.35	9.37	10.43	11.09	10.86	10.96
23	10.95	10.62	10.64	10.61	9.94	9.78	9.33	9.35	10.50	11.06	10.91	10.97
24	10.94	10.60	10.65	10.59	9.92	9.76	9.30	9.33	10.65	11.03	10.92	10.95
25	10.92	10.60	10.66	10.57	9.90	9.74	9.27	9.31	10.68	11.01	10.97	10.92
26	10.89	10.59	10.66	10.55	9.89	9.72	9.23	9.32	10.71	10.99	11.04	10.90
27	10.87	10.57	10.66	10.54	9.86	9.69	9.22	9.43	10.76	10.97	11.07	10.88
28	10.85	10.55	10.64	10.52	9.85	9.67	9.20	9.41	10.90	10.95	11.09	10.87
29	10.84	10.53	10.64	10.50	---	9.64	9.17	9.38	10.98	10.95	11.08	10.87
30	10.86	10.51	10.64	10.49	---	9.62	9.14	9.37	11.03	10.96	11.05	10.88
31	10.89	---	10.66	10.47	---	9.62	---	9.36	---	10.96	11.04	---
TOTAL	335.99	323.05	328.46	329.16	284.03	303.31	283.55	291.26	303.36	344.48	337.36	329.01
MEAN	10.84	10.77	10.60	10.62	10.14	9.78	9.45	9.40	10.11	11.11	10.88	10.97
MAX	11.00	10.99	10.66	10.71	10.45	9.90	9.63	9.54	11.03	11.29	11.09	11.12
MIN	10.53	10.51	10.49	10.47	9.85	9.62	9.14	9.09	9.40	10.95	10.74	10.83

260037080303401 SITE 76 IN CONSERVATION AREA 3B NEAR ANDYTOWN, FL

LOCATION.--Lat 26°00'27", long 80°28'58", in NW ¼ sec.18, T.39 S., R.51 E., Broward County, Hydrologic Unit 03090202, in Conservation Area 3B approximately 0.7 mi southeast of Levee 67C, 3 mi southwest of intersection of Levee 67C and Levee 67A.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 6.80 ft above National Geodetic Vertical Datum of 1929. Rainfall data is available in files of the U.S. Geological Survey. Revised figures of stage required because an erroneous M.P. elevation was initially used for the 1995-98 water years. These will not be republished and supersede those published in the reports for 1995-98. The revised data are available in the files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Corps of Engineers maintains raingage after September 30, 2003.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.66 ft Oct. 15, 1999; minimum, 5.39 ft May 22, 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.81 ft July 11, 12; minimum, 6.90 ft May 3, 4.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.01	8.22	7.98	7.55	7.43	7.29	7.27	6.94	7.13	8.55	8.31	8.30
2	8.01	8.23	7.99	7.55	7.42	7.28	7.26	6.92	7.15	8.61	8.34	8.31
3	8.02	8.23	7.99	7.55	7.41	7.27	7.25	6.90	7.21	8.61	8.31	8.30
4	8.02	8.23	7.98	7.54	7.41	7.34	7.24	6.97	7.25	8.61	8.29	8.30
5	8.02	8.22	7.98	7.53	7.41	7.32	7.22	7.17	7.27	8.61	8.27	8.29
6	8.02	8.22	7.98	7.53	7.40	7.31	7.21	7.17	7.32	8.61	8.26	8.29
7	8.00	8.22	7.97	7.51	7.40	7.30	7.18	7.15	7.31	8.61	8.29	8.28
8	8.00	8.22	7.94	7.51	7.39	7.29	7.33	7.13	7.33	8.62	8.40	8.27
9	7.99	8.22	7.92	7.50	7.39	7.32	7.33	7.11	7.35	8.63	8.39	8.25
10	7.98	8.20	7.90	7.49	7.38	7.38	7.31	7.10	7.43	8.63	8.37	8.22
11	7.97	8.19	7.87	7.49	7.37	7.37	7.29	7.08	7.49	8.72	8.34	8.25
12	7.97	8.16	7.85	7.48	7.36	7.35	7.28	7.07	7.52	8.79	8.32	8.30
13	7.97	8.16	7.82	7.47	7.35	7.34	7.26	7.07	7.53	8.76	8.34	8.31
14	7.97	8.16	7.80	7.47	7.35	7.33	7.23	7.07	7.54	8.72	8.33	8.31
15	7.97	8.16	7.78	7.51	7.35	7.32	7.22	7.07	7.55	8.68	8.31	8.31
16	7.97	8.15	7.76	7.52	7.34	7.32	7.19	7.06	7.59	8.64	8.28	8.31
17	7.97	8.12	7.73	7.51	7.34	7.34	7.17	7.05	7.77	8.61	8.25	8.30
18	7.97	8.09	7.71	7.51	7.34	7.43	7.15	7.05	7.77	8.57	8.22	8.29
19	7.96	8.08	7.70	7.50	7.33	7.41	7.13	7.04	7.78	8.54	8.18	8.29
20	8.02	8.06	7.68	7.49	7.33	7.39	7.13	7.03	7.86	8.51	8.16	8.31
21	8.23	8.03	7.66	7.49	7.32	7.38	7.11	7.03	7.97	8.48	8.14	8.34
22	8.23	8.01	7.65	7.48	7.31	7.38	7.10	7.03	8.00	8.45	8.16	8.34
23	8.22	7.99	7.63	7.48	7.31	7.36	7.08	7.03	8.07	8.42	8.19	8.33
24	8.22	7.97	7.62	7.47	7.31	7.34	7.07	7.03	8.23	8.40	8.16	8.33
25	8.21	7.97	7.60	7.47	7.31	7.34	7.05	7.03	8.26	8.36	8.16	8.31
26	8.20	7.97	7.58	7.45	7.31	7.33	7.04	7.04	8.29	8.34	8.22	8.29
27	8.18	7.98	7.57	7.45	7.30	7.32	7.03	7.11	8.34	8.33	8.26	8.29
28	8.18	7.98	7.56	7.44	7.30	7.32	7.01	7.11	8.39	8.33	8.29	8.29
29	8.19	7.98	7.55	7.43	---	7.31	6.99	7.09	8.42	8.31	8.31	8.29
30	8.19	7.98	7.54	7.43	---	7.30	6.96	7.08	8.46	8.31	8.31	8.29
31	8.21	---	7.54	7.43	---	7.28	---	7.09	---	8.30	8.30	---
TOTAL	250.07	243.40	240.83	232.23	205.97	227.36	215.09	218.82	231.58	264.66	256.46	248.89
MEAN	8.07	8.11	7.77	7.49	7.36	7.33	7.17	7.06	7.72	8.54	8.27	8.30
MAX	8.23	8.23	7.99	7.55	7.43	7.43	7.33	7.17	8.46	8.79	8.40	8.34
MIN	7.96	7.97	7.54	7.43	7.30	7.27	6.96	6.90	7.13	8.30	8.14	8.22

255828080401301 SITE 64 IN CONSERVATION AREA 3A NEAR COOPERTOWN, FL

LOCATION.--Lat 25°58'31", long 80°40'10", in T.37 S., R.51 E., Broward County, Hydrologic Unit 03090202, approximately 17 mi northwest of Coopertown. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 8.40 ft above National Geodetic Vertical Datum of 1929. Gage is capable of recording water levels below land-surface datum. Rainfall data is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Corps of Engineers maintains raingage after September 30, 2003.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.81 ft Nov. 2, 1999; minimum, 8.23 ft May 31, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.90 ft Oct. 21, 22; minimum 9.30 ft May 4.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.71	11.56	10.72	10.31	10.10	9.66	9.64	9.34	9.45	11.09	11.85	11.75
2	11.71	11.53	10.69	10.31	10.09	9.64	9.62	9.33	9.53	11.17	11.85	11.81
3	11.71	11.50	10.67	10.30	10.08	9.62	9.61	9.31	9.60	11.20	11.85	11.80
4	11.72	11.47	10.64	10.30	10.07	9.69	9.59	9.48	9.65	11.23	11.85	11.80
5	11.72	11.44	10.61	10.30	10.04	9.68	9.57	9.91	9.68	11.25	11.83	11.78
6	11.72	11.40	10.59	10.30	10.03	9.66	9.55	9.86	9.73	11.26	11.84	11.76
7	11.74	11.36	10.58	10.30	10.01	9.65	9.54	9.80	9.73	11.27	11.87	11.75
8	11.75	11.33	10.56	10.30	10.01	9.64	9.74	9.76	9.73	11.31	11.87	11.73
9	11.75	11.30	10.55	10.28	9.99	9.66	9.77	9.72	9.74	11.62	11.86	11.71
10	11.75	11.27	10.53	10.28	9.98	9.73	9.76	9.69	9.87	11.71	11.84	11.72
11	11.75	11.24	10.51	10.27	9.95	9.72	9.74	9.66	9.98	11.75	11.83	11.79
12	11.75	11.22	10.49	10.27	9.93	9.71	9.71	9.64	9.99	11.77	11.83	11.76
13	11.76	11.19	10.47	10.27	9.91	---	9.69	9.62	9.99	11.79	11.82	11.73
14	11.76	11.16	10.44	10.27	9.91	---	9.67	9.59	9.99	11.83	11.80	11.70
15	11.78	11.13	10.41	10.27	9.89	---	9.64	9.57	9.99	---	11.78	11.67
16	11.79	11.10	10.39	10.27	9.88	9.67	9.62	9.56	9.98	11.85	11.75	11.65
17	11.79	11.07	10.38	10.23	9.86	9.69	9.59	9.54	10.03	11.86	11.75	11.64
18	11.78	11.04	10.38	10.21	9.84	9.79	9.57	9.52	10.06	11.86	11.75	11.66
19	11.76	11.02	10.37	10.21	9.82	9.78	9.55	9.50	10.06	11.86	11.73	11.63
20	11.78	10.99	10.35	10.21	9.81	9.77	9.53	9.49	10.15	11.85	11.73	11.65
21	11.89	10.97	10.34	10.21	9.79	9.76	9.51	9.48	10.29	11.85	11.72	11.67
22	11.89	10.94	10.34	10.20	9.78	9.76	9.50	9.46	10.34	11.85	11.70	11.65
23	11.87	10.91	10.34	10.20	9.77	9.76	9.47	9.44	10.42	11.86	11.70	11.64
24	11.84	10.89	10.34	10.17	9.74	9.74	9.46	9.43	10.50	11.85	11.69	11.63
25	11.81	10.89	10.34	10.17	9.73	9.73	9.43	9.40	10.52	11.84	11.68	11.60
26	11.78	10.86	10.33	10.17	9.71	---	9.42	9.39	10.57	11.84	11.75	11.58
27	11.75	10.83	10.31	10.16	9.70	---	9.41	9.37	10.67	11.86	11.78	11.57
28	11.71	10.81	10.30	10.16	9.68	---	9.40	9.35	10.88	11.84	11.78	11.55
29	11.67	10.78	10.30	10.15	---	---	9.38	9.33	10.95	11.84	11.78	11.55
30	11.63	10.76	10.30	10.15	---	---	9.36	9.32	11.02	11.84	11.76	11.61
31	11.59	---	10.31	10.12	---	9.65	---	9.38	---	11.85	11.74	---
TOTAL	364.41	333.96	323.88	317.32	277.10	---	287.04	295.24	303.09	---	365.36	350.54
MEAN	11.76	11.13	10.45	10.24	9.90	---	9.57	9.52	10.10	---	11.79	11.68
MAX	11.89	11.56	10.72	10.31	10.10	---	9.77	9.91	11.02	---	11.87	11.81
MIN	11.59	10.76	10.30	10.12	9.68	---	9.36	9.31	9.45	---	11.68	11.55

255300080370001 SITE 69 IN CONSERVATION AREA 3B NEAR COOPERTOWN, FL

LOCATION.--Lat 25°53'00", long 80°37'00", in T.52 S., R.35 E., Miami-Dade County, Hydrologic Unit 03090202. Two gages are located on the east and west sides of the Levee 67A, 11.3 mi northeast of access gate at the Tamiami Trail. No section could be determine from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD FOR EAST GAGE.--July 1991 to current year.

PERIOD OF RECORD FOR WEST GAGE.--October 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Shaft encoder located in the west gage shelter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Rainfall data is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Corps of Engineers maintains raingage after September 30, 2003.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR EAST GAGE FOR PERIOD OF RECORD.--Maximum gage height, 10.48 ft Oct. 15, 1999; minimum, 7.22 ft May 22-23, 2001.

EXTREME STAGES FOR EAST GAGE FOR CURRENT YEAR.--Maximum gage height, 9.72 ft Sept. 17; minimum, 8.03 ft May 30.

EXTREME STAGES FOR WEST GAGE FOR PERIOD OF RECORD.--Maximum gage height, 12.74 ft Dec. 21, 1994; minimum, 7.42 ft Apr. 27, 1999.

EXTREME STAGES FOR WEST GAGE FOR CURRENT YEAR.--Maximum gage height, 11.71 ft Oct. 20, 21; minimum, 8.09 ft May 26.

EAST
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.38	---	8.93	8.73	8.63	8.43	8.41	8.22	8.23	9.17	9.53	9.61
2	9.36	---	8.92	8.73	8.62	8.42	8.42	8.21	8.26	9.18	9.54	9.65
3	9.34	9.26	8.91	8.73	8.61	8.41	8.41	8.21	8.29	9.19	9.53	9.64
4	9.33	9.25	8.89	8.72	8.61	8.44	8.39	8.24	8.32	9.19	9.51	9.63
5	9.32	9.23	8.88	8.72	8.60	8.44	8.39	8.29	8.32	9.20	9.51	9.61
6	9.31	9.22	8.87	8.71	8.59	8.43	8.38	8.29	8.35	9.21	9.55	9.60
7	9.30	9.20	8.87	8.71	8.58	8.43	8.37	8.29	8.37	9.21	9.58	9.58
8	9.30	9.19	8.85	8.71	8.58	8.42	8.44	8.29	8.39	9.23	9.56	9.57
9	9.30	9.17	8.85	8.70	8.57	8.44	8.45	8.30	8.40	9.51	9.55	9.55
10	9.29	9.16	8.83	8.70	8.57	8.47	8.44	8.30	8.50	9.60	9.54	9.54
11	9.29	9.15	8.82	8.69	8.55	8.47	8.43	8.30	8.57	9.60	9.52	9.57
12	9.30	9.13	8.80	8.69	8.54	8.45	8.42	8.29	8.61	9.59	9.51	9.61
13	9.30	9.13	8.79	8.69	8.53	8.45	8.41	8.28	8.60	9.58	9.51	9.62
14	9.29	9.11	8.78	8.68	8.53	8.44	8.40	8.27	8.58	9.57	9.54	9.60
15	9.33	9.10	8.77	8.70	8.51	8.43	8.39	8.27	8.57	---	9.56	9.58
16	9.33	9.09	8.75	8.71	8.51	8.43	8.37	8.26	8.57	9.56	9.55	9.56
17	9.32	9.07	8.75	8.71	8.50	8.45	8.36	8.25	8.67	9.55	9.54	9.61
18	9.32	9.07	8.75	8.70	8.49	8.52	8.35	8.23	8.71	9.55	9.52	9.64
19	9.31	9.05	8.75	8.69	8.49	8.51	8.34	8.22	8.68	9.54	9.50	9.60
20	9.35	9.04	8.75	8.69	8.48	8.50	8.33	8.20	8.76	9.54	9.49	9.61
21	9.48	9.03	8.74	8.69	8.47	8.49	8.32	8.18	8.89	9.53	9.49	9.63
22	9.46	9.02	8.74	8.69	8.47	8.48	8.31	8.16	8.90	9.53	9.50	9.62
23	9.44	9.01	8.74	8.68	8.46	8.48	8.30	8.16	8.91	9.52	9.51	9.61
24	9.42	8.99	8.74	8.67	8.45	8.47	8.28	8.14	8.91	9.52	9.50	9.58
25	9.40	9.00	8.73	8.66	8.45	8.46	8.26	8.12	8.92	9.51	9.51	9.56
26	9.38	8.99	8.73	8.66	8.45	8.45	8.24	8.09	8.94	9.53	9.59	9.55
27	9.37	8.98	8.72	8.65	8.44	8.45	8.23	8.07	8.97	9.60	9.65	9.56
28	9.35	8.97	8.71	8.65	8.43	8.45	8.23	8.07	9.04	9.56	9.65	9.54
29	9.34	8.95	8.71	8.64	---	8.43	8.23	8.06	9.07	9.55	9.63	9.54
30	9.32	8.94	8.72	8.63	---	8.43	8.23	8.06	9.11	9.54	9.62	9.56
31	---	---	8.73	8.63	---	8.42	---	8.16	---	9.54	9.60	---
TOTAL	---	---	272.52	269.36	238.71	261.99	250.53	254.48	259.41	---	295.89	287.73
MEAN	---	---	8.79	8.69	8.53	8.45	8.35	8.21	8.65	---	9.54	9.59
MAX	---	---	8.93	8.73	8.63	8.52	8.45	8.30	9.11	---	9.65	9.65
MIN	---	---	8.71	8.63	8.43	8.41	8.23	8.06	8.23	---	9.49	9.54

255300080370001 SITE 69 IN CONSERVATION AREA 3B NEAR COOPERTOWN, FL—Continued

WEST
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.52	11.31	10.44	10.16	9.95	9.43	9.39	8.65	8.69	---	---	---
2	11.52	11.28	10.41	10.16	9.93	9.41	9.37	8.65	8.87	---	---	---
3	11.52	11.26	10.39	10.15	9.91	9.40	9.35	8.65	9.00	---	---	---
4	11.53	11.22	10.36	10.15	9.90	9.47	9.32	8.79	9.08	---	---	---
5	11.53	11.21	10.33	10.14	9.89	9.46	9.29	9.01	9.15	---	---	---
6	11.53	11.17	10.31	10.13	9.87	9.44	9.25	9.07	9.24	---	---	---
7	11.54	11.14	10.29	10.13	9.85	9.43	9.21	9.08	9.28	---	---	---
8	11.54	11.10	10.27	10.12	9.84	9.42	9.37	9.09	9.29	---	---	---
9	11.55	11.07	10.26	10.12	9.82	9.45	9.40	9.10	9.29	---	---	11.51
10	11.55	11.02	10.24	10.12	9.80	9.53	9.38	9.11	9.45	---	---	11.50
11	11.55	10.99	10.24	10.11	9.78	9.52	9.35	9.08	9.59	---	---	11.56
12	11.55	10.97	10.22	10.09	9.76	9.51	9.32	9.02	9.64	---	---	11.56
13	11.56	10.94	10.20	10.07	9.73	9.50	9.30	8.95	9.65	---	---	11.53
14	11.56	10.91	10.18	10.08	9.70	9.48	9.27	8.89	9.65	---	---	11.49
15	11.60	10.87	10.19	10.14	9.68	9.48	9.23	8.83	9.63	---	---	11.46
16	11.60	10.84	10.18	10.16	9.67	9.46	9.18	8.78	9.61	---	---	11.42
17	11.58	10.82	10.18	10.16	9.66	9.50	9.14	8.72	9.68	---	---	11.45
18	11.55	10.80	10.18	10.15	9.63	9.62	9.09	8.65	9.70	---	---	11.47
19	11.54	10.76	10.20	10.13	9.61	9.61	9.03	8.59	9.71	---	---	11.44
20	11.58	10.73	10.19	10.11	9.58	9.60	8.97	8.52	---	---	---	11.45
21	11.71	10.70	10.18	10.10	9.56	9.59	8.92	8.44	---	---	---	11.46
22	11.69	10.68	10.16	10.08	9.54	9.58	8.86	8.39	---	---	---	11.46
23	11.65	10.64	10.17	10.08	9.52	9.57	8.77	8.38	---	---	---	11.45
24	11.62	10.62	10.18	10.07	9.50	9.55	8.70	8.40	---	---	---	11.43
25	11.59	10.61	10.18	10.05	9.49	9.54	8.60	8.32	---	---	---	11.40
26	11.56	10.59	10.19	10.04	9.47	9.53	8.52	8.16	---	---	---	11.38
27	11.52	10.56	10.19	10.02	9.45	9.52	8.59	8.29	---	---	---	11.38
28	11.49	10.53	10.17	10.00	9.44	9.50	8.67	8.29	---	---	---	11.36
29	11.44	10.50	10.16	9.98	---	9.48	8.68	8.25	---	---	---	11.38
30	11.40	10.47	10.15	9.97	---	9.45	8.67	8.22	---	---	---	11.42
31	11.36	---	10.15	9.97	---	9.42	---	8.38	---	---	---	---
TOTAL	358.03	326.31	317.14	312.94	271.53	294.45	272.19	268.75	---	---	---	---
MEAN	11.55	10.88	10.23	10.09	9.70	9.50	9.07	8.67	---	---	---	---
MAX	11.71	11.31	10.44	10.16	9.95	9.62	9.40	9.11	---	---	---	---
MIN	11.36	10.47	10.15	9.97	9.44	9.40	8.52	8.16	---	---	---	---

254848080432001 SITE 65 IN CONSERVATION AREA 3A NEAR COOPERTOWN, FL

LOCATION.--Lat 25°48'52", long 80°43'12", SE ¼ T.53 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, in the Everglades Water Conservation Area 3A, 4 mi north of Tamiami Trail (U.S. Highway 41) and 5 mi west of Levee 67A. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Rainfall data is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Corps of Engineers maintains raingage after September 30, 2003.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.06 ft Dec. 21, 22, 1994; minimum, 7.82 ft May 22, 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.17 ft Sept. 3, 4; minimum, 8.61 ft May 29, 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.84	10.85	10.17	9.98	9.82	9.31	9.23	8.81	8.91	10.16	11.01	11.07
2	10.85	10.84	10.15	9.98	9.80	9.29	9.23	8.80	8.98	10.17	10.98	11.13
3	10.86	10.83	10.11	9.98	9.79	9.27	9.22	8.79	9.05	10.20	10.96	11.15
4	10.87	10.81	10.08	9.98	9.77	9.31	9.20	8.83	9.04	10.22	10.96	11.15
5	10.88	10.80	10.06	9.98	9.77	9.31	9.17	8.99	9.05	10.25	10.94	11.13
6	10.88	10.76	10.03	9.98	9.75	9.31	9.15	8.97	9.08	10.27	10.93	11.09
7	10.92	10.73	10.02	9.97	9.73	9.30	9.12	8.94	9.08	10.29	10.94	11.07
8	10.92	10.71	10.00	9.97	9.71	9.29	9.24	8.92	9.09	10.35	10.93	11.04
9	10.92	10.68	10.0	9.97	9.69	9.30	9.26	8.89	9.10	10.58	10.93	11.01
10	10.92	10.66	9.98	9.97	9.67	9.34	9.24	8.88	9.32	10.65	10.92	11.01
11	10.92	10.63	9.96	9.96	9.64	9.34	9.22	8.87	9.43	10.69	10.91	11.04
12	10.93	10.62	9.94	9.95	9.62	9.34	9.20	8.86	9.43	10.75	10.94	11.02
13	10.94	10.59	9.92	9.94	9.61	9.34	9.18	8.84	9.43	10.80	10.98	11.00
14	10.93	10.57	9.91	9.93	9.59	9.33	9.15	8.83	9.43	10.87	10.97	10.97
15	10.97	10.54	9.90	9.95	9.57	9.33	9.13	8.82	9.42	10.90	10.98	10.94
16	10.97	10.51	9.91	9.96	9.55	9.31	9.11	8.81	9.39	10.90	10.98	10.91
17	10.97	10.49	9.93	9.96	9.54	9.32	9.09	8.79	9.37	10.92	10.95	10.90
18	10.96	10.47	9.94	9.96	9.51	9.42	9.06	8.77	9.36	10.93	10.92	10.90
19	10.97	10.44	9.96	9.96	9.49	9.42	9.03	8.75	9.34	10.94	10.91	10.90
20	11.00	10.41	9.96	9.96	9.48	9.41	9.02	8.73	9.45	10.95	10.91	10.94
21	11.04	10.39	9.96	9.94	9.46	9.41	9.00	8.72	9.64	10.96	10.91	10.97
22	11.04	10.37	9.96	9.93	9.45	9.40	8.98	8.71	9.68	10.96	10.91	10.95
23	11.04	10.34	9.96	9.91	9.43	9.39	8.96	8.71	9.74	10.96	10.92	10.95
24	11.04	10.31	9.97	9.90	9.41	9.39	8.94	8.71	9.76	10.96	10.92	10.94
25	11.04	10.30	9.97	9.90	9.39	9.37	8.91	8.69	9.75	10.96	10.94	10.91
26	11.01	10.29	9.97	9.89	9.38	9.35	8.90	8.68	9.76	10.95	11.01	10.89
27	10.99	10.26	9.97	9.88	9.36	9.34	8.88	8.67	9.83	10.97	11.09	10.88
28	10.96	10.24	9.97	9.87	9.34	9.31	8.87	8.64	9.94	10.96	11.11	10.86
29	10.93	10.21	9.97	9.87	---	9.29	8.85	8.62	10.06	10.94	11.09	10.86
30	10.90	10.19	9.97	9.84	---	9.27	8.83	8.64	10.16	10.94	11.07	10.92
31	10.87	---	9.98	9.83	---	9.25	---	8.76	---	10.98	11.06	---
TOTAL	339.28	315.84	309.58	308.05	268.32	289.36	272.37	272.44	283.07	332.33	339.98	329.50
MEAN	10.94	10.53	9.99	9.94	9.58	9.33	9.08	8.79	9.44	10.72	10.97	10.98
MAX	11.04	10.85	10.17	9.98	9.82	9.42	9.26	8.99	10.16	10.98	11.11	11.15
MIN	10.84	10.19	9.90	9.83	9.34	9.25	8.83	8.62	8.91	10.16	10.91	10.86

255250080335001 SITE 71 IN CONSERVATION AREA 3B, NEAR COOPERTOWN, FL

LOCATION.--Lat 25°53'04", long 80°33'25", in T.52 S., R.35 E., Miami-Dade County, Hydrologic Unit 03090202, in Conservation Area 3B, 2.6 mi east of Levee 67°C and 8.3 mi southeast of intersection with Levee 30. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 7.00 ft above National Geodetic Vertical Datum of 1929. Gage is capable of recording water levels below land-surface datum. Rainfall data available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. The U. S. Army Corps of Engineers maintains raingage after September 30, 2003.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.80 ft Oct. 15, 1999; minimum, 6.04 ft May 22, 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.83 ft Sept. 12, 13; minimum, 7.22 ft May 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.09	8.16	7.95	7.75	7.66	7.51	7.49	7.28	7.57	8.39	---	8.68
2	8.07	8.16	7.94	7.75	7.66	7.50	7.49	7.27	7.57	8.37	8.48	8.74
3	8.06	8.16	7.94	7.75	7.65	7.49	7.49	7.27	7.59	8.36	8.46	8.72
4	8.05	8.15	7.93	7.74	7.65	7.56	7.49	7.29	7.63	8.35	8.45	8.71
5	8.05	8.15	7.92	7.74	7.65	7.56	7.47	7.42	7.61	8.35	8.50	8.70
6	8.04	8.14	7.92	7.73	7.64	7.55	7.46	7.44	7.62	8.34	8.56	8.69
7	8.04	8.13	7.91	7.73	7.63	7.54	7.45	7.43	7.64	8.33	8.56	8.66
8	8.04	8.12	7.90	7.72	7.63	7.53	7.61	7.42	7.65	8.33	8.55	8.64
9	8.04	8.11	7.89	7.71	7.63	---	7.62	7.40	7.62	8.59	8.55	8.63
10	8.03	8.11	7.89	7.71	7.63	7.62	7.59	7.39	7.71	8.69	8.54	8.63
11	8.03	8.10	7.87	7.71	7.61	7.61	7.57	7.38	7.76	8.71	8.52	8.75
12	8.03	8.09	7.86	7.70	7.61	7.59	7.55	7.37	7.80	8.68	8.51	8.80
13	8.03	8.08	7.85	7.69	7.61	7.57	7.53	7.36	7.77	8.66	8.50	8.80
14	8.03	8.07	7.85	7.69	7.60	7.56	7.51	7.35	7.75	8.65	8.51	8.77
15	8.06	8.07	7.83	7.72	7.59	7.55	7.49	7.34	7.74	---	8.54	8.74
16	8.07	8.05	7.81	7.74	7.59	7.54	7.48	7.36	7.75	8.63	8.54	8.72
17	8.07	8.05	7.81	7.73	7.58	7.56	7.46	7.36	7.94	8.61	8.54	8.72
18	8.06	8.04	7.81	7.72	7.58	7.67	7.45	7.36	7.97	8.60	8.52	8.73
19	8.06	8.03	7.80	7.72	7.57	7.65	7.43	7.34	7.94	8.59	8.51	8.70
20	8.10	8.03	7.79	7.71	7.56	7.63	7.43	7.33	8.02	8.58	8.52	8.73
21	8.25	8.02	7.78	7.71	7.55	7.61	7.42	7.32	8.14	8.56	8.54	8.76
22	8.24	8.01	7.78	7.71	7.55	7.60	7.41	7.31	8.13	8.54	8.53	8.73
23	8.23	8.00	7.78	7.70	7.54	7.59	7.40	7.30	8.14	8.53	8.55	8.72
24	8.22	7.99	7.77	7.69	7.53	7.58	7.39	7.28	8.16	8.52	8.54	8.71
25	8.20	7.99	7.77	7.69	7.53	7.56	7.36	7.27	8.17	8.50	8.54	8.69
26	8.19	7.99	7.76	7.69	7.53	7.55	7.35	7.26	8.17	---	8.63	8.67
27	8.18	7.97	7.75	7.69	7.53	7.54	7.34	7.25	8.19	---	8.67	8.70
28	8.17	7.97	7.74	7.68	7.53	7.53	7.33	7.25	8.24	---	8.68	8.71
29	8.17	7.96	7.74	7.68	---	7.52	7.32	7.24	8.25	---	8.68	8.69
30	8.17	7.95	7.74	7.67	---	7.51	7.30	7.24	8.28	8.51	8.67	8.69
31	8.16	---	7.75	7.67	---	7.50	---	7.44	---	8.50	8.66	---
TOTAL	251.23	241.85	242.83	239.04	212.62	---	223.68	227.32	236.52	---	---	261.33
MEAN	8.10	8.06	7.83	7.71	7.59	---	7.46	7.33	7.88	---	---	8.71
MAX	8.25	8.16	7.95	7.75	7.66	---	7.62	7.44	8.28	---	---	8.80
MIN	8.03	7.95	7.74	7.67	7.53	---	7.30	7.24	7.57	---	---	8.63

02286200 SNAKE CREEK CANAL AT NW 67TH AVENUE, NEAR HIALEAH, FL

LOCATION.--Lat 25°57'50", long 80°18'40", in SW $\frac{1}{4}$ sec.36, T.51 S., R.40 E., Broward County, Hydrologic Unit 03090202, 300 ft downstream of N.W. 67th Avenue bridge on A-frame walkway, 6.0 mi north of Hialeah, Dade County, 10.9 mi upstream from salinity-control structure 29, and 11 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to February 1962 (gage heights only), March 1962 to current year.

REVISED RECORDS.--WDR FL-74-2A, 1969; WDR FL-02-0219, 2001.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to January 31, 2002, telemetry included cellular phone/radio telemetry and electronic data logger provided by the South Florida Water Management District. Prior to July 19, 1999, water-stage recorder and electromagnetic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). Prior to October 1, 1975, at datum 0.28 ft lower. November 1, 1959, to March 15, 1962, water-stage recorder 10 ft downstream at datum 0.28 ft lower.

REMARKS.--Records poor. Flow affected by regulation at salinity-control structure 29, Broward county pump structure (S7) on the N.W. 67 Avenue Canal and, at times by tide, and is occasionally reversed. Records of gage heights prior to March 1962, are available in files of the U.S. Geological Survey. Discharge represents flow to the east. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete years of discharge (1963-86, 1993, 2000, 2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 5.57 ft Oct. 15, 1999; minimum, 0.58 ft June 22, 1960.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 3.15 ft June 24; minimum, 1.51 ft Oct. 6.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.87	2.36	2.40	1.92	2.24	2.10	2.25	2.08	2.40	2.53	2.14	2.21
2	1.77	2.32	2.41	1.88	2.24	2.07	2.26	2.08	2.39	2.39	2.11	---
3	e1.78	2.18	2.35	2.08	2.25	e2.06	2.27	2.11	2.02	2.30	2.09	2.35
4	1.71	2.13	2.06	2.15	2.25	2.27	2.25	2.35	1.96	2.22	2.11	2.45
5	1.65	2.14	---	2.18	2.24	2.30	2.24	2.31	1.96	2.53	2.11	2.38
6	1.73	2.33	1.88	2.19	2.24	2.30	2.23	2.26	2.19	2.33	2.12	2.37
7	2.19	2.32	1.84	2.19	2.23	2.21	2.21	2.31	2.29	2.15	2.30	2.33
8	2.33	2.34	1.80	2.19	2.22	2.04	2.28	2.35	2.33	2.07	2.56	2.33
9	e2.39	2.41	1.86	2.19	2.22	2.25	2.24	2.41	2.41	2.58	2.35	2.37
10	2.43	2.45	2.08	2.19	2.21	2.08	2.34	2.41	2.28	2.57	2.31	2.45
11	2.42	2.45	2.14	2.18	2.20	2.28	2.22	2.40	2.25	2.43	2.16	2.74
12	2.37	2.37	2.16	2.18	2.18	2.10	2.32	2.39	2.20	2.38	2.12	2.89
13	2.35	2.42	2.17	2.17	2.18	1.98	2.35	2.37	2.18	2.39	2.09	2.73
14	2.41	2.32	2.18	2.19	2.17	1.90	1.88	2.35	2.46	2.46	2.10	2.47
15	2.34	2.42	2.17	2.04	2.17	1.85	2.02	2.33	2.41	---	2.40	2.28
16	2.36	e2.43	2.16	1.99	2.16	1.83	2.11	2.32	2.38	2.21	2.26	2.22
17	2.39	2.42	2.17	1.91	2.15	1.87	2.20	2.29	2.39	2.15	2.20	e2.17
18	2.37	2.40	2.19	2.02	2.14	2.16	2.23	2.27	2.21	2.41	2.19	2.08
19	2.38	2.43	2.19	2.17	2.12	2.13	2.23	2.24	2.15	2.38	2.35	2.14
20	2.38	2.41	2.18	2.20	2.10	2.09	2.23	2.22	2.39	2.37	2.44	2.15
21	2.29	2.44	2.18	2.22	2.09	2.06	2.23	2.21	2.65	2.34	2.35	2.30
22	2.47	2.41	2.18	2.23	2.09	2.14	2.23	2.22	2.56	2.30	2.43	2.44
23	2.37	2.44	2.18	2.24	2.08	2.30	2.22	2.29	2.45	2.34	2.42	2.45
24	2.33	2.43	2.19	2.22	2.09	2.07	2.20	2.26	2.88	2.19	2.28	2.41
25	2.38	2.32	2.20	2.22	2.11	1.96	2.18	2.22	2.87	2.20	2.01	2.36
26	2.35	2.29	2.19	2.22	2.12	2.15	2.17	2.25	2.68	2.21	2.25	2.35
27	2.42	2.39	2.18	2.22	2.12	2.24	2.16	2.43	2.65	2.25	2.00	2.34
28	2.40	2.17	2.17	2.24	2.11	2.25	2.16	2.42	2.58	2.24	1.98	2.47
29	2.42	2.35	2.15	2.24	---	2.26	2.13	2.41	2.51	2.35	2.11	2.35
30	2.41	2.39	2.18	2.23	---	2.26	2.11	2.36	2.40	2.22	2.10	2.31
31	2.42	---	2.18	2.24	---	2.26	---	2.39	---	2.17	2.12	---
TOTAL	69.88	70.68	---	66.73	60.72	65.82	66.15	71.31	71.48	---	68.56	---
MEAN	2.25	2.36	---	2.15	2.17	2.12	2.21	2.30	2.38	---	2.21	---
MAX	2.47	2.45	---	2.24	2.25	2.30	2.35	2.43	2.88	---	2.56	---
MIN	1.65	2.13	---	1.88	2.08	1.83	1.88	2.08	1.96	---	1.98	---

e Estimated

02286200 SNAKE CREEK CANAL AT NW 67TH AVENUE, NEAR HIALEAH, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	237	135	295	88	92	95	91	367	613	407	381
2	500	288	133	256	92	97	101	126	406	628	405	e371
3	e525	345	196	123	97	e85	87	189	576	628	392	364
4	499	346	338	112	88	123	76	164	591	631	399	330
5	476	291	e350	110	89	88	62	342	597	466	395	340
6	361	177	337	123	72	100	76	304	506	585	388	442
7	106	173	356	109	90	164	91	243	455	609	366	416
8	66	167	364	103	95	220	354	151	443	655	450	256
9	e68	103	276	105	91	128	325	104	464	640	519	245
10	80	95	145	102	115	398	208	110	602	838	530	151
11	121	122	131	109	82	193	282	110	693	783	526	434
12	183	195	110	101	89	300	149	103	727	625	508	647
13	219	150	128	124	81	315	191	82	526	688	542	614
14	134	216	134	192	98	325	395	98	372	661	513	568
15	296	104	116	369	95	327	242	111	344	e632	309	596
16	226	e115	114	364	108	321	136	111	337	613	359	516
17	174	138	120	331	118	336	88	86	593	565	365	e518
18	215	160	131	185	90	324	50	89	615	371	370	496
19	217	127	121	112	70	298	50	87	637	398	183	512
20	289	149	111	113	81	289	65	117	694	403	144	417
21	498	125	110	117	107	299	64	124	707	381	216	359
22	359	155	115	119	103	205	77	126	685	366	166	297
23	364	131	138	112	90	132	110	153	743	342	151	283
24	375	163	129	101	106	272	93	130	962	385	391	296
25	307	220	123	104	104	305	83	124	876	352	393	310
26	307	228	118	124	102	120	99	88	827	353	382	306
27	217	171	97	120	104	102	114	76	841	400	536	298
28	245	275	93	71	96	111	59	76	783	383	497	259
29	215	129	102	95	---	80	73	107	789	295	365	286
30	216	133	101	118	---	92	80	183	695	383	333	322
31	191	---	178	102	---	96	---	169	---	402	334	---
TOTAL	8,559	5,428	5,150	4,621	2,641	6,337	3,975	4,174	18,453	16,074	11,834	11,630
MEAN	276	181	166	149	94.3	204	132	135	615	519	382	388
MAX	525	346	364	369	118	398	395	342	962	838	542	647
MIN	66	95	93	71	70	80	50	76	337	295	144	151
AC-FT	16,980	10,770	10,220	9,170	5,240	12,570	7,880	8,280	36,600	31,880	23,470	23,070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	329	246	176	172	169	160	139	175	347	288	325	346
MAX	642	727	348	408	408	625	623	650	829	740	920	891
(WY)	(1967)	(1970)	(1970)	(1995)	(1969)	(1970)	(1970)	(1979)	(1968)	(1966)	(1966)	(1966)
MIN	4.64	3.41	1.49	9.39	3.26	28.3	4.87	-4.84	31.3	10.0	1.64	1.94
(WY)	(1994)	(1994)	(1994)	(1994)	(1996)	(1996)	(1998)	(2001)	(1993)	(1993)	(1993)	(1993)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL TOTAL	69,674		98,876			
ANNUAL MEAN	190		271		267	
HIGHEST ANNUAL MEAN					518	1966
LOWEST ANNUAL MEAN					114	1993
HIGHEST DAILY MEAN	722	Sep 7	962	Jun 24	1,550	Mar 10, 1969
LOWEST DAILY MEAN	-25	Jul 17	50	Apr 18	-64	Sep 10, 1984
ANNUAL SEVEN-DAY MINIMUM	37	Apr 16	72	Apr 17	-13	May 7, 2001
ANNUAL RUNOFF (AC-FT)	138,200		196,100		193,100	
10 PERCENT EXCEEDS	405		587		559	
50 PERCENT EXCEEDS	121		205		214	
90 PERCENT EXCEEDS	66		89		60	

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.

255026080231300 SNAPPER CREEK CANAL EXTENSION AT NW 74TH STREET, NEAR HIALEAH, FL

LOCATION.--Lat 25°50'26", long 80°23'13", in SE $^1/_4$ sec.12, T.53 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, on the north side of a short spur canal that runs west from the main canal at N.W. 74th Street, and 5.5 mi upstream from the Tamiami Canal.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1984 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.07 ft Oct. 15-17, 1999; minimum, 0.21 ft June 5, 6, 1989.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 5.15 ft July 13; minimum, 2.99 ft May 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	3.32	3.05	3.22	3.03	3.71	4.86	4.39	4.67
2	---	---	---	---	3.31	3.04	3.24	3.01	3.81	4.84	4.32	4.76
3	---	---	---	---	3.31	3.04	3.25	3.09	3.94	4.78	4.31	4.72
4	---	---	---	---	3.31	3.32	3.20	3.30	4.18	4.73	4.35	4.72
5	---	---	---	---	3.30	3.27	3.17	3.56	4.18	4.66	4.33	4.71
6	---	---	---	---	3.28	3.22	3.15	3.50	4.19	4.60	4.33	4.66
7	---	---	---	---	3.26	3.19	3.14	3.44	4.20	4.54	4.36	4.62
8	---	---	---	---	3.25	3.18	3.68	3.40	4.12	4.53	4.45	4.58
9	---	---	---	---	3.25	3.24	3.70	3.36	4.13	4.93	4.40	4.54
10	---	---	---	---	3.25	3.48	3.60	3.34	4.24	4.94	4.38	4.54
11	---	---	---	---	3.22	3.40	3.54	3.32	4.15	4.90	4.35	4.67
12	---	---	---	---	3.20	3.35	3.50	3.30	4.24	4.83	4.33	4.67
13	---	---	---	---	3.19	3.33	3.47	3.28	4.12	4.94	4.37	4.64
14	---	---	---	---	3.18	3.30	3.44	3.25	4.03	5.05	4.37	4.60
15	---	---	---	---	3.16	3.29	3.40	3.24	3.94	5.04	4.33	4.56
16	---	---	---	---	3.15	3.26	3.37	3.22	3.89	4.96	4.27	4.53
17	---	---	---	---	3.14	3.34	3.34	3.19	4.18	4.88	4.21	4.51
18	---	---	---	---	3.12	3.71	3.31	3.17	4.27	4.81	4.18	4.48
19	---	---	---	---	3.10	3.59	3.29	3.16	4.28	4.76	4.13	4.45
20	---	---	---	---	3.09	3.51	3.26	3.16	4.45	4.71	4.10	4.50
21	---	---	---	---	3.08	3.44	3.25	3.16	4.71	4.65	4.06	4.54
22	---	---	---	---	3.06	3.40	3.24	3.17	4.63	4.61	4.03	4.50
23	---	---	---	---	3.06	3.37	3.23	3.24	4.63	4.57	4.08	4.51
24	---	---	---	---	3.07	3.37	3.20	3.18	4.68	4.53	4.05	4.47
25	---	---	---	3.33	3.09	3.35	3.17	3.15	4.63	4.48	4.14	4.47
26	---	---	---	3.31	3.08	3.34	3.14	3.18	4.58	4.44	4.79	4.45
27	---	---	---	3.30	3.07	3.33	3.14	3.39	4.56	4.49	4.74	4.43
28	---	---	---	3.33	3.06	3.30	3.12	3.35	4.66	4.47	4.67	4.43
29	---	---	---	3.36	---	3.27	3.08	3.38	4.64	4.52	4.59	4.42
30	---	---	---	3.35	---	3.25	3.05	3.39	4.66	4.48	4.60	4.42
31	---	---	---	3.33	---	3.24	---	3.42	---	4.45	4.66	---
TOTAL	---	---	---	---	88.96	102.77	98.89	101.33	128.63	145.98	134.67	136.77
MEAN	---	---	---	---	3.18	3.32	3.30	3.27	4.29	4.71	4.34	4.56
MAX	---	---	---	---	3.32	3.71	3.70	3.56	4.71	5.05	4.79	4.76
MIN	---	---	---	---	3.06	3.04	3.05	3.01	3.71	4.44	4.03	4.42

02286400 MIAMI CANAL AT S-354, AND S-3, AT LAKE HARBOR, FL

LOCATION.--Lat 26°41'42", long 80°48'25", in SE $^1/_4$ sec. 35, T.44 S., R.35 E., Palm Beach County, Hydrologic Unit 03090202, 0.25 mi downstream of S-354 and pump station 3 at Lake Okeechobee, 0.05 mi south of U.S. Highway 27 on the Miami Canal in Lake Harbor.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Prior to October 1940, monthly discharge only, published in WSP 1304. October 1988 to current year. December 1939 to June 1943 (published as Miami Canal at Lake Harbor, October 1957 to September 1988, published as Miami Canal at HGS-3, and S-3, at Lake Harbor.

REVISED RECORDS.--WDR FL-93-2A, 1992, (revised annual and monthly statistic record).

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. December 1, 1939 to June 30, 1943, nonrecording gage at this site at same datum. October 1, 1957 to September 30, 1959, dual water-stage recorder at present site, at datum 0.05 ft lower and October 1, 1959 to February 7, 1962, at datum 0.22 ft lower. October 1, 1957 to September 30, 1968, two deflection vane recorders. From 1981 water year to April 1, 1987, electromagnetic velocity meter and digital recorder. Electromagnetic velocity meter reinstalled May 11, 1988 and discontinued in the 1992 water year, September 11,1991 to October 4, 2003, acoustic velocity meter. Satellite data collection platform installed September 11, 1991. Acoustic doppler velocity meter installed May 23, 2002 and ran simultaneously with the acoustic velocity meter until October 4, 2003 when the acoustic velocity meter was removed. Prior to October 1, 1998, lake stage published under station number 02286399. Lake station discontinued September 30, 1998.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by gates and pump station at Lake Okeechobee. Discharge is the flow through acoustic velocity meter site approximately 0.25 mi below S-354 structure. Stage collected also at the acoustic velocity meter site. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump station 3 (negative figure indicates reverse flow). Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--S-3 pump, syphon record and S-354 gate-operation record provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 40 complete water years of discharge (1957-89, 1993-97, 2001, 2004, 2005).

EXTREME CANAL STAGES FOR PERIOD OF RECORD.--Maximum gage height 14.92 ft, present datum, Mar. 21, 1960 and Oct. 2, 1965: minimum, 7.45 ft May 2, 2001.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 12.91 ft Sept. 4; minimum, 8.18 ft Aug. 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.90	10.69	10.45	10.91	10.65	10.05	10.03	11.53	10.67	---	11.07	10.16
2	9.72	10.80	10.38	10.81	11.05	10.07	9.95	11.54	10.31	---	11.34	9.98
3	9.56	10.67	10.61	10.70	11.29	10.42	10.29	10.74	10.67	---	11.39	11.08
4	9.71	10.57	10.76	10.77	10.96	10.18	10.06	9.56	11.62	---	11.12	11.55
5	9.59	10.57	10.57	10.74	11.04	9.50	10.06	9.96	12.14	---	10.93	9.65
6	9.54	10.60	10.40	10.28	11.29	10.31	10.02	10.07	12.29	---	11.03	9.91
7	9.78	10.62	10.47	10.02	11.15	10.39	10.13	9.34	12.54	---	10.73	9.59
8	9.45	10.53	10.81	10.43	11.09	10.14	9.61	9.01	11.85	---	---	9.29
9	9.68	10.47	10.98	10.21	11.13	9.88	9.61	9.92	11.84	---	9.86	9.12
10	9.89	10.68	11.24	10.37	11.03	10.78	9.97	10.49	11.34	---	9.91	10.24
11	10.12	10.58	11.16	10.68	11.11	10.49	10.13	10.51	11.72	---	9.67	10.63
12	9.97	10.54	10.98	10.20	11.26	10.82	10.25	10.82	12.24	---	9.60	10.37
13	9.99	10.54	10.94	10.20	10.93	9.75	10.01	10.68	---	9.88	10.33	10.03
14	10.07	10.61	10.89	10.79	11.00	10.31	10.16	10.56	10.99	10.01	9.58	---
15	9.99	10.80	10.97	11.07	11.18	10.38	10.22	10.59	10.57	---	9.87	10.06
16	10.15	10.60	11.02	10.43	11.04	10.32	10.62	10.50	11.35	10.30	10.19	---
17	10.24	10.56	11.06	10.16	11.10	10.51	10.40	10.70	---	10.89	9.41	---
18	10.26	10.52	11.07	10.06	11.22	10.68	10.41	10.44	10.17	10.90	9.95	---
19	10.39	10.45	---	10.29	11.10	10.55	10.80	10.01	9.79	9.91	10.28	10.28
20	10.57	10.46	---	10.19	11.28	9.79	11.05	---	10.08	9.97	9.55	9.89
21	10.72	10.49	11.01	10.17	11.08	9.91	11.14	10.75	9.87	9.75	9.56	---
22	10.81	10.53	10.88	10.84	11.05	9.75	11.27	10.71	9.80	10.18	9.69	10.73
23	10.41	10.47	10.79	10.74	11.27	9.38	11.17	10.91	10.31	9.92	9.57	10.68
24	10.41	10.48	10.82	10.42	10.97	9.04	11.16	11.27	10.81	9.96	9.46	10.90
25	10.56	10.54	10.68	10.71	10.67	9.46	10.99	11.28	10.31	10.24	9.60	11.14
26	10.57	10.50	10.67	10.65	11.21	10.02	11.21	11.06	10.47	10.04	9.21	10.74
27	10.55	10.61	10.58	10.32	10.38	10.76	10.62	10.13	11.37	10.16	9.85	10.43
28	10.71	10.55	10.57	10.60	10.71	10.44	10.80	10.66	12.24	10.13	10.90	10.45
29	10.60	10.57	10.66	10.90	---	9.07	11.34	10.64	11.95	10.33	10.54	10.32
30	10.62	10.53	10.93	10.65	---	10.07	11.51	10.47	11.87	10.47	9.73	10.70
31	10.63	---	10.96	10.54	---	10.66	---	10.05	---	10.66	9.96	---
TOTAL	315.16	317.13	---	325.85	309.24	313.88	314.99	---	---	---	---	---
MEAN	10.17	10.57	---	10.51	11.04	10.13	10.50	---	---	---	---	---
MAX	10.81	10.80	---	11.07	11.29	10.82	11.51	---	---	---	---	---
MIN	9.45	10.45	---	10.02	10.38	9.04	9.61	---	---	---	---	---

02286400 MIAMI CANAL AT S-354, AND S-3, AT LAKE HARBOR, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1.9	23	-3.1	120	301	0.73	3.6	1,470	-6.5	e0.00	15	27
2	-14	114	71	128	747	376	2.2	1,350	19	e0.00	-9.4	-1.7
3	28	18	537	139	552	154	-23	730	38	e0.00	42	-23
4	-15	28	435	245	188	43	-16	489	25	e0.00	-2.5	34
5	8.2	8.4	205	127	355	95	0.77	-0.83	7.1	e0.00	-1.6	34
6	58	15	266	37	177	-3.7	177	16	2.4	e0.00	7.9	29
7	84	4.5	675	27	285	159	-9.7	13	-213	e0.00	6.3	3.8
8	37	-2.1	697	3.7	271	20	19	-13	-276	e0.00	e17	0.75
9	-11	142	779	16	640	33	-9.4	-5.5	-26	e0.00	24	-1.4
10	9.3	100	709	184	508	-11	25	17	25	e0.00	53	-26
11	17	11	567	36	623	32	333	163	8.9	e0.00	17	-31
12	27	15	574	13	384	-4.3	69	261	-19	e0.00	7.6	13
13	433	3.2	571	-20	111	11	241	32	e-29	-20	9.7	-14
14	504	64	831	-10	669	20	115	372	4.1	6.5	10	e201
15	42	39	991	9.8	604	-0.45	478	-11	12	e3.1	-4.9	52
16	6.6	-0.53	911	-38	735	-17	49	201	5.9	16	9.1	e285
17	-1.3	-4.9	888	4.6	920	34	50	298	e-1.1	-0.79	7.8	e59
18	39	9.5	564	4.3	877	2.5	700	123	27	11	-6.9	e57
19	34	10	e558	-17	818	-8.3	1,230	392	-0.18	23	12	80
20	7.5	9.2	e524	-19	323	-4.4	1,690	e495	52	0.19	-3.8	45
21	11	9.0	508	58	235	-8.2	1,690	619	57	-9.1	5.6	e14
22	46	4.6	286	138	589	-9.2	1,660	453	32	-12	8.1	36
23	29	18	12	-2.2	123	18	1,520	728	32	5.0	6.8	4.5
24	-14	-3.1	-13	150	60	15	1,500	822	9.4	9.5	20	10
25	-5.1	-0.21	20	436	4.1	33	1,640	823	28	2.9	34	-12
26	27	6.2	-5.6	7.1	2.7	20	1,600	203	16	72	19	0.65
27	130	49	-6.4	286	31	-20	920	203	-26	219	20	6.8
28	107	-10	5.5	285	32	54	1,170	532	-28	178	24	12
29	-10	1.8	173	89	---	6.5	1,410	619	-21	107	29	3.3
30	-7.2	7.5	290	23	---	9.1	1,500	460	-23	9.2	27	-1.0
31	12	---	135	397	---	22	---	124	---	1.2	23	---
TOTAL	1,617.1	689.06	12,754.4	2,857.3	11,164.8	1,071.28	19,734.47	11,977.67	-267.98	621.70	425.8	897.70
MEAN	52.2	23.0	411	92.2	399	34.6	658	386	-8.93	20.1	13.7	29.9
MAX	504	142	991	436	920	376	1,690	1,470	57	219	53	285
MIN	-15	-10	-13	-38	2.7	-20	-23	-13	-276	-20	-9.4	-31
AC-FT	3,210	1,370	25,300	5,670	22,150	2,120	39,140	23,760	-532	1,230	845	1,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	-62.5	41.4	95.9	107	190	238	448	343	6.31	-58.1	-93.1	-158
MAX	609	420	411	634	1,439	1,415	1,480	1,065	1,157	936	302	1,191
(WY)	(1989)	(1974)	(2005)	(1993)	(1993)	(1966)	(1993)	(2000)	(1998)	(1992)	(1993)	(1992)
MIN	-1,167	-429	-330	-849	-373	-1,185	-316	-296	-897	-769	-899	-1,614
(WY)	(1961)	(1961)	(1958)	(1958)	(1983)	(1970)	(1958)	(1972)	(1968)	(1985)	(1981)	(1960)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	91,317.81		63,543.30			
ANNUAL MEAN	250		174		76.3	
HIGHEST ANNUAL MEAN					487	1993
LOWEST ANNUAL MEAN					-290	1960
HIGHEST DAILY MEAN	1,390	Jul 9	1,690	Apr 20	2,280	Mar 24, 1966
LOWEST DAILY MEAN	-44	Feb 18	-276	Jun 8	-2,790	Mar 26, 1970
ANNUAL SEVEN-DAY MINIMUM	-21	Feb 16	-76	Jun 7	-2,170	Jun 18, 1959
ANNUAL RUNOFF (AC-FT)	181,100		126,000		55,270	
10 PERCENT EXCEEDS	772		619		555	
50 PERCENT EXCEEDS	27		20		1.1	
90 PERCENT EXCEEDS	-10		-9.5		-361	

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.

02286700 MIAMI CANAL AT S-8, NEAR LAKE HARBOR, FL

LOCATION.--Lat 26°19'53", long 80°46'29", in NE $^1/_4$ sec.7, T.48 S., R.36 E., Broward County, Hydrologic Unit 03090202, 26 mi south of Lake Harbor, and 26.4 mi downstream from S-354 and pump station 3 at Lake Okeechobee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1962 to September 1968 (gage heights and discharge), October 1968 to December 1982, October 1990 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to May 14, 2002, satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Acoustic doppler velocity meter installed November 16, 2001. The acoustic velocity meter and acoustic doppler meter were run in tandem for the period of November 16, 2001 to May 14, 2002. The acoustic velocity meter was installed October 2, 1990. Datum of gage is National Geodetic Vertical Datum of 1929. (Benchmark provided by South Florida Water Management District (SFWMD) converted from NAVD 88 survey levels through VERTCON to NGVD 1929). Prior to August 10, 1990, datum of gage was National Geodetic Vertical Datum of 1929 (Benchmark provided by U.S. Army Corps of Engineers (USACE). Datum of gage starting September 19, 1991 and ending September 30, 2004, is 0.22 ft lower than the previously published datum.

REMARKS.--Records fair except for estimated discharges, which are poor. Flow regulated by pumpage and operation of gate at pump station 8, by operation of S-354 and pump station 3 at Lake Okeechobee, and operation of drainage and irrigation pumps upstream. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--Discharge record furnished by South Florida Water Management District October 1968 to December 1982 for publication. Prior to October 1968, gage height, gate opening and pump records furnished by South Florida Water Management District, and records computed by U.S. Geological Survey.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTIC.--Figures represent 29 complete water years of discharge (1963-82, 1992, 1995-96, 1998, 2000, 2002-05).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.95 ft, Oct. 17, 1995 (corrected); minimum (daily) gage height, 6.02 ft June 7, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.66 ft June 13; minimum, 10.07 ft February 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.60	11.77	11.06	10.70	10.27	11.24	11.99	12.64	12.07	14.37	12.88	12.51
2	13.28	11.72	11.04	10.68	10.25	11.05	11.62	12.65	12.74	14.15	12.87	12.53
3	13.24	11.68	11.01	10.64	10.24	---	11.54	12.68	13.10	13.93	12.78	12.70
4	13.26	11.63	10.97	10.63	10.22	10.57	11.49	12.83	13.21	13.73	12.77	12.71
5	13.24	11.59	10.95	10.62	10.21	10.33	11.45	12.72	13.40	13.71	12.79	13.04
6	13.20	11.54	10.93	10.57	10.22	10.23	11.42	13.02	13.52	13.60	12.80	13.67
7	13.34	11.50	10.90	10.49	10.21	10.18	11.40	---	14.10	13.90	12.81	13.99
8	13.16	11.45	10.88	10.50	10.20	10.16	11.51	12.89	14.31	13.90	13.37	13.98
9	12.55	11.41	10.83	10.52	10.19	10.26	11.47	12.84	14.56	14.09	13.86	13.97
10	12.33	11.37	10.85	10.52	10.17	11.97	11.43	12.66	14.40	14.09	13.08	13.94
11	12.50	11.34	10.92	10.51	10.13	12.94	11.40	11.74	14.37	14.09	12.69	13.23
12	12.50	11.30	10.89	10.50	10.13	13.42	11.38	11.83	14.54	14.07	12.69	12.62
13	12.29	11.27	10.87	10.52	10.13	13.61	11.35	11.85	14.49	14.07	12.24	12.54
14	12.46	11.23	10.81	10.60	10.14	13.45	11.30	11.40	14.14	14.07	12.18	12.34
15	12.48	11.20	10.76	10.93	10.14	13.24	11.26	11.39	13.83	---	12.63	12.30
16	12.27	---	10.78	10.92	10.13	13.14	11.23	11.46	14.38	13.78	12.58	12.27
17	12.23	11.38	10.78	11.04	10.12	13.07	11.20	11.39	13.94	14.01	12.51	---
18	12.20	11.37	10.80	10.90	10.11	13.08	11.18	11.35	13.65	14.01	12.57	11.89
19	12.18	11.35	10.79	10.62	10.12	13.29	11.15	11.30	13.11	13.78	12.54	12.23
20	12.20	11.33	10.76	10.45	10.14	13.58	11.11	11.26	13.53	13.89	12.06	12.32
21	12.24	11.31	10.75	10.49	10.13	13.73	11.08	11.24	13.82	13.70	12.02	12.46
22	12.21	11.29	10.74	10.50	10.11	13.73	11.38	11.23	13.55	13.94	12.47	12.39
23	12.17	11.27	10.72	10.49	10.10	13.56	11.21	11.20	13.84	13.26	12.51	12.26
24	12.13	11.25	10.72	10.47	10.09	13.34	11.11	11.15	13.92	12.88	12.48	11.93
25	12.08	11.22	10.73	10.50	10.10	13.23	---	11.11	13.62	12.88	13.03	11.88
26	12.03	11.19	10.69	10.48	10.13	13.12	11.51	11.09	13.76	12.84	12.79	12.20
27	11.98	11.17	10.66	10.38	10.17	13.12	12.15	11.09	14.04	---	12.62	12.36
28	11.94	11.15	10.65	10.35	10.59	13.09	12.52	11.05	14.23	---	12.13	12.23
29	11.90	11.12	10.63	10.33	---	13.00	12.69	11.03	14.27	---	12.53	12.43
30	11.86	11.09	10.65	10.30	---	12.95	12.66	11.07	14.41	12.45	12.48	12.46
31	11.81	---	10.69	10.28	---	12.43	---	11.15	---	12.46	12.48	---
TOTAL	386.86	---	335.21	327.43	284.89	---	---	---	414.85	---	392.24	---
MEAN	12.48	---	10.81	10.56	10.17	---	---	---	13.83	---	12.65	---
MAX	13.60	---	11.06	11.04	10.59	---	---	---	14.56	---	13.86	---
MIN	11.81	---	10.63	10.28	10.09	---	---	---	12.07	---	12.02	---

02286700 MIAMI CANAL AT S-8, NEAR LAKE HARBOR, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,440	4.2	e-31	51	e-8.8	73	217	1,090	519	2,650	601	476
2	1,000	e-17	e-5.7	44	e-37	27	e-3.3	1,060	792	2,230	590	485
3	1,010	e-25	e-33	33	e-9.6	e17	e-48	1,080	1,070	1,850	484	618
4	1,050	4.3	e-29	40	e-26	e-8.2	e-10	1,120	1,210	1,590	522	670
5	1,050	e-37	e-9.4	49	e-23	e-25	7.8	1,100	1,420	1,580	510	1,040
6	990	e-26	e-8.7	18	e-2.6	e-29	6.8	1,270	1,580	1,460	543	1,930
7	1,170	e-23	2.3	e-7.4	e-15	3.9	e-16	e1,380	2,490	2,000	590	2,090
8	960	e-24	e-21	13	e-30	e-37	e-34	1,130	2,850	1,940	1,350	2,060
9	228	e-26	12	15	9.6	2.4	e-42	1,120	3,240	2,110	1,930	2,040
10	e-30	14	26	20	e-24	711	e-13	1,020	2,870	2,080	811	1,990
11	234	12	7.4	23	e-16	1,030	19	359	2,820	2,110	434	1,010
12	270	e-7.7	e-13	20	e-29	1,540	e-21	233	3,190	2,040	479	408
13	e-45	e-18	e-22	9.7	11	1,690	e-31	247	3,030	2,040	e-13	405
14	228	e-19	e-9.5	19	6.3	1,500	e-33	2.2	2,380	2,060	e-14	232
15	239	e-9.1	e-11	7.0	13	1,310	e-24	e-21	1,890	e1,440	448	242
16	e-45	e-20	e-1.2	8.7	18	1,170	e-32	e-7.7	2,860	1,580	410	265
17	4.8	e-29	e-13	23	32	1,070	e-31	e-11	2,050	1,960	365	e-3.9
18	e-18	e-15	e-17	e-9.4	e-11	1,010	e-16	e-15	1,640	1,990	467	e-23
19	e-29	14	e-3.8	e-16	41	1,300	e-20	e-10	992	1,560	483	300
20	e-60	e-23	e-12	e-13	40	1,720	e0.00	e-11	1,530	1,780	e-21	329
21	e-11	e-5.4	23	e-14	17	1,890	e0.00	e-5.0	1,860	1,440	e-2.4	463
22	e-20	e-14	19	e-0.74	37	1,880	e118	e-18	1,520	1,880	483	396
23	e-19	e-2.1	5.6	2.3	36	1,620	e0.00	11	1,910	849	530	277
24	e-17	e-13	25	e-13	12	1,340	e0.00	e-1.1	1,980	419	465	0.38
25	e-13	e-22	e-3.2	e-4.8	28	1,210	e0.00	3.1	1,570	468	1,050	e-27
26	e-16	e-22	8.6	e-17	23	1,070	136	7.4	1,810	484	625	248
27	e-6.7	e-7.8	e-14	e-16	31	1,060	669	e-4.2	2,250	e439	542	371
28	e-2.2	e-49	1.5	5.5	88	1,010	980	1.0	2,480	e500	25	98
29	1.9	e-15	14	8.0	---	922	1,070	8.5	2,540	e472	488	448
30	1.3	e-24	26	6.1	---	897	1,080	18	2,760	13	424	448
31	3.7	---	39	e-22	---	531	---	e-24	---	e-26	438	---
TOTAL	9,548.8	-444.6	-48.1	281.96	210.9	27,505.1	3,929.30	12,132.2	61,103	44,988	16,036.6	19,285.48
MEAN	308	-14.8	-1.55	9.10	7.53	887	131	391	2,037	1,451	517	643
MAX	1,440	14	39	51	88	1,890	1,080	1,380	3,240	2,650	1,930	2,090
MIN	-60	-49	-33	-22	-37	-37	-48	-24	519	-26	-21	-27
AC-FT	18,940	-882	-95	559	418	54,560	7,790	24,060	121,200	89,230	31,810	38,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	432	176	142	163	268	224	248	246	519	541	634	705
MAX	2,116	1,289	1,551	1,053	1,830	1,385	1,395	767	2,059	1,854	1,975	1,950
(WY)	(2000)	(1999)	(1995)	(1979)	(1993)	(1966)	(1993)	(1996)	(1982)	(1982)	(1974)	(1992)
MIN	6.58	-33.2	-186	-54.5	-56.9	-40.5	0.00	0.06	0.00	0.10	-0.48	0.00
(WY)	(1982)	(2001)	(2000)	(2000)	(2000)	(2000)	(1968)	(1962)	(1962)	(1962)	(1966)	(1981)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	141,581.21		194,528.64			
ANNUAL MEAN	387		533		361	
HIGHEST ANNUAL MEAN					900	1995
LOWEST ANNUAL MEAN					41.6	1967
HIGHEST DAILY MEAN	3,550	Sep 7	3,240	Jun 9	4,240	Oct 22, 1969
LOWEST DAILY MEAN	-60	Oct 20	-60	Oct 20	-369	Aug 3, 1991
ANNUAL SEVEN-DAY MINIMUM	-27	Nov 28	-27	Apr 12	-300	Dec 8, 1999
ANNUAL RUNOFF (AC-FT)	280,800		385,800		261,600	
10 PERCENT EXCEEDS	1,560		1,880		1,120	
50 PERCENT EXCEEDS	12		26		68	
90 PERCENT EXCEEDS	-22		-23		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.

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°56'28", long 80°26'23", in NE $^1/_4$ sec.9, T.52 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, south of State Road 997 approximately 800 ft on south bank, 1000 ft downstream from control structure 32, 14.1 mi upstream from salinity-structure 26, 19.5 mi northwest of Miami, and 19.8 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to current year. Published as "at broken dam, near Miami" November 1959 to September 1967, and October 1984 to November 1988.

REVISED RECORDS.--WDR FL-99-2A, 1998.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County benchmark). Prior to January 20, 1968 and October 1984 to November 1988, at site 0.5 mi downstream at same datum.

REMARKS.--Records fair except for flows below 100 cfs and estimated daily discharges, which are poor. Flow affected by regulation at downstream salinity-control structure S-26 and by upstream storage releases at control structures 31, 32, and 32A and S-337. Prior to August 23, 1999, water-stage recorder and electromagnetic velocity meter. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete water years of discharge (1961-84, 87, 1992-94, 1999-2001, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 6.59 ft July 1, 1982; minimum, 1.40 ft May 31, 1962 (site at broken dam). See PERIOD OF RECORD.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 3.84 ft July 9; minimum, 1.94 ft Oct. 6.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.26	3.63	3.56	2.61	---	2.39	3.25	2.46	3.22	3.13	3.14	3.13
2	2.18	3.61	3.57	2.68	2.64	2.37	3.24	2.41	3.02	3.07	---	3.05
3	2.22	3.63	3.56	2.61	2.64	2.38	3.23	2.52	2.43	3.01	---	3.08
4	2.11	3.64	3.57	2.65	2.62	2.58	3.22	2.67	2.49	3.06	3.14	3.12
5	2.05	3.63	3.55	2.65	2.60	2.58	3.36	2.91	2.42	3.06	3.05	3.12
6	2.14	3.65	3.49	2.66	2.63	2.55	3.45	3.44	2.52	3.01	3.01	3.09
7	2.49	3.65	3.47	2.65	2.61	2.55	3.43	3.53	2.92	2.98	3.09	3.06
8	2.53	3.65	3.45	2.65	2.60	2.52	3.52	3.53	2.99	3.08	3.08	3.09
9	2.93	3.61	3.45	2.64	2.61	2.47	3.45	3.52	3.12	3.42	3.00	3.11
10	3.16	3.63	3.44	2.63	2.57	2.54	3.40	3.50	2.98	3.06	3.03	3.17
11	3.17	3.63	3.44	2.60	2.54	2.57	3.38	3.50	2.75	3.00	3.06	3.16
12	3.17	3.61	3.45	2.50	2.55	2.52	3.39	3.50	3.04	3.07	3.05	3.12
13	3.17	3.63	3.44	2.50	2.58	2.62	3.56	3.46	3.06	3.07	3.12	3.03
14	3.17	3.63	3.08	2.58	2.57	2.62	3.54	3.44	3.13	3.09	3.09	3.06
15	3.26	3.62	2.55	2.58	2.55	2.60	3.49	3.44	3.08	---	3.04	3.03
16	3.22	3.58	2.64	2.52	2.53	2.60	3.48	3.43	3.06	3.16	3.00	3.05
17	3.21	3.56	2.66	2.57	2.50	2.62	3.47	---	3.08	---	3.13	3.08
18	3.20	3.55	---	2.49	2.48	2.59	3.48	3.41	3.06	3.08	3.15	3.06
19	3.19	3.55	2.62	2.63	2.49	2.53	3.45	---	2.97	3.06	3.05	2.86
20	3.23	3.55	2.61	2.52	2.51	2.60	3.43	3.39	2.98	3.04	3.03	2.89
21	3.28	3.54	2.66	2.58	2.50	2.58	3.42	2.90	3.18	3.08	3.02	3.02
22	3.33	3.53	2.70	2.64	2.47	2.54	3.42	---	3.00	3.06	3.06	3.08
23	3.25	3.53	2.70	2.59	2.46	2.62	3.40	2.42	2.99	3.05	3.08	3.08
24	3.23	3.56	2.57	2.57	2.48	2.80	3.38	2.45	3.20	3.02	3.04	3.05
25	3.29	3.59	2.66	2.59	2.47	2.78	3.38	2.47	3.04	3.06	2.76	3.02
26	3.38	3.58	2.53	2.59	2.47	2.81	2.90	2.57	3.03	3.04	3.08	3.04
27	3.33	3.58	2.61	2.59	2.49	2.81	2.50	2.65	3.09	3.05	2.79	3.09
28	3.47	3.55	2.63	2.59	2.45	2.78	2.48	2.60	3.17	3.05	2.61	3.13
29	3.62	3.54	2.63	2.61	---	3.04	2.48	2.68	3.03	3.04	---	3.12
30	3.62	3.56	2.66	2.61	---	3.23	2.49	3.08	3.05	3.02	2.44	3.11
31	3.63	---	2.61	2.56	---	3.25	---	3.25	---	3.12	2.93	---
TOTAL	93.49	107.80	---	80.44	---	82.04	98.07	---	89.10	---	---	92.10
MEAN	3.02	3.59	---	2.59	---	2.65	3.27	---	2.97	---	---	3.07
MAX	3.63	3.65	---	2.68	---	3.25	3.56	---	3.22	---	---	3.17
MIN	2.05	3.53	---	2.49	---	2.37	2.48	---	2.42	---	---	2.86

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	502	485	53	e43	42	407	52	247	146	199	286
2	79	504	484	51	47	42	408	36	187	145	e242	238
3	82	496	478	52	46	38	406	43	51	147	e266	234
4	80	490	478	55	44	43	406	48	52	203	236	233
5	79	484	487	55	45	40	456	186	49	209	256	232
6	80	482	491	56	45	37	469	433	47	211	293	233
7	79	487	483	56	44	44	455	454	142	209	290	235
8	77	475	481	52	46	41	387	453	193	224	269	249
9	293	478	478	50	48	39	403	454	244	117	266	252
10	378	489	473	48	45	44	405	455	135	69	282	221
11	375	489	462	55	43	38	407	457	63	112	295	59
12	370	497	460	53	45	39	413	458	201	160	294	54
13	367	497	469	49	45	40	471	453	233	166	292	92
14	366	494	300	53	47	38	468	451	202	171	289	147
15	366	489	48	50	51	46	468	453	205	e217	293	152
16	361	482	51	44	52	53	467	453	200	215	292	151
17	374	475	51	46	42	44	463	e451	123	e209	339	185
18	381	477	e48	48	44	48	470	446	128	210	346	180
19	378	488	43	44	48	39	469	e444	103	210	310	109
20	370	486	45	46	51	46	471	443	52	208	309	72
21	373	483	45	45	51	50	466	217	54	218	308	145
22	367	481	48	41	50	56	464	e43	57	214	310	206
23	368	479	51	44	50	129	461	40	56	228	316	225
24	369	485	47	43	52	214	455	30	57	229	305	247
25	363	480	50	44	43	218	451	e20	63	220	161	246
26	359	479	47	43	45	215	233	45	106	255	65	257
27	373	488	45	41	47	217	47	45	146	199	74	277
28	451	482	47	46	43	212	47	49	149	241	69	276
29	502	486	48	44	---	342	55	82	124	239	e70	277
30	501	490	53	42	---	414	50	299	163	242	67	274
31	506	---	53	46	---	411	---	347	---	215	198	---
TOTAL	9,550	14,594	7,329	1,495	1,302	3,319	11,498	8,340	3,832	6,058	7,601	6,044
MEAN	308	486	236	48.2	46.5	107	383	269	128	195	245	201
MAX	506	504	491	56	52	414	471	458	247	255	346	286
MIN	77	475	43	41	42	37	47	20	47	69	65	54
AC-FT	18,940	28,950	14,540	2,970	2,580	6,580	22,810	16,540	7,600	12,020	15,080	11,990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	211	222	203	198	186	172	201	160	136	147	166	183
MAX	921	696	638	586	826	826	885	689	798	636	668	649
(WY)	(1961)	(1961)	(1961)	(1961)	(1983)	(1983)	(1970)	(1970)	(1970)	(1982)	(1982)	(1966)
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)	(1981)	(1981)	(1981)	(1982)	(1982)	(1980)	(1980)	(1979)	(1979)	(1980)	(1980)	(1980)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	80,962			
ANNUAL MEAN	222		198	
HIGHEST ANNUAL MEAN			476	1970
LOWEST ANNUAL MEAN			28.4	1997
HIGHEST DAILY MEAN	506	Oct 31	1,090	Mar 20, 1970
LOWEST DAILY MEAN	20	May 25	0.00	Apr 26, 1979
ANNUAL SEVEN-DAY MINIMUM	39	May 22	0.00	Apr 26, 1979
ANNUAL RUNOFF (AC-FT)	160,600		143,200	
10 PERCENT EXCEEDS	478		350	
50 PERCENT EXCEEDS	208		191	
90 PERCENT EXCEEDS	44		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.

02287497 N.W. WELLFIELD CANAL NEAR DADE BROWARD LEVEE, NEAR PENNSUCO, FL

LOCATION.--Lat 25°53'28", long 80°25'13", in NE ¼ sec.27, T.52 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, (Pennsuco quadrangle), 0.7 mi north of Pennsuco Canal, 1.9 mi east of Dade Broward Levee, 2.0 mi southwest of the Miami Canal, 4 mi east of Levee 30 Canal, and 2.5 mi west of Pennsuco.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1991 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Electronic data logger at auxiliary gage downstream of NW 137th Avenue gated culverts began February 24, 2003. Datum of gage is National Geodetic Vertical Datum of 1929 (DERM bench mark). Prior to February 21, 2003, site was 1.0 mi upstream at datum 0.10 ft lower. Prior to October 9, 2002, acoustic velocity meter. Acoustic doppler velocity meter installed February 21, 2003.

REMARKS.--Records fair except for flows below 40 cfs and estimated daily discharges, which are poor. Flow is the sum of regulation from vertical control structure DERM No. 1, NW 137th Avenue gated culverts and from levee seepage. Flow is positive to the east. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 8 water years of complete discharge (1992, 1996-2000, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.07 ft Oct. 15-17, 1999; minimum, 1.39 ft May 28, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 6.53 ft Sept.10; minimum, 3.27 ft May 2, 3.

EXTREME STAGES FOR AUXILIARY GAGE DOWNSTREAM FOR PERIOD OF RECORD.--Maximum gage height, 5.71 ft Sept. 29, 2003; minimum, 2.83 ft June 28, 29, 2004.

EXTREME STAGES FOR AUXILIARY GAGE DOWNSTREAM FOR CURRENT YEAR.--Maximum gage height, 5.28 ft July 13; minimum, 3.20 ft May 3.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.98	4.50	4.07	3.77	3.60	3.35	3.50	3.31	4.01	6.23	6.00	6.22
2	4.91	4.47	4.07	3.74	3.60	3.34	3.53	3.29	4.13	6.22	5.99	6.27
3	4.87	4.46	4.06	3.72	3.59	3.33	3.53	3.37	4.28	6.19	5.96	6.28
4	4.80	4.45	4.05	3.71	3.60	3.64	3.48	3.60	4.49	6.17	5.95	6.27
5	4.73	4.45	4.04	3.69	3.58	3.57	3.46	3.88	4.51	6.15	---	6.27
6	4.62	4.44	4.02	3.67	3.57	3.51	3.43	3.79	4.50	6.13	5.97	6.27
7	4.56	---	4.01	3.67	3.56	3.48	3.43	3.71	4.49	6.10	6.03	6.26
8	4.50	4.40	3.99	3.67	3.55	3.48	3.99	3.66	---	6.07	6.14	6.26
9	4.45	4.38	3.98	3.66	3.54	3.55	3.99	---	---	6.23	6.13	6.24
10	4.41	4.36	3.97	3.65	3.53	3.81	3.89	3.60	4.98	6.27	6.12	6.26
11	4.38	4.33	3.96	3.64	3.51	3.70	3.82	3.58	5.51	6.28	6.11	6.42
12	4.37	4.31	3.92	3.61	3.50	3.64	3.78	3.57	5.72	6.27	6.10	6.41
13	4.36	4.30	3.91	3.60	3.49	3.61	3.75	3.54	5.76	6.28	6.08	6.37
14	---	4.29	3.89	3.74	3.48	3.58	3.72	3.52	5.78	6.28	6.07	6.34
15	4.47	4.27	3.85	3.97	3.46	3.57	3.68	3.50	5.77	---	6.06	6.31
16	4.49	4.24	3.83	3.92	3.45	3.55	3.64	3.49	5.78	---	---	6.29
17	4.47	4.22	3.83	3.84	3.43	3.63	3.62	3.46	5.95	6.23	---	6.26
18	4.46	4.21	3.84	3.77	3.42	4.02	3.59	3.44	6.01	6.21	---	6.24
19	4.44	4.19	3.82	3.74	3.40	3.89	3.57	3.42	6.03	6.19	---	6.23
20	4.51	4.18	3.79	3.71	3.39	3.79	3.55	3.42	6.07	6.16	---	6.25
21	4.87	4.16	3.77	3.69	---	3.73	3.53	3.41	6.13	6.13	5.98	6.27
22	---	4.14	3.77	3.69	3.37	3.68	3.52	3.42	6.13	6.11	---	6.27
23	4.86	4.13	3.77	3.67	---	3.66	3.51	3.49	6.14	6.09	6.09	6.27
24	---	4.16	3.77	3.64	3.36	3.64	3.48	3.43	6.14	6.07	6.05	6.26
25	4.79	4.19	3.76	3.62	3.39	3.62	3.46	3.40	6.13	6.03	---	6.24
26	4.75	4.17	3.74	3.61	3.38	3.61	3.44	3.44	6.11	6.01	6.14	6.24
27	4.71	4.14	3.71	3.60	3.38	3.60	3.43	3.66	6.10	6.05	6.19	6.22
28	4.64	4.12	3.70	3.62	3.36	3.57	3.40	3.59	6.12	6.03	6.22	6.22
29	4.59	4.09	3.69	3.65	---	3.54	3.36	3.61	6.13	6.02	6.23	6.21
30	4.56	4.08	3.73	3.64	---	3.52	3.34	3.65	6.15	6.01	6.22	6.21
31	4.53	---	3.78	3.62	---	3.51	---	3.70	---	6.02	6.20	---
TOTAL	---	---	120.09	114.54	---	111.72	107.42	---	---	---	---	188.13
MEAN	---	---	3.87	3.69	---	3.60	3.58	---	---	---	---	6.27
MAX	---	---	4.07	3.97	---	4.02	3.99	---	---	---	---	6.42
MIN	---	---	3.69	3.60	---	3.33	3.34	---	---	---	---	6.21

02287497 N.W. WELLFIELD CANAL NEAR DADE BROWARD LEVEE, NEAR PENNSUCO, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.74	4.36	3.94	3.65	3.56	3.29	3.44	3.26	3.96	5.00	4.55	4.78
2	4.69	4.33	3.94	3.63	3.55	3.28	3.48	3.23	4.08	4.99	4.49	4.87
3	4.66	4.32	3.93	3.61	3.55	3.28	3.48	3.32	4.23	4.93	4.48	4.84
4	4.61	4.32	3.92	3.60	3.55	3.58	3.43	3.54	4.44	4.88	4.51	4.84
5	4.54	4.30	3.91	3.61	3.54	3.52	3.40	3.83	4.46	4.81	4.49	4.83
6	4.47	4.30	3.88	3.63	3.53	3.46	3.38	3.74	4.46	4.75	4.49	4.78
7	4.43	4.28	3.87	3.63	3.51	3.43	3.38	3.67	4.45	4.68	4.51	4.74
8	4.38	4.26	3.85	3.62	3.50	3.43	3.94	3.61	4.37	4.68	4.60	4.71
9	4.34	4.23	3.84	3.62	3.49	3.50	3.94	3.57	4.39	5.08	4.55	4.67
10	4.31	4.21	3.83	3.60	3.48	3.75	3.84	3.54	4.44	5.09	4.52	4.67
11	4.28	4.19	3.81	3.59	3.46	3.65	3.77	3.53	4.29	5.04	4.50	4.82
12	4.26	4.17	3.79	3.56	3.45	3.59	3.73	3.51	4.39	4.98	4.47	4.81
13	4.25	4.16	3.77	3.55	3.44	3.56	3.70	3.49	4.27	5.08	4.51	4.79
14	4.23	4.15	3.74	3.68	3.42	3.53	3.67	3.46	4.18	5.19	4.51	4.74
15	4.36	4.14	3.71	3.92	3.41	3.52	3.63	3.45	4.09	5.19	4.48	4.70
16	4.38	4.11	3.69	3.87	3.40	3.50	3.59	3.44	4.05	5.11	4.42	4.67
17	4.35	4.08	3.69	3.79	3.38	3.58	3.56	3.41	4.35	5.04	4.37	4.65
18	4.33	4.07	3.69	3.73	3.36	3.97	3.54	3.38	4.44	4.97	4.33	4.62
19	4.31	4.06	3.67	3.69	3.35	3.84	3.52	3.37	4.44	4.92	4.29	4.59
20	4.37	4.05	3.66	3.67	3.34	3.74	3.49	3.37	4.60	4.87	4.25	4.65
21	4.67	4.03	3.64	3.65	3.33	3.68	3.48	3.36	4.85	4.81	4.22	4.69
22	4.70	4.01	3.64	3.64	3.31	3.64	3.46	3.37	4.78	4.76	4.18	4.65
23	4.68	3.99	3.65	3.63	3.31	3.61	3.45	3.44	4.79	4.72	4.23	4.66
24	4.65	4.02	3.64	3.59	3.31	3.59	3.43	3.38	4.83	4.68	4.18	4.61
25	4.61	4.05	3.64	3.57	3.33	3.58	3.40	3.35	4.79	4.63	4.24	4.61
26	4.58	4.03	3.62	3.56	3.32	3.56	3.38	3.39	4.74	4.59	4.87	4.59
27	4.54	4.00	3.58	3.55	3.33	3.55	3.37	3.61	4.71	4.65	4.83	4.56
28	4.49	3.98	3.57	3.58	3.31	3.52	3.35	3.54	4.82	4.62	4.75	4.55
29	4.45	3.95	3.57	3.60	---	3.49	3.31	3.57	4.80	4.67	4.69	4.55
30	4.41	3.94	3.61	3.59	---	3.47	3.28	3.60	4.82	4.63	4.69	4.54
31	4.39	---	3.66	3.58	---	3.46	---	3.65	---	4.60	4.75	---
TOTAL	138.46	124.09	115.95	112.79	95.82	110.15	105.82	107.98	134.31	150.64	138.95	140.78
MEAN	4.47	4.14	3.74	3.64	3.42	3.55	3.53	3.48	4.48	4.86	4.48	4.69
MAX	4.74	4.36	3.94	3.92	3.56	3.97	3.94	3.83	4.85	5.19	4.87	4.87
MIN	4.23	3.94	3.57	3.55	3.31	3.28	3.28	3.23	3.96	4.59	4.18	4.54

02287497 N.W. WELLFIELD CANAL NEAR DADE BROWARD LEVEE, NEAR PENNSUCO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	113	99	88	81	79	73	70	93	21	24	24
2	159	112	99	86	79	76	76	70	108	25	24	33
3	151	111	99	85	80	77	77	74	118	24	25	27
4	145	110	97	82	80	97	73	87	110	22	25	22
5	140	111	97	86	80	85	74	104	115	26	e24	18
6	129	111	100	87	78	81	73	91	111	25	22	16
7	114	e112	97	85	80	78	73	83	98	23	25	18
8	109	111	97	85	80	79	102	79	e100	26	27	17
9	104	111	97	84	79	88	94	e74	e105	17	19	16
10	102	110	97	85	79	100	89	75	58	18	19	23
11	100	109	95	85	77	86	84	76	22	18	23	23
12	101	107	95	87	76	80	81	77	25	15	21	15
13	100	105	93	88	77	79	77	76	20	12	25	23
14	e99	106	94	103	80	78	77	76	21	19	25	21
15	103	104	94	115	80	78	78	75	21	e24	23	22
16	107	105	89	106	79	76	78	77	23	e19	e20	20
17	107	103	90	98	78	83	79	76	22	19	e20	20
18	110	102	90	94	78	102	78	76	22	17	e23	18
19	111	102	90	89	79	88	75	74	24	14	e23	15
20	117	101	88	86	79	83	76	73	24	15	e20	23
21	150	101	85	83	e79	79	76	74	21	18	26	25
22	e141	101	86	83	79	80	77	73	18	22	e27	22
23	142	101	85	82	e79	76	72	75	16	23	26	17
24	e141	103	87	82	79	76	73	74	12	23	13	18
25	137	106	86	79	77	76	75	74	16	23	e15	15
26	133	105	83	78	81	74	75	78	20	24	24	12
27	127	102	85	79	79	73	76	89	23	20	20	15
28	123	103	83	82	78	72	76	77	23	19	15	16
29	120	101	81	81	---	72	74	72	20	23	14	16
30	116	98	87	80	---	72	72	76	18	26	17	18
31	113	---	89	81	---	73	---	82	---	23	20	---
TOTAL	3,818	3,177	2,834	2,694	2,210	2,496	2,333	2,407	1,427	643	674	588
MEAN	123	106	91.4	86.9	78.9	80.5	77.8	77.6	47.6	20.7	21.7	19.6
MAX	167	113	100	115	81	102	102	104	118	26	27	33
MIN	99	98	81	78	76	72	72	70	12	12	13	12
AC-FT	7,570	6,300	5,620	5,340	4,380	4,950	4,630	4,770	2,830	1,280	1,340	1,170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	163	170	160	157	155	147	148	136	142	143	162	156
MAX	219	228	225	231	225	217	268	248	235	219	229	210
(WY)	(1998)	(1996)	(1999)	(1999)	(1998)	(1995)	(1994)	(1994)	(1994)	(1997)	(1994)	(1995)
MIN	97.5	106	91.4	86.9	78.9	80.5	69.8	60.1	47.6	20.7	21.7	19.6
(WY)	(2002)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(1992)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	30,064.82		25,301			
ANNUAL MEAN	82.1		69.3		156	
HIGHEST ANNUAL MEAN					208	1996
LOWEST ANNUAL MEAN					69.3	2005
HIGHEST DAILY MEAN	174	Sep 30	167	Oct 1	360	Aug 16, 1992
LOWEST DAILY MEAN	-0.08	Sep 27	12	Jun 24	-0.08	Sep 27, 2004
ANNUAL SEVEN-DAY MINIMUM	14	Sep 2	16	Sep 23	14	Sep 2, 2004
ANNUAL RUNOFF (AC-FT)	59,630		50,180		112,900	
10 PERCENT EXCEEDS	111		109		221	
50 PERCENT EXCEEDS	88		78		172	
90 PERCENT EXCEEDS	50		19		73	

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.

02288600 MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FL

LOCATION.--Lat 25°48'29", long 80°15'49", in NE ¼ sec.29, T.53 S., R.41 E., Miami-Dade County, Hydrologic Unit 03090202, on right bank at downstream end of NW 36th Street bridge fender at Miami, 1200 ft upstream from salinity-control structure S-26.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1959 to current year.

REVISED RECORDS.--WDR FL-98-2A, 1997, WDR FL-03-2A, 2002.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to June 12, 2002, electronic data logger with water-stage shaft encoder and acoustic velocity meter with phone/radio telemetry provided by South Florida Water Management District. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Records fair except for estimated daily discharges and discharges between -20 and 20 cfs, which are poor. Flow affected by tide and is occasionally reversed. Some seepage losses above station into Miami-Dade Water and Sewer Authority well field for groundwater withdrawals. Natural flow materially affected by levee and control structures 31, 32 and 32A about 14 mi upstream, and structure 26 downstream. Acoustic velocity meter began on October 1, 1996, and was removed on June 12, 2002. Acoustic doppler velocity meter began on June 12, 2002. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1960-85, 1987-88).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 5.28 ft (estimated) Oct. 15, 1999; minimum, -0.55 ft Apr. 26, 1970.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 3.19 ft Oct. 22; minimum, 0.34 ft July 21.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.62	2.54	2.52	2.60	2.68	2.51	2.46	2.48	2.53	1.51	2.28	1.37
2	1.60	2.49	2.53	2.74	2.69	2.47	2.46	2.49	2.29	1.42	2.00	1.48
3	1.59	2.59	2.53	2.63	2.69	e2.46	2.43	2.52	1.62	1.48	1.62	1.57
4	1.54	2.62	2.55	2.70	2.70	2.63	2.42	2.63	1.59	1.31	2.30	1.67
5	1.52	2.61	2.48	2.69	2.71	2.68	2.45	2.52	1.51	1.41	1.65	1.71
6	1.90	2.57	2.43	2.69	2.69	2.65	2.50	2.46	1.99	1.38	1.37	1.72
7	2.50	2.58	2.45	2.69	2.67	2.61	2.43	2.50	2.45	1.40	1.40	1.73
8	2.53	2.65	2.43	2.70	2.67	e2.59	2.54	2.53	2.46	1.48	1.47	1.83
9	2.53	2.59	2.46	2.70	2.65	2.51	2.51	2.53	1.95	1.73	1.43	1.88
10	2.56	2.60	2.46	2.68	2.67	2.57	2.48	2.49	1.68	1.44	1.42	2.09
11	2.55	2.59	2.47	2.64	2.66	2.61	2.49	2.47	1.59	1.43	1.46	2.18
12	2.57	2.58	2.48	2.49	2.64	2.55	2.52	2.46	1.54	1.31	1.46	2.16
13	2.58	2.55	2.47	2.44	2.61	2.70	2.56	2.43	1.80	1.29	1.58	1.98
14	2.58	2.53	2.52	2.53	2.60	2.69	2.55	2.41	2.46	1.45	1.48	1.93
15	2.59	2.54	2.62	2.53	2.59	2.67	2.47	2.42	2.45	---	1.47	1.97
16	2.46	---	2.68	2.55	2.58	2.63	2.48	2.44	2.31	1.47	1.54	2.06
17	2.49	2.53	2.72	2.61	2.58	2.62	2.53	2.40	1.70	1.51	1.54	---
18	2.49	2.53	2.63	2.55	2.57	2.54	2.53	2.42	1.77	1.54	1.58	2.01
19	2.52	2.54	2.68	2.70	2.56	2.53	2.48	2.47	1.66	1.58	1.65	1.93
20	2.33	2.55	2.67	2.54	2.54	2.64	2.44	2.43	1.75	1.66	1.65	2.08
21	1.97	2.54	2.70	2.64	2.53	2.58	2.47	2.49	1.81	1.82	1.63	1.97
22	2.12	2.55	2.70	2.70	2.52	2.53	2.48	2.62	1.68	1.67	1.63	1.90
23	2.06	2.51	2.73	2.65	2.50	2.58	2.46	2.36	1.61	1.63	1.63	1.84
24	2.15	2.52	2.58	2.66	2.52	2.51	2.48	2.53	1.73	1.60	1.61	1.75
25	2.47	2.54	2.69	2.67	2.54	2.50	2.49	2.56	1.73	2.02	1.76	1.66
26	2.79	2.53	2.63	2.66	2.54	2.54	2.47	2.59	1.64	1.50	1.91	1.69
27	2.59	2.51	2.71	2.66	2.53	2.52	2.57	2.59	1.57	1.44	1.58	1.75
28	2.53	2.49	2.69	2.59	2.54	2.53	2.54	2.60	1.52	1.48	1.33	1.84
29	2.57	2.45	2.69	2.62	---	2.48	2.50	2.59	1.47	1.57	1.11	1.82
30	2.53	2.51	2.66	2.65	---	2.45	2.47	2.47	1.47	1.71	1.64	1.83
31	2.53	---	2.60	2.61	---	2.46	---	2.52	---	2.30	1.83	---
TOTAL	71.36	---	80.16	81.51	72.97	79.54	74.66	77.42	55.33	---	50.01	---
MEAN	2.30	---	2.59	2.63	2.61	2.57	2.49	2.50	1.84	---	1.61	---
MAX	2.79	---	2.73	2.74	2.71	2.70	2.57	2.63	2.53	---	2.30	---
MIN	1.52	---	2.43	2.44	2.50	2.45	2.42	2.36	1.47	---	1.11	---

e Estimated

02288600 MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	375	456	84	4.5	1.5	328	4.5	408	792	325	694
2	403	396	447	6.7	1.2	4.1	341	-6.0	485	791	401	672
3	440	419	446	58	6.2	e3.6	345	94	538	719	537	642
4	408	421	443	13	1.3	61	339	101	590	742	283	607
5	387	392	453	9.4	4.5	-4.7	317	279	626	684	580	588
6	168	409	410	9.8	7.8	-0.18	257	424	450	677	654	561
7	7.2	403	380	5.3	5.6	3.9	308	424	390	658	661	562
8	9.2	368	374	2.5	0.36	e-4.6	551	411	370	605	640	471
9	120	394	352	7.0	3.6	49	494	402	598	835	627	461
10	185	394	353	5.1	-13	135	476	421	731	808	617	418
11	188	422	345	7.6	5.2	81	447	416	742	747	608	577
12	192	422	378	11	3.5	93	428	410	772	756	602	575
13	189	455	384	9.6	5.2	-1.3	435	381	601	758	601	538
14	193	451	225	89	4.1	-8.1	415	385	401	728	632	---
15	325	441	7.3	174	3.5	-17	418	398	358	---	605	---
16	365	e432	6.5	126	-8.3	7.1	394	383	430	707	560	426
17	324	436	-0.26	99	-22	87	363	364	765	668	557	---
18	318	415	66	68	-8.0	232	357	360	702	638	529	418
19	281	400	29	6.0	11	138	375	321	708	609	464	421
20	425	387	33	100	8.1	6.7	382	347	800	564	465	402
21	---	396	8.0	2.0	8.1	9.4	361	193	892	445	490	508
22	---	370	9.6	-2.6	3.2	13	352	-3.3	803	551	481	522
23	---	410	8.9	36	5.8	2.1	364	168	810	565	507	535
24	---	447	83	14	5.9	209	339	-13	863	560	512	533
25	---	442	59	0.51	3.1	213	317	-7.7	758	395	452	533
26	203	404	44	-2.9	1.7	175	201	49	736	592	669	545
27	307	428	7.6	-1.3	6.5	191	-1.3	153	766	625	684	318
28	341	403	6.3	79	-5.9	194	11	76	817	594	682	369
29	368	420	7.9	24	---	268	8.8	153	770	560	658	301
30	384	439	74	58	---	336	11	365	746	506	440	297
31	389	---	66	67	---	333	---	341	---	265	510	---
TOTAL	---	12,391	5,961.84	1,164.71	52.76	2,810.52	9,733.5	7,793.5	19,426	---	17,033	---
MEAN	---	413	192	37.6	1.88	90.7	324	251	648	---	549	---
MAX	---	455	456	174	11	336	551	424	892	---	684	---
MIN	---	368	-0.26	-2.9	-22	-17	-1.3	-13	358	---	283	---
AC-FT	---	24,580	11,830	2,310	105	5,570	19,310	15,460	38,530	---	33,780	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	366	283	209	178	176	147	120	130	256	255	291	362
MAX	1,272	1,071	1,041	939	791	729	662	682	813	791	848	1,146
(WY)	(1961)	(1961)	(1960)	(1961)	(1961)	(1960)	(1960)	(1960)	(1968)	(1959)	(1960)	(1960)
MIN	34.5	6.94	0.00	0.00	0.00	-1.61	0.00	-5.53	0.33	4.08	2.32	76.6
(WY)	(1981)	(1989)	(1982)	(1981)	(1982)	(1962)	(1974)	(1993)	(1980)	(1981)	(1987)	(1987)

SUMMARY STATISTICS	WATER YEARS 1959 - 2005	
ANNUAL MEAN	251	
HIGHEST ANNUAL MEAN	843	1960
LOWEST ANNUAL MEAN	31.2	1987
HIGHEST DAILY MEAN	1,730	Oct 16, 1999
LOWEST DAILY MEAN	-279	Jun 1, 1993
ANNUAL SEVEN-DAY MINIMUM	-69	May 26, 1993
ANNUAL RUNOFF (AC-FT)	182,000	
10 PERCENT EXCEEDS	610	
50 PERCENT EXCEEDS	202	
90 PERCENT EXCEEDS	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.

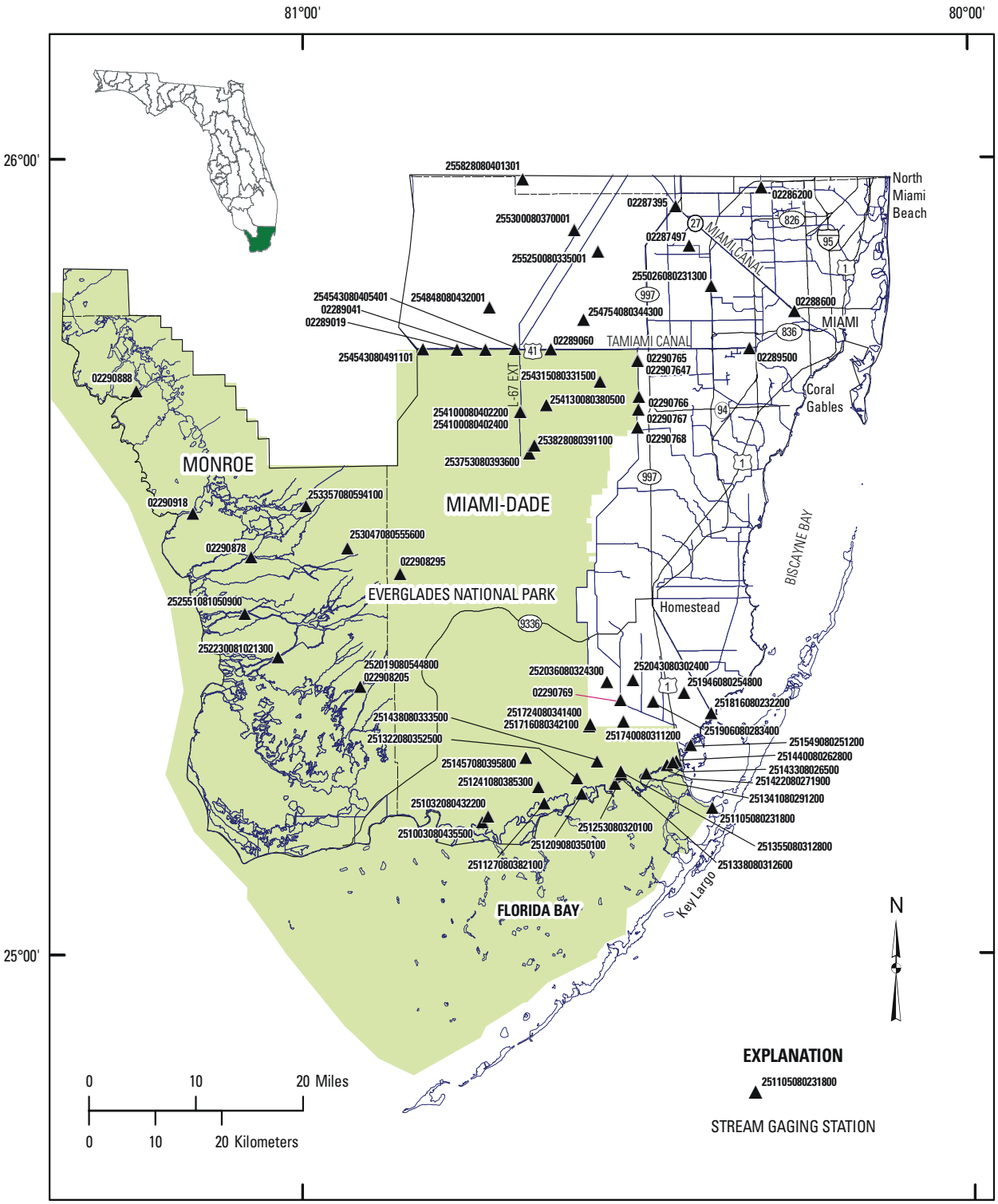


Figure 20. Location of gaging stations in the portion of the Everglades and the southeastern coastal area south of latitude 26 degrees, Florida Bay, and the Florida Keys.

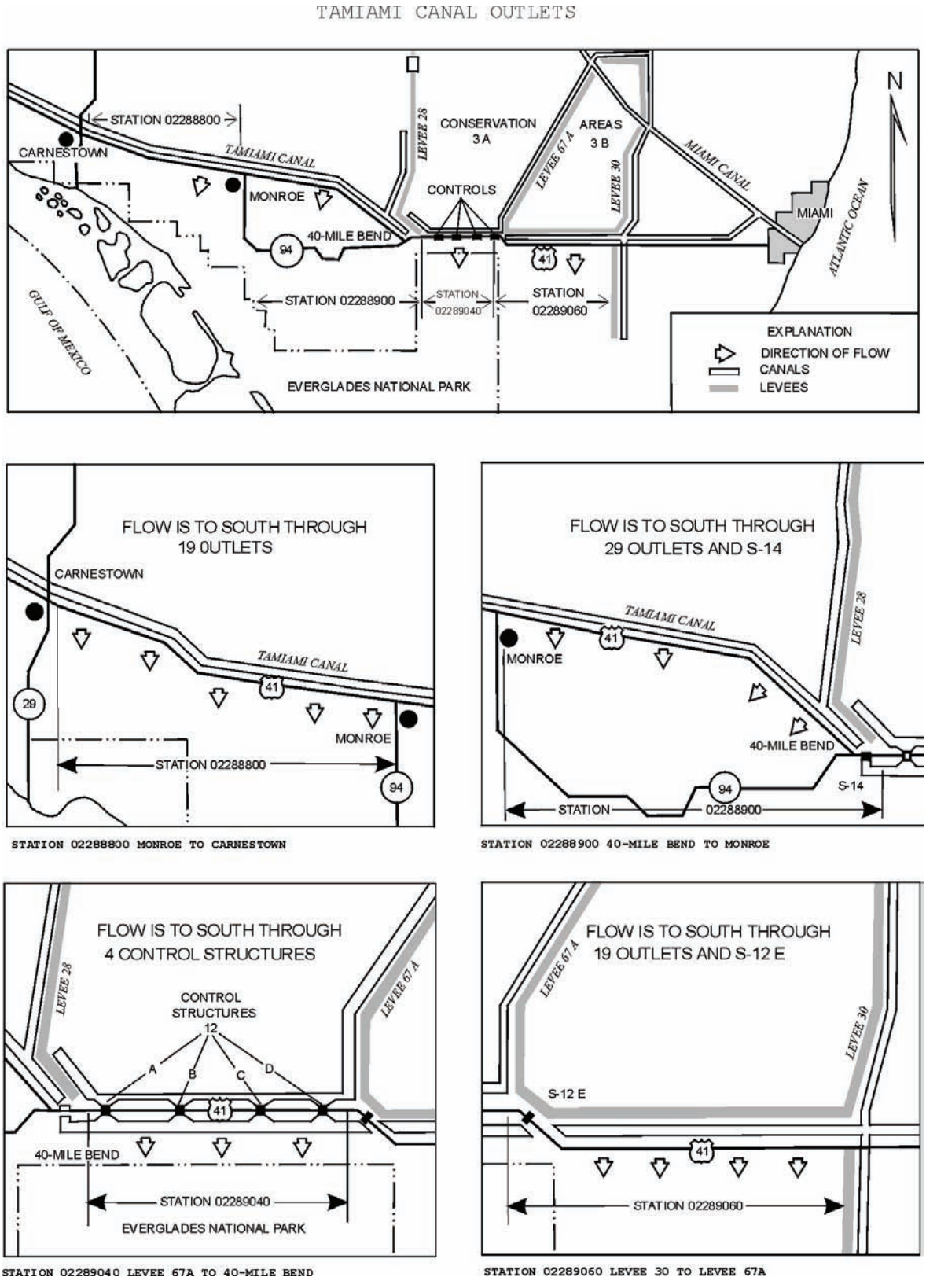


Figure 21. Tamiami Canal Outlets.

02288800 TAMIAMI CANAL OUTLETS, MONROE TO CARNESTOWN, FL

LOCATION.--Lat 25°53'10", long 81°15'30", in NW ¼ sec.6, T.53 S., R.31 E., Collier County, Hydrologic Unit 03090204, on downstream side of bridge 84 on U.S. Highway 41, 7 mi east of Carnestown, and 10 mi west of Monroe.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WDR FL-98-2A, 1997.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 2, 1963, at site 2 mi east at datum 0.93 ft lower. From May 2, 1963 to February 10, 1965, at site on west bank of unnamed lateral 30 ft downstream.

REMARKS.--Records poor. Figures of discharge consist of runoff from Big Cypress Watershed as represented by flow through all the outlets of the Tamiami Canal from Monroe, 55 mi west of Miami, to a point 1 mi east of the intersection with State Highway 29 at Carnestown (Bridge numbers 95-77). Flow at western-most outlets affected by tide. Flow measurements under tidal influence are computed as zero flow. Zero flow occurs for numerous days, during most of the water years. Peak flow above base is not determined.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 44 complete water years of discharge (1960-94, 1996-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 5.90 ft present datum Sept. 14, 1960; minimum, -0.52 ft, June 5-8, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 5.67 ft June 26; minimum, 0.10 ft May 31.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.53	4.06	3.45	3.08	2.64	2.22	2.79	2.34	---	5.59	4.95	4.60
2	4.51	4.00	3.44	3.06	2.62	2.13	2.77	2.29	---	5.50	4.94	4.64
3	4.49	3.96	3.43	3.06	2.59	2.06	2.76	2.20	---	5.37	4.89	4.77
4	4.45	3.93	3.41	3.03	2.57	2.54	2.67	2.12	---	5.25	4.83	4.79
5	4.42	3.91	3.40	2.99	2.55	2.65	2.59	2.41	---	5.12	4.75	4.80
6	4.39	3.89	3.37	2.96	2.52	2.60	2.52	2.51	---	5.01	4.77	4.82
7	4.37	3.87	3.36	2.95	2.49	2.55	2.45	---	---	4.92	4.85	4.84
8	4.34	3.82	3.33	2.93	2.46	2.55	3.20	---	3.42	4.88	5.06	4.84
9	4.31	3.79	3.33	2.93	2.43	2.74	3.40	2.15	3.45	5.14	5.10	4.82
10	4.29	3.76	3.32	2.92	2.40	3.16	3.37	2.02	3.61	5.18	5.08	4.78
11	4.25	3.75	3.32	2.90	2.36	3.17	---	1.88	3.87	5.14	5.04	4.76
12	4.24	3.73	3.32	2.88	2.33	3.12	---	1.71	4.15	5.09	5.01	4.72
13	4.23	3.71	3.30	2.86	2.29	3.07	3.24	1.52	4.39	5.08	4.95	4.68
14	4.21	3.68	3.27	2.90	2.26	3.04	3.20	1.34	4.48	5.04	4.89	4.64
15	4.21	3.66	3.24	3.07	2.22	2.99	3.14	1.21	4.55	5.02	4.87	4.60
16	4.22	3.63	3.23	3.09	2.18	2.95	3.09	1.08	4.58	4.98	4.84	4.56
17	4.20	3.60	3.22	3.07	2.14	3.01	3.04	0.98	4.64	4.97	4.84	4.53
18	4.18	3.58	3.21	3.03	2.09	3.35	2.99	---	4.69	4.94	4.85	4.53
19	4.18	3.55	3.21	3.00	2.04	3.34	2.93	0.77	4.70	4.90	4.83	4.49
20	4.18	3.53	3.19	---	2.00	3.31	2.87	---	4.84	4.85	4.89	4.52
21	4.18	3.50	3.17	---	1.95	3.28	2.82	---	5.14	4.81	4.86	4.77
22	4.18	3.48	3.16	2.90	1.90	3.25	2.83	0.55	5.32	4.76	4.80	5.01
23	4.19	3.46	3.15	2.88	1.86	3.22	2.77	0.52	5.51	4.72	4.74	5.00
24	4.21	3.44	3.15	2.84	1.82	3.19	2.69	0.47	5.60	4.69	4.69	4.88
25	4.22	3.51	3.15	2.80	1.86	3.14	2.61	0.43	5.58	4.67	4.65	4.77
26	4.21	3.56	3.13	2.77	2.06	3.11	2.54	---	5.57	4.74	4.64	4.70
27	4.19	3.55	3.11	2.75	2.23	3.06	2.59	---	5.61	4.78	4.67	4.75
28	4.18	3.54	3.10	2.74	2.28	3.02	2.65	---	5.63	4.87	4.70	4.75
29	4.15	3.51	3.08	2.73	---	2.97	2.53	---	5.64	4.93	4.67	4.73
30	4.13	3.47	3.07	2.70	---	2.91	2.43	---	5.64	4.97	-34.27	4.70
31	4.10	---	3.06	2.67	---	2.85	---	---	---	4.95	4.62	---
TOTAL	132.14	110.43	100.68	---	63.14	90.55	---	---	---	154.86	111.00	141.79
MEAN	4.26	3.68	3.25	---	2.25	2.92	---	---	---	5.00	3.58	4.73
MAX	4.53	4.06	3.45	---	2.64	3.35	---	---	---	5.59	5.10	5.01
MIN	4.10	3.44	3.06	---	1.82	2.06	---	---	---	4.67	-34.27	4.49

02288800 TAMIAMI CANAL OUTLETS, MONROE TO CARNESTOWN, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	955	287	34	e0.00	0.00	0.01	e0.00	15	e0.00	4,560	2,050	1,240
2	938	245	33	e0.00	e0.00	0.00	e0.00	15	e1.3	4,100	2,020	1,330
3	916	214	31	e0.00	e0.00	0.00	e0.00	12	e18	3,500	1,860	1,630
4	868	196	29	e0.00	e0.00	1.8	e0.00	9.3	e23	2,980	1,700	1,700
5	803	181	27	e0.00	e0.00	2.6	e0.00	32	e25	2,500	1,480	1,710
6	760	172	24	0.00	e0.00	2.5	e0.00	46	e31	2,150	1,510	1,790
7	713	156	22	0.00	e0.00	2.4	e0.00	e36	e44	1,880	1,710	1,830
8	675	137	20	0.00	e0.00	2.6	7.3	e22	53	1,790	2,350	1,820
9	630	122	19	0.00	e0.00	5.4	14	13	64	2,680	2,450	1,740
10	594	111	19	0.00	e0.00	23	16	8.1	111	2,830	2,370	1,660
11	548	105	18	0.00	e0.00	26	e17	5.5	230	2,690	2,240	1,590
12	527	97	17	0.00	e0.00	25	e18	3.6	457	2,520	2,120	1,500
13	514	88	16	0.00	e0.00	24	20	2.3	761	2,510	1,930	1,390
14	476	79	14	e0.00	e0.00	23	21	1.3	931	2,400	1,720	1,300
15	475	72	12	e0.00	0.00	21	22	e0.00	1,080	2,320	1,660	1,220
16	481	65	9.7	e0.00	0.00	14	22	e0.00	1,130	2,210	1,580	1,140
17	458	59	8.3	e0.00	0.00	16	21	e0.00	1,250	2,180	1,560	1,080
18	434	55	7.2	e0.00	0.00	41	21	e0.00	1,340	2,090	1,610	1,080
19	424	50	6.4	e0.00	0.00	32	19	0.00	1,340	1,950	1,590	1,010
20	417	46	5.4	e0.00	0.00	22	18	e0.00	1,710	1,790	1,750	1,070
21	409	43	4.6	e0.00	0.00	15	17	e0.00	2,630	1,660	1,680	1,620
22	402	39	4.0	0.00	0.00	10	22	0.00	3,380	1,540	1,540	2,350
23	407	36	3.6	0.00	0.00	7.5	20	0.00	4,340	1,450	1,420	2,320
24	419	33	3.2	0.00	0.00	5.9	18	0.00	4,820	1,360	1,330	1,930
25	415	42	2.9	0.00	0.00	4.4	15	0.00	4,650	1,330	1,250	1,620
26	404	49	2.5	0.00	0.00	3.4	14	e0.00	4,590	1,510	1,240	1,450
27	387	48	2.2	0.00	e0.00	2.6	21	e0.00	4,750	1,590	1,330	1,570
28	385	46	1.9	0.00	e0.00	2.0	31	e0.00	4,880	1,830	1,400	1,560
29	357	42	1.6	e0.00	---	1.3	23	e0.00	4,880	2,000	1,360	1,520
30	335	37	1.3	e0.00	---	e0.00	18	e0.00	4,870	2,090	1,300	1,440
31	312	---	1.1	0.00	---	e0.00	---	e0.00	---	2,050	1,260	---
TOTAL	16,838	2,952	400.9	0.00	0.00	336.41	435.30	221.10	54,389.30	70,040	52,370	46,210
MEAN	543	98.4	12.9	0.00	0.00	10.9	14.5	7.13	1,813	2,259	1,689	1,540
MAX	955	287	34	0.00	0.00	41	31	46	4,880	4,560	2,450	2,350
MIN	312	33	1.1	0.00	0.00	0.00	0.00	0.00	0.00	1,330	1,240	1,010
AC-FT	33,400	5,860	795	0.00	0.00	667	863	439	107,900	138,900	103,900	91,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	880	336	159	130	102	102	39.5	45.1	480	784	926	1,232
MAX	2,623	1,877	1,627	1,312	840	1,499	397	347	2,658	2,830	1,948	3,165
(WY)	(2000)	(1995)	(1995)	(1995)	(1983)	(1970)	(1970)	(1996)	(1969)	(1966)	(1981)	(1960)
MIN	68.7	12.8	0.03	0.00	0.00	0.00	0.00	0.00	6.58	40.0	38.0	341
(WY)	(1962)	(1991)	(1991)	(2005)	(1982)	(1975)	(1961)	(1962)	(2001)	(1980)	(1963)	(1967)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL TOTAL	121,361.25		244,193.01			
ANNUAL MEAN	332		669		420	
HIGHEST ANNUAL MEAN					790	1983
LOWEST ANNUAL MEAN					187	1975
HIGHEST DAILY MEAN	2,590	Aug 8	4,880	Jun 28	6,010	Sep 13, 1960
LOWEST DAILY MEAN	0.00	few days	0.00	many days	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00	few days	0.00	many days	0.00**	
ANNUAL RUNOFF (AC-FT)	240,700		484,400		304,200	
10 PERCENT EXCEEDS	1,290		2,030		1,300	
50 PERCENT EXCEEDS	35		32		98	
90 PERCENT EXCEEDS	1.6		0.00		0.00	

e Estimated

** Many days during the water years 1961,62, 1966, 1970, 1972-77, 1979-83, 1988-2005

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.

02288900 TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

LOCATION.--Lat 25°51'05", long 80°58'50", in SW $^1/_4$ sec.13, T.53 S., R.33 E., Collier County, Hydrologic Unit 03090202, on south bank, 25 ft east of bridge 105 on U.S. Highway 41, and 54 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge only), October 1963 to current year. Prior to October 1963, published as Tamiami Canal at Bridge 105, near Miami (auxiliary). Records of gage height prior to October 1963, are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to February 20, 1952, non-recording gage and February 20, 1952, to May 28, 1952, water-stage recorder, at same site at datum 0.37 ft higher.

REMARKS.--Records poor. Figures of daily discharge consist of runoff from Big Cypress Watershed and from the southern extension of the Levee 28 canal as represented by flow through all 29 bridges from bridge 28 to 22 and bridge 117 to 96. Prior to October 1963, daily discharge for this portion of canal was published as part of the total daily discharge of station, Tamiami Canal Outlets, Miami to Monroe (station 02289000). No NASQAN water quality records collected after September 30, 1993. No peaks above base determined. Zero flow occurs numerous days, during many water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 356 ft^3/s, 257, 900 acre-ft/yr. Figures represent 63 complete water years of discharge (1964-88, 1990-97, 1999-2005). Monthly discharge only, available 1941-63 water years.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 10.01 ft Oct. 20, 1947 (present datum); minimum, 2.65 ft May 26,1974.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 9.03 ft July 10; minimum, 4.69 ft May 31, June 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.57	8.35	8.17	7.67	7.24	6.56	6.85	6.14	4.85	8.94	8.78	8.82
2	8.55	8.35	8.16	7.64	7.22	6.52	6.79	6.09	5.72	8.91	8.75	8.85
3	8.54	8.34	8.15	7.62	7.20	6.50	6.73	6.02	6.78	8.87	8.72	8.96
4	8.53	8.34	8.14	7.60	7.19	6.87	6.67	6.01	6.82	8.86	8.70	8.93
5	8.53	8.33	8.12	7.59	7.18	6.89	6.62	6.29	6.96	8.83	---	8.90
6	8.52	8.33	8.11	7.59	7.15	6.84	6.54	6.32	7.21	8.79	---	8.87
7	8.55	8.32	8.11	7.57	7.13	6.78	6.48	6.24	7.17	8.75	---	8.85
8	8.54	8.31	8.10	7.56	7.10	6.79	7.29	6.13	7.13	8.75	---	8.82
9	8.52	8.30	8.09	7.55	7.08	---	7.53	6.00	7.17	8.99	8.69	8.80
10	8.50	8.30	8.09	7.53	7.06	---	7.54	5.88	7.81	9.01	8.68	8.78
11	8.49	8.29	8.07	7.51	7.04	7.27	7.53	5.76	8.28	8.99	8.69	8.76
12	8.50	8.28	8.06	7.49	7.00	---	7.49	5.64	8.31	8.95	8.68	8.77
13	8.50	8.27	8.04	7.47	6.97	---	7.44	5.52	8.31	8.92	8.69	8.76
14	8.48	8.27	8.03	7.49	6.95	---	7.38	5.45	8.30	8.91	8.67	8.76
15	8.50	8.27	8.00	7.55	6.92	---	7.31	5.37	8.28	8.88	8.65	8.74
16	8.50	8.25	7.97	7.54	6.89	7.06	7.23	5.27	8.26	8.87	8.64	8.72
17	8.48	8.24	7.96	7.52	6.87	7.16	7.14	5.15	8.24	8.90	8.64	8.76
18	8.46	8.24	7.95	7.50	6.85	7.60	7.06	5.04	8.22	8.87	8.62	8.76
19	8.46	8.22	7.94	7.47	6.83	7.58	6.98	4.94	8.21	8.84	8.63	8.75
20	8.46	8.22	7.92	7.46	6.79	7.54	6.91	4.86	8.34	8.80	8.68	8.81
21	8.45	8.21	7.89	7.44	6.75	7.49	6.84	5.04	8.50	8.78	8.74	8.91
22	8.44	8.20	7.87	7.42	6.71	7.45	6.77	5.48	8.51	8.74	8.79	8.89
23	8.43	8.19	7.85	7.42	6.68	7.40	6.72	5.61	8.55	8.71	8.74	8.87
24	8.42	8.19	7.84	7.40	6.64	7.34	6.65	5.55	8.65	8.69	8.74	8.85
25	8.40	8.21	7.83	7.38	6.63	7.30	6.55	5.44	8.68	8.66	8.77	8.82
26	8.39	8.22	7.82	7.36	6.62	7.24	6.46	5.32	8.70	8.66	8.81	8.80
27	8.38	8.21	7.78	7.34	6.61	7.18	6.43	5.19	8.74	8.72	8.87	8.78
28	8.37	8.20	7.75	7.33	6.59	7.13	6.41	5.04	8.91	8.71	8.88	8.77
29	8.36	8.19	7.73	7.31	---	7.05	6.32	4.89	8.98	8.72	8.86	8.79
30	8.35	8.18	7.70	7.29	---	6.98	6.22	4.77	8.96	8.75	8.85	8.79
31	8.35	---	7.69	7.27	---	6.92	---	4.71	---	8.81	8.83	---
TOTAL	262.52	247.82	246.93	231.88	193.89	---	206.88	171.16	237.55	273.58	---	264.44
MEAN	8.47	8.26	7.97	7.48	6.92	---	6.90	5.52	7.92	8.83	---	8.81
MAX	8.57	8.35	8.17	7.67	7.24	---	7.54	6.32	8.98	9.01	---	8.96
MIN	8.35	8.18	7.69	7.27	6.59	---	6.22	4.71	4.85	8.66	---	8.72

02288900 TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,480	866	335	79	47	6.3	16	0.17	0.39	2,900	2,510	2,420
2	1,480	866	302	78	45	5.1	13	0.11	16	2,730	2,420	2,520
3	1,490	830	269	76	44	4.6	11	0.00	19	2,580	2,320	2,990
4	1,530	815	237	76	43	13	8.3	0.31	13	2,500	2,240	2,860
5	1,500	776	210	76	42	11	6.8	5.9	21	2,370	e2,300	2,690
6	1,490	760	185	76	40	9.3	4.7	9.4	35	2,200	e2,300	2,580
7	1,610	718	168	74	38	7.1	3.2	9.2	32	2,060	e2,160	2,480
8	1,550	690	151	73	37	7.2	26	8.0	30	2,020	e2,120	2,390
9	1,480	647	142	72	35	e9.6	29	6.6	32	2,910	2,120	2,300
10	1,410	619	132	70	34	e31	30	5.3	186	2,980	2,100	2,220
11	1,360	586	122	68	32	31	29	4.4	533	2,860	2,100	2,170
12	1,380	563	114	66	30	e27	26	3.4	604	2,700	2,070	2,180
13	1,370	539	107	64	28	e24	24	2.6	603	2,550	2,070	2,140
14	1,290	521	101	66	26	e22	20	2.7	579	2,480	1,990	2,110
15	1,390	500	93	72	24	e20	17	2.9	550	2,350	1,950	2,050
16	1,370	472	91	71	22	18	14	2.4	507	2,340	1,890	2,010
17	1,300	453	91	69	21	26	12	1.6	468	2,480	1,870	2,140
18	1,230	437	91	66	20	59	9.8	0.58	428	2,390	1,810	2,090
19	1,210	420	91	64	18	58	8.2	0.13	411	2,310	1,820	2,060
20	1,190	406	90	63	16	56	6.9	0.00	703	2,220	1,990	2,280
21	1,180	391	88	62	14	52	5.9	1.4	1,210	2,150	2,180	2,660
22	1,170	380	86	60	12	49	4.8	11	1,240	2,080	2,330	2,540
23	1,120	367	86	61	11	46	4.4	17	1,410	2,010	2,160	2,460
24	1,070	362	87	59	9.7	42	3.5	14	1,830	1,950	2,150	2,360
25	1,030	401	88	57	8.9	39	2.2	10	1,920	1,900	2,270	2,250
26	996	405	87	56	8.5	36	1.4	6.4	1,980	1,920	2,430	2,150
27	948	390	84	54	8.0	33	1.4	3.2	2,130	2,120	2,640	2,090
28	915	387	83	53	7.1	30	1.6	0.99	2,790	2,140	2,680	2,070
29	894	364	81	52	---	25	0.86	0.12	3,090	2,210	2,580	2,080
30	896	350	80	50	---	22	0.38	0.00	3,020	2,340	2,550	2,100
31	868	---	79	49	---	19	---	0.00	---	2,590	2,470	---
TOTAL	39,197	16,281	4,051	2,032	721.2	838.2	341.34	129.81	26,390.39	73,340	68,590	69,440
MEAN	1,264	543	131	65.5	25.8	27.0	11.4	4.19	880	2,366	2,213	2,315
MAX	1,610	866	335	79	47	59	30	17	3,090	2,980	2,680	2,990
MIN	868	350	79	49	7.1	4.6	0.38	0.00	0.39	1,900	1,810	2,010
AC-FT	77,750	32,290	8,040	4,030	1,430	1,660	677	257	52,350	145,500	136,000	137,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	864	491	265	193	149	130	73.4	61.9	355	624	734	873
MAX	4,052	3,057	3,369	3,062	1,790	971	437	583	1,707	2,366	2,213	2,315
(WY)	(1996)	(1995)	(1995)	(1995)	(1995)	(1995)	(1983)	(1969)	(1982)	(2005)	(2005)	(2005)
MIN	66.6	26.4	3.80	1.54	0.53	0.00	0.00	0.00	0.01	24.7	29.7	135
(WY)	(1973)	(1975)	(1991)	(1990)	(1985)	(1971)	(1971)	(1967)	(2004)	(2004)	(1987)	(1967)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1964 - 2005
ANNUAL TOTAL	135,009.06	301,351.94	
ANNUAL MEAN	369	826	408
HIGHEST ANNUAL MEAN			1,660 1995
LOWEST ANNUAL MEAN			118 1975
HIGHEST DAILY MEAN	2,240 Sep 6	3,090 Jun 29	7,270 Oct 17, 1999
LOWEST DAILY MEAN	0.00**	0.00*	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.49 Apr 28	0.00**
ANNUAL RUNOFF (AC-FT)	267,800	597,700	295,300
10 PERCENT EXCEEDS	1,200	2,360	1,140
50 PERCENT EXCEEDS	110	142	132
90 PERCENT EXCEEDS	0.06	5.9	1.2

e Estimated

* Many days.

** Many days during water years 1965-67, 1971-77, 1979, 1981, 1982, 1984, 1985, 1988-92, 1999-2002, 2004, 2005.

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.

254754080344300 SHARK RIVER SLOUGH NO. 1 IN CONSERVATION AREA 3B NEAR COOPERTOWN, FL

LOCATION.--Lat 25°47'54", long 80°33'43", in SW $^1/_4$ sec.30, T.53 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, 2.8 mi northwest of Coopertown on east-west ditch in Conservation Area 3B.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to September 1980, October 1982 to current year. Prior to October 1977, published as "Shark Valley Slough No. 1 in Conservation Area 3B near Coopertown."

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Water years 1994 - 1997 were corrected by -0.02 ft, due to levels. Water years 1998 and 1999 were corrected by -0.03 ft, due to levels. Corrected data are in the files of the U.S. Geological Survey.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.76 ft Oct. 15, 1999; minimum, 3.95 ft May 23, 1990.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.76 ft Sept. 11; minimum, 6.82 ft May 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.78	8.02	7.76	7.44	7.26	7.07	7.07	6.87	7.14	8.21	8.31	8.57
2	7.79	8.02	7.75	7.43	7.25	7.06	7.07	6.85	7.20	8.21	8.30	8.63
3	7.80	8.01	7.74	7.42	7.24	7.05	7.09	6.89	7.25	8.20	8.27	8.62
4	7.81	8.01	7.72	7.41	7.24	7.11	7.07	7.02	7.31	8.19	8.26	8.62
5	7.81	8.00	7.71	7.40	7.24	7.11	7.06	7.10	7.32	8.18	8.25	8.61
6	7.81	7.99	7.71	7.39	7.23	7.10	7.04	7.11	7.34	8.16	8.26	8.59
7	7.83	7.99	7.69	7.39	7.22	7.08	7.03	7.11	7.37	8.15	8.30	8.57
8	7.84	7.98	7.69	7.37	7.22	7.08	7.18	7.10	7.43	8.16	8.34	8.55
9	7.83	7.97	7.68	7.36	7.21	7.10	7.20	7.08	7.43	8.45	8.34	8.52
10	7.83	7.96	7.67	7.35	7.20	7.15	7.19	7.07	7.60	8.54	8.34	8.52
11	7.82	7.95	7.66	7.34	7.19	7.14	7.18	7.04	7.68	8.57	8.33	8.63
12	7.82	7.95	7.65	7.33	7.19	7.13	7.16	7.03	7.71	8.57	8.35	8.70
13	7.82	7.94	7.63	7.32	7.18	7.12	7.15	7.02	7.69	8.57	8.41	8.67
14	7.82	7.93	7.62	7.33	7.17	7.11	7.14	7.01	7.68	8.57	8.43	8.65
15	7.88	7.92	7.60	7.39	7.17	7.11	7.13	6.99	7.65	---	8.50	8.63
16	7.89	7.91	7.59	7.40	7.16	7.10	7.11	6.99	7.63	8.56	8.45	8.60
17	7.88	7.90	7.58	7.39	7.15	7.11	7.09	6.98	7.63	8.55	8.42	8.60
18	7.88	7.89	7.57	7.37	7.15	7.20	7.08	6.97	7.66	8.53	8.39	8.61
19	7.88	7.88	7.56	7.36	7.14	7.20	7.06	6.95	7.73	8.52	8.37	8.59
20	7.91	7.87	7.55	7.34	7.13	7.19	7.05	6.94	7.89	8.51	8.34	8.61
21	8.05	7.86	7.53	7.33	7.12	7.18	7.04	6.93	8.06	8.48	8.32	8.63
22	8.06	7.84	7.52	7.32	7.11	7.17	7.02	6.93	8.07	8.46	8.32	8.62
23	8.07	7.83	7.51	7.31	7.10	7.17	7.00	6.97	8.11	8.43	8.37	8.61
24	8.07	7.82	7.51	7.30	7.10	7.16	6.99	6.95	8.12	8.41	8.38	8.59
25	8.07	7.82	7.50	7.29	7.09	7.16	6.97	6.93	8.10	8.39	8.39	8.57
26	8.06	7.82	7.49	7.28	7.09	7.14	6.95	6.91	8.10	8.37	8.60	8.58
27	8.05	7.81	7.47	7.27	7.08	7.14	6.94	6.89	8.11	8.37	8.64	8.60
28	8.05	7.80	7.46	7.27	7.08	7.13	6.93	6.87	8.12	8.36	8.63	8.61
29	8.04	7.78	7.45	7.27	---	7.11	6.91	6.85	8.13	8.35	8.61	8.60
30	8.03	7.77	7.44	7.27	---	7.10	6.89	6.90	8.14	8.34	8.59	8.59
31	8.03	---	7.44	7.26	---	7.09	---	7.06	---	8.33	8.57	---
TOTAL	245.31	237.24	235.45	227.70	200.71	220.87	211.79	216.31	231.40	---	260.38	258.09
MEAN	7.91	7.91	7.60	7.35	7.17	7.12	7.06	6.98	7.71	---	8.40	8.60
MAX	8.07	8.02	7.76	7.44	7.26	7.20	7.20	7.11	8.14	---	8.64	8.70
MIN	7.78	7.77	7.44	7.26	7.08	7.05	6.89	6.85	7.14	---	8.25	8.52

261533080571600 L-28 INTERCEPTOR CANAL BELOW S-190 NEAR CLEWISTON, FL

LOCATION.--Lat 26°15'33", long 80°57'16", in SW $^1/_4$ sec.32, T.48 S., R.34 E., Hendry County, Hydrologic Unit 03090202, on east bank of Levee 28 Interceptor canal, 500 ft upstream from the northern boundary of Big Cypress National Preserve and inside the southern boundary of the Big Cypress Seminole Indian Reservation, 3.3 mi south of State Road 833, 4.6 mi west of the intersection of the Hendry, Collier and Broward county lines, 6.6 mi north of U.S. Interstate 75, and 33 mi south of Clewiston.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage shaft encoder and acoustic Doppler velocity meter provided by the U.S. Geological Survey. Acoustic velocity meter prior to January 1, 2001. Electronic data logger with cellular phone/radio telemetry provided by South Florida Water Management District. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for daily discharges below 100 cfs and estimated discharges, which are poor. Flow affected by levee and control structure S-190 about 2 mi upstream. Flow is positive to the south.

COOPERATION.--Seminole Tribe of Florida.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1998-2001, 2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.85 ft July 9, 2005; minimum, 9.13 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 13.85 ft July 9; minimum, 10.33 ft May 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.28	11.81	11.21	11.05	10.87	10.56	11.12	10.65	10.58	13.13	12.37	12.45
2	12.17	11.72	11.21	11.05	10.86	10.54	11.07	10.60	10.70	13.00	12.32	12.50
3	12.20	11.68	11.17	11.04	10.85	10.53	11.03	10.60	10.84	12.83	12.28	12.92
4	12.09	11.77	11.15	11.03	10.82	10.59	11.01	10.68	11.04	12.74	12.31	12.88
5	12.09	11.64	11.14	11.08	10.79	10.60	11.00	10.89	11.42	12.62	12.37	12.78
6	12.03	11.57	11.14	11.10	10.80	10.60	10.99	10.89	11.60	12.55	12.34	12.81
7	12.06	11.55	11.14	11.10	10.79	10.61	10.98	10.91	11.69	12.47	12.34	12.77
8	12.11	11.53	11.12	11.07	10.78	10.61	11.08	10.90	11.76	12.46	12.39	12.67
9	12.02	11.50	11.13	11.05	10.78	10.67	11.08	10.90	11.84	13.46	12.38	12.59
10	12.04	11.50	11.11	11.04	10.75	10.83	11.07	10.88	12.11	13.65	12.32	12.49
11	12.03	11.48	11.10	11.04	10.71	10.88	11.06	10.86	12.30	13.32	12.32	12.38
12	11.99	11.47	11.07	11.03	10.71	11.13	11.04	10.83	12.27	13.17	12.36	12.31
13	11.93	11.44	11.07	11.04	10.73	11.18	11.02	10.80	12.15	13.12	12.28	12.28
14	11.96	11.40	11.03	11.04	10.72	11.11	10.99	10.78	12.03	13.04	12.24	12.18
15	11.95	11.39	10.98	11.03	10.70	11.09	10.94	10.76	11.95	12.92	12.68	12.10
16	11.91	11.36	10.99	11.01	10.68	11.11	10.91	10.77	11.94	12.84	12.74	12.10
17	11.95	11.34	10.99	10.98	10.66	11.17	10.87	10.77	11.95	13.10	12.55	12.12
18	11.91	11.32	10.99	10.96	10.63	11.45	10.87	10.75	11.79	13.04	12.41	12.05
19	11.92	11.32	10.97	10.97	10.62	11.47	10.87	10.72	11.80	12.97	12.37	12.02
20	11.87	11.31	10.96	10.97	10.62	11.42	10.87	10.69	12.05	12.85	12.30	12.08
21	12.08	11.29	10.97	10.97	10.61	11.37	10.84	10.66	12.15	12.74	12.30	12.18
22	12.05	11.28	10.98	10.98	10.58	11.41	10.84	10.65	12.14	12.62	12.18	12.10
23	12.01	11.28	10.97	10.95	10.58	11.34	10.81	10.63	12.34	12.55	12.20	12.10
24	11.98	11.27	10.97	10.92	10.56	11.30	10.76	10.59	12.76	12.48	12.29	12.03
25	11.93	11.25	10.99	10.92	10.57	11.39	10.75	10.55	13.22	12.39	12.29	12.04
26	11.91	11.21	10.96	10.92	10.58	11.25	10.74	10.52	13.03	12.40	12.54	11.98
27	11.91	11.22	10.93	10.91	10.61	11.22	10.72	10.49	13.02	12.35	12.48	11.99
28	11.82	11.20	10.97	10.91	10.58	11.35	10.71	10.45	13.26	12.26	12.78	12.01
29	11.86	11.19	11.00	10.91	---	11.25	10.70	10.42	13.22	12.27	12.75	12.14
30	11.78	11.19	10.99	10.89	---	11.18	10.70	10.41	13.18	12.28	12.68	12.17
31	11.77	---	11.03	10.87	---	11.15	---	10.48	---	12.30	12.52	---
TOTAL	371.61	342.48	342.43	340.83	299.54	342.36	327.44	331.48	362.13	395.92	384.68	369.22
MEAN	11.99	11.42	11.05	10.99	10.70	11.04	10.91	10.69	12.07	12.77	12.41	12.31
MAX	12.28	11.81	11.21	11.10	10.87	11.47	11.12	10.91	13.26	13.65	12.78	12.92
MIN	11.77	11.19	10.93	10.87	10.56	10.53	10.70	10.41	10.58	12.26	12.18	11.98

261533080571600 L-28 INTERCEPTOR CANAL BELOW S-190 NEAR CLEWISTON, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	35	28	1.8	18	30	-20	-10	21	853	244	317
2	248	-1.5	5.9	26	12	26	28	53	22	589	270	402
3	306	-10	21	26	8.9	17	35	19	16	368	214	811
4	204	65	22	10	22	20	20	-5.8	111	251	284	694
5	227	6.4	6.1	20	8.8	35	-6.9	-13	129	207	330	576
6	130	3.0	-24	1.5	19	44	17	42	209	193	282	662
7	134	14	-19	-1.8	14	1.7	-1.8	19	278	181	317	580
8	213	18	-9.8	22	30	26	43	7.6	292	205	342	541
9	e93	23	-19	20	3.5	17	66	1.2	334	1,100	343	475
10	---	-5.3	-21	4.3	45	34	4.3	17	457	1,330	310	358
11	---	-6.0	50	6.0	26	1.7	-15	11	558	1,100	283	298
12	---	-8.2	26	21	38	114	-8.3	11	602	944	341	194
13	e100	20	41	36	6.1	14	36	12	517	868	278	274
14	102	17	29	15	-2.2	42	68	4.1	370	753	255	160
15	84	14	1.1	8.6	-8.4	21	29	11	365	650	707	131
16	30	7.2	25	11	24	-67	21	24	346	603	647	180
17	85	14	22	14	50	89	20	28	354	905	503	122
18	45	10	37	13	56	109	15	30	167	833	400	90
19	2.9	-9.0	36	35	4.1	157	-20	-0.91	222	753	367	85
20	-0.70	-3.0	13	33	0.07	131	-13	4.4	284	623	321	149
21	219	7.1	7.5	41	-16	-8.1	18	35	357	566	307	138
22	141	9.9	20	14	9.0	78	8.6	43	338	460	262	141
23	118	-6.9	-7.7	32	4.9	-9.2	41	38	526	419	276	111
24	82	-13	6.6	24	-22	116	55	67	914	346	385	125
25	82	27	26	46	29	-19	23	65	1,260	276	341	160
26	25	16	30	43	28	24	-42	25	964	323	375	81
27	82	-6.6	11	29	-26	-45	27	9.6	933	292	376	167
28	7.8	20	21	26	55	113	21	8.5	1,180	216	623	127
29	61	11	16	0.69	---	28	-29	10	1,090	262	599	236
30	16	-4.9	14	-4.6	---	15	1.0	-23	971	170	516	129
31	60	---	0.02	41	---	-23	---	7.7	---	183	410	---
TOTAL	---	263.2	414.72	614.49	436.77	1,132.1	440.9	550.39	14,187	16,822	11,508	8,514
MEAN	---	8.77	13.4	19.8	15.6	36.5	14.7	17.8	473	543	371	284
MAX	---	65	50	46	56	157	68	67	1,260	1,330	707	811
MIN	---	-13	-24	-4.6	-26	-67	-42	-23	16	170	214	81
AC-FT	---	522	823	1,220	866	2,250	875	1,090	28,140	33,370	22,830	16,890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	282	65.3	32.0	1.33	14.7	13.1	-5.14	-6.48	93.5	138	251	282
MAX	536	302	164	80.6	108	105	14.7	17.8	473	543	741	562
(WY)	(2001)	(1999)	(1998)	(1998)	(1998)	(1998)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	42.5	0.69	-49.7	-53.5	-39.2	-35.3	-29.3	-30.2	-18.9	-16.5	10.3	37.6
(WY)	(1998)	(2001)	(1997)	(2000)	(1997)	(1997)	(1997)	(2000)	(2000)	(1998)	(2000)	(2000)

SUMMARY STATISTICS	WATER YEARS 1997 - 2005	
ANNUAL MEAN	90.5	
HIGHEST ANNUAL MEAN	159	2004
LOWEST ANNUAL MEAN	38.6	2000
HIGHEST DAILY MEAN	2,050	Oct 5, 2000
LOWEST DAILY MEAN	-135	Jan 18, 2000
ANNUAL SEVEN-DAY MINIMUM	-91	Jan 17, 2000
ANNUAL RUNOFF (AC-FT)	65,570	
10 PERCENT EXCEEDS	288	
50 PERCENT EXCEEDS	15	
90 PERCENT EXCEEDS	-41	

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.

261543080495000 L28 CANAL ABOVE S-140 NEAR CLEWISTON, FL

LOCATION.--Lat 26°15'43", long 80°49'50", in SW $^1/_4$ sec. 34, T.48 S., R.35 E., Broward County, Hydrologic Unit 03090202, Florida, on east bank, 500 ft upstream from the northern boundary of the Miccosukee Tribe of Florida and inside the southern boundary of the Big Cypress Seminole Indian Reservation, 3.1 mi east of the intersection of the Broward, Collier and Hendry county lines, 6.0 mi north of Pump Station S-140, 6.9 mi north of U.S. Interstate 75, and 33 mi south of Clewiston on the Levee 28 canal.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1997 to current year.

GAGE.--Electronic data logger with water-stage shaft encoder and acoustic velocity meter with cellular phone/radio telemetry provided by South Florida Management District. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for discharge below 100 cfs and estimated discharges, which are poor. Flow affected by G-89 and U.S. Sugar Outfall (USSO) culvert structures upstream and pump structure S-140 downstream. Positive flow is to the south. Discharge computed from continuous velocity record obtained from acoustic velocity meter and relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--Seminole Tribe of Florida.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1998-2000, 2002, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.06 ft Oct. 16, 1999; minimum, 7.84 ft Mar. 7, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.46 ft Aug. 15; minimum, 8.61 ft Oct. 9, Nov. 8, 12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.80	9.36	10.27	10.85	10.57	10.68	9.65	10.65	10.46	10.20	10.11	10.01
2	9.76	9.90	10.42	10.83	10.57	10.65	9.81	10.63	10.53	9.97	9.96	9.96
3	9.40	9.86	10.49	10.57	10.57	10.66	9.48	10.65	10.47	9.99	10.02	10.02
4	9.26	9.83	10.55	10.70	10.55	10.70	9.65	10.89	10.07	10.09	9.80	9.96
5	9.58	9.48	10.56	10.77	10.53	10.65	10.18	9.71	9.64	10.11	9.68	10.02
6	9.59	9.73	10.58	10.80	10.54	10.57	9.77	9.57	10.29	9.99	9.77	10.07
7	9.47	10.19	10.63	10.81	10.53	10.53	9.87	9.68	10.21	10.01	9.69	10.04
8	9.34	9.50	10.62	10.81	10.53	10.52	9.86	10.20	9.61	10.03	9.60	9.99
9	9.23	9.76	10.63	10.80	10.61	10.64	10.25	10.14	9.64	10.41	9.89	10.0
10	9.53	9.50	10.65	10.80	10.66	10.37	10.64	10.42	9.72	10.19	9.85	9.88
11	9.70	9.63	10.67	10.81	10.67	10.16	10.06	10.72	9.95	10.22	10.41	9.81
12	9.65	9.36	10.67	10.81	10.69	9.96	10.18	10.80	10.23	10.37	10.22	9.54
13	9.61	9.52	10.67	10.82	10.70	9.59	10.54	10.09	9.87	10.13	10.12	9.65
14	9.66	9.95	10.67	10.72	10.71	10.11	10.18	10.17	9.67	10.08	10.15	9.75
15	9.65	9.54	10.64	10.81	10.71	10.63	9.58	10.53	9.90	10.06	10.60	10.06
16	9.53	9.69	10.65	10.77	10.71	10.79	9.68	10.70	9.75	10.12	10.48	9.88
17	9.38	9.39	10.67	10.73	10.71	9.86	10.13	10.0	9.83	10.04	10.00	9.81
18	9.40	9.51	10.69	10.71	10.69	9.57	10.36	10.01	9.85	10.04	9.99	9.70
19	9.53	9.36	10.68	10.72	10.70	9.50	10.52	10.38	9.71	10.10	9.87	9.72
20	9.56	9.53	10.66	10.71	10.71	9.40	10.60	9.77	9.99	9.98	10.01	10.07
21	9.61	9.91	10.67	10.70	10.71	10.04	10.64	9.75	9.87	10.06	9.99	10.23
22	9.53	9.64	10.69	10.69	10.70	10.02	10.66	10.12	9.94	9.93	9.96	9.96
23	9.49	9.84	10.73	10.65	10.70	9.69	10.66	10.32	10.07	9.82	9.94	9.85
24	9.39	9.48	10.73	10.62	10.72	9.66	10.65	10.46	10.15	9.64	9.76	9.71
25	9.50	9.48	10.74	10.62	10.73	9.52	10.64	10.51	10.30	9.38	9.75	9.49
26	9.67	9.86	10.74	10.62	10.72	10.00	10.64	10.53	10.10	9.94	9.89	9.41
27	9.62	10.14	10.71	10.62	10.73	9.80	10.68	10.59	9.95	10.57	10.07	9.89
28	9.40	10.28	10.75	10.62	10.70	9.54	10.69	10.59	10.16	10.39	9.97	10.12
29	9.23	9.98	10.75	10.63	---	9.90	10.69	10.56	10.34	10.29	10.02	10.38
30	9.74	10.03	10.76	10.61	---	9.69	10.68	10.59	10.23	10.28	9.98	10.25
31	9.52	---	10.82	10.57	---	9.87	---	10.11	---	10.39	9.79	---
TOTAL	295.33	291.23	330.16	332.30	298.37	313.27	307.62	319.84	300.50	312.82	309.34	297.23
MEAN	9.53	9.71	10.65	10.72	10.66	10.11	10.25	10.32	10.02	10.09	9.98	9.91
MAX	9.80	10.28	10.82	10.85	10.73	10.79	10.69	10.89	10.53	10.57	10.60	10.38
MIN	9.23	9.36	10.27	10.57	10.53	9.40	9.48	9.57	9.61	9.38	9.60	9.41

261543080495000 L28 CANAL ABOVE S-140 NEAR CLEWISTON, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	83	19	9.4	32	20	149	41	63	526	368	371
2	242	68	29	-30	48	27	59	38	128	508	309	355
3	221	100	17	22	59	41	100	11	173	471	277	400
4	200	89	9.7	12	62	67	48	119	298	429	267	394
5	191	90	10	40	37	42	95	221	213	413	255	395
6	191	22	53	81	19	42	143	94	294	396	253	400
7	188	1.5	81	64	26	84	71	102	370	376	227	396
8	164	84	16	29	16	76	141	41	348	361	237	396
9	154	27	42	-0.02	59	74	56	123	331	552	281	377
10	150	92	45	-5.4	54	132	20	111	352	556	307	359
11	140	22	14	52	29	147	95	107	411	497	374	298
12	164	89	17	80	12	132	101	71	460	479	350	243
13	136	29	-5.9	71	46	128	91	102	448	468	302	316
14	135	8.4	15	68	48	106	102	59	379	461	334	257
15	128	82	12	56	69	86	105	58	349	425	483	286
16	109	24	4.2	56	56	118	40	61	349	405	500	234
17	100	82	21	46	37	150	32	85	283	382	459	226
18	98	12	9.6	47	15	138	6.4	-9.9	301	391	506	189
19	126	75	7.0	51	6.2	111	47	-6.8	280	346	490	170
20	106	47	11	52	45	132	59	73	283	348	483	222
21	133	33	8.8	36	67	96	29	33	318	315	513	294
22	111	85	63	69	33	145	15	29	280	285	462	249
23	96	49	87	51	65	136	53	25	346	268	427	235
24	91	81	65	32	45	136	10	46	388	251	435	216
25	71	21	11	16	42	143	-10	42	429	219	427	178
26	102	17	20	42	30	117	47	13	454	219	399	166
27	77	37	18	41	47	154	44	27	455	278	431	204
28	88	2.5	20	14	26	e123	16	46	487	270	462	223
29	88	67	8.5	61	---	e47	62	26	611	257	392	281
30	25	17	13	107	---	115	67	68	561	212	440	321
31	79	---	27	48	---	125	---	118	---	210	413	---
TOTAL	4,186	1,536.4	767.9	1,317.98	1,130.2	3,190	1,893.4	1,973.3	10,442	11,574	11,863	8,651
MEAN	135	51.2	24.8	42.5	40.4	103	63.1	63.7	348	373	383	288
MAX	282	100	87	107	69	154	149	221	611	556	513	400
MIN	25	1.5	-5.9	-30	6.2	20	-10	-9.9	63	210	227	166
AC-FT	8,300	3,050	1,520	2,610	2,240	6,330	3,760	3,910	20,710	22,960	23,530	17,160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	217	96.1	46.9	36.0	45.9	44.1	21.4	28.0	156	199	223	214
MAX	495	287	140	67.0	102	125	63.1	98.6	348	407	402	324
(WY)	(2000)	(1999)	(1998)	(1998)	(1998)	(1998)	(2005)	(1997)	(2005)	(2002)	(2004)	(1999)
MIN	59.3	9.04	2.72	-3.51	-7.12	-10.2	0.98	-9.62	3.17	59.4	49.6	115
(WY)	(1998)	(1998)	(2001)	(2000)	(2000)	(1997)	(2000)	(2001)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	58,525.18			
ANNUAL MEAN	160		111	
HIGHEST ANNUAL MEAN			160	2005
LOWEST ANNUAL MEAN			71.3	2000
HIGHEST DAILY MEAN	611	Jun 29	853	Oct 5, 2000
LOWEST DAILY MEAN	-30	Jan 2	-77	Apr 24, 2002
ANNUAL SEVEN-DAY MINIMUM	8.8	Dec 29	-37	May 8, 2001
ANNUAL RUNOFF (AC-FT)	116,100		80,240	
10 PERCENT EXCEEDS	407		322	
50 PERCENT EXCEEDS	95		65	
90 PERCENT EXCEEDS	16		-9.4	

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.

02289031 LEVEE 3 CANAL BELOW STRUCTURE G-155, NEAR CLEWISTON, FL

LOCATION.--Lat 26°19'48", long 80°52'48", in NW $\frac{1}{4}$ sec.7, T.48 S., R.35 E., Broward County, Hydrologic Unit 03090202, approximately 1,050 ft downstream, due east of structure G-155, 3.0 mi northeast of Snake Road, and 35 mi south of Clewiston.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May to August 1992 (gage heights only), September 1992 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. The satellite data collection platform with water-stage shaft encoder and acoustic velocity meter were used until January 17, 2002, when it was removed. The acoustic Doppler velocity meter was installed September 25, 2001. The acoustic velocity meter and acoustic Doppler velocity meter were run in tandem for the period of September 25, 2001 to January 17, 2002. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow affected by structure activity at G-155 and by agricultural pumping. Gage height records revised May 1992 through September 1994, based upon new elevation for BM L-4-6 from 22.578 ft to 22.543 ft. Discharge was not revised. Revised records are available in the files of the U.S. Geological Survey. The elevation of BM L-4-6 was revised by South Florida Water Management for a second time, elevation is now 22.380 ft. Gage height records for the 1992 - 1994 water years require an adjustment of + 0.16 ft due to the revised elevation of BM L-4-6. Gage height records for the 1995 - 1996 water years require an adjustment of + 0.19 ft also due to the revised elevation of BM L-4-6.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 3 complete water year of discharge (1997, 2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.56 ft Nov. 8, 1998; minimum, 7.75 ft May 17, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.81 ft Oct. 3, July 12,13; minimum, 10.48 ft May 2.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.29	12.83	12.22	12.38	12.32	12.69	12.86	10.80	11.52	14.53	14.24	14.30
2	14.28	12.83	12.21	12.31	12.71	13.46	12.82	10.60	11.69	14.54	14.08	14.22
3	14.22	12.80	12.24	12.21	13.19	13.54	12.74	10.85	11.83	14.53	14.08	14.26
4	13.85	12.76	12.31	11.96	13.28	13.64	12.65	11.22	12.05	14.51	14.10	14.29
5	13.72	12.77	12.24	12.22	13.25	13.67	12.65	11.29	12.14	14.49	14.11	14.23
6	13.51	12.73	12.27	12.16	13.28	13.68	12.58	11.24	12.24	14.50	14.18	14.13
7	13.42	12.67	12.28	12.13	13.25	13.62	12.46	---	12.58	14.54	14.37	13.73
8	13.34	12.63	12.26	11.90	13.24	13.66	12.54	11.19	13.24	14.40	14.34	13.68
9	13.59	12.58	12.23	11.92	13.22	13.72	12.51	11.31	13.56	14.48	14.07	13.65
10	14.10	12.53	12.26	11.83	13.29	13.64	12.44	11.72	13.64	14.72	14.18	13.55
11	14.07	12.48	12.27	11.64	13.27	13.27	12.36	11.70	13.71	14.76	14.48	13.54
12	14.08	12.46	12.19	11.79	13.26	13.20	12.27	11.69	13.83	14.79	14.46	13.98
13	14.14	12.43	12.01	11.80	13.33	13.14	12.22	11.69	13.87	14.80	14.49	14.09
14	14.06	12.44	12.14	11.86	13.22	13.06	12.18	11.59	13.89	14.78	---	14.16
15	14.03	12.53	12.16	11.91	12.84	12.82	12.14	11.69	13.89	---	---	14.17
16	14.02	---	12.23	11.91	12.76	12.66	12.07	11.63	13.92	14.67	---	14.13
17	14.04	12.03	12.28	11.90	12.67	12.60	---	11.71	13.92	14.54	---	---
18	13.91	11.75	12.19	12.54	12.74	12.94	11.99	11.63	13.91	14.45	---	14.41
19	13.44	---	11.83	13.65	12.67	13.06	11.97	11.57	13.90	14.41	14.18	14.38
20	13.26	---	---	13.52	12.62	13.11	11.95	11.51	13.87	14.31	14.30	14.35
21	13.27	---	---	12.90	12.57	13.07	11.93	11.50	13.72	14.18	14.36	14.40
22	13.21	---	11.78	12.60	12.51	13.05	11.91	11.46	13.77	14.13	14.22	14.43
23	13.12	12.19	11.99	12.42	12.47	13.04	11.88	11.43	13.80	14.19	14.16	14.45
24	13.05	12.25	11.98	12.47	12.31	13.11	11.86	11.39	13.88	14.41	14.16	14.57
25	13.01	12.31	11.98	12.39	12.38	13.09	11.83	11.35	13.97	14.45	14.02	14.62
26	13.42	12.35	11.97	12.39	12.37	13.05	11.89	11.33	14.02	14.45	13.55	14.54
27	13.45	12.34	11.78	12.43	12.35	13.03	12.08	11.24	14.07	14.45	13.55	14.48
28	13.15	12.36	11.67	12.39	12.44	12.99	12.06	11.33	14.21	14.28	14.19	14.38
29	13.00	12.35	12.01	12.41	---	12.97	11.74	11.36	14.46	14.16	14.23	14.07
30	12.91	12.26	12.56	12.39	---	12.92	11.25	11.40	14.49	14.24	14.30	14.26
31	12.86	---	12.47	12.25	---	12.89	---	11.44	---	14.31	14.33	---
TOTAL	421.82	---	---	380.58	359.81	408.39	---	---	403.59	---	---	---
MEAN	13.61	---	---	12.28	12.85	13.17	---	---	13.45	---	---	---
MAX	14.29	---	---	13.65	13.33	13.72	---	---	14.49	---	---	---
MIN	12.86	---	---	11.64	12.31	12.60	---	---	11.52	---	---	---

02289031 LEVEE 3 CANAL BELOW STRUCTURE G-155, NEAR CLEWISTON, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	45	24	e-16	11	e-30	85	3.6	15	647	119	83
2	346	46	29	e-18	e-11	9.7	62	9.1	26	643	60	55
3	309	46	e-6.3	e-19	5.5	25	41	16	29	624	41	82
4	156	59	e-8.5	e-32	7.6	40	46	20	37	621	54	100
5	144	46	e-3.9	e-6.3	3.5	27	40	22	34	605	79	114
6	72	37	e-2.1	e-2.3	e-2.7	40	44	22	36	644	142	133
7	63	39	e-0.87	e-1.9	e-6.0	26	38	e14	91	652	258	119
8	60	40	1.7	e-6.5	e-10	39	32	28	200	476	296	151
9	27	37	e-3.3	e-10	11	57	32	29	288	528	315	146
10	47	18	e-13	e-15	9.2	83	33	34	289	740	270	90
11	71	30	e-0.22	e-5.0	e-2.2	63	36	25	331	770	249	45
12	77	41	e-1.4	e-5.4	e-3.6	44	36	18	398	766	213	27
13	39	35	e-5.4	e-0.14	7.5	37	35	8.2	398	754	147	37
14	38	25	e-13	24	32	49	33	e-10	398	722	e68	32
15	50	28	e-11	34	11	31	24	e-10	395	e690	e123	69
16	44	e-4.6	e-10	37	6.8	8.5	30	e-0.48	394	609	e104	63
17	47	6.6	e-9.2	33	e-7.2	36	e28	e-7.4	381	526	e82	e93
18	77	-3.3	1.5	e-27	1.5	57	23	e-16	366	490	e59	129
19	70	e11	17	8.6	e-4.5	69	23	e-14	348	477	70	126
20	43	e25	e-12	20	7.9	87	29	13	286	405	30	109
21	47	e26	e-10	27	20	105	32	20	233	360	49	136
22	59	e27	e-5.6	4.9	e-3.3	118	28	20	286	360	68	125
23	54	35	33	1.7	0.81	74	26	16	277	335	73	142
24	57	37	29	9.6	-23	86	38	23	324	320	56	144
25	43	39	31	5.7	e-0.91	85	39	29	389	313	76	143
26	23	34	43	e-3.6	e-3.2	63	e-1.6	22	393	329	63	140
27	42	33	e-8.3	e-7.2	e-8.3	65	e-7.3	-19	403	306	39	118
28	51	29	e-48	e-5.7	e-4.0	58	e-7.1	-23	513	146	116	155
29	49	24	e-33	9.5	---	33	17	-14	647	68	129	133
30	46	25	e-16	0.19	---	37	10	-11	643	101	134	113
31	34	---	e-10	6.0	---	75	---	-11	---	93	130	---
TOTAL	2,648	915.7	-21.89	40.15	45.40	1,597.2	924.0	256.02	8,848	15,120	3,712	3,152
MEAN	85.4	30.5	-0.71	1.30	1.62	51.5	30.8	8.26	295	488	120	105
MAX	363	59	43	37	32	118	85	34	647	770	315	155
MIN	23	-4.6	-48	-32	-23	-30	-7.3	-23	15	68	30	27
AC-FT	5,250	1,820	-43	80	90	3,170	1,830	508	17,550	29,990	7,360	6,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	207	58.7	33.2	21.3	48.3	52.0	17.3	20.9	96.0	196	207	257
MAX	594	181	189	78.8	272	351	36.6	94.2	295	605	486	491
(WY)	(2000)	(1995)	(1998)	(1998)	(1998)	(1998)	(2003)	(1997)	(2005)	(1999)	(1998)	(1994)
MIN	30.9	-2.04	-20.6	-7.67	-7.05	-11.2	-9.36	-7.25	3.43	46.3	43.6	65.4
(WY)	(1993)	(1998)	(1997)	(1997)	(1999)	(1999)	(1999)	(2004)	(1999)	(1993)	(2001)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	23,182.10		37,236.58			
ANNUAL MEAN	63.3		102		94.4	
HIGHEST ANNUAL MEAN					114	1997
LOWEST ANNUAL MEAN					67.8	2004
HIGHEST DAILY MEAN	510	Sep 9	770	Jul 11	1,040	Jun 25, 1996
LOWEST DAILY MEAN	-65	Jan 27	-48	Dec 28	-65	Jan 27, 2004
ANNUAL SEVEN-DAY MINIMUM	-22	May 26	-23	Dec 28	-41	Dec 23, 2003
ANNUAL RUNOFF (AC-FT)	45,980		73,860		68,420	
10 PERCENT EXCEEDS	200		353		321	
50 PERCENT EXCEEDS	32		37		35	
90 PERCENT EXCEEDS	-12		-7.2		-12	

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.

02289032 LEVEE 4 BELOW STRUCTURE G-88, NEAR CLEWISTON, FL

LOCATION.--Lat 26°19'52", long 80°52'48", in NW ¼ sec.7, T.48 S., R.35 E., Broward County, Hydrologic Unit 03090202, approximately 1,050 ft below structure G-88, 3.0 mi northeast of Snake Road and 35 mi south of Clewiston.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May to July 1992 (gage height only), August 1992 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to October 18, 2001, satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Acoustic Doppler velocity meter installed January 10, 2001. The acoustic velocity meter and acoustic Doppler velocity meter were run in tandem for the period of January 10, 2001 to October 18, 2001. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by operation of G-88, pump station S-8, and by agricultural pumping. Flow reversal occurs at times, during agricultural activity. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Gage height records revised -0.04 ft May 1992 through September 1994, based upon revised elevation for BM L-4-6 from 22.578 ft to 22.543 ft. Discharge was not revised. Revised records are available in the files of the U.S. Geological Survey. The elevation of BM L-4-6 was revised by South Florida Water Management for a second time, elevation is now 22.380 ft. Gage height records for the 1992 - 1994 water years are now in error +0.21 ft in the files of the U.S. Geological Survey due to the revised elevation of BM L-4-6. Gage height records for the 1995-1996 water years are now in error +0.25 ft in the files of the U.S. Geological Survey due to the revised elevation of BM L-4-6.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1994, 1996-97, 2001-2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.72 ft July 12, 2002; minimum, 8.11 ft May 17, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.69 ft July 12; minimum, 10.39 ft May 2.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.24	12.77	12.16	12.34	12.29	12.66	e12.78	10.72	11.44	14.40	14.14	14.18
2	14.23	12.77	12.16	12.27	12.66	13.42	e12.75	e10.52	11.62	14.41	13.99	14.11
3	14.17	12.75	12.19	12.17	13.15	13.50	e12.68	e10.77	11.76	14.41	13.99	14.15
4	13.80	12.71	12.26	11.92	13.24	13.61	e12.56	11.16	e11.97	14.39	14.00	14.18
5	13.65	12.69	---	12.18	13.21	13.64	e12.57	11.71	e12.06	14.36	14.01	14.11
6	13.45	12.66	---	12.12	13.24	13.65	12.53	11.78	e12.17	14.36	e14.08	14.01
7	13.36	12.60	---	12.09	13.21	13.59	12.42	e11.79	e12.51	14.40	14.27	13.61
8	13.28	12.56	---	11.85	13.20	13.63	12.49	e11.78	e13.14	14.29	14.24	13.57
9	13.53	12.51	e12.17	11.87	13.18	13.69	12.47	11.78	13.47	14.37	13.97	13.54
10	14.03	12.46	12.20	11.78	e13.25	13.61	12.40	11.76	13.55	14.58	14.06	13.44
11	13.99	12.42	12.21	11.60	13.23	13.25	12.32	11.73	e13.61	14.63	14.34	13.43
12	14.01	12.40	12.13	11.74	13.22	13.18	12.22	11.74	13.73	14.65	14.32	13.86
13	14.07	12.37	11.95	11.75	13.28	13.12	12.18	e11.68	e13.77	e14.67	14.35	13.97
14	13.99	12.38	12.07	11.82	13.18	13.03	12.14	11.53	13.79	e14.65	14.35	14.05
15	13.96	12.47	12.10	11.87	12.80	e12.78	12.09	11.63	13.79	e14.62	14.41	14.06
16	13.95	12.47	12.18	11.88	e12.69	e12.60	12.02	11.57	13.81	14.55	14.28	14.01
17	13.97	11.97	12.22	11.87	e12.61	12.57	e11.95	e11.65	13.81	14.44	14.15	e14.19
18	13.84	11.68	12.13	12.50	e12.70	12.92	11.94	e11.57	e13.81	14.34	14.09	14.29
19	13.37	11.44	11.77	13.63	e12.62	13.04	11.92	11.51	e13.80	e14.30	14.06	14.27
20	13.20	11.74	11.47	13.50	e12.58	13.09	11.89	11.44	e13.77	e14.21	14.18	14.25
21	13.21	11.94	11.65	e12.85	e12.53	13.04	11.87	e11.44	13.62	e14.07	14.24	14.31
22	13.14	12.06	11.73	e12.54	12.48	13.02	11.85	e11.40	13.68	14.02	14.10	14.34
23	13.05	12.13	11.94	12.38	12.44	13.01	11.82	11.37	e13.72	e14.07	e14.04	14.36
24	12.97	12.19	11.93	12.43	12.29	13.07	11.80	11.32	13.79	14.29	14.05	14.47
25	12.93	12.26	11.93	12.35	12.36	13.05	11.77	11.28	13.87	14.34	13.91	14.52
26	13.34	12.30	11.94	12.35	12.35	13.01	11.83	e11.26	13.91	14.35	13.44	14.45
27	13.37	12.29	11.73	12.39	12.33	12.98	12.03	e11.17	13.96	14.35	13.44	14.39
28	13.08	12.31	11.62	12.35	12.42	12.95	12.00	e11.25	14.09	14.18	14.07	14.29
29	12.92	12.30	11.97	12.36	---	12.93	11.67	11.29	14.32	14.07	14.12	13.97
30	12.84	12.21	e12.51	12.35	---	12.87	11.16	e11.32	14.36	14.14	e14.18	14.15
31	12.78	---	12.43	12.21	---	12.85	---	11.36	---	14.21	e14.22	---
TOTAL	419.72	369.81	---	379.31	358.74	407.36	364.12	354.28	400.70	445.12	437.09	422.53
MEAN	13.54	12.33	---	12.24	12.81	13.14	12.14	11.43	13.36	14.36	14.10	14.08
MAX	14.24	12.77	---	13.63	13.28	13.69	12.78	11.79	14.36	14.67	14.41	14.52
MIN	12.78	11.44	---	11.60	12.29	12.57	11.16	10.52	11.44	14.02	13.44	13.43

e Estimated

02289032 LEVEE 4 BELOW STRUCTURE G-88, NEAR CLEWISTON, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	33	-0.12	-1.8	1.1	-25	e29	-13	-7.5	179	34	32
2	179	24	2.7	-0.95	-12	0.98	e8.5	e-16	1.3	184	12	24
3	159	29	-18	-5.5	-13	10	e6.6	e6.7	6.2	183	1.8	34
4	82	28	-16	-17	-14	22	e22	0.49	e14	187	1.4	37
5	73	13	e-11	-10	-5.3	-2.0	e21	-3.7	e8.3	183	12	38
6	54	9.0	e-9.1	-12	-3.1	6.4	23	-4.7	e4.6	175	e25	44
7	50	10	e-8.4	2.7	-13	5.5	18	e13	e16	180	39	38
8	49	13	---	-3.2	-17	1.4	-1.2	e17	e47	161	86	50
9	37	14	---	-9.7	-10	20	-6.0	18	86	171	122	47
10	40	19	-24	-18	e-28	37	8.0	15	90	201	82	43
11	42	18	-22	-16	-24	31	22	12	e106	213	44	-0.71
12	43	20	-16	-14	-16	37	12	13	123	219	51	-8.8
13	9.0	12	-19	-11	1.2	27	-4.9	e6.4	e123	e226	25	33
14	9.4	15	-24	-0.55	11	23	-12	-16	121	e219	30	42
15	11	25	-17	-0.53	6.0	e29	-0.24	-18	120	e212	85	53
16	13	e14	-10	-5.5	e5.0	e21	13	-12	123	205	66	56
17	33	9.9	-9.2	-5.6	e-3.8	27	e11	e-8.4	119	193	44	e56
18	44	-1.4	-7.4	-35	e-1.4	28	15	e-11	e115	179	21	74
19	33	4.6	-13	-12	e7.9	38	14	-15	e107	e167	18	102
20	16	9.4	-22	-9.7	e7.9	43	17	-2.5	e82	e148	2.2	115
21	30	14	-12	e-11	e3.5	35	15	e-14	74	e136	16	125
22	29	14	-12	e-12	6.1	37	4.8	e-5.3	94	124	31	132
23	28	15	4.9	-20	13	20	-7.7	-8.7	e89	e81	e32	141
24	26	13	2.4	-8.7	-6.6	36	-11	-6.0	101	53	17	136
25	21	2.6	11	-6.9	-5.0	23	13	-7.7	115	57	15	136
26	24	2.8	-19	-16	0.76	27	-14	e4.0	115	82	37	139
27	34	0.70	-22	-17	-8.3	21	-21	e-30	121	97	12	121
28	22	-4.5	-38	0.72	-16	9.9	-9.9	e-41	138	45	22	135
29	24	11	-16	4.6	---	12	6.2	-29	150	26	35	125
30	27	5.4	e-5.2	-19	---	20	-1.6	e-28	165	14	e27	95
31	23	---	-3.6	-13	---	32	---	-25	---	6.4	e37	---
TOTAL	1,447.4	392.50	---	-303.61	-133.04	653.18	189.56	-209.41	2,566.9	4,506.4	1,082.4	2,193.49
MEAN	46.7	13.1	---	-9.79	-4.75	21.1	6.32	-6.76	85.6	145	34.9	73.1
MAX	183	33	---	4.6	13	43	29	18	165	226	122	141
MIN	9.0	-4.5	---	-35	-28	-25	-21	-41	-7.5	6.4	1.4	-8.8
AC-FT	2,870	779	---	-602	-264	1,300	376	-415	5,090	8,940	2,150	4,350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	229	63.3	71.1	47.9	25.9	15.7	-7.19	-14.3	61.6	106	66.4	208
MAX	756	242	438	290	69.7	86.0	37.4	79.5	186	218	133	676
(WY)	(1996)	(1995)	(1995)	(1995)	(1998)	(1998)	(1997)	(1997)	(1999)	(1994)	(1994)	(1995)
MIN	17.2	-6.15	-0.25	-15.3	-6.28	-30.1	-65.2	-74.7	-23.4	11.4	8.39	40.7
(WY)	(2003)	(1998)	(2001)	(2004)	(1996)	(1999)	(1999)	(1993)	(2000)	(1993)	(2000)	(2000)

SUMMARY STATISTICS	WATER YEARS 1992 - 2005	
ANNUAL MEAN	70.8	
HIGHEST ANNUAL MEAN	126	1996
LOWEST ANNUAL MEAN	28.3	2001
HIGHEST DAILY MEAN	995	Oct 21, 1995
LOWEST DAILY MEAN	-214	May 20, 2000
ANNUAL SEVEN-DAY MINIMUM	-127	May 21, 1998
ANNUAL RUNOFF (AC-FT)	51,310	
10 PERCENT EXCEEDS	177	
50 PERCENT EXCEEDS	26	
90 PERCENT EXCEEDS	-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.

254543080491101 TAMIAMI CANAL AT S-12-A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'43", long 80°49'11", T.54 S., R.35 E., Dade County, Hydrologic Unit 03090202, on northwest bank of Levee 29 Tamiami Canal, 50 feet south of structure S-12-A. Approximately 21.8 mi west of State Road 997 (old State Road 27) along U.S. Highway 41 near 40 mile bend. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1963 to September 1965, October 1970 to September 1971, October 1975 to September 1976, October 1977 to September 1980 (discharge only), October 1980 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream stages. Datum of gage is National Geodetic Vertical Datum of 1929. Satellite data collection platform installed April 1, 1990.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station is one of several located downstream from the control structures, in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-A. Discharge is the total discharge through the S-12-A structure, from Conservation Area 3A. The daily discharge computed from relations between discharge, head, and gate-openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions. Stage and discharge records prior to 1980, were either fragmentary or unavailable from the files of the U.S. Geological Survey. Upstream gage height records were formerly published under 254543080491100. Upstream gage height records have been relocated under 254543080491101 as Published Upstream record in the files of the U.S. Geological Survey.

COOPERATION.--Gate opening records provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete water years of discharge (1964-65, 1971,1976, 1978-2005).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.83 ft Dec. 21, 1994; minimum, 5.17 ft June 18, 19, 1989.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.88 ft Sept. 2; minimum, 7.84 ft May 26.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.80 ft Dec. 21, 1994; minimum, 5.21 ft June 19, 20, 1989.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.89 ft Sept. 2; minimum, 7.45 ft May 30.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.45	10.56	10.06	9.98	9.80	9.27	9.16	8.44	8.73	9.82	10.45	10.64
2	10.49	10.66	10.03	9.98	9.78	9.26	9.14	8.44	8.84	9.84	10.43	10.71
3	10.51	10.68	10.00	9.99	9.76	9.25	9.13	8.47	8.90	9.88	10.41	10.79
4	10.52	10.67	9.98	9.99	9.75	9.32	9.11	8.55	8.91	9.89	10.40	10.76
5	10.53	10.66	9.95	9.98	9.74	9.30	9.08	8.73	8.96	9.91	10.38	10.72
6	10.54	10.65	9.94	9.97	9.73	9.28	9.05	8.79	9.03	9.92	10.36	10.67
7	10.57	10.63	9.94	9.97	9.71	9.27	8.99	8.82	9.04	9.93	10.35	10.62
8	10.58	10.60	9.94	9.96	9.69	9.24	9.13	8.83	9.04	9.98	10.35	10.58
9	10.57	10.58	9.93	9.96	9.67	9.28	9.15	8.83	9.04	10.17	10.33	10.55
10	10.56	10.57	9.91	9.96	9.65	9.36	9.14	8.83	9.28	10.24	10.32	10.53
11	10.56	10.53	9.89	9.95	9.64	9.33	9.12	8.79	9.41	10.31	10.32	10.52
12	10.58	10.51	9.88	9.95	9.62	9.32	9.09	8.75	9.43	10.35	10.35	10.53
13	10.57	10.48	9.86	9.93	9.59	9.31	9.04	8.68	9.44	10.41	10.41	10.53
14	10.56	10.46	9.86	9.92	9.57	9.30	9.00	8.62	9.43	10.49	10.39	10.49
15	10.59	10.45	9.89	9.96	9.55	9.30	8.98	8.55	9.38	---	10.37	10.46
16	10.60	10.42	9.91	9.98	9.53	9.27	8.96	8.50	9.32	10.50	10.38	10.44
17	10.60	10.39	9.93	10.00	9.51	9.28	8.92	8.46	9.29	10.52	10.37	10.47
18	10.59	10.36	9.94	10.00	9.49	9.41	8.89	8.40	9.27	10.53	10.38	10.45
19	10.60	10.33	9.95	9.98	9.48	9.41	8.84	8.34	9.27	10.54	10.38	10.43
20	10.61	10.30	9.95	9.95	9.47	9.40	8.79	8.25	9.45	10.54	10.36	10.50
21	10.63	10.28	9.96	9.92	9.43	9.39	8.73	8.16	9.68	10.55	10.36	10.55
22	10.64	10.25	9.96	9.91	9.41	9.37	8.67	8.12	9.66	10.52	10.37	10.52
23	10.64	10.22	9.96	9.90	9.39	9.35	8.56	8.12	9.58	10.48	10.38	10.51
24	10.64	10.19	9.96	9.92	9.36	9.35	8.49	8.17	9.56	10.46	10.37	10.49
25	10.64	10.18	9.98	9.90	9.33	9.33	8.40	8.08	9.56	10.44	10.39	10.46
26	10.63	10.18	9.95	9.88	9.32	9.32	8.31	7.96	9.56	10.44	10.50	10.44
27	10.61	10.15	9.97	9.86	9.30	9.29	8.40	8.06	9.59	10.45	10.63	10.44
28	10.59	10.13	9.98	9.85	9.26	9.26	8.51	8.08	9.70	10.42	10.72	10.42
29	10.56	10.11	9.98	9.85	---	9.26	8.51	8.05	9.77	10.41	10.68	10.42
30	10.54	10.08	9.98	9.82	---	9.24	8.48	8.04	9.81	10.43	10.65	10.50
31	10.51	---	9.98	9.81	---	9.21	---	8.28	---	10.46	10.63	---
TOTAL	327.81	312.26	308.40	307.98	267.53	288.53	265.77	261.19	279.93	---	323.17	316.14
MEAN	10.57	10.41	9.95	9.93	9.55	9.31	8.86	8.43	9.33	---	10.42	10.54
MAX	10.64	10.68	10.06	10.00	9.80	9.41	9.16	8.83	9.81	---	10.72	10.79
MIN	10.45	10.08	9.86	9.81	9.26	9.21	8.31	7.96	8.73	---	10.32	10.42

254543080491101 TAMIAMI CANAL AT S-12-A, NEAR MIAMI, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.44	9.60	8.20	8.07	7.96	7.84	7.89	7.72	8.16	9.86	10.45	10.65
2	10.47	8.63	8.19	8.06	7.95	7.83	7.92	7.72	8.10	9.87	10.43	10.72
3	10.49	8.50	8.18	8.06	7.94	7.83	7.92	7.71	8.08	9.88	10.42	10.79
4	10.51	8.44	8.17	8.06	7.94	7.90	7.90	7.74	8.03	9.89	10.40	10.75
5	10.52	8.41	8.17	8.06	7.93	7.89	7.88	7.87	8.04	9.91	10.38	10.71
6	10.52	8.38	8.16	8.06	7.93	7.87	7.87	7.85	8.07	9.92	10.36	10.66
7	10.56	8.35	8.16	8.06	7.92	7.86	7.86	7.82	8.03	9.93	10.35	10.61
8	10.56	8.33	8.16	8.05	7.92	7.87	8.07	7.80	8.01	9.98	10.35	10.57
9	10.55	8.32	8.15	8.05	7.91	7.90	8.01	7.79	8.01	10.18	10.34	10.54
10	10.54	8.30	8.15	8.05	7.90	7.95	7.97	7.78	8.20	10.25	10.32	10.51
11	10.54	8.29	8.14	8.04	7.89	7.91	7.93	7.76	8.20	10.31	10.32	10.50
12	10.56	8.29	8.13	8.04	7.88	7.89	7.91	7.75	8.16	10.36	10.35	10.51
13	10.56	8.28	8.13	8.04	7.88	7.89	7.90	7.73	8.14	10.42	10.42	10.52
14	10.55	8.28	8.13	8.05	7.88	7.88	7.90	7.71	8.12	10.49	10.39	10.48
15	10.57	8.27	8.12	8.06	7.88	7.88	7.89	7.70	8.09	---	10.38	10.45
16	10.58	8.26	8.11	8.05	7.88	7.88	7.87	7.68	8.07	10.50	10.37	10.43
17	10.58	8.25	8.11	8.05	7.87	7.93	7.86	7.66	8.06	10.52	10.36	10.46
18	10.57	8.25	8.11	8.04	7.86	8.03	7.84	7.64	8.04	10.54	10.37	10.44
19	10.58	8.24	8.11	8.03	7.85	7.98	7.83	7.62	8.05	10.54	10.39	10.42
20	10.60	8.24	8.10	8.03	7.85	7.94	7.82	7.60	8.25	10.55	10.37	10.49
21	10.61	8.23	8.09	8.02	7.85	7.93	7.81	7.60	8.31	10.55	10.37	10.54
22	10.63	8.23	8.09	8.02	7.85	7.92	7.80	7.60	9.10	10.52	10.38	10.52
23	10.63	8.22	8.09	8.01	7.85	7.91	7.80	7.59	9.58	10.47	10.39	10.50
24	10.63	8.22	8.10	8.00	7.84	7.91	7.79	7.57	9.57	10.46	10.39	10.48
25	10.62	8.23	8.09	8.00	7.85	7.90	7.76	7.55	9.59	10.43	10.40	10.45
26	10.61	8.24	8.09	7.99	7.85	7.89	7.75	7.53	9.58	10.44	10.51	10.43
27	10.60	8.23	8.08	7.98	7.85	7.89	7.75	7.52	9.62	10.45	10.64	10.43
28	10.57	8.22	8.08	7.98	7.85	7.89	7.75	7.50	9.71	10.43	10.73	10.42
29	10.55	8.21	8.08	8.00	---	7.89	7.74	7.49	9.79	10.41	10.69	10.42
30	10.52	8.20	8.07	7.99	---	7.89	7.73	7.48	9.85	10.43	10.66	10.49
31	10.49	---	8.07	7.97	---	7.89	---	7.73	---	10.46	10.64	---
TOTAL	327.31	250.14	251.81	248.97	220.81	244.86	235.72	237.81	256.61	---	323.32	315.89
MEAN	10.56	8.34	8.12	8.03	7.89	7.90	7.86	7.67	8.55	---	10.43	10.53
MAX	10.63	9.60	8.20	8.07	7.96	8.03	8.07	7.87	9.85	---	10.73	10.79
MIN	10.44	8.20	8.07	7.97	7.84	7.83	7.73	7.48	8.01	---	10.32	10.42

254543080491101 TAMIAMI CANAL AT S-12-A, NEAR MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	761	398	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424	757	773
2	781	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	431	747	822
3	799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	434	738	873
4	814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	445	726	853
5	825	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	451	715	829
6	835	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	460	702	803
7	862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	467	696	778
8	871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	493	698	759
9	874	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	592	691	746
10	873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635	684	735
11	876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	670	681	735
12	897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	702	699	747
13	904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	739	737	753
14	901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	789	720	738
15	921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e795	715	724
16	934	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	798	713	713
17	941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	809	705	728
18	944	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	817	704	716
19	947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	821	706	700
20	959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	826	691	738
21	969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	825	681	766
22	979	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183	808	678	747
23	980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	305	778	679	735
24	984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	303	768	672	719
25	978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	309	749	675	698
26	968	0.00	0.00	0.00	0.00	0.00	0.00	0.00	306	750	729	684
27	959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	323	759	802	679
28	942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	357	743	852	668
29	925	0.00	0.00	0.00	---	0.00	0.00	0.00	391	732	819	667
30	905	0.00	0.00	0.00	---	0.00	0.00	0.00	420	743	789	706
31	885	---	0.00	0.00	---	0.00	---	0.00	---	762	772	---
TOTAL	27,993	398.00	0.00	0.00	0.00	0.00	0.00	0.00	2,897.00	21,015	22,373	22,332
MEAN	903	13.3	0.00	0.00	0.00	0.00	0.00	0.00	96.6	678	722	744
MAX	984	398	0.00	0.00	0.00	0.00	0.00	0.00	420	826	852	873
MIN	761	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424	672	667
AC-FT	55,520	789	0.00	0.00	0.00	0.00	0.00	0.00	5,750	41,680	44,380	44,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	325	217	107	68.8	60.3	57.7	34.7	17.0	36.3	134	175	223
MAX	1,152	1,261	1,335	1,346	849	580	464	267	394	714	722	744
(WY)	(1996)	(1995)	(1995)	(1995)	(1995)	(1993)	(1993)	(1993)	(1993)	(1982)	(2005)	(2005)
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)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	43,270.00		97,008.00			
ANNUAL MEAN	118		266		136	
HIGHEST ANNUAL MEAN					672	1995
LOWEST ANNUAL MEAN					0.00	1964
HIGHEST DAILY MEAN	984	Oct 24	984	Oct 24	1,530	Jan 5, 1995
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Nov 2	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 2	0.00	Oct 1, 1963
ANNUAL RUNOFF (AC-FT)	85,830		192,400		98,390	
10 PERCENT EXCEEDS	613		818		463	
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.

02289019 TAMIAMI CANAL AT S-12-B, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°46'05", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on west bank of spillway, 100 ft southwest of control structure 12-B, and 35 mi west of Miami. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to September 1963, October 1963 to September 1965, October 1966 to September 1975 (gage heights only), October 1975 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream stages. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.-- Records fair except those for estimated daily discharges, which are poor. Since March 9, 1990, satellite data collection platform. Station is one of several located below the gated control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through structure 12-B. Discharge computed from relation between discharge, head, and gate openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions. Discharge records for the missing periods above were either fragmentary or unavailable from files of the U. S. Geological Survey. Upstream gage height records were formerly published under 02289018. Upstream gage height records have been relocated under 02289019 as "Published upstream" record in the files of the U.S. Geological Survey.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 31 complete water years of discharge (1964-65, 1976-2004).

COOPERATION.--Gate opening records provided by U.S. Army Corps of Engineers.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.92 ft Dec. 21, 1994; minimum, 5.14 ft June 18, 19, 1989.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.98 ft Sept. 2; minimum, 7.84 ft May 26.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.91 ft Dec. 21, 1994; minimum, 5.02 ft June 19, 1989.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.96 ft Sept. 2; minimum, 7.20 ft May 29, 30.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.52	10.55	10.00	9.98	9.80	9.26	9.15	8.45	8.64	9.87	10.53	10.73
2	10.55	10.59	9.97	9.98	9.78	9.25	9.13	8.45	8.71	9.88	10.51	10.80
3	10.57	10.60	9.95	9.99	9.76	9.24	9.12	8.47	8.73	9.89	10.49	10.86
4	10.58	10.59	9.93	9.98	9.75	9.31	9.10	8.56	8.74	9.90	10.48	10.85
5	10.58	10.58	9.91	9.97	9.75	9.30	9.07	8.74	8.76	9.92	10.46	10.80
6	10.59	10.57	9.90	9.96	9.73	9.28	9.03	8.80	8.78	9.93	10.44	10.76
7	10.62	10.55	9.92	9.96	9.71	9.26	8.97	8.83	8.78	9.95	10.43	10.72
8	10.62	---	9.92	9.96	9.69	9.23	9.12	8.84	8.78	10.0	10.44	---
9	10.62	---	9.91	9.96	9.67	9.27	9.15	8.84	8.78	10.18	10.42	---
10	10.61	10.47	9.89	9.95	9.64	9.35	9.13	8.83	8.80	10.26	10.41	---
11	10.61	10.45	9.88	9.95	9.63	9.33	9.11	8.80	8.84	10.34	10.40	---
12	10.63	10.43	9.87	9.94	9.61	9.32	9.07	8.74	8.85	10.39	10.44	---
13	10.64	10.41	9.85	9.92	9.58	9.31	9.03	8.66	9.20	10.46	10.51	---
14	10.62	10.39	9.85	9.92	9.55	9.30	9.00	8.60	9.41	10.52	10.48	10.58
15	10.65	10.37	9.89	9.97	9.54	9.29	8.97	8.54	9.35	---	10.48	10.55
16	10.66	10.34	9.91	9.99	9.52	9.26	8.95	8.50	9.30	10.53	10.47	10.52
17	10.65	10.31	9.93	10.02	9.50	9.28	8.91	8.45	9.27	10.55	10.45	10.54
18	10.65	10.29	9.95	10.02	9.48	9.41	8.88	8.39	9.25	10.56	---	10.52
19	10.65	10.26	9.95	9.98	9.48	9.41	8.83	8.33	9.25	10.57	---	10.50
20	10.66	10.23	9.95	9.95	9.45	9.40	8.78	8.24	9.45	10.58	---	10.57
21	10.69	10.21	9.95	9.92	9.42	9.38	8.72	8.16	9.67	10.58	---	10.62
22	10.71	10.19	9.95	9.91	9.39	9.36	8.66	8.12	9.65	10.57	---	10.59
23	10.71	10.16	9.96	9.90	9.37	9.35	8.57	8.12	9.58	10.56	---	10.59
24	10.71	10.13	9.96	9.93	9.35	9.34	8.49	8.17	9.56	10.53	---	10.56
25	10.70	10.13	9.98	9.90	9.32	9.32	8.40	8.09	9.57	10.52	---	10.53
26	10.69	10.12	9.96	9.87	9.32	9.31	8.31	7.96	9.57	10.51	---	10.52
27	10.66	10.09	9.98	9.86	9.29	9.29	8.41	8.06	9.61	10.52	---	10.50
28	10.64	10.07	9.98	9.84	9.26	9.26	8.51	8.08	9.70	10.50	---	10.49
29	10.61	10.05	9.97	9.84	---	9.26	8.52	8.05	9.79	10.49	---	10.49
30	10.58	10.03	9.97	9.82	---	9.23	8.48	8.05	9.86	10.49	10.73	10.56
31	10.54	---	9.98	9.81	---	9.19	---	8.28	---	10.53	10.72	---
TOTAL	329.52	---	307.97	307.95	267.34	288.35	265.57	261.20	276.23	---	---	---
MEAN	10.63	---	9.93	9.93	9.55	9.30	8.85	8.43	9.21	---	---	---
MAX	10.71	---	10.00	10.02	9.80	9.41	9.15	8.84	9.86	---	---	---
MIN	10.52	---	9.85	9.81	9.26	9.19	8.31	7.96	8.64	---	---	---

02289019 TAMIAMI CANAL AT S-12-B, NEAR MIAMI, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.50	10.54	9.99	7.99	7.91	7.80	7.75	7.42	8.01	9.85	10.50	10.72
2	10.53	10.58	9.97	7.99	7.91	7.79	7.77	7.42	8.03	9.86	10.48	10.79
3	10.55	10.59	9.94	7.98	7.91	7.79	7.79	7.42	8.00	9.87	10.45	10.85
4	10.57	10.58	9.92	7.98	7.91	7.89	7.76	7.52	7.94	9.88	10.44	10.83
5	10.58	10.57	9.90	7.98	7.90	7.86	7.75	7.81	7.95	9.90	10.42	10.78
6	10.58	10.56	9.42	7.97	7.90	7.83	7.73	7.77	7.99	9.92	10.41	10.74
7	10.62	10.54	8.72	7.96	7.90	7.82	7.72	7.73	7.93	9.93	10.40	10.70
8	10.62	10.52	8.64	7.95	7.89	7.81	7.95	7.70	7.91	9.98	10.40	10.66
9	10.61	10.49	8.58	7.95	7.89	7.86	7.92	7.67	7.90	10.17	10.40	10.63
10	10.60	10.47	8.55	7.95	7.88	7.92	7.86	7.65	8.15	10.25	10.38	10.60
11	10.60	10.44	8.54	7.95	7.87	7.88	7.83	7.62	8.09	10.32	10.36	10.58
12	10.62	10.42	8.52	7.94	7.86	7.85	7.80	7.60	8.02	10.37	10.40	10.60
13	10.62	10.40	8.52	7.94	7.86	7.83	7.78	7.58	7.96	10.43	10.46	10.61
14	10.61	10.38	8.48	7.96	7.86	7.83	7.76	7.56	7.92	10.50	10.44	10.58
15	10.64	10.36	8.33	7.98	7.86	7.82	7.74	7.55	7.89	---	10.44	10.54
16	10.65	10.33	8.26	7.96	7.85	7.81	7.72	7.53	7.87	10.52	10.43	10.50
17	10.64	10.31	8.22	7.95	7.85	7.87	7.70	7.51	7.85	10.54	10.42	10.52
18	10.64	10.29	8.19	7.94	7.84	8.00	7.69	7.48	7.85	10.55	---	10.51
19	10.64	10.26	8.16	7.94	7.83	7.92	7.67	7.46	7.87	10.55	---	10.50
20	10.65	10.23	8.14	7.93	7.83	7.88	7.65	7.43	8.12	10.55	---	10.56
21	10.68	10.20	8.13	7.93	7.83	7.86	7.63	7.40	8.16	10.54	---	10.60
22	10.69	10.18	8.10	7.93	7.82	7.85	7.61	7.40	8.45	10.54	---	10.57
23	10.70	10.15	8.09	7.93	7.82	7.85	7.58	7.39	---	10.52	---	10.57
24	10.70	10.12	8.07	7.91	7.82	7.85	7.55	7.36	---	10.50	---	10.55
25	10.69	10.12	8.06	7.92	7.81	7.83	7.52	7.32	---	10.47	10.47	10.52
26	10.68	10.11	8.03	7.91	7.82	7.82	7.49	7.29	9.56	10.47	10.53	10.50
27	10.66	10.09	8.02	7.91	7.82	7.80	7.49	7.26	9.60	10.49	10.67	10.49
28	10.63	10.06	8.01	7.92	7.82	7.79	7.49	7.24	9.69	10.47	10.75	10.48
29	10.60	10.04	8.00	7.94	---	7.78	7.46	7.22	9.77	10.46	10.73	10.47
30	10.57	10.02	8.00	7.92	---	7.77	7.44	7.33	9.83	10.46	10.70	10.55
31	10.54	---	8.00	7.92	---	7.76	---	7.76	---	10.49	10.70	---
TOTAL	329.21	309.95	265.50	246.33	220.07	243.02	230.60	232.40	---	---	---	318.10
MEAN	10.62	10.33	8.56	7.95	7.86	7.84	7.69	7.50	---	---	---	10.60
MAX	10.70	10.59	9.99	7.99	7.91	8.00	7.95	7.81	---	---	---	10.85
MIN	10.50	10.02	8.00	7.91	7.81	7.76	7.44	7.22	---	---	---	10.47

02289019 TAMIAMI CANAL AT S-12-B, NEAR MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	648	370	0.00	0.00	0.00	0.00	0.00	0.00	376	626	646
2	624	668	362	0.00	0.00	0.00	0.00	0.00	0.00	375	618	687
3	636	672	355	0.00	0.00	0.00	0.00	0.00	0.00	373	608	722
4	644	667	347	0.00	0.00	0.00	0.00	0.00	0.00	375	603	715
5	654	659	340	0.00	0.00	0.00	0.00	0.00	0.00	376	594	691
6	661	659	160	0.00	0.00	0.00	0.00	0.00	0.00	378	590	671
7	682	652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	378	590	647
8	686	637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	389	593	632
9	690	624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	453	596	617
10	690	611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	484	585	604
11	692	597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	512	582	598
12	708	586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	527	603	611
13	715	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	554	641	620
14	713	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	580	633	605
15	734	560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e583	633	587
16	746	547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	589	631	571
17	744	531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	601	624	579
18	747	517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	611	---	568
19	746	499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	614	---	564
20	752	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	617	---	590
21	763	471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	616	---	610
22	772	457	0.00	0.00	0.00	0.00	0.00	0.00	---	614	---	593
23	770	445	0.00	0.00	0.00	0.00	0.00	0.00	---	608	---	591
24	769	430	0.00	0.00	0.00	0.00	0.00	0.00	---	600	---	577
25	758	427	0.00	0.00	0.00	0.00	0.00	0.00	298	592	578	560
26	747	422	0.00	0.00	0.00	0.00	0.00	0.00	298	590	601	548
27	729	410	0.00	0.00	0.00	0.00	0.00	0.00	310	604	665	538
28	712	401	0.00	0.00	0.00	0.00	0.00	0.00	335	600	702	533
29	690	391	0.00	0.00	---	0.00	0.00	0.00	357	598	679	527
30	670	381	0.00	0.00	---	0.00	0.00	0.00	375	598	654	563
31	649	---	0.00	0.00	---	0.00	---	0.00	---	619	645	---
TOTAL	21,906	16,204	1,934.00	0.00	0.00	0.00	0.00	0.00	---	16,384	---	18,165
MEAN	707	540	62.4	0.00	0.00	0.00	0.00	0.00	---	529	---	606
MAX	772	672	370	0.00	0.00	0.00	0.00	0.00	---	619	---	722
MIN	613	381	0.00	0.00	0.00	0.00	0.00	0.00	---	373	---	527
AC-FT	43,450	32,140	3,840	0.00	0.00	0.00	0.00	0.00	---	32,500	---	36,030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	314	255	143	77.1	62.8	57.9	30.4	16.9	35.3	116	149	222
MAX	930	1,032	1,232	1,160	681	424	338	192	311	529	550	606
(WY)	(1996)	(2000)	(1995)	(1995)	(1995)	(1995)	(1993)	(1993)	(1993)	(2005)	(1982)	(2005)
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)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	53,992.00			
ANNUAL MEAN	148		128	
HIGHEST ANNUAL MEAN			561	1995
LOWEST ANNUAL MEAN			0.00	1964
HIGHEST DAILY MEAN	772	Oct 22	1,380	Jan 5, 1995
LOWEST DAILY MEAN	0.00	Jan 1	-22	Mar 28, 1985
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	-3.1	Mar 26, 1985
ANNUAL RUNOFF (AC-FT)	107,100		92,600	
10 PERCENT EXCEEDS	636		388	
50 PERCENT EXCEEDS	0.00		14	
90 PERCENT EXCEEDS	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.

02289040 TAMIAMI CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

LOCATION.--Lat 25°45'22", long 80°43'34", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on south bank of Levee 29 Borrow Canal, 100 ft northwest of control structure 12-C, and 33 mi west of Miami. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge), October 1963 to September 2004, (gage-height and discharge record). October 2004 to current year.

REVISED RECORDS.--WDR FL-87-2A, 1986; WDR FL-89-2A, 1983.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Satellite data collection platform at S-12-C downstream (02289041), that records upstream and downstream gages.

COOPERATION.--Gate-opening records for S-12 complex provided by U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.87 ft Dec. 21, 1994; minimum, 5.17 ft June 19, 1989.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.99 ft Sept.2; minimum, 7.85 ft May 26.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.59	10.57	9.99	9.99	9.80	9.26	9.15	8.44	8.57	9.91	10.60	10.78
2	10.61	10.59	9.96	9.99	9.78	9.26	9.12	8.44	8.73	9.93	10.57	10.86
3	10.63	10.59	9.94	9.99	9.76	9.24	9.12	8.47	8.83	9.94	10.55	10.90
4	10.64	10.58	9.92	9.99	9.75	9.31	9.09	8.55	8.87	9.95	10.54	10.89
5	10.65	10.57	9.90	9.98	9.75	9.30	9.06	8.73	8.93	9.98	10.52	10.85
6	10.66	10.56	9.89	9.98	9.73	9.28	9.02	8.79	9.01	9.99	10.50	10.81
7	10.68	10.55	9.89	9.97	9.71	9.26	8.96	8.82	9.02	10.01	10.50	10.77
8	10.68	10.52	9.88	9.97	9.69	9.24	9.11	8.83	9.01	10.04	10.51	10.73
9	10.68	10.49	9.89	9.97	9.66	9.28	9.14	8.83	9.00	10.23	10.50	10.70
10	10.68	10.47	9.86	9.97	9.64	9.36	9.12	8.82	9.23	10.31	10.48	10.67
11	10.67	10.43	9.85	9.95	9.64	9.33	9.10	8.79	9.37	10.39	10.48	10.69
12	10.69	10.41	9.84	9.94	9.61	9.32	9.06	8.73	9.40	10.44	10.52	10.69
13	10.70	10.39	9.82	9.92	9.58	9.31	9.02	8.66	9.41	10.51	10.57	10.68
14	10.68	10.37	9.84	9.92	9.55	9.30	8.99	8.59	9.38	10.57	10.55	10.64
15	10.72	10.35	9.90	9.98	9.53	9.30	8.97	8.53	9.32	---	10.56	10.60
16	10.73	10.31	9.93	10.00	9.51	9.26	8.94	8.48	9.27	10.58	10.54	---
17	10.72	10.29	9.94	10.01	9.50	9.28	8.90	8.43	9.24	10.60	10.52	---
18	10.70	10.28	9.95	10.01	9.49	9.42	8.86	8.38	9.24	10.61	10.50	---
19	10.70	10.24	9.97	9.99	9.47	9.41	8.81	8.31	9.24	10.62	10.50	---
20	10.72	10.22	9.97	9.96	9.44	9.40	8.76	8.23	9.44	---	10.49	10.63
21	10.76	10.19	9.97	9.93	9.41	9.38	8.70	8.15	9.68	---	10.49	10.66
22	10.77	10.17	9.97	9.92	9.39	9.37	8.65	8.11	9.65	---	10.51	10.64
23	10.78	10.14	9.97	9.91	9.37	9.35	8.55	8.12	9.59	---	10.51	10.64
24	10.77	10.11	9.98	9.94	9.34	9.34	8.48	8.16	9.58	---	10.52	10.62
25	10.76	10.10	9.99	9.90	9.32	9.32	8.38	8.08	9.58	---	10.56	10.59
26	10.74	10.10	9.98	9.88	9.32	9.31	8.29	7.95	9.59	---	10.62	10.57
27	10.71	10.08	10.00	9.86	9.28	9.29	8.40	8.06	9.63	10.58	10.75	10.55
28	10.68	10.05	10.0	9.85	9.26	9.26	8.50	8.07	9.73	10.56	10.81	10.54
29	10.65	10.02	9.98	9.84	---	9.26	8.49	8.04	9.82	10.55	10.79	10.54
30	10.61	10.01	9.98	9.81	---	9.23	8.47	8.02	9.89	10.55	10.76	10.61
31	10.58	---	9.98	9.81	---	9.19	---	8.21	---	10.59	10.75	---
TOTAL	331.34	309.75	307.93	308.13	267.28	288.42	265.21	260.82	279.25	---	327.57	---
MEAN	10.69	10.32	9.93	9.94	9.55	9.30	8.84	8.41	9.31	---	10.57	---
MAX	10.78	10.59	10.00	10.01	9.80	9.42	9.15	8.83	9.89	---	10.81	---
MIN	10.58	10.01	9.82	9.81	9.26	9.19	8.29	7.95	8.57	---	10.48	---

02289041 TAMIAMI CANAL BELOW S-12-C, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°43'34", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on west bank of spillway, 100 ft southwest of control structure 12-C, and 33 mi west of Miami. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to September 1963, October 1965 to September 1976 (gage heights only), October 1963 to September 1965, October 1976 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream stages. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Daily mean for upstream gage height published under 02289040. Station is one of several located downstream from the control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-C. Discharge is the total discharge through the S-12-C structure, from Conservation Area 3A. The daily discharge computed from relation between discharge, head, and gate-openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions. Since March 16, 1990, data collection platform. For discharge records prior to 1976, missing periods were fragmentary or missing from the files of the U.S. Geological Survey.

COOPERATION.--Gate-opening records provided by the U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1964-65, 1977-2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.86 ft Dec. 21, 1994; minimum, 4.87 ft June 19, 20, 1989.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.00 ft Sept. 2; minimum, 7.21 ft May 29, 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.54	10.55	9.97	8.01	7.92	7.83	7.78	7.45	8.06	9.89	10.58	10.77
2	10.56	10.57	9.95	8.00	7.92	7.82	7.79	7.45	8.07	9.90	10.55	10.85
3	10.58	10.57	9.89	8.00	7.92	7.82	7.81	7.45	8.01	9.91	10.53	10.90
4	10.59	10.56	9.84	8.00	7.92	7.92	7.79	7.56	7.94	9.93	10.52	10.89
5	10.60	10.55	9.82	7.99	7.92	7.89	7.77	7.84	7.96	9.94	10.50	10.85
6	10.61	10.55	9.69	7.98	7.91	7.86	7.75	7.80	8.00	9.96	10.48	10.79
7	10.63	10.53	9.53	7.98	7.91	7.85	7.74	7.76	7.95	9.98	10.49	10.74
8	10.63	10.50	9.34	7.97	7.90	7.85	7.98	7.72	7.92	10.02	10.49	10.70
9	10.63	10.46	9.18	7.97	7.90	7.89	7.95	7.69	7.91	10.20	10.48	10.67
10	10.63	10.43	9.16	7.96	7.90	7.96	7.89	7.67	8.15	10.29	10.47	10.65
11	10.63	10.40	9.15	7.96	7.89	7.91	7.86	7.64	8.11	10.37	10.47	10.66
12	10.64	10.38	9.14	7.96	7.88	7.88	7.83	7.62	8.03	10.42	10.52	10.67
13	10.65	10.36	9.14	7.95	7.88	7.86	7.81	7.60	7.97	10.49	10.58	10.66
14	10.63	10.35	8.83	7.98	7.88	7.85	7.79	7.58	7.94	10.55	10.55	10.61
15	10.67	10.32	8.39	8.00	7.87	7.85	7.76	7.56	7.91	---	10.54	10.58
16	10.68	10.30	8.30	7.98	7.87	7.84	7.74	7.54	7.88	10.56	10.51	---
17	10.67	10.27	8.26	7.96	7.87	7.89	7.73	7.52	7.86	10.58	10.49	---
18	10.66	10.25	8.22	7.96	7.86	8.03	7.71	7.49	7.87	10.58	10.49	---
19	10.66	10.22	8.20	7.95	7.85	7.95	7.69	7.46	7.88	10.59	10.50	---
20	10.68	10.20	8.17	7.95	7.84	7.91	7.67	7.43	8.12	---	10.48	10.60
21	10.73	10.18	8.16	7.94	7.84	7.89	7.65	7.42	8.17	---	10.49	10.63
22	10.74	10.15	8.15	7.94	7.84	7.87	7.64	7.41	8.94	---	10.47	10.61
23	10.75	10.12	8.12	7.94	7.84	7.88	7.61	7.41	9.56	---	10.46	10.61
24	10.74	10.09	8.09	7.93	7.83	7.88	7.58	7.37	9.55	---	10.48	10.59
25	10.73	10.09	8.08	7.93	7.84	7.86	7.55	7.34	9.56	---	10.52	10.56
26	10.71	10.09	8.06	7.93	7.84	7.84	7.52	7.30	9.56	---	10.59	10.54
27	10.69	10.06	8.04	7.93	7.85	7.83	7.51	7.28	9.60	10.57	10.72	10.52
28	10.66	10.04	8.03	7.94	7.85	7.82	7.51	7.25	9.70	10.55	10.79	10.52
29	10.63	10.02	8.02	7.95	---	7.81	7.48	7.23	9.80	10.55	10.77	10.51
30	10.59	9.99	8.02	7.94	---	7.80	7.46	7.35	9.87	10.56	10.74	10.59
31	10.56	---	8.01	7.93	---	7.78	---	7.79	---	10.58	10.75	---
TOTAL	330.10	309.15	270.95	246.81	220.54	243.92	231.35	232.98	253.85	---	327.00	---
MEAN	10.65	10.30	8.74	7.96	7.88	7.87	7.71	7.52	8.46	---	10.55	---
MAX	10.75	10.57	9.97	8.01	7.92	8.03	7.98	7.84	9.87	---	10.79	---
MIN	10.54	9.99	8.01	7.93	7.83	7.78	7.46	7.23	7.86	---	10.46	---

02289041 TAMIAMI CANAL BELOW S-12-C, NEAR MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,220	1,250	763	0.00	0.00	0.00	0.00	0.00	0.00	819	1,210	1,220
2	1,240	1,260	749	0.00	0.00	0.00	0.00	0.00	0.00	821	1,190	1,280
3	1,270	1,260	729	0.00	0.00	0.00	0.00	0.00	0.00	828	1,170	1,330
4	1,290	1,250	745	0.00	0.00	0.00	0.00	0.00	0.00	835	1,170	1,320
5	1,300	1,240	723	0.00	0.00	0.00	0.00	0.00	0.00	842	1,160	1,270
6	1,310	1,240	622	0.00	0.00	0.00	0.00	0.00	0.00	849	1,160	1,230
7	1,330	1,220	556	0.00	0.00	0.00	0.00	0.00	0.00	854	1,170	1,190
8	1,340	1,190	459	0.00	0.00	0.00	0.00	0.00	0.00	878	1,180	1,160
9	1,340	1,160	407	0.00	0.00	0.00	0.00	0.00	0.00	975	1,180	1,150
10	1,350	1,140	406	0.00	0.00	0.00	0.00	0.00	0.00	1,030	1,180	1,130
11	1,350	1,120	407	0.00	0.00	0.00	0.00	0.00	0.00	1,080	1,180	1,140
12	1,360	1,100	404	0.00	0.00	0.00	0.00	0.00	0.00	1,110	1,230	1,140
13	1,380	1,090	400	0.00	0.00	0.00	0.00	0.00	0.00	1,160	1,280	1,130
14	1,370	1,070	175	0.00	0.00	0.00	0.00	0.00	0.00	1,200	1,270	1,100
15	1,400	1,050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1,210	1,260	1,080
16	1,420	1,040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,210	1,250	---
17	1,410	1,010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,220	1,230	---
18	1,410	995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,230	1,220	---
19	1,400	969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,230	1,220	---
20	1,420	945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	1,190	1,110
21	1,450	928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	1,170	1,140
22	1,460	909	0.00	0.00	0.00	0.00	0.00	0.00	377	---	1,150	1,130
23	1,460	890	0.00	0.00	0.00	0.00	0.00	0.00	658	---	1,130	1,130
24	1,450	870	0.00	0.00	0.00	0.00	0.00	0.00	653	---	1,120	1,120
25	1,430	863	0.00	0.00	0.00	0.00	0.00	0.00	657	---	1,140	1,100
26	1,410	857	0.00	0.00	0.00	0.00	0.00	0.00	659	---	1,170	1,090
27	1,390	839	0.00	0.00	0.00	0.00	0.00	0.00	678	1,210	1,260	1,080
28	1,360	822	0.00	0.00	0.00	0.00	0.00	0.00	724	1,200	1,300	1,090
29	1,320	803	0.00	0.00	---	0.00	0.00	0.00	772	1,190	1,260	1,090
30	1,300	780	0.00	0.00	---	0.00	0.00	0.00	809	1,190	1,230	1,150
31	1,260	---	0.00	0.00	---	0.00	---	0.00	---	1,210	1,220	---
TOTAL	42,200	31,160	7,545.00	0.00	0.00	0.00	0.00	0.00	5,987.00	---	37,250	---
MEAN	1,361	1,039	243	0.00	0.00	0.00	0.00	0.00	200	---	1,202	---
MAX	1,460	1,260	763	0.00	0.00	0.00	0.00	0.00	809	---	1,300	---
MIN	1,220	780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	1,120	---
AC-FT	83,700	61,810	14,970	0.00	0.00	0.00	0.00	0.00	11,880	---	73,890	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	545	484	293	199	151	137	80.2	50.7	92.0	257	357	414
MAX	1,385	1,542	1,752	1,677	1,174	789	537	366	431	948	1,202	1,136
(WY)	(1996)	(2000)	(1995)	(1995)	(1995)	(1995)	(1993)	(1993)	(1993)	(1982)	(2005)	(1995)
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)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)

SUMMARY STATISTICS	WATER YEARS 1964 - 2005	
ANNUAL MEAN	262	
HIGHEST ANNUAL MEAN	919	1995
LOWEST ANNUAL MEAN	0.00	1964
HIGHEST DAILY MEAN	2,500	Jan 23, 1970
LOWEST DAILY MEAN	-49	Jul 14, 1990
ANNUAL SEVEN-DAY MINIMUM	-9.7	Jul 8, 1990
ANNUAL RUNOFF (AC-FT)	189,600	
10 PERCENT EXCEEDS	714	
50 PERCENT EXCEEDS	101	
90 PERCENT EXCEEDS	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.

254543080405401 TAMIAMI CANAL AT S-12-D, NEAR MIAMI, FL

LOCATION.--Lat 25°45'43", long 80°40'54", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on south bank 100 ft southwest of structure 12-D, near east boundary of Indian Reservation on U.S. Highway 41. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1963 to September 1965, October 1975 to September 1977, October 1978 to September 1979, October 1980 to September 1981 (discharge only), October 1981 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream stages. After October 1, 2003, tipping bucket rain gage maintained by the U.S. Army Corps of Engineers. After October 1, 2003, rainfall record is no longer available in the files of the U.S. Geological Survey. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station is one of several located downstream from the control structures in Levee 29 at Tamiami Canal. Gage records are primarily used to determine discharge through control structure 12-D. Discharge is the total discharge through the S-12-D structure from Conservation Area 3A. The daily discharge computed from relations between discharge, head, and gate openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions. Discharge and stage record for missing periods were fragmentary or missing from the files of the U.S. Geological Survey. Since October 1, 1989, satellite data collection platform. Rainfall data is available in files of the U.S. Geological Survey. The rainfall record was discontinued September 30, 2003. Upstream gage height records were formerly published under 254543080405400. Upstream gage height records have been relocated under 254543080405401 as "Published upstream" record in the files of the U.S. Geological Survey.

COOPERATION.--Gate-opening records provided by the U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 27 complete water years of discharge (1964-65, 1976-77, 1979, 1981-97, 1999-2001, 2003, 2005).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.99 ft Dec. 21, 1994; minimum, 5.16 ft June 19, 1989.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 11.10 ft Sept. 2; minimum, 7.88 ft May 26.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.94 ft Dec. 21, 1994; minimum, 4.70 ft June 20, 1989.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 11.06 ft Sept. 2; minimum, 7.28 ft Mar. 30, 31.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.78	10.65	10.04	10.02	---	9.26	9.14	8.46	8.53	10.11	10.83	10.96
2	10.79	10.64	10.01	10.02	---	9.25	9.12	8.46	8.71	10.14	10.81	11.02
3	10.80	10.63	9.99	10.02	---	9.24	9.11	8.48	8.82	10.16	10.79	11.06
4	10.80	10.61	9.97	10.02	9.75	9.31	9.09	8.57	8.87	10.19	10.78	11.06
5	10.81	10.59	9.94	10.00	9.75	9.30	9.06	8.76	8.94	10.21	10.77	11.04
6	10.82	10.57	9.92	10.00	9.72	9.28	9.01	8.82	9.02	10.23	10.76	11.00
7	10.83	10.56	9.90	10.00	9.70	9.25	8.95	8.84	9.03	10.25	10.78	10.97
8	10.83	10.54	9.90	10.00	9.68	9.24	9.11	8.85	9.02	10.29	10.78	10.94
9	10.83	10.52	9.90	9.99	9.65	9.28	9.13	8.85	9.00	10.48	10.76	10.91
10	10.83	10.48	9.88	9.99	9.63	9.36	9.12	8.84	9.23	10.57	10.75	10.90
11	10.83	10.45	9.87	9.98	9.63	9.34	9.09	8.80	9.39	10.65	10.75	10.93
12	10.84	10.43	9.85	9.97	9.60	9.33	9.06	8.74	9.43	---	10.79	10.93
13	10.84	10.41	9.83	9.94	9.57	9.31	9.02	8.66	9.44	---	10.82	10.89
14	10.82	10.40	9.84	9.94	9.53	9.30	8.99	8.60	9.38	---	10.81	10.83
15	10.87	10.37	9.91	10.02	9.52	9.30	8.96	8.54	9.30	---	10.82	10.79
16	10.89	10.34	9.95	10.04	9.51	9.26	8.94	8.50	9.24	---	10.80	10.76
17	10.88	10.32	9.96	10.06	9.49	9.28	8.90	8.44	9.23	---	10.77	10.77
18	10.85	10.30	9.97	10.05	9.48	9.43	8.86	8.39	9.24	---	10.76	10.79
19	10.83	10.27	9.98	10.01	9.47	9.42	8.80	8.33	9.24	---	10.76	10.81
20	10.85	10.25	9.98	9.98	9.43	9.40	8.75	8.25	9.47	10.85	10.74	10.86
21	10.91	10.22	9.98	9.96	9.40	9.39	8.70	8.16	9.71	10.85	10.75	10.87
22	10.94	10.20	9.98	9.94	9.38	9.37	8.64	8.13	9.73	10.85	10.76	10.85
23	10.94	10.19	9.99	9.94	9.36	9.35	8.55	8.14	9.72	10.85	10.78	10.84
24	10.92	10.16	9.99	9.97	9.33	9.34	8.48	8.18	9.73	10.84	10.80	10.83
25	10.90	10.16	10.01	9.93	9.31	9.32	8.38	8.10	9.73	10.83	10.83	10.80
26	10.87	10.16	10.01	9.90	9.32	9.32	8.31	7.97	9.76	10.82	10.88	10.78
27	10.83	10.13	10.04	9.88	9.26	9.28	8.41	8.07	9.81	10.82	10.98	10.75
28	10.80	10.11	10.02	9.87	9.25	9.26	8.51	8.09	9.91	10.79	10.99	10.74
29	10.74	10.09	10.01	9.85	---	9.26	8.51	8.06	10.01	10.78	10.99	10.75
30	10.70	10.06	10.01	9.83	---	9.23	8.48	8.03	10.08	10.79	10.97	10.81
31	10.67	---	10.01	9.83	---	9.19	---	8.21	---	10.82	10.96	---
TOTAL	335.84	310.81	308.64	308.95	---	288.45	265.18	261.32	280.72	---	335.32	326.24
MEAN	10.83	10.36	9.96	9.97	---	9.30	8.84	8.43	9.36	---	10.82	10.87
MAX	10.94	10.65	10.04	10.06	---	9.43	9.14	8.85	10.08	---	10.99	11.06
MIN	10.67	10.06	9.83	9.83	---	9.19	8.31	7.97	8.53	---	10.74	10.74

254543080405401 TAMIAMI CANAL AT S-12-D, NEAR MIAMI, FL—Continued

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.78	10.65	10.01	9.17	7.69	7.36	8.80	8.38	8.49	10.07	10.79	10.94
2	10.79	10.64	9.98	9.19	7.68	7.33	8.81	8.38	8.66	10.10	10.76	11.00
3	10.81	10.63	9.94	9.03	7.67	7.33	8.81	8.40	8.76	10.12	10.75	11.02
4	10.82	10.62	9.91	8.89	7.66	7.46	8.80	8.46	8.81	10.14	10.73	11.02
5	10.82	10.61	9.88	8.88	7.66	7.46	8.70	8.54	8.87	10.16	10.72	10.99
6	10.82	10.60	9.85	8.68	7.64	7.44	8.61	8.56	8.94	10.19	10.71	10.96
7	10.85	10.58	9.82	8.18	7.63	7.42	8.59	8.57	8.95	10.20	10.73	10.93
8	10.85	10.55	9.82	8.07	7.63	7.42	8.66	8.57	8.96	10.24	10.73	10.90
9	10.85	10.53	9.82	8.02	7.62	7.47	8.65	8.57	8.96	10.42	10.72	10.88
10	10.85	10.49	9.80	7.98	7.62	7.58	8.65	8.58	9.18	10.51	10.70	10.86
11	10.85	10.46	9.79	7.95	7.60	7.56	8.64	8.56	9.34	10.59	10.70	10.89
12	10.86	10.44	9.78	7.93	7.59	7.53	8.63	8.54	9.37	10.63	10.74	10.89
13	10.86	10.42	9.76	7.91	7.58	7.51	8.63	8.54	9.39	10.68	10.77	10.86
14	10.83	10.41	9.65	7.91	7.58	7.49	8.62	8.53	9.34	10.74	10.76	10.79
15	10.88	10.38	9.61	7.93	7.57	7.47	8.61	8.48	9.28	---	10.77	10.76
16	10.90	10.35	9.63	7.91	7.56	7.45	8.60	8.45	9.23	10.76	10.75	10.72
17	10.89	10.34	9.64	7.88	7.56	7.49	8.59	8.41	9.22	10.78	10.73	10.73
18	10.87	10.31	9.64	7.85	7.54	7.67	8.58	8.36	9.23	10.79	10.72	10.75
19	10.85	10.28	9.65	7.83	7.51	7.63	8.55	8.30	9.24	10.79	10.72	10.77
20	10.86	10.25	9.65	7.81	7.48	7.59	8.53	8.23	9.45	10.80	10.71	10.81
21	10.92	10.23	9.39	7.79	7.45	7.56	8.51	8.14	9.67	10.80	10.71	10.82
22	10.94	10.20	9.19	7.78	7.43	7.53	8.48	8.11	9.69	10.80	10.72	10.81
23	10.94	10.17	9.19	7.77	7.41	7.51	8.43	8.12	9.68	10.80	10.74	10.80
24	10.94	10.14	9.19	7.75	7.39	7.49	8.39	8.16	9.69	10.80	10.77	10.79
25	10.92	10.13	9.19	7.75	7.38	7.46	8.32	8.08	9.70	10.79	10.80	10.76
26	10.88	10.13	9.19	7.73	7.37	7.43	8.25	7.95	9.72	10.78	10.83	10.74
27	10.85	10.10	9.20	7.72	7.37	7.40	8.34	8.06	9.77	10.77	10.94	10.71
28	10.81	10.08	9.20	7.72	7.36	7.37	8.41	8.07	9.87	10.75	10.97	10.70
29	10.75	10.06	9.19	7.73	---	7.33	8.41	8.04	9.96	10.74	10.95	10.70
30	10.71	10.03	9.19	7.72	---	7.30	8.40	8.02	10.04	10.74	10.93	10.77
31	10.67	---	9.17	7.71	---	8.14	---	8.19	---	10.77	10.92	---
TOTAL	336.22	310.81	296.92	250.17	211.23	232.18	257.00	258.35	279.46	---	333.99	325.07
MEAN	10.85	10.36	9.58	8.07	7.54	7.49	8.57	8.33	9.32	---	10.77	10.84
MAX	10.94	10.65	10.01	9.19	7.69	8.14	8.81	8.58	10.04	---	10.97	11.02
MIN	10.67	10.03	9.17	7.71	7.36	7.30	8.25	7.95	8.49	---	10.70	10.70

254543080405401 TAMIAMI CANAL AT S-12-D, NEAR MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,000	1,030	622	279	0.00	0.00	178	42	181	657	1,140	1,070
2	1,010	1,030	608	277	0.00	0.00	169	43	200	668	1,130	1,120
3	1,030	1,030	649	238	0.00	0.00	168	44	223	675	1,120	1,140
4	1,040	1,020	682	161	0.00	0.00	163	51	228	686	1,100	1,140
5	1,040	1,020	696	161	0.00	0.00	180	71	250	693	1,080	1,110
6	1,050	1,010	669	173	0.00	0.00	191	78	270	701	1,070	1,090
7	1,070	1,000	636	80	0.00	0.00	181	80	266	704	1,080	1,060
8	1,080	987	651	0.00	0.00	0.00	148	81	267	722	1,080	1,040
9	1,080	970	650	0.00	0.00	0.00	106	81	269	839	1,060	1,030
10	1,090	948	734	0.00	0.00	0.00	105	79	329	894	1,050	1,010
11	1,090	931	762	0.00	0.00	0.00	102	75	375	941	1,040	1,040
12	1,100	918	730	0.00	0.00	0.00	100	68	387	965	1,060	1,040
13	1,100	909	717	0.00	0.00	0.00	96	83	393	1,000	1,090	1,010
14	1,090	900	985	0.00	0.00	0.00	93	81	375	1,040	1,070	962
15	1,140	884	1,240	0.00	0.00	0.00	91	72	354	e1,040	1,070	937
16	1,150	868	1,270	0.00	0.00	0.00	89	67	337	1,050	1,050	913
17	1,150	854	822	0.00	0.00	0.00	86	109	332	1,070	1,030	916
18	1,140	833	527	0.00	0.00	0.00	82	144	333	1,080	1,010	935
19	1,120	819	529	0.00	0.00	0.00	77	140	332	1,090	1,000	944
20	1,140	801	529	0.00	0.00	0.00	72	135	404	1,100	987	977
21	1,200	784	370	0.00	0.00	0.00	66	128	491	1,110	981	986
22	1,220	765	270	0.00	0.00	0.00	61	118	495	1,110	979	974
23	1,230	737	271	0.00	0.00	0.00	51	130	486	1,110	988	970
24	1,230	717	272	0.00	0.00	0.00	45	133	488	1,120	999	959
25	1,220	709	274	0.00	0.00	0.00	38	119	488	1,110	1,020	946
26	1,190	709	275	0.00	0.00	0.00	35	128	494	1,110	1,040	930
27	1,170	689	613	0.00	0.00	0.00	40	111	515	1,100	1,120	906
28	1,140	671	828	0.00	0.00	0.00	47	115	562	1,100	1,130	902
29	1,100	656	492	0.00	---	0.00	47	107	608	1,090	1,100	903
30	1,070	636	275	0.00	---	0.00	44	120	645	1,100	1,080	951
31	1,050	---	278	0.00	---	126	---	136	---	1,120	1,060	---
TOTAL	34,530	25,835	18,926	1,369.00	0.00	126.00	2,951	2,969	11,377	29,795	32,814	29,911
MEAN	1,114	861	611	44.2	0.00	4.06	98.4	95.8	379	961	1,059	997
MAX	1,230	1,030	1,270	279	0.00	126	191	144	645	1,120	1,140	1,140
MIN	1,000	636	270	0.00	0.00	0.00	35	42	181	657	979	902
AC-FT	68,490	51,240	37,540	2,720	0.00	250	5,850	5,890	22,570	59,100	65,090	59,330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	473	435	272	185	176	140	102	61.2	119	256	286	370
MAX	1,843	1,885	2,343	2,076	1,413	1,071	614	411	518	1,406	1,241	1,447
(WY)	(1996)	(1995)	(1995)	(1995)	(1995)	(1995)	(1998)	(1993)	(1993)	(1982)	(1982)	(1995)
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)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1965)	(1965)	(1965)	(1965)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	190,603.00			
ANNUAL MEAN	522		274	
HIGHEST ANNUAL MEAN			1,177	1995
LOWEST ANNUAL MEAN			0.00	1976
HIGHEST DAILY MEAN	1,270	Dec 16	2,670	Dec 22, 1994
LOWEST DAILY MEAN	0.00	Jan 8	-16	Mar 28, 1985
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 8	-2.3	Mar 28, 1985
ANNUAL RUNOFF (AC-FT)	378,100		198,700	
10 PERCENT EXCEEDS	1,100		791	
50 PERCENT EXCEEDS	491		80	
90 PERCENT EXCEEDS	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.

02289060 TAMIAMI CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°33'40", in SE $\frac{1}{4}$ sec.6, T.54 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, on south bank of Levee 29, 50 ft west of bridge 53 on U.S. Highway 41, and 22.8 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge), October 1963 to current year. October 1962 to September 1963, stage only (twice monthly) published as Tamiami Canal at bridge 45, near Miami (auxiliary). Stage records prior to October 1962, are available in files of the U.S. Geological Survey. Prior to October 1963, daily discharge for this portion of the canal was published as part of the total daily discharge of station, Tamiami Canal Outlets, Miami to Monroe (station 02289000).

REVISED RECORDS.--WDR FL-2000-2A, 1998-99.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to August 27, 1942, non-recording gage at datum 0.80 ft lower; August 27, 1942 to February 21, 1952, non-recording gage at present datum; and February 21, 1952 to August 7, 1969, water-stage recorder at same datum, all at site 4 mi to the west.

REMARKS.--Records poor. Figures of daily discharge consist of seepage through levee 29 from Conservation Area 3B and discharges from S-333 distributed along Levee 29 from Conservation Area 3A as represented by flow through all the outlets of Tamiami Canal from levee 30 to levee 67A (Bridges 45-59). Flow releases from S-334 were observed during portions of the water year. The discharge from S-334 are not included in the table of mean daily discharge for this station.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 194 ft^3/s, 165,900 acre-ft/yr. Figures represent 65 complete water years of discharge (1941-2005). Monthly discharge only, available 1941-1963 water years.
SPECIAL NOTE: Statistics for the period of record 1941-2005 computed manually. NWIS database not complete.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.76 ft Nov. 1, 1960; minimum, 1.66 ft May 13, 14, 1971.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.05 ft June 18, 20; minimum, 6.63 ft Mar 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.44	7.36	7.19	7.05	6.95	6.67	7.07	6.91	7.43	7.58	7.48	7.97
2	7.42	7.36	7.19	7.04	7.09	6.65	7.08	6.91	7.47	7.55	7.48	8.00
3	7.41	7.36	7.18	7.02	7.09	6.64	7.07	6.95	7.50	7.53	7.50	8.02
4	7.40	7.35	7.17	7.01	7.09	6.72	7.07	7.02	7.52	7.50	7.52	8.01
5	7.38	7.34	7.16	7.01	7.09	6.73	7.06	7.07	7.53	7.47	7.53	7.99
6	7.36	7.33	7.22	6.99	7.09	6.72	7.03	7.04	7.56	7.44	7.53	7.97
7	7.41	7.32	7.33	6.96	7.09	6.70	7.03	7.03	7.66	7.42	7.57	7.95
8	7.41	7.31	7.34	6.95	7.09	6.67	7.15	7.01	7.79	7.42	7.60	7.92
9	7.39	7.30	7.34	6.93	7.09	6.69	7.16	6.99	7.84	7.63	7.60	7.90
10	7.37	7.29	7.34	6.92	7.09	6.77	7.16	7.08	7.84	7.70	7.59	7.88
11	7.35	7.29	7.34	6.91	7.08	6.76	7.16	7.30	7.69	7.69	7.59	7.90
12	7.35	7.28	7.34	6.90	7.08	6.75	7.15	7.41	7.63	7.67	7.61	7.93
13	7.36	7.28	7.34	6.89	7.07	6.74	7.15	7.51	7.57	7.66	7.63	7.90
14	7.35	7.27	7.34	6.91	7.07	6.73	7.14	7.51	7.76	7.65	7.62	7.87
15	7.40	7.27	7.30	6.93	7.03	6.72	7.13	7.50	7.96	7.63	7.65	7.85
16	7.38	7.26	7.24	6.93	6.91	6.75	7.11	7.48	7.97	7.63	7.65	7.83
17	7.37	7.26	7.22	6.90	6.84	6.78	7.10	7.47	7.98	7.62	7.65	7.82
18	7.37	7.25	7.22	6.89	6.81	6.87	7.09	7.46	8.00	7.60	7.64	7.81
19	7.38	7.25	7.21	6.88	6.79	6.87	7.06	7.45	8.03	7.59	7.63	7.78
20	7.42	7.25	7.19	6.88	6.78	6.86	7.04	7.44	7.94	7.58	7.63	7.82
21	7.58	7.24	7.19	6.87	6.76	6.85	7.01	7.43	7.84	7.55	7.65	7.90
22	7.51	7.23	7.17	6.86	6.75	6.93	7.01	7.43	7.78	7.54	7.67	7.90
23	7.49	7.23	7.14	6.85	6.72	7.06	6.98	7.37	7.76	7.52	7.68	7.90
24	7.48	7.22	7.13	6.83	6.71	7.07	6.95	7.22	7.72	7.50	7.65	7.88
25	7.47	7.23	7.11	6.83	6.71	7.07	6.92	7.19	7.67	7.48	7.68	7.86
26	7.46	7.23	7.10	6.82	6.69	7.07	6.89	7.16	7.64	7.48	7.91	7.88
27	7.45	7.22	7.08	6.83	6.70	7.07	6.93	7.18	7.61	7.51	8.01	7.89
28	7.42	7.22	7.07	6.86	6.69	7.06	6.94	7.18	7.59	7.50	8.02	7.89
29	7.39	7.21	7.06	6.87	---	7.06	6.94	7.20	7.58	7.50	8.01	7.89
30	7.38	7.20	7.06	6.87	---	7.08	6.92	7.29	7.58	7.48	7.99	7.88
31	7.36	---	7.05	6.87	---	7.08	---	7.35	---	7.48	7.98	---
TOTAL	229.71	218.21	223.36	214.26	193.95	212.19	211.50	224.54	231.44	234.10	237.95	236.99
MEAN	7.41	7.27	7.21	6.91	6.93	6.84	7.05	7.24	7.71	7.55	7.68	7.90
MAX	7.58	7.36	7.34	7.05	7.09	7.08	7.16	7.51	8.03	7.70	8.02	8.02
MIN	7.35	7.20	7.05	6.82	6.69	6.64	6.89	6.91	7.43	7.42	7.48	7.78

02289060 TAMIAMI CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	85	56	74	166	9.7	190	110	521	167	201	99
2	70	82	55	71	229	8.5	191	109	563	155	215	111
3	62	83	54	68	235	8.2	189	121	596	144	230	123
4	56	82	52	64	236	23	191	143	615	133	239	127
5	56	83	50	63	237	25	183	163	630	124	233	126
6	57	82	83	60	241	23	171	148	657	115	228	125
7	74	82	197	53	242	21	169	144	796	106	240	124
8	81	82	201	51	245	19	264	139	992	105	250	122
9	82	81	203	47	246	25	279	132	1,080	148	240	119
10	83	81	204	45	248	51	278	178	1,070	134	229	119
11	86	81	204	43	247	50	276	337	803	126	220	133
12	93	82	202	42	245	48	271	505	696	121	223	152
13	103	83	203	40	241	46	268	623	597	116	220	146
14	108	83	201	42	244	44	263	626	858	112	211	145
15	135	85	185	46	221	42	256	617	1,240	109	219	142
16	138	85	155	44	150	48	243	597	1,270	115	209	141
17	143	82	146	41	108	53	235	585	1,290	118	203	137
18	153	79	144	38	89	77	226	575	1,340	121	198	132
19	150	79	137	38	75	82	205	560	1,390	124	193	123
20	165	76	132	41	63	87	190	551	818	128	193	139
21	235	74	129	45	52	91	175	543	308	127	205	164
22	190	72	118	49	43	126	169	544	271	129	216	160
23	174	69	111	53	35	184	156	480	259	130	218	153
24	162	68	104	54	28	188	142	353	233	131	203	142
25	155	67	98	60	24	189	128	333	208	132	217	131
26	142	67	95	64	19	188	114	306	192	143	310	134
27	136	65	87	74	16	188	124	319	181	162	317	134
28	121	63	84	89	13	185	126	316	170	168	266	130
29	106	61	82	100	---	182	123	332	166	176	210	125
30	98	57	79	110	---	192	117	404	166	182	161	118
31	90	---	77	119	---	194	---	444	---	190	123	---
TOTAL	3,584	2,301	3,928	1,828	4,238	2,697.4	5,912	11,337	19,976	4,191	6,840	3,976
MEAN	116	76.7	127	59.0	151	87.0	197	366	666	135	221	133
MAX	235	85	204	119	248	194	279	626	1,390	190	317	164
MIN	56	57	50	38	13	8.2	114	109	166	105	123	99
AC-FT	7,110	4,560	7,790	3,630	8,410	5,350	11,730	22,490	39,620	8,310	13,570	7,890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	201	206	165	133	177	172	169	144	119	164	246	186
MAX	763	624	785	725	976	979	914	784	666	828	1,230	694
(WY)	(1993)	(1986)	(1993)	(2003)	(1993)	(1993)	(1993)	(1993)	(2005)	(1986)	(2001)	(1991)
MIN	48.0	46.9	23.4	1.99	0.90	0.00	-0.77	-2.61	-0.37	-0.55	1.58	18.0
(WY)	(1981)	(1972)	(1974)	(1990)	(1990)	(1974)	(1964)	(1964)	(1965)	(1965)	(1965)	(1989)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	58,838.7		70,808.4			
ANNUAL MEAN	161		194		173	
HIGHEST ANNUAL MEAN					660	1993
LOWEST ANNUAL MEAN					28.3	1974
HIGHEST DAILY MEAN	838	Feb 26	1,390	Jun 19	1,780	Mar 1, 2000
LOWEST DAILY MEAN	8.8	Jun 3	8.2	Mar 3	-7.0	May 11, 1964
ANNUAL SEVEN-DAY MINIMUM	13	May 31	14	Feb 26	-5.9	May 7, 1964
MAXIMUM PEAK FLOW			1,440	Jun 18	1,780	Mar 1, 2000
MAXIMUM PEAK STAGE			8.05	Jun 18	9.76	Nov 1, 1960
INSTANTANEOUS LOW FLOW			7.7	Mar 3	-7.0	May 7, 1964
ANNUAL RUNOFF (AC-FT)	116,700		140,400		125,600	
10 PERCENT EXCEEDS	430		335		477	
50 PERCENT EXCEEDS	102		135		93	
90 PERCENT EXCEEDS	23		50		2.3	

The period of record statistics were computed from complete water year's of record stored in the NWIS database. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript for the statistics for the complete period of record (1941-2001).

02289500 TAMIAMI CANAL NEAR CORAL GABLES, FL

LOCATION.--Lat 25°45'43", long 80°19'42", in SW $^1/_4$ sec.3, T.54 S., R.40 E., Miami-Dade County, Hydrologic Unit 03090202, on upstream side of footbridge, 25 ft from south bank, 0.5 mi upstream from Coral Gables Canal, 2.5 mi west of Coral Gables city limits, 3.5 mi downstream from Snapper Creek Canal, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1940 to June 1943, October 1959 to current year.

REVISED RECORDS.--WDR FL-87-2A, 1986; WDR FL-97-2A, 1995; WDR FL-98-2A, 1997.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. January 1940 to June 1943, non-recording gage at same site at datum 0.22 ft lower. Benchmark was readjusted, datum prior to 1963, 0.48 lower.

REMARKS.--Records poor. The flow is slightly affected by tide and is regulated by control structures downstream at the Coral Gables Canal, Comfort Canal (S-25), S-25A, S-25B and upstream by S-336 and drainage from the Snapper Creek. Discharge computed from continuous velocity record obtained from acoustic velocity metering system and stage. Records of gage height prior to October 1960, are available in files of the U.S. Geological Survey.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 33 complete water years of discharge (1941, 42, 1960-83, 1985-88, 1990, 2001, 2005).

EXTREME STAGES FOR OUTSIDE PERIOD OF RECORD.--Maximum stage known, 8.01 ft Oct. 12, 1947, present datum, from non-recording gage reading.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.90 ft Oct. 4, 2000; minimum, 1.08 ft May 31, 1962.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 4.38 ft Aug. 26; minimum, 2.19 ft Aug. 21.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.57	2.68	3.15	3.13	3.12	2.82	2.93	2.78	3.11	2.95	2.52	2.64
2	2.52	2.73	3.15	3.13	3.12	2.79	2.94	2.78	2.99	2.89	2.48	2.59
3	2.47	3.11	3.18	3.13	3.11	2.77	2.94	2.87	2.74	2.82	2.50	2.55
4	2.44	3.16	3.19	3.12	3.11	3.00	2.91	2.97	2.88	2.71	2.57	2.58
5	2.52	3.05	3.06	3.11	3.10	2.99	2.84	2.98	2.89	2.69	2.62	2.60
6	2.50	3.03	2.88	3.10	3.09	2.96	2.71	2.99	2.95	2.68	2.67	2.60
7	2.69	3.02	2.82	3.09	3.08	2.93	2.81	3.12	2.89	2.70	2.76	2.57
8	2.75	2.99	2.77	3.08	3.07	2.88	3.05	3.14	2.81	2.64	2.71	2.53
9	2.78	3.05	2.73	3.08	3.05	2.71	3.10	3.14	2.75	3.06	2.63	2.57
10	2.78	3.11	2.72	3.06	3.05	3.05	3.12	3.16	3.07	2.94	2.57	2.66
11	2.76	3.17	2.79	2.99	3.03	3.07	3.17	3.15	3.26	2.86	2.57	2.82
12	2.76	3.15	2.97	2.75	3.01	3.05	3.16	3.12	3.23	2.82	2.51	2.99
13	2.76	3.20	2.95	2.71	3.00	3.04	3.14	3.04	3.06	2.80	2.53	2.82
14	2.74	3.14	2.75	2.92	2.99	3.03	3.07	3.01	3.00	2.83	2.51	2.71
15	3.04	3.16	2.78	3.08	2.98	3.01	2.95	3.03	2.92	---	2.45	2.75
16	3.05	3.14	2.96	3.10	2.96	2.99	2.95	3.00	2.89	2.80	2.40	2.75
17	2.98	3.10	3.02	3.10	2.95	3.02	2.91	2.95	3.19	2.76	2.40	2.73
18	2.94	3.02	3.05	3.09	2.94	3.08	2.91	2.94	3.16	2.73	2.38	2.69
19	2.89	2.99	3.06	3.10	2.93	3.06	2.89	2.93	3.13	2.68	2.33	2.58
20	2.88	2.97	3.07	3.09	2.91	2.88	2.89	2.95	3.61	2.70	2.31	2.74
21	2.95	2.94	3.08	3.08	2.89	2.81	2.87	2.92	3.94	2.68	2.32	2.80
22	3.06	2.92	3.08	3.08	2.88	2.74	2.86	2.93	3.51	2.67	2.35	2.68
23	2.94	3.00	3.09	3.08	2.86	2.73	2.85	2.98	3.28	2.64	2.42	2.61
24	2.86	3.16	3.09	3.06	2.86	2.94	2.84	2.93	3.31	2.61	2.41	2.54
25	2.84	3.11	3.09	3.05	2.87	2.98	2.83	2.92	3.22	2.61	2.62	2.48
26	2.87	2.96	3.08	3.04	2.86	2.99	2.81	2.96	3.07	2.57	4.01	2.47
27	2.85	2.93	3.08	3.04	2.85	2.99	2.80	3.03	2.98	2.56	3.50	2.53
28	2.79	2.90	3.09	3.08	2.84	2.99	2.81	3.02	2.94	2.55	3.04	2.65
29	2.74	2.92	3.09	3.16	---	2.97	2.80	3.04	2.86	2.60	2.70	2.60
30	2.73	3.10	3.13	3.16	---	2.96	2.79	3.15	2.79	2.51	2.58	2.55
31	2.71	---	3.13	3.14	---	2.95	---	3.08	---	2.51	2.60	---
TOTAL	86.16	90.91	93.08	94.93	83.51	91.18	87.65	93.01	92.43	---	80.97	79.38
MEAN	2.78	3.03	3.00	3.06	2.98	2.94	2.92	3.00	3.08	---	2.61	2.65
MAX	3.06	3.20	3.19	3.16	3.12	3.08	3.17	3.16	3.94	---	4.01	2.99
MIN	2.44	2.68	2.72	2.71	2.84	2.71	2.71	2.78	2.74	---	2.31	2.47

02289500 TAMIAMI CANAL NEAR CORAL GABLES, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	e306	211	e221	207	169	172	e88	304	359	317	e276
2	290	295	216	e213	207	172	172	e58	330	356	312	e265
3	279	246	210	e213	205	168	172	121	346	e388	311	e257
4	272	e279	219	208	199	166	170	207	392	e396	314	e250
5	254	e274	267	207	198	170	178	e259	e397	e364	314	e246
6	272	280	285	204	193	173	182	e258	e413	364	e322	e244
7	e288	268	290	203	197	173	166	e222	387	356	e351	e243
8	320	260	279	202	196	187	222	215	355	326	e300	e244
9	320	e252	286	198	195	223	112	226	347	358	e330	e248
10	321	e247	302	196	193	189	99	e239	406	384	e308	255
11	327	e245	251	219	194	184	81	e255	461	e377	e314	257
12	330	e244	189	268	190	189	72	e242	464	e386	e318	267
13	319	e246	209	244	189	185	71	e264	422	e383	e301	286
14	310	e250	254	189	192	183	76	e269	395	373	e321	293
15	345	e257	219	196	192	179	83	e227	382	e384	e286	275
16	390	263	176	199	190	182	67	211	374	369	e254	294
17	392	271	169	199	187	187	68	219	393	361	244	289
18	389	276	171	200	185	267	58	208	395	365	236	324
19	e381	283	175	194	188	260	63	206	e416	355	e231	e295
20	e389	284	178	196	186	276	59	204	492	354	e230	249
21	401	e284	175	200	187	271	62	211	534	348	e245	286
22	338	271	175	198	184	259	e71	202	470	350	e251	296
23	310	235	182	191	181	245	e72	200	e439	e365	e249	294
24	285	214	e183	195	180	197	e84	216	e453	e363	e228	298
25	284	253	e188	191	175	190	67	213	e431	e319	e226	316
26	282	286	e207	189	171	187	55	196	e408	309	373	287
27	294	278	e217	192	171	184	56	189	356	319	e356	300
28	289	281	230	190	167	181	71	207	345	326	337	303
29	278	286	225	214	---	177	67	227	328	329	e317	279
30	e283	224	219	207	---	175	e90	247	336	319	e302	276
31	e291	---	221	207	---	172	---	289	---	315	e288	---
TOTAL	9,827	7,938	6,778	6,343	5,299	6,120	3,038	6,595	11,971	11,020	9,086	8,292
MEAN	317	265	219	205	189	197	101	213	399	355	293	276
MAX	401	306	302	268	207	276	222	289	534	396	373	324
MIN	254	214	169	189	167	166	55	58	304	309	226	243
AC-FT	19,490	15,750	13,440	12,580	10,510	12,140	6,030	13,080	23,740	21,860	18,020	16,450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	199	167	164	142	129	109	82.6	89.5	151	161	170	190
MAX	398	376	346	380	329	304	286	283	399	485	344	432
(WY)	(1961)	(1960)	(1961)	(1961)	(1961)	(1983)	(1960)	(1979)	(2005)	(1991)	(1994)	(1960)
MIN	37.1	12.8	33.4	25.9	4.11	10.4	-5.43	-54.5	7.03	35.3	39.1	33.5
(WY)	(1990)	(1990)	(1990)	(1989)	(1991)	(1990)	(1975)	(1991)	(1974)	(1990)	(1965)	(1989)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	92,307			
ANNUAL MEAN	253		142	
HIGHEST ANNUAL MEAN			288	1960
LOWEST ANNUAL MEAN			30.8	1990
HIGHEST DAILY MEAN	534	Jun 21	1,120	Oct 16, 1999
LOWEST DAILY MEAN	55	Apr 26	-259	May 22, 1991
ANNUAL SEVEN-DAY MINIMUM	64	Apr 16	-127	May 17, 1991
ANNUAL RUNOFF (AC-FT)	183,100		103,100	
10 PERCENT EXCEEDS	371		273	
50 PERCENT EXCEEDS	249		123	
90 PERCENT EXCEEDS	172		32	

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.

254315080331500 NORTHEAST SHARK RIVER SLOUGH NO. 2 NEAR COOPERTOWN, FL

LOCATION.--Lat 25°43'11", long 80°33'26", in NW ¼ sec.4, T.54 S., Miami-Dade County, Hydrologic Unit 03090202, 2.7 mi south of Coopertown in Northeast Shark River Slough.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to September 1980, October 1982 to current year (gage heights only). Published as "Northeast Shark Valley Slough No. 2 near Coopertown" October 1976 to September 1977.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 5.4 ft above National Geodetic Vertical Datum of 1929. Water levels below land-surface datum are recorded.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.51 ft Oct. 16, 1999; minimum, 3.41 ft estimated, Apr. 23, 1979.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.79 ft Aug. 28; minimum, 6.10 ft May 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.24	7.15	6.94	6.76	6.50	6.25	6.19	6.13	6.57	7.33	7.15	7.72
2	7.21	7.14	6.94	6.74	6.48	6.23	6.18	6.11	6.61	7.30	7.13	7.75
3	7.20	7.13	6.93	6.73	6.48	6.21	6.18	6.18	6.67	7.27	7.14	7.77
4	7.19	7.12	6.92	6.72	6.47	6.26	6.17	6.32	6.72	7.25	7.17	7.76
5	7.17	7.11	6.92	6.71	6.46	6.25	6.16	6.43	6.74	7.21	7.16	7.74
6	7.15	7.10	6.91	6.70	6.46	6.24	6.15	6.42	6.76	7.18	7.18	7.71
7	7.20	7.09	6.90	6.68	6.45	6.22	6.14	6.41	6.78	7.15	7.24	7.69
8	7.19	7.08	6.90	6.67	6.44	6.21	6.28	6.39	6.79	7.14	7.26	7.66
9	7.17	7.07	6.91	6.66	6.44	6.22	6.31	6.37	6.84	7.36	---	7.63
10	7.14	7.06	6.91	6.65	6.44	6.26	6.31	6.35	7.11	7.44	---	7.61
11	7.13	7.05	6.91	6.64	6.43	6.25	6.31	6.34	7.23	7.44	7.24	7.63
12	7.13	7.04	6.91	6.62	6.42	6.23	6.31	6.32	7.23	7.41	7.23	7.64
13	7.12	7.03	6.91	6.61	6.41	6.22	6.31	6.31	7.20	7.39	7.24	7.61
14	7.11	7.03	6.91	6.60	6.40	6.20	6.31	6.31	7.16	7.38	7.27	7.58
15	7.15	7.03	6.91	6.63	6.39	6.19	6.30	6.32	7.14	---	7.34	7.55
16	7.16	7.02	6.90	6.64	6.38	6.17	6.29	6.34	7.15	7.37	7.32	7.53
17	7.15	7.01	6.90	6.63	6.38	6.19	6.29	6.36	7.17	7.35	7.30	7.52
18	7.14	7.00	6.89	6.62	6.37	6.32	6.28	6.37	7.21	7.33	7.29	7.53
19	7.14	7.00	6.89	6.60	6.36	6.30	6.28	6.38	7.29	7.31	7.28	7.51
20	7.17	6.99	6.88	6.59	6.34	6.29	6.27	6.39	7.42	7.29	7.27	7.58
21	7.27	6.98	6.86	6.58	6.33	6.28	6.26	6.41	7.54	7.27	7.27	7.65
22	7.28	6.98	6.86	6.56	6.32	6.27	6.25	6.43	7.52	7.24	7.32	7.64
23	7.26	6.97	6.85	6.55	6.30	6.26	6.25	6.45	7.51	7.22	7.36	7.63
24	7.25	6.97	6.84	6.54	6.29	6.25	6.23	6.45	7.47	7.20	7.35	7.60
25	7.23	6.98	6.83	6.52	6.28	6.24	6.22	6.45	7.42	7.18	7.39	7.59
26	7.22	6.97	6.83	6.51	6.27	6.24	6.20	6.44	7.39	7.17	7.66	7.58
27	7.21	6.97	6.81	6.50	6.27	6.23	6.19	6.44	7.38	7.18	7.77	7.58
28	7.19	6.97	6.80	6.50	6.26	6.23	6.18	6.44	7.36	7.17	7.78	7.60
29	7.18	6.97	6.79	6.54	---	6.22	6.16	6.46	7.35	7.16	7.77	7.59
30	7.17	6.96	6.78	6.52	---	6.20	6.14	6.50	7.34	7.16	7.75	7.59
31	7.15	---	6.76	6.51	---	6.20	---	6.52	---	7.15	7.74	---
TOTAL	222.67	210.97	213.20	205.03	178.82	193.33	187.10	197.54	214.07	---	---	228.77
MEAN	7.18	7.03	6.88	6.61	6.39	6.24	6.24	6.37	7.14	---	---	7.63
MAX	7.28	7.15	6.94	6.76	6.50	6.32	6.31	6.52	7.54	---	---	7.77
MIN	7.11	6.96	6.76	6.50	6.26	6.17	6.14	6.11	6.57	---	---	7.51

254130080380500 NORTHEAST SHARK RIVER SLOUGH NO. 1 NEAR COOPERTOWN, FL

LOCATION.--Lat 25°41'30", long 80°38'05" in NW $^1/_4$ sec.4, T.54 S., R.31 E., Miami-Dade County, Hydrologic Unit 03090202, 0.7 mi west of southeast corner of Blue Shanty Canal, 0.8 mi south of east-west section of Shanty Canal, and 4.7 mi southwest of Coopertown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to September 1980, July 1982 to current year (gage heights only).

REVISED RECORDS.--WDR FL-79-2A, 1977; WDR FL-96-2A, 1995.

GAGE.--Satellite data collection platform with water-stage shaft encoder and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 5.9 ft above National Geodetic Vertical Datum of 1929. Rainfall data available in files of the U.S. Geological Survey. Water levels below land-surface datum are recorded. Prior to October 1977, published as "Northeast Shark Valley Slough No. 1 near Coopertown." (Corrected).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.54 ft Oct. 16, 1999; minimum, indeterminate, well was dry.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.04 ft Sept. 2, 3; minimum, 6.23 ft May 2, 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.46	7.46	7.30	6.99	6.66	6.38	6.33	6.24	6.43	7.46	7.45	7.91
2	7.43	7.45	7.29	6.98	6.65	6.38	6.32	6.24	6.46	7.43	7.47	7.95
3	7.41	7.45	7.29	6.96	6.63	6.37	6.32	6.24	6.54	7.40	7.46	8.01
4	7.40	7.44	7.27	6.96	6.62	6.39	6.30	6.30	6.56	7.37	7.45	7.96
5	7.39	7.43	7.26	6.94	6.61	6.41	6.29	6.43	6.60	7.35	7.45	7.93
6	7.37	7.42	7.26	6.94	6.61	6.39	6.28	6.44	6.68	7.32	7.45	7.91
7	7.40	7.42	7.25	6.93	6.59	6.38	6.27	6.42	6.74	7.30	7.49	7.88
8	7.41	7.41	7.25	6.92	6.58	6.37	---	6.40	6.86	7.29	7.49	7.85
9	7.39	7.39	7.24	6.91	6.57	6.38	6.42	6.39	6.88	7.51	7.48	7.82
10	7.38	7.39	7.24	6.88	6.56	6.42	6.42	6.37	7.13	7.55	7.48	7.79
11	7.37	7.38	7.23	6.86	6.55	6.42	6.41	6.36	7.26	7.54	7.47	7.80
12	7.38	7.38	7.22	6.85	6.54	6.41	6.40	6.35	7.25	7.52	7.48	7.81
13	7.39	7.37	7.21	6.82	6.53	6.39	6.39	6.34	7.21	7.51	7.52	7.81
14	7.38	7.37	7.20	6.83	6.51	6.38	6.39	6.33	7.18	7.50	7.54	7.79
15	7.43	7.37	7.19	6.84	6.50	6.37	6.38	6.33	7.15	---	7.58	7.77
16	7.45	7.36	7.18	6.85	6.49	6.36	6.37	6.38	7.14	7.50	7.58	7.74
17	7.44	7.34	7.17	6.83	6.49	6.37	6.36	6.38	7.13	7.50	7.57	7.73
18	7.44	7.34	7.17	6.81	6.47	6.49	6.36	6.38	7.18	7.48	7.56	7.72
19	7.43	7.34	7.16	6.80	6.46	6.49	6.34	6.37	7.28	7.47	7.55	7.71
20	7.47	7.33	7.15	6.78	6.45	6.48	6.34	6.37	7.39	7.46	7.56	7.83
21	7.54	7.33	7.13	6.77	6.45	6.46	6.33	6.37	7.56	7.46	7.59	7.91
22	7.54	7.32	7.12	6.75	6.43	6.45	6.33	6.38	7.63	7.44	7.58	7.89
23	7.53	7.32	7.11	6.73	6.42	6.43	6.33	6.38	7.62	7.43	7.63	7.87
24	7.52	7.32	7.10	6.72	6.41	6.42	6.32	6.38	7.54	7.43	7.62	7.84
25	7.50	7.33	7.09	6.70	6.40	6.41	6.31	6.38	7.49	7.42	7.64	7.82
26	7.49	7.34	7.07	6.69	6.39	6.39	6.30	6.38	7.44	7.43	7.85	7.81
27	7.49	7.33	7.05	6.68	6.40	6.38	6.29	6.38	7.43	7.47	7.98	7.80
28	7.47	7.33	7.04	6.67	6.39	6.37	6.28	6.38	7.43	7.45	7.96	7.79
29	7.46	7.32	7.02	6.68	---	6.36	6.25	6.37	7.46	7.44	7.93	7.79
30	7.46	7.30	7.02	6.68	---	6.34	6.25	6.39	7.48	7.47	7.90	7.83
31	7.45	---	7.01	6.67	---	6.34	---	6.41	---	7.47	7.89	---
TOTAL	230.67	221.08	222.29	211.42	182.36	198.38	---	197.26	214.13	---	235.65	235.07
MEAN	7.44	7.37	7.17	6.82	6.51	6.40	---	6.36	7.14	---	7.60	7.84
MAX	7.54	7.46	7.30	6.99	6.66	6.49	---	6.44	7.63	---	7.98	8.01
MIN	7.37	7.30	7.01	6.67	6.39	6.34	---	6.24	6.43	---	7.45	7.71

254100080402400 L-67 EXTENDED CANAL WEST NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°41'00", long 80°40'24", between sec.24, T.55 S., R.36 E., and sec.6, T.55 S., R.37 E., between hiatus of unsurveyed area, Miami-Dade County, Hydrologic Unit 03090202, 5.8 mi south of U.S. Highway 41 on the Levee 67 extension and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1983 to current year (gage heights only).

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--During the 1999 water year, due to a change in starting benchmarks, a -0.12 ft datum correction was applied to published records for the 1984 to 1996 water years. Revised daily mean values for 1984 - 1996 are available in the files of the U.S. Geological Survey.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.32 ft Oct. 16, 1999; minimum, 3.38 ft Apr. 8, 1990.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.74 ft Sept. 2; minimum, 6.29 ft Mar. 30, 31.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.14	8.35	8.09	7.39	6.71	6.39	6.52	6.53	6.65	7.82	8.27	8.61
2	8.14	8.35	8.07	7.38	6.69	6.37	6.62	6.53	6.77	7.83	8.31	8.64
3	8.15	8.34	8.06	7.37	6.68	6.36	6.66	6.55	6.86	7.83	8.29	8.72
4	8.15	8.33	8.05	7.35	6.68	6.45	6.69	6.65	6.89	7.82	8.29	8.70
5	8.16	8.33	8.03	7.33	6.66	6.44	6.70	6.79	6.94	7.82	8.28	8.69
6	8.16	8.32	8.02	7.30	6.65	6.42	6.69	6.79	7.02	7.82	8.27	8.66
7	8.19	8.31	8.01	7.27	6.63	6.40	6.68	6.76	7.09	7.81	8.26	8.65
8	8.20	8.31	7.98	7.23	6.62	6.39	6.77	6.75	7.18	7.85	8.27	8.63
9	8.20	8.29	7.96	7.18	6.61	6.42	6.79	6.75	7.20	8.06	8.27	8.61
10	8.20	8.28	7.94	7.14	6.59	6.49	6.78	6.74	7.41	8.07	8.29	8.59
11	8.21	8.27	7.91	7.10	6.57	6.46	6.76	6.73	7.49	8.07	8.30	8.57
12	8.23	8.27	7.88	7.05	6.55	6.44	6.75	6.71	7.47	8.08	8.33	8.59
13	8.24	8.26	7.85	7.02	6.54	6.41	6.74	6.70	7.44	8.10	8.44	8.61
14	8.24	8.25	7.83	7.00	6.53	6.41	6.73	6.69	7.41	8.15	8.45	8.59
15	---	8.25	7.81	7.02	6.51	6.39	6.72	6.72	7.39	8.16	8.49	8.56
16	---	8.23	7.77	7.00	6.50	6.37	6.71	6.74	7.36	8.16	8.49	8.55
17	---	8.22	7.74	6.97	6.49	6.41	6.70	6.71	7.34	8.18	8.47	8.55
18	---	8.21	7.72	6.94	6.48	6.57	6.69	6.68	7.35	8.18	8.43	8.55
19	---	8.20	7.70	6.91	6.47	6.54	6.68	6.66	7.39	8.18	8.42	8.53
20	---	8.19	7.67	6.88	6.45	6.51	6.67	6.64	7.50	8.19	8.41	8.62
21	8.41	8.17	7.64	6.86	6.44	6.49	6.67	6.64	7.65	8.19	8.42	8.68
22	8.41	8.17	7.62	6.84	6.43	6.47	6.65	6.65	7.68	8.19	8.44	8.66
23	8.39	8.15	7.58	6.82	6.41	6.46	6.64	6.63	7.69	8.20	8.50	8.65
24	8.39	8.15	7.56	6.80	6.40	6.43	6.61	6.60	7.66	8.21	8.49	8.64
25	8.38	8.15	7.53	6.78	6.40	6.42	6.58	6.57	7.66	8.23	8.51	8.63
26	8.38	8.15	7.50	6.76	6.40	6.40	6.54	6.55	7.65	8.25	8.57	8.61
27	8.37	8.13	7.48	6.74	6.41	6.38	6.53	6.52	7.65	8.29	8.62	8.60
28	8.37	8.13	7.45	6.74	6.41	6.36	6.53	6.51	7.64	8.27	8.63	8.59
29	8.36	8.11	7.43	6.76	---	6.33	6.53	6.50	7.74	8.26	8.63	8.61
30	8.35	8.09	7.42	6.74	---	6.31	6.52	6.52	7.81	8.24	8.62	8.64
31	8.35	---	7.40	6.72	---	6.34	---	6.59	---	8.24	8.61	---
TOTAL	---	246.96	240.70	217.39	182.91	199.03	199.85	206.10	220.98	250.75	261.07	258.53
MEAN	---	8.23	7.76	7.01	6.53	6.42	6.66	6.65	7.37	8.09	8.42	8.62
MAX	---	8.35	8.09	7.39	6.71	6.57	6.79	6.79	7.81	8.29	8.63	8.72
MIN	---	8.09	7.40	6.72	6.40	6.31	6.52	6.50	6.65	7.81	8.26	8.53

254100080402200 NORTHEAST SHARK RIVER SLOUGH EAST OF L 67 EXT. NEAR RICHMOND HEIGHTS, FL

LOCATION.--Lat 25°41'00", long 80°40'22", in NW $^1/_4$ sec.6, T.55 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, 5.8 mi south of U.S. Highway 41 on the Levee 67 extension and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1984 to current year (gage heights only).

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Due to a change in the starting benchmarks, a -0.12 ft datum correction was applied to the published records for the 1984 to 1996 water years. Revised daily mean values for 1984-1996 are available in the files of the U.S. Geological Survey.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.85 ft Oct. 15, 1999; minimum, indeterminate, well was dry.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.47 ft Sept. 2; minimum 6.23 ft Apr. 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.94	8.06	---	7.24	6.68	6.37	6.26	6.33	6.59	7.72	8.04	8.31
2	7.94	8.06	---	7.23	6.67	6.34	6.29	6.33	6.69	7.72	8.06	8.35
3	7.94	8.05	---	7.22	6.66	6.34	6.33	6.41	6.80	7.71	8.04	8.42
4	7.94	8.04	---	7.20	6.66	6.54	6.37	6.62	6.80	7.69	8.04	8.39
5	7.94	8.04	---	7.18	6.64	6.49	6.43	6.78	6.82	7.69	8.04	8.38
6	7.94	8.03	---	7.15	6.61	6.43	6.46	6.70	6.87	7.68	8.03	8.36
7	---	8.02	---	7.13	6.60	6.39	6.47	6.65	6.95	7.68	8.02	8.34
8	---	8.01	---	7.11	6.58	6.39	6.74	6.62	7.06	7.71	8.04	8.31
9	---	8.00	---	7.08	6.57	6.46	6.70	6.59	7.11	7.92	8.04	8.29
10	---	7.99	---	7.04	6.56	6.61	6.66	6.57	7.33	7.92	8.04	8.27
11	---	7.98	---	7.00	6.54	6.53	6.64	6.57	7.40	7.93	8.04	8.26
12	---	7.98	---	6.97	6.52	6.47	6.62	6.57	7.38	7.93	8.06	8.27
13	---	7.97	---	6.94	6.51	6.43	6.61	6.55	7.35	7.94	8.15	8.30
14	---	7.97	---	6.93	6.50	6.40	6.59	6.54	7.32	7.98	8.17	8.27
15	---	7.95	---	6.95	6.49	6.38	6.57	6.61	7.29	8.00	8.19	8.25
16	---	7.94	---	6.94	6.47	6.36	6.55	6.71	7.27	8.00	8.18	8.23
17	---	7.93	7.54	6.92	6.47	6.44	6.54	6.67	7.25	8.02	8.16	8.23
18	---	---	7.52	6.89	6.45	6.74	6.53	6.63	7.28	8.01	8.15	8.23
19	---	---	7.50	6.87	6.43	6.63	6.52	6.59	7.34	8.01	8.14	8.22
20	---	---	7.47	6.85	6.42	6.56	6.51	6.57	7.45	8.03	8.13	8.32
21	8.12	---	7.46	6.84	6.40	6.52	6.51	6.64	7.60	8.03	8.14	8.39
22	8.12	---	7.43	6.81	6.39	6.49	6.50	6.72	7.65	8.02	8.15	8.37
23	8.11	---	7.41	6.80	6.38	6.46	6.48	6.65	7.65	7.95	8.19	8.35
24	8.10	---	7.39	6.76	6.37	6.44	6.46	6.59	7.60	7.96	8.18	8.33
25	8.09	---	7.36	6.74	6.37	6.41	6.43	6.55	7.57	8.00	8.21	8.31
26	8.09	---	7.34	6.73	6.37	6.38	6.41	6.51	7.56	8.01	8.30	8.29
27	8.08	---	7.32	6.71	6.43	6.36	6.42	6.48	7.56	8.04	8.36	8.28
28	8.07	---	7.30	6.72	6.41	6.34	6.39	6.45	7.58	8.02	8.38	8.27
29	8.07	---	7.28	6.73	---	6.31	6.36	6.46	7.66	8.02	8.35	8.29
30	8.06	---	7.28	6.72	---	6.29	6.33	6.52	7.71	8.02	8.33	8.35
31	8.06	---	7.26	6.70	---	6.27	---	6.60	---	8.01	8.30	---
TOTAL	---	---	---	215.10	182.15	199.57	194.68	203.78	218.49	245.37	252.65	249.23
MEAN	---	---	---	6.94	6.51	6.44	6.49	6.57	7.28	7.92	8.15	8.31
MAX	---	---	---	7.24	6.68	6.74	6.74	6.78	7.71	8.04	8.38	8.42
MIN	---	---	---	6.70	6.37	6.27	6.26	6.33	6.59	7.68	8.02	8.22

253828080391100 NORTHEAST SHARK RIVER SLOUGH NO. 4, NORTH OF GROSSMAN, FL

LOCATION.--Lat 25°38'24", long 80°39'10", in NW $\frac{1}{4}$ sec.4, T.54 S., R. Government Lot 6 E., Miami-Dade County, Hydrologic Unit 03090202, approximately 2.0 mi northeast of the extreme southern end of the Levee 67 extension and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1985 to current year (gage heights only).

REVISED RECORDS.--WDR FL-93-2A, 1990-1992; WDR FL-95-2A, 1994; WDR FL-96-2A, 1993, 1986-1989 (extremes only).

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Hurricane Andrew destroyed the gage and all reference marks in 1992. The station was rebuilt on February 19, 1993, and precise adjustments to the gage datum prior to 1993 based on Everglades National Park contractor surveys were not possible. The reader should use -0.40 to approximate this adjustment for water years prior to 1993. Land surface is approximately 5.5 ft above National Geodetic Vertical Datum of 1929. Gage is capable of recording water levels below land-surface datum.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.41 ft Oct. 15, 1999; minimum, indeterminate, well was dry.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.81 ft Aug. 27, 28; minimum, 5.68 ft May 31, June 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.33	7.35	7.19	6.83	---	6.16	6.06	5.82	5.69	7.22	7.33	7.70
2	7.30	7.35	7.18	6.82	---	6.14	6.05	5.80	5.77	7.19	7.31	7.72
3	7.29	7.34	7.17	6.80	---	6.13	6.03	5.78	5.91	7.17	7.30	7.79
4	7.27	7.33	7.16	6.79	---	6.17	6.02	5.78	5.93	7.14	7.29	7.76
5	7.26	7.33	7.15	6.78	6.43	6.16	6.00	5.82	5.95	7.11	7.28	7.74
6	7.25	7.32	7.14	6.76	6.42	6.14	5.98	5.85	5.97	7.09	7.29	7.71
7	7.25	7.31	7.14	---	6.41	6.13	5.97	5.86	5.99	7.07	7.31	7.69
8	7.26	7.30	7.13	---	6.39	6.12	6.07	5.88	6.01	7.10	7.33	7.66
9	7.25	7.29	7.13	---	6.38	6.13	6.09	5.88	6.07	7.31	7.32	7.63
10	7.25	7.29	7.11	---	6.37	6.17	6.09	5.88	6.36	7.31	7.32	7.62
11	7.24	7.28	7.10	---	6.35	6.16	6.08	5.88	6.55	7.30	7.31	7.63
12	7.27	7.27	7.09	---	6.34	6.14	6.07	5.86	6.61	7.29	7.32	7.63
13	7.28	7.27	7.07	---	6.33	6.13	6.07	5.85	6.65	7.29	7.34	7.63
14	7.27	7.26	7.06	---	6.31	6.11	6.06	5.83	6.67	7.30	7.36	7.60
15	7.35	7.26	7.05	---	6.30	6.10	6.04	5.83	6.70	---	7.40	7.57
16	7.36	7.25	7.03	---	6.29	6.09	6.03	5.85	6.70	7.29	7.40	7.55
17	7.34	7.24	7.02	---	6.27	6.12	6.02	5.86	6.72	7.28	7.39	7.54
18	7.34	7.24	7.02	---	6.26	6.26	6.01	5.86	6.84	7.27	7.38	7.54
19	7.35	7.23	7.01	---	6.25	6.23	5.99	5.85	6.97	7.26	7.38	7.53
20	7.39	7.23	6.99	---	6.23	6.22	5.98	5.84	7.06	7.26	7.37	7.66
21	7.43	7.22	6.98	---	6.22	6.21	5.98	5.83	7.19	7.26	7.39	7.77
22	7.42	7.22	6.96	---	6.21	6.19	5.99	5.85	7.19	7.24	7.43	7.74
23	7.41	7.21	6.95	---	6.20	6.18	5.97	5.85	7.21	7.23	7.45	7.71
24	7.40	7.21	6.94	---	6.19	6.17	5.95	5.83	7.19	7.23	7.45	7.68
25	7.39	7.26	6.93	---	6.18	6.16	5.93	5.81	7.16	7.25	7.49	7.65
26	7.38	7.26	6.92	---	6.17	6.14	5.91	5.79	7.14	7.25	7.71	7.65
27	7.37	7.24	6.89	---	6.18	6.13	5.90	5.77	7.13	7.27	7.80	7.65
28	7.36	7.23	6.88	---	6.17	6.12	5.88	5.74	7.13	7.28	7.79	7.66
29	7.35	7.21	6.86	---	---	6.10	5.86	5.72	7.17	7.32	7.76	7.63
30	7.35	7.20	6.86	---	---	6.09	5.84	5.70	7.22	7.37	7.73	7.63
31	7.34	---	6.84	---	---	6.07	---	5.69	---	7.34	7.71	---
TOTAL	227.10	218.00	217.95	---	---	190.57	179.92	180.44	198.85	---	230.44	229.67
MEAN	7.33	7.27	7.03	---	---	6.15	6.00	5.82	6.63	---	7.43	7.66
MAX	7.43	7.35	7.19	---	---	6.26	6.09	5.88	7.22	---	7.80	7.79
MIN	7.24	7.20	6.84	---	---	6.07	5.84	5.69	5.69	---	7.28	7.53

253753080393600 NORTHEAST SHARK RIVER SLOUGH NO. 5, SOUTH OF GROSSMAN, FL

LOCATION.--Lat 25°37'55", long 80°39'42", in NW $\frac{1}{4}$ sec.4, T.54 S., R. Government Lot 6 E., Miami-Dade County, Hydrologic Unit 03090202, approximately 0.3 mi northeast of the extreme southern end of the Levee 67 extension levee and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1985 to current year (gage heights only).

REVISED RECORDS.--WDR FL-95-2A, 1994; WDR FL-04-2A, 2000-2003.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records for water years prior to 1993 were published with a datum of 0.48 ft lower. Levels were run during the 1995 water year. The gage datum was reset based on elevations provided by James Beadman and Associates, Inc. The statement in the remarks section of the 2002 and 2003 Water Resources Data Reports regarding the 1995-2000 water years was in error. The records in the database have been reverted back to the original published records. Land surface is approximately 5.2 ft above National Geodetic Vertical Datum of 1929.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.45 ft Oct. 15, 1999; minimum, indeterminate many days during 1989, 1990, 1991, 1992, 2001 water years when well went dry.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.74 ft Sept. 20, 21; minimum, 5.45 ft May 31, June 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.28	7.29	7.14	6.76	6.42	6.09	6.00	5.82	5.50	7.14	7.29	7.64
2	7.25	7.29	7.13	6.75	6.40	6.08	5.98	5.81	5.60	7.12	7.27	7.64
3	7.24	7.28	7.12	6.74	6.39	6.06	5.98	5.80	5.77	7.09	7.25	7.67
4	7.22	7.28	7.10	6.73	6.38	6.10	5.96	5.80	5.84	7.07	7.25	7.66
5	7.21	7.27	7.09	6.71	6.37	6.10	5.95	5.85	5.89	7.04	7.24	7.66
6	7.20	7.26	7.09	6.70	6.36	6.08	5.94	5.87	5.94	7.02	7.24	7.65
7	7.20	7.25	7.08	6.69	6.34	6.07	5.92	5.86	5.93	7.00	7.25	7.63
8	7.20	7.24	7.07	6.67	6.33	6.06	6.03	5.83	5.93	7.04	7.27	7.61
9	7.20	7.24	7.06	6.66	6.32	6.07	6.05	5.80	5.95	7.23	7.27	7.58
10	7.20	7.23	7.06	6.64	6.30	6.11	6.04	5.78	6.23	7.24	7.26	7.57
11	7.19	7.22	7.04	6.63	6.29	6.10	6.02	5.75	6.43	7.23	7.27	7.57
12	---	7.22	7.02	6.61	6.27	6.08	6.02	5.72	6.49	7.23	7.27	7.57
13	7.22	7.21	7.01	6.60	6.26	6.06	6.01	5.70	6.54	7.23	7.29	7.57
14	7.21	7.21	7.00	6.59	6.24	6.05	5.99	5.67	6.58	7.25	7.32	7.55
15	7.30	7.21	6.99	6.61	6.23	6.04	5.98	5.69	6.60	7.24	7.35	7.52
16	7.30	7.20	6.97	6.61	6.22	6.03	5.97	5.73	6.61	7.24	7.36	7.50
17	7.29	7.18	6.96	6.59	6.21	6.06	5.95	5.71	6.63	7.23	7.35	7.49
18	7.29	7.18	6.96	6.58	6.20	6.19	5.94	5.69	6.75	7.21	7.33	7.49
19	7.30	7.18	6.94	6.56	6.18	6.17	5.93	5.66	6.88	7.20	7.33	7.48
20	7.34	7.17	6.93	6.55	6.17	6.15	5.92	5.66	6.98	7.20	7.32	7.61
21	7.37	7.16	6.91	6.53	6.16	6.13	5.91	5.68	7.12	7.20	7.34	7.73
22	7.37	7.16	6.90	6.52	6.14	6.12	5.94	5.72	7.11	7.19	7.38	7.70
23	7.36	7.16	6.89	6.51	6.13	6.11	5.93	5.70	7.12	7.18	7.41	7.67
24	7.34	7.15	6.88	6.49	6.12	6.10	5.91	5.67	7.09	7.17	7.40	7.65
25	7.33	7.20	6.86	6.48	6.11	6.09	5.89	5.63	7.07	7.19	7.45	7.64
26	7.32	7.20	6.85	6.46	6.11	6.07	5.87	5.59	7.05	7.19	7.64	7.65
27	7.31	7.18	6.83	6.45	6.12	6.06	5.86	5.55	7.04	7.22	7.68	7.64
28	7.30	7.17	6.81	6.45	6.11	6.05	---	5.51	7.04	7.24	7.68	7.64
29	7.30	7.16	6.80	6.46	---	6.04	5.86	5.49	7.10	7.27	7.67	7.63
30	7.29	7.14	6.79	6.44	---	6.02	5.83	5.49	7.14	7.33	7.66	7.62
31	7.28	---	6.78	6.43	---	6.01	---	5.47	---	7.30	7.65	---
TOTAL	---	216.29	216.06	204.20	174.88	188.55	---	176.70	195.95	222.73	228.74	228.23
MEAN	---	7.21	6.97	6.59	6.25	6.08	---	5.70	6.53	7.18	7.38	7.61
MAX	---	7.29	7.14	6.76	6.42	6.19	---	5.87	7.14	7.33	7.68	7.73
MIN	---	7.14	6.78	6.43	6.11	6.01	---	5.47	5.50	7.00	7.24	7.48

022907647 LEVEE 31 NORTH EXTENSION AT 1 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°44'53", long 80°29'53", in SE $^1/_4$ sec. 35, T.54 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, (South Miami NW quadrangle), 0.5 mi west of intersection of U.S. Highway 41 and Krome Avenue, and 1.0 mi south of U.S. Highway 41 on the west side of Levee 31 North.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1989 to November 1990, (gage heights only). February 1992 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until July 9, 2004, when it was removed. The acoustic Doppler velocity meter was installed May 6, 2004. The acoustic velocity meter and acoustic Doppler velocity meter were run in tandem for the period of May 6, 2004 to July 9, 2004. Datum of gage is 0.10 ft below National Geodetic Vertical Datum of 1929 (FCE bench mark).

REMARKS.--Records poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow is the sum of regulation from upstream control structures S-334, S-335, and S-336 and from levee seepage and rainfall. Positive flow is to the south and may reverse for short periods. Datum of gage is based upon an adjustment to the RM elevation.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 7 complete water years of discharge (1997-2001, 2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.17 ft Oct. 15, 1999; minimum, 2.33 ft May 23, 1990.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.59 ft Aug. 27; minimum, 4.78 ft Mar. 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.06	6.01	6.00	5.49	5.54	4.88	5.59	5.47	5.71	6.08	6.08	---
2	6.06	6.05	6.01	5.47	5.55	4.84	5.59	5.45	5.80	6.08	6.06	6.71
3	6.06	6.04	6.01	5.46	5.53	4.80	5.59	5.53	6.03	6.08	6.08	6.63
4	6.06	6.01	5.99	5.45	5.54	5.09	5.55	5.82	6.09	6.07	6.08	6.56
5	6.06	---	5.98	5.40	5.53	5.13	5.53	5.89	6.09	6.07	6.08	6.51
6	6.05	6.01	5.99	5.37	5.50	5.11	5.63	5.56	6.12	6.06	6.07	6.45
7	6.09	6.01	6.00	5.33	5.46	4.99	5.72	5.52	6.10	6.03	6.05	6.36
8	6.11	6.01	5.99	5.30	5.44	4.92	5.98	5.45	6.07	5.97	6.06	6.19
9	6.13	6.00	5.98	5.27	5.42	---	6.07	5.32	6.07	6.40	---	6.13
10	6.11	6.01	5.98	5.26	5.43	5.23	6.07	5.23	6.31	6.85	6.08	6.12
11	6.11	6.00	5.97	5.21	---	5.21	6.07	5.30	6.25	6.50	6.05	6.15
12	6.11	6.01	5.96	5.21	5.31	5.18	6.05	5.62	6.17	6.44	6.06	6.17
13	6.08	6.00	5.96	5.22	5.29	5.13	6.04	5.74	6.09	6.40	6.06	---
14	6.03	6.00	5.95	5.32	5.26	5.08	6.02	5.73	6.08	6.37	6.07	---
15	6.20	6.00	5.85	5.50	5.26	5.11	6.00	5.74	6.10	---	6.08	6.06
16	6.08	6.00	5.74	5.54	5.30	5.30	5.98	5.77	6.12	6.08	6.07	6.02
17	6.05	5.98	5.79	5.52	5.26	5.33	5.96	5.75	6.10	6.09	6.08	---
18	6.06	6.02	5.87	5.42	5.22	5.61	5.91	5.73	6.10	6.07	6.06	5.94
19	6.11	6.03	5.88	5.36	5.19	5.63	5.83	5.72	6.15	6.08	6.06	5.73
20	6.09	6.05	5.90	5.32	5.13	5.61	5.78	5.71	6.29	6.07	6.07	---
21	6.08	6.04	5.96	5.34	5.10	5.59	5.73	5.76	6.54	6.05	6.07	6.18
22	6.10	6.03	5.81	5.35	5.05	5.57	5.75	5.92	6.24	6.05	6.09	6.05
23	6.06	6.02	5.63	5.32	5.00	5.58	5.73	5.94	6.22	6.06	6.00	6.05
24	6.06	6.02	5.66	5.22	4.97	5.57	5.69	5.93	6.19	6.05	5.79	6.06
25	6.05	6.04	5.66	5.14	4.97	5.56	5.66	5.91	6.12	6.04	5.69	6.04
26	6.03	6.05	5.65	5.13	4.94	5.53	5.56	5.89	6.09	6.09	7.31	6.05
27	6.06	---	5.59	5.10	4.95	5.51	5.56	5.94	6.10	6.09	7.57	6.05
28	6.04	6.04	5.51	5.36	4.91	5.49	5.57	5.95	6.09	6.06	7.44	6.04
29	6.01	6.02	5.52	5.53	---	5.44	5.53	5.97	6.09	6.06	7.04	6.05
30	6.00	6.01	5.52	---	---	5.51	5.50	5.78	6.08	6.05	6.86	6.03
31	5.99	---	5.51	5.55	---	5.61	---	5.77	---	6.07	6.71	---
TOTAL	188.19	---	180.82	---	---	---	173.24	176.81	183.60	---	---	---
MEAN	6.07	---	5.83	---	---	---	5.77	5.70	6.12	---	---	---
MAX	6.20	---	6.01	---	---	---	6.07	5.97	6.54	---	---	---
MIN	5.99	---	5.51	---	---	---	5.50	5.23	5.71	---	---	---

022907647 LEVEE 31 NORTH EXTENSION AT 1 MILE NEAR WEST MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	398	976	845	276	382	432	564	649	67	378	713	e223
2	390	906	842	280	403	428	582	649	97	436	686	198
3	427	903	830	292	375	444	577	615	78	383	e689	204
4	453	926	825	298	383	462	573	571	185	440	680	257
5	485	e970	809	278	377	380	580	485	149	429	e670	237
6	505	939	831	265	370	365	632	386	182	411	665	280
7	470	928	836	278	349	368	625	389	183	473	638	296
8	457	942	857	275	355	422	658	386	221	678	627	296
9	447	923	822	276	372	e436	655	402	194	117	e587	268
10	436	921	877	286	357	399	623	405	11	166	526	281
11	408	872	846	271	e328	375	627	492	86	299	608	286
12	408	883	801	259	349	384	631	618	141	363	640	329
13	443	901	824	236	346	375	645	643	157	355	654	e460
14	576	917	824	253	347	396	627	657	322	339	657	e606
15	260	926	520	283	376	443	637	646	435	e387	683	667
16	203	873	339	229	390	425	654	664	395	458	696	673
17	290	897	324	241	385	469	652	631	391	415	701	e667
18	442	874	291	250	412	462	629	652	334	404	693	527
19	573	855	290	251	412	441	657	638	307	497	695	369
20	602	848	270	257	382	450	651	639	160	621	684	e214
21	362	858	259	269	378	434	628	666	181	649	665	297
22	371	852	287	237	373	437	588	656	271	665	642	389
23	439	831	308	252	406	481	637	648	308	675	644	448
24	455	858	289	263	377	470	625	667	273	671	569	446
25	550	868	276	263	416	458	628	679	362	663	499	444
26	680	814	262	253	403	492	584	628	368	665	e-166	541
27	724	e854	279	307	400	436	690	651	384	665	e-33	587
28	909	852	306	386	435	476	666	640	324	650	50	516
29	1,020	812	288	407	---	489	673	497	347	658	163	521
30	1,010	815	287	e373	---	527	653	280	387	673	167	539
31	1,010	---	283	393	---	584	---	205	---	691	201	---
TOTAL	16,203	26,594	16,827	8,737	10,638	13,640	18,851	17,434	7,300	15,374	16,593	12,066
MEAN	523	886	543	282	380	440	628	562	243	496	535	402
MAX	1,020	976	877	407	435	584	690	679	435	691	713	673
MIN	203	812	259	229	328	365	564	205	11	117	-166	198
AC-FT	32,140	52,750	33,380	17,330	21,100	27,050	37,390	34,580	14,480	30,490	32,910	23,930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	327	411	375	310	320	336	440	339	199	262	304	303
MAX	523	886	653	852	594	486	802	742	404	500	572	460
(WY)	(2005)	(2005)	(2004)	(2000)	(2000)	(1999)	(1998)	(1998)	(1998)	(2003)	(2002)	(2002)
MIN	183	184	186	178	169	207	222	126	8.04	46.0	187	181
(WY)	(1998)	(1998)	(1998)	(1994)	(1996)	(1994)	(2001)	(1995)	(2001)	(1994)	(1997)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	133,110.5		180,257			
ANNUAL MEAN	364		494		344	
HIGHEST ANNUAL MEAN					494	2005
LOWEST ANNUAL MEAN					231	2001
HIGHEST DAILY MEAN	1,020	Oct 29	1,020	Oct 29	1,090	Jan 16, 2000
LOWEST DAILY MEAN	-33	Jul 21	-166	Aug 26	-181	Jun 10, 1997
ANNUAL SEVEN-DAY MINIMUM	-7.2	Jul 21	86	Aug 26	-7.2	Jul 21, 2004
ANNUAL RUNOFF (AC-FT)	264,000		357,500		249,000	
10 PERCENT EXCEEDS	832		833		656	
50 PERCENT EXCEEDS	290		444		282	
90 PERCENT EXCEEDS	177		252		145	

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 statitics section of the manuscript.

02290765 LEVEE 31 NORTH EXTENSION AT 3 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°43'02", long 80°29'50", in SE $^1/_4$ sec.35, T.54 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, (South Miami NW quadrangle), 0.5 mi west of intersection of U.S. Highway 41 and Krome Avenue, and 3 mi south of U.S. Highway 41 on the west side of Levee 31 North.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1992 to current year.

REVISED RECORDS.--WDR 97-2A, 1992-96.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until April 13, 2004 when it was removed. The acoustic Doppler velocity meter was installed April 13, 2004. Datum of gage is 0.10 ft below National Geodetic Vertical Datum of 1929 (FCE bench mark).

REMARKS.--Records poor. Flow is the sum of regulation from upstream control structures S-334, S-335, and S-336, downstream from structures G-211 and S-338 and from levee seepage and rainfall. Positive flow is to the south and may reverse for short periods. Datum of gage is based upon an adjustment to the RM elevation. To convert stage values to NGVD, a +0.10 ft correction must be applied to all water years. Negative discharge is considered estimated due to insufficient measurements to verify negative portion of the rating.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 11 complete water years of discharge (1993-2001, 2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.19 ft Oct. 15, 1999; minimum, 3.48 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.60 ft Aug. 27; minimum, 4.75 ft Mar. 3. See REMARKS.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.05	5.97	5.97	5.49	5.54	4.86	5.57	5.46	5.74	6.11	6.06	6.66
2	6.05	6.01	5.98	5.47	5.55	4.83	5.57	5.45	5.84	6.11	6.05	6.71
3	6.06	6.00	5.98	5.45	5.53	4.79	5.58	5.53	6.05	6.10	6.07	6.64
4	6.06	5.97	5.97	5.45	5.54	5.08	5.54	5.82	6.13	6.10	6.07	6.57
5	6.05	---	5.96	5.40	5.53	5.12	5.51	5.89	6.12	6.10	6.08	6.52
6	6.04	5.99	5.96	5.36	5.50	5.09	5.61	5.57	6.15	6.09	6.07	6.48
7	6.08	5.99	5.97	5.33	5.45	4.98	5.70	5.53	6.13	6.05	6.05	6.37
8	6.10	5.99	5.96	5.30	5.43	4.91	5.94	5.46	6.11	5.97	6.07	6.19
9	6.11	5.97	5.95	5.27	5.42	---	6.03	5.33	---	6.42	---	6.13
10	6.10	5.98	5.94	5.26	5.42	5.22	6.03	5.24	6.34	6.87	6.09	6.13
11	6.10	5.97	5.93	5.21	5.38	5.19	6.05	5.31	6.27	6.52	6.06	6.16
12	6.10	5.97	5.93	5.21	5.30	5.16	6.05	5.62	6.19	6.46	6.07	6.18
13	6.07	5.97	5.93	5.21	5.28	5.12	6.02	5.74	6.12	6.42	6.06	6.13
14	6.01	5.96	5.92	5.31	5.24	5.07	6.01	5.73	6.11	6.40	6.07	6.17
15	6.19	5.96	5.85	5.50	5.24	5.09	6.00	5.74	6.13	---	6.08	6.05
16	6.08	5.96	5.73	5.55	5.29	5.27	5.98	5.77	6.15	6.10	6.07	6.01
17	6.04	5.95	5.79	5.52	5.25	5.30	5.96	5.75	6.13	6.11	6.08	---
18	6.05	5.99	5.86	5.43	5.21	5.60	5.90	5.73	6.13	6.09	6.06	5.93
19	6.09	6.00	5.88	5.36	5.17	5.62	5.83	5.71	6.17	6.10	6.05	5.73
20	6.07	6.01	5.90	5.32	5.11	5.59	5.78	5.70	6.32	6.09	6.07	---
21	6.06	6.01	5.96	5.34	5.08	5.56	5.73	5.75	6.57	6.07	6.06	6.15
22	6.09	6.00	5.81	5.34	5.04	5.55	5.75	5.92	6.27	6.06	6.09	6.01
23	6.06	5.99	5.62	5.32	4.98	5.56	5.73	5.94	6.25	6.06	6.00	6.01
24	6.06	5.99	5.65	5.22	4.95	5.55	5.69	5.93	6.22	6.05	5.80	6.01
25	6.03	6.01	5.65	5.14	4.95	5.54	5.65	5.91	6.15	6.04	5.69	6.00
26	6.02	6.02	5.64	5.13	4.93	5.51	5.56	5.89	6.12	6.09	7.31	6.00
27	---	---	5.59	5.10	4.93	5.49	5.55	5.94	6.13	6.09	7.58	6.01
28	6.00	6.01	5.51	5.35	4.89	5.47	5.57	5.95	6.11	6.06	7.42	6.00
29	5.97	6.00	5.52	5.52	---	5.43	5.53	5.99	6.12	6.05	7.04	6.00
30	5.96	5.98	5.52	---	---	5.49	5.49	5.81	6.11	6.05	6.86	6.00
31	5.95	---	5.50	5.55	---	5.59	---	5.81	---	6.06	6.71	---
TOTAL	---	---	180.33	---	147.13	---	172.91	176.92	---	---	---	---
MEAN	---	---	5.82	---	5.25	---	5.76	5.71	---	---	---	---
MAX	---	---	5.98	---	5.55	---	6.05	5.99	---	---	---	---
MIN	---	---	5.50	---	4.89	---	5.49	5.24	---	---	---	---

02290765 LEVEE 31 NORTH EXTENSION AT 3 MILE NEAR WEST MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	578	1,180	1,070	398	439	438	576	730	108	614	794	408
2	563	1,080	1,060	383	442	432	579	727	144	645	784	413
3	596	1,080	1,030	385	440	426	592	690	119	624	773	343
4	587	1,090	1,060	396	438	466	606	628	238	651	754	374
5	572	e1,080	1,040	378	442	421	607	551	194	694	733	386
6	580	1,060	1,050	339	433	414	663	457	211	694	760	403
7	556	1,060	1,050	357	433	406	674	442	267	721	755	520
8	511	1,070	1,060	377	421	425	718	437	e261	797	715	577
9	485	1,080	1,060	369	442	e435	687	429	e297	236	e677	531
10	475	1,120	1,080	360	426	465	674	442	55	232	640	498
11	440	1,100	1,030	335	404	426	677	542	153	447	704	502
12	427	1,100	986	313	422	443	681	670	373	467	722	541
13	515	1,110	1,020	316	410	438	669	703	329	448	717	705
14	683	1,120	995	311	415	427	671	725	429	474	739	726
15	330	1,140	600	292	450	473	682	727	573	e518	737	777
16	253	1,120	415	260	470	489	683	754	670	655	764	791
17	311	1,110	383	272	483	503	683	719	634	684	780	e769
18	522	1,090	370	305	479	492	691	714	598	668	769	630
19	638	1,080	361	329	446	470	721	706	549	749	755	560
20	706	1,070	325	333	453	492	734	727	337	780	768	e296
21	489	1,070	304	310	443	447	697	730	319	762	751	460
22	466	1,080	371	319	459	461	665	750	409	763	714	570
23	508	1,070	420	290	466	491	694	739	437	768	698	617
24	515	1,090	416	322	428	516	679	739	392	767	669	617
25	643	1,070	397	345	424	480	672	728	380	754	605	630
26	786	1,010	353	335	442	525	651	714	433	738	e-218	707
27	e821	e1,090	366	391	425	475	739	722	529	748	e-159	684
28	1,060	1,060	375	443	432	491	732	719	542	753	30	639
29	1,230	1,040	380	453	---	507	731	572	543	747	208	652
30	1,220	1,060	377	e437	---	564	731	367	580	743	335	655
31	1,220	---	374	447	---	609	---	253	---	757	343	---
TOTAL	19,286	32,580	21,178	10,900	12,307	14,547	20,259	19,553	11,103	20,098	18,816	16,981
MEAN	622	1,086	683	352	440	469	675	631	370	648	607	566
MAX	1,230	1,180	1,080	453	483	609	739	754	670	797	794	791
MIN	253	1,010	304	260	404	406	576	253	55	232	-218	296
AC-FT	38,250	64,620	42,010	21,620	24,410	28,850	40,180	38,780	22,020	39,860	37,320	33,680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	402	461	428	368	379	396	470	387	265	353	396	408
MAX	622	1,086	759	877	645	564	887	845	542	648	678	592
(WY)	(2005)	(2005)	(2002)	(2000)	(2000)	(1999)	(1998)	(1998)	(1998)	(2005)	(2002)	(2002)
MIN	262	244	233	206	240	219	206	77.5	-30.7	56.9	244	278
(WY)	(1998)	(1998)	(2001)	(2004)	(2002)	(2001)	(2001)	(2001)	(2001)	(2001)	(1992)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	160,626.0		217,608			
ANNUAL MEAN	439		596		382	
HIGHEST ANNUAL MEAN					596	2005
LOWEST ANNUAL MEAN					251	2001
HIGHEST DAILY MEAN	1,230	Oct 29	1,230	Oct 29	1,230	Oct 29, 2004
LOWEST DAILY MEAN	-51	Jul 25	-218	Aug 26	-218	Oct 4, 2000
ANNUAL SEVEN-DAY MINIMUM	3.9	Jul 21	135	Aug 26	-69	Jul 10, 2001
ANNUAL RUNOFF (AC-FT)	318,600		431,600		276,600	
10 PERCENT EXCEEDS	1,060		1,060		641	
50 PERCENT EXCEEDS	370		570		352	
90 PERCENT EXCEEDS	189		329		196	

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.

02290766 LEVEE 31 NORTH EXTENSION AT 4 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°42'06", long 80°29'46", in NE ¼ NE ¼ NE ¼ sec.35, T.54 S., R. 38 E., Miami-Dade County, Hydrologic Unit 03090202, 0.5 mi west of the junction of U.S. Highway 41 and Krome Avenue and 4.1 mi south of U.S. Highway 41 on west side of Levee 31 North, near West Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (FCE bench mark).

REMARKS.--Records poor. Flow primarily regulated by control structures S-335 upstream and G-211 downstream; occasionally S-334, S-336 and G-119 upstream and S-338 downstream also affect L-31 canal flows. The control structure S-24 located near the Tamiami Trail bridge is not used for regulation. The manual operation gated culvert S-24A, that is located 1 mi upstream, is inoperable.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 8 complete water years of discharge (1995, 1997-2001, 2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.32 ft Oct. 15, 1999; minimum, 3.53 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.63 ft Aug. 27; minimum, 4.78 ft Mar.3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.09	5.98	5.97	5.51	5.57	4.89	5.59	5.47	5.75	6.12	6.07	6.69
2	6.09	6.02	5.97	5.49	5.57	4.85	5.59	5.45	5.85	6.12	6.06	6.74
3	6.09	6.02	5.97	5.48	5.55	4.81	5.60	5.54	6.07	6.11	6.08	6.67
4	6.09	5.97	5.96	5.47	5.57	5.10	5.55	5.82	6.13	6.11	6.08	6.60
5	6.08	5.98	5.94	5.42	5.56	5.14	5.53	5.90	6.13	6.11	6.08	6.55
6	6.07	5.98	5.95	5.39	5.53	5.11	5.62	5.59	6.16	6.10	6.08	6.49
7	6.13	5.98	5.96	5.35	5.48	4.99	5.70	5.54	6.14	6.06	6.06	6.39
8	6.15	5.98	5.96	5.33	5.46	4.93	5.97	5.47	6.11	5.97	6.07	6.22
9	6.16	5.96	5.94	5.30	5.44	5.01	6.07	5.34	6.11	6.42	6.08	6.16
10	6.14	5.97	5.93	5.29	5.45	5.24	6.08	5.25	6.35	6.88	6.10	6.16
11	6.14	5.95	5.93	5.23	5.42	5.21	6.07	5.31	6.28	6.54	6.06	6.18
12	6.14	5.96	5.93	5.23	5.33	5.18	6.05	5.63	6.20	6.47	6.06	6.20
13	6.11	5.96	5.93	5.24	5.31	5.14	6.03	5.74	6.13	6.44	6.06	6.16
14	6.06	5.96	5.92	5.34	5.27	5.08	6.02	5.73	6.12	6.42	6.07	6.19
15	6.23	5.95	5.87	5.53	5.27	5.11	6.01	5.74	6.14	---	6.08	6.07
16	6.13	5.94	5.75	---	5.32	5.27	5.99	5.77	6.16	6.11	6.07	6.02
17	6.09	5.94	5.81	---	5.28	5.32	5.97	5.75	6.14	6.12	6.08	6.01
18	6.09	5.98	5.88	---	5.25	5.63	5.91	5.74	6.14	6.10	6.06	5.95
19	6.12	5.99	5.90	5.38	5.21	5.64	5.83	5.72	6.18	6.11	6.06	5.76
20	6.11	6.01	5.92	5.35	5.15	5.62	5.78	5.71	6.33	6.09	6.07	6.08
21	6.11	6.00	5.97	5.36	5.11	5.59	5.74	5.75	6.58	6.08	6.07	6.19
22	6.13	5.99	5.82	5.37	5.07	5.58	5.76	5.92	6.28	6.07	6.10	6.06
23	6.09	5.98	5.65	5.35	5.02	5.59	5.73	5.94	6.26	6.07	6.01	6.06
24	6.09	5.97	5.68	5.25	4.99	5.58	5.70	5.93	6.23	6.06	5.80	6.07
25	6.06	6.00	5.67	5.17	4.98	5.57	5.66	5.91	6.16	6.05	5.69	6.05
26	6.04	6.01	5.66	5.15	4.97	5.54	5.56	5.89	6.13	6.10	7.33	6.05
27	6.06	6.00	5.62	5.12	---	5.52	5.56	5.94	6.14	6.10	7.61	6.04
28	6.02	6.00	5.53	5.38	4.92	5.49	5.57	5.96	6.12	6.07	7.44	6.05
29	5.97	5.99	5.54	5.55	---	5.45	5.53	5.99	6.13	6.06	7.06	6.05
30	5.96	5.97	5.54	5.58	---	5.51	5.49	5.81	6.12	6.06	6.89	6.04
31	5.95	---	5.53	5.58	---	5.61	---	5.81	---	6.06	6.75	---
TOTAL	188.79	179.39	180.60	---	---	164.30	173.26	177.06	184.77	---	194.18	185.95
MEAN	6.09	5.98	5.83	---	---	5.30	5.78	5.71	6.16	---	6.26	6.20
MAX	6.23	6.02	5.97	---	---	5.64	6.08	5.99	6.58	---	7.61	6.74
MIN	5.95	5.94	5.53	---	---	4.81	5.49	5.25	5.75	---	5.69	5.76

02290766 LEVEE 31 NORTH EXTENSION AT 4 MILE NEAR WEST MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e570	1,150	991	388	425	441	575	666	103	597	916	383
2	536	1,060	990	373	435	422	562	686	146	640	920	405
3	558	1,050	978	375	440	408	577	672	112	596	887	412
4	577	1,060	983	370	431	445	579	612	221	649	879	438
5	594	1,070	989	368	433	414	591	537	206	704	848	456
6	602	1,060	987	342	425	410	635	461	218	732	860	449
7	596	1,050	975	349	421	398	634	433	276	762	817	521
8	551	1,070	995	349	431	401	678	419	331	898	798	592
9	524	1,060	982	322	430	431	658	410	e331	316	778	599
10	507	1,060	976	341	422	454	650	425	e126	272	728	536
11	497	1,070	999	326	410	423	650	526	e325	444	785	531
12	469	1,070	970	320	424	432	656	657	e370	473	841	580
13	546	1,080	963	320	413	e392	634	679	e439	461	838	701
14	725	1,070	972	304	418	e433	655	699	e480	498	871	810
15	373	1,050	634	281	444	436	655	691	e604	e466	867	875
16	311	1,070	447	e273	459	467	654	700	e638	678	892	907
17	350	1,080	399	e277	475	475	655	688	e631	707	900	908
18	539	1,060	387	e318	475	482	665	683	e589	701	892	739
19	675	1,040	374	334	444	472	693	687	e542	758	879	616
20	740	1,030	340	341	451	469	683	691	e382	828	879	388
21	503	1,030	327	312	441	460	664	693	e403	844	861	531
22	477	1,020	399	302	451	469	652	703	e482	861	826	613
23	551	1,000	421	302	447	472	651	701	472	871	818	650
24	569	1,000	409	324	413	485	650	703	476	871	778	638
25	683	1,000	376	353	417	461	653	703	452	852	751	634
26	817	996	370	339	442	492	615	688	565	847	e-213	744
27	857	1,010	368	390	406	e456	683	688	550	841	e-176	794
28	1,060	1,000	377	439	430	e468	700	673	554	858	42	714
29	1,190	982	363	457	---	501	707	540	580	860	250	731
30	1,180	999	374	429	---	546	679	340	607	875	402	765
31	1,180	---	385	446	---	583	---	251	---	897	430	---
TOTAL	19,907	31,347	20,500	10,764	12,153	14,098	19,393	18,705	12,211	21,657	21,844	18,660
MEAN	642	1,045	661	347	434	455	646	603	407	699	705	622
MAX	1,190	1,150	999	457	475	583	707	703	638	898	920	908
MIN	311	982	327	273	406	392	562	251	103	272	-213	383
AC-FT	39,490	62,180	40,660	21,350	24,110	27,960	38,470	37,100	24,220	42,960	43,330	37,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	419	532	480	409	406	413	495	381	269	351	408	424
MAX	642	1,045	758	977	725	585	892	833	465	699	705	622
(WY)	(2005)	(2005)	(2002)	(2000)	(2000)	(2002)	(1998)	(1998)	(1998)	(2005)	(2005)	(2005)
MIN	240	238	241	209	235	236	213	115	9.68	84.2	242	265
(WY)	(1998)	(1998)	(1998)	(2004)	(1996)	(1996)	(2001)	(2001)	(2001)	(2001)	(1997)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	156,845.26		221,239			
ANNUAL MEAN	429		606		414	
HIGHEST ANNUAL MEAN					606	2005
LOWEST ANNUAL MEAN					271	2001
HIGHEST DAILY MEAN	1,190	Oct 29	1,190	Oct 29	1,210	Jan 16, 2000
LOWEST DAILY MEAN	-115	Jul 25	-213	Aug 26	-300	Jun 10, 1997
ANNUAL SEVEN-DAY MINIMUM	-34	Jul 23	160	Aug 26	-34	Jul 23, 2004
ANNUAL RUNOFF (AC-FT)	311,100		438,800		300,300	
10 PERCENT EXCEEDS	990		990		740	
50 PERCENT EXCEEDS	351		577		370	
90 PERCENT EXCEEDS	196		340		191	

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.

02290767 LEVEE 31 NORTH EXTENSION AT 5 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°41'09", long 80°29'50", T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, (South Miami NW quadrangle), 1.05 mi west of the junction of U.S. Highway 41 and Krome Avenue, and 5.25 mi south of U.S. Highway 41 on west side of Levee 31 North, near West Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 16, 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (FCE bench mark).

REMARKS.--Records fair except those for estimated daily discharges, and velocities recorded fall below 0.20 ft/sec, which are poor. Flow primarily regulated by control structure S-355 upstream and G-211 downstream; occasionally S-334, S-336, G-119 upstream and S-338 downstream also affect L-31 canal flows. The control structure S-24 located near the Tamiami Trail bridge is not used for regulation. The manual operation gated culvert S-24A, that is located 2 mi upstream is inoperable. Positive flow is to the south and may reverse for short periods. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 8 water years of discharge (1995, 1997-2001, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.27 ft Oct. 15, 1999; minimum, 3.48 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 6.58 ft Sept. 29; minimum, 3.87 ft May 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.05	5.88	5.85	5.42	---	4.79	5.53	5.41	5.70	6.06	6.00	6.63
2	6.04	5.93	5.86	5.40	5.47	4.76	5.52	5.40	5.80	6.06	5.99	6.69
3	6.05	5.92	5.86	5.39	5.45	4.71	5.54	5.47	6.02	6.05	6.00	6.61
4	6.04	5.88	5.85	5.38	5.47	5.01	5.50	5.73	6.09	6.05	6.00	6.55
5	6.03	5.90	5.84	5.33	5.47	5.05	5.47	5.85	6.08	6.05	6.01	6.49
6	6.02	5.89	5.84	5.30	5.43	5.03	5.56	5.61	6.11	6.04	6.00	6.44
7	6.07	---	5.85	5.26	5.39	4.90	5.65	5.50	6.09	6.00	5.99	6.34
8	6.09	5.89	5.85	5.23	5.36	4.83	5.91	5.42	6.06	5.91	6.01	6.16
9	6.10	5.88	5.83	5.21	5.35	4.92	6.01	5.30	6.06	6.36	6.01	6.10
10	6.09	5.87	5.82	5.20	5.36	5.15	6.02	5.21	6.30	6.83	6.03	6.10
11	6.08	5.84	5.81	5.14	5.33	5.12	6.01	5.27	6.22	6.48	5.99	6.13
12	6.09	5.84	5.82	5.15	5.24	5.09	5.99	5.57	6.15	6.42	5.99	6.15
13	6.06	5.84	5.82	5.15	5.22	5.05	5.96	5.68	6.08	6.39	5.99	6.09
14	5.99	5.84	5.81	5.24	5.18	4.99	5.96	5.67	6.07	6.37	6.00	6.12
15	6.17	5.83	5.78	5.44	5.18	5.01	5.95	5.69	6.08	---	6.01	6.00
16	6.07	5.83	5.66	5.49	5.23	5.17	5.93	5.71	6.10	---	6.00	5.95
17	6.03	5.82	5.72	5.47	5.19	5.23	5.91	5.70	6.08	6.06	6.01	5.94
18	6.03	5.86	5.80	5.37	5.16	5.56	5.85	5.68	6.08	6.04	5.99	5.89
19	6.04	5.87	5.81	5.29	5.12	5.58	5.77	5.66	6.12	6.04	5.98	5.70
20	6.02	5.89	5.84	5.25	5.06	5.56	5.72	5.66	6.27	6.02	6.00	6.03
21	6.04	5.89	5.89	5.27	5.02	5.52	5.68	5.71	6.53	6.00	6.00	6.13
22	6.06	5.88	5.75	5.27	4.98	5.51	5.70	5.86	6.23	5.99	6.02	6.00
23	6.02	5.86	5.60	5.26	4.92	5.51	5.68	5.88	6.21	6.00	5.93	5.99
24	6.02	5.86	5.62	5.16	4.89	5.51	5.65	5.87	6.18	5.98	5.75	6.01
25	5.99	5.88	5.62	5.08	4.89	5.50	5.61	5.85	6.10	5.98	5.62	5.99
26	5.95	5.90	5.61	5.06	4.87	5.48	5.50	5.84	6.07	6.02	7.28	5.98
27	5.97	5.89	5.53	5.03	4.86	5.44	5.50	5.88	6.08	6.02	7.56	5.97
28	5.92	5.89	5.44	5.28	4.82	5.42	5.52	5.90	6.07	5.99	7.39	5.98
29	5.87	5.88	5.45	5.45	---	5.39	5.48	5.94	6.07	5.99	7.01	5.98
30	5.86	5.86	5.45	5.48	---	5.45	5.44	5.76	6.06	5.98	6.83	5.97
31	5.85	---	5.44	5.48	---	5.55	---	5.76	---	5.99	6.68	---
TOTAL	186.71	---	177.72	163.93	---	161.79	171.52	175.44	183.16	---	192.07	184.11
MEAN	6.02	---	5.73	5.29	---	5.22	5.72	5.66	6.11	---	6.20	6.14
MAX	6.17	---	5.89	5.49	---	5.58	6.02	5.94	6.53	---	7.56	6.69
MIN	5.85	---	5.44	5.03	---	4.71	5.44	5.21	5.70	---	5.62	5.70

02290767 LEVEE 31 NORTH EXTENSION AT 5 MILE NEAR WEST MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	567	1,170	1,010	331	e381	394	533	627	93	555	872	384
2	580	1,080	1,000	326	396	382	528	640	83	576	887	396
3	597	1,070	1,010	333	393	367	530	623	e45	567	865	372
4	607	1,080	1,000	321	397	407	541	576	151	621	842	396
5	615	1,090	1,000	313	391	366	537	508	146	626	817	419
6	624	1,080	997	304	393	362	573	434	187	644	830	426
7	598	e1,080	993	308	393	370	588	398	257	703	827	499
8	553	1,090	1,000	296	392	365	636	388	297	899	809	536
9	531	1,080	1,010	298	401	395	621	381	294	e298	789	534
10	507	1,080	991	295	394	420	610	394	102	e263	746	512
11	491	1,080	1,020	275	371	367	597	485	301	432	813	499
12	486	1,090	981	266	384	396	602	600	346	477	833	539
13	556	1,100	974	280	383	360	573	633	415	476	840	680
14	739	1,090	988	266	393	401	603	640	456	475	863	824
15	e341	1,080	627	244	410	429	599	642	580	e549	853	896
16	329	1,080	412	232	435	437	604	657	614	e656	859	927
17	373	1,100	356	236	434	448	599	638	607	676	873	932
18	542	1,070	342	277	426	449	617	647	565	652	866	772
19	692	1,050	326	295	414	425	641	633	518	727	863	624
20	762	1,040	297	288	408	422	640	636	358	811	850	378
21	519	1,030	271	273	412	433	624	650	379	819	865	511
22	485	1,040	349	263	417	439	605	651	423	851	827	618
23	554	1,030	384	258	415	424	614	655	480	875	827	657
24	564	1,020	380	285	393	453	603	661	507	867	808	643
25	698	1,020	345	303	375	435	604	654	468	847	778	645
26	841	1,020	337	305	406	459	587	633	541	828	e-293	725
27	887	1,020	335	352	365	420	650	640	549	840	e-260	791
28	1,100	1,000	330	398	388	432	650	630	542	848	57	717
29	1,230	998	327	406	---	459	653	506	544	840	262	737
30	1,220	1,010	332	395	---	511	637	331	569	846	364	760
31	1,220	---	319	394	---	533	---	224	---	856	427	---
TOTAL	20,408	31,868	20,043	9,416	11,160	12,960	17,999	17,415	11,417	21,000	21,459	18,349
MEAN	658	1,062	647	304	399	418	600	562	381	677	692	612
MAX	1,230	1,170	1,020	406	435	533	653	661	614	899	887	932
MIN	329	998	271	232	365	360	528	224	45	263	-293	372
AC-FT	40,480	63,210	39,760	18,680	22,140	25,710	35,700	34,540	22,650	41,650	42,560	36,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	440	554	488	406	418	405	496	369	265	353	431	439
MAX	658	1,062	828	1,066	804	587	914	859	462	677	692	612
(WY)	(2005)	(2005)	(2000)	(2000)	(2000)	(2002)	(1998)	(1998)	(1998)	(2005)	(2005)	(2005)
MIN	231	229	256	166	266	189	221	110	-47.8	76.3	251	266
(WY)	(1998)	(1998)	(1998)	(2004)	(2002)	(1996)	(2004)	(1996)	(2001)	(1994)	(1997)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	149,112.6		213,494			
ANNUAL MEAN	407		585		423	
HIGHEST ANNUAL MEAN					605	2000
LOWEST ANNUAL MEAN					280	1997
HIGHEST DAILY MEAN	1,230	Oct 29	1,230	Oct 29	1,300	Jan 17, 2000
LOWEST DAILY MEAN	-145	Jul 24	-293	Aug 26	-293	Aug 26, 2005
ANNUAL SEVEN-DAY MINIMUM	-84	Jul 24	133	May 31	-84	Jul 24, 2004
ANNUAL RUNOFF (AC-FT)	295,800		423,500		306,500	
10 PERCENT EXCEEDS	1,000		1,000		778	
50 PERCENT EXCEEDS	323		549		377	
90 PERCENT EXCEEDS	150		300		193	

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.

02290768 LEVEE 31 NORTH EXTENSION AT 7 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°39'48", long 80°29'54", NE ¼ NE ¼ SE ¼ sec.11, T.55 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, (South Miami NW quadrangle), 0.5 mi west of junction of U.S. Highway 41 and Krome Avenue and 6.9 mi south of U.S. Highway 41 on the west side of Levee 31 North Levee, near West Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (FCE bench mark).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow is the sum of regulation from upstream control structures S-334, S-335 and S-336 from levee seepage and rainfall, and from structures S-338 and G-211 downstream. Positive flow is to the south and may reverse for short periods.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 8 complete water years of discharge (1995, 1997-98, 2000-02, 2004, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.19 ft Oct. 15, 1999; minimum, 3.46 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.57 ft Aug. 27; minimum, 4.72 ft Mar. 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.01	5.83	5.85	5.45	5.50	4.83	5.52	5.37	5.69	6.04	5.96	6.60
2	6.01	5.89	5.86	5.43	5.51	4.80	5.51	5.36	5.79	6.04	5.94	6.66
3	6.00	5.89	5.86	5.42	5.49	4.75	5.53	5.45	6.01	6.02	5.95	6.58
4	6.00	5.85	5.85	5.41	5.50	5.05	5.48	5.74	6.07	6.03	5.96	6.52
5	5.99	5.86	5.83	5.36	5.50	5.10	5.46	5.81	6.07	6.03	5.96	6.47
6	5.98	5.86	5.84	5.33	5.46	5.07	5.55	5.51	6.10	6.03	5.96	6.44
7	6.03	5.85	5.85	5.29	5.42	4.94	5.63	5.46	6.08	5.98	5.94	6.34
8	6.05	5.86	5.85	5.26	5.39	4.87	5.90	5.39	6.05	5.86	5.96	6.13
9	6.06	5.85	5.83	5.24	5.38	4.96	6.00	5.26	6.05	6.32	5.96	6.07
10	6.05	5.86	5.82	5.23	5.38	5.20	6.01	5.17	6.28	6.81	5.98	6.07
11	6.04	5.84	5.81	5.18	5.36	5.16	6.00	---	6.20	6.50	5.95	6.10
12	6.05	5.84	5.82	5.18	5.27	5.13	5.98	5.53	6.13	6.41	5.95	6.12
13	6.02	5.84	5.82	5.18	5.25	5.09	5.95	5.64	6.06	6.38	5.94	6.05
14	5.94	5.84	5.81	5.27	5.21	5.04	5.95	5.63	6.04	6.37	5.95	6.07
15	6.15	5.84	5.81	5.48	5.21	5.06	5.94	5.65	6.06	---	5.96	5.94
16	6.05	5.83	5.69	5.53	5.25	5.21	5.92	5.68	6.08	6.03	5.95	5.89
17	6.01	5.82	5.76	5.51	5.21	5.24	5.90	5.66	6.05	6.04	5.96	5.88
18	6.00	5.86	5.84	5.41	5.18	5.56	5.84	5.65	6.05	6.02	5.94	5.84
19	6.02	5.88	5.85	5.32	5.14	5.57	5.76	5.62	6.10	6.02	5.93	5.66
20	5.99	5.90	5.88	5.29	5.08	5.55	5.70	5.61	6.25	5.99	5.95	6.00
21	6.03	5.89	5.93	5.30	5.05	5.51	5.66	5.66	6.51	5.96	5.94	6.10
22	6.05	5.88	5.77	5.31	5.01	5.50	5.68	5.82	6.20	5.96	5.97	5.96
23	6.00	5.87	5.59	5.29	4.95	5.50	5.65	5.84	6.19	5.96	5.88	5.95
24	6.01	5.87	5.62	5.19	4.91	5.50	5.62	5.83	6.16	5.94	5.68	5.96
25	5.97	5.89	5.62	5.11	4.91	5.48	5.58	5.81	6.08	5.94	5.53	5.94
26	5.93	5.90	5.61	5.09	4.90	5.47	5.47	5.80	6.05	5.98	7.24	5.92
27	5.95	5.89	5.57	5.06	4.88	5.43	5.46	5.85	6.06	5.98	7.54	5.91
28	5.88	5.89	5.48	5.31	4.85	5.41	5.48	5.87	6.05	5.95	7.36	5.92
29	5.81	5.87	5.48	5.48	---	5.38	5.44	5.91	6.05	5.95	6.99	5.92
30	5.81	5.86	5.49	5.51	---	5.44	5.40	5.74	6.04	5.94	6.81	5.91
31	5.80	---	5.47	5.51	---	5.54	---	5.75	---	5.95	6.66	---
TOTAL	185.69	175.90	178.16	164.93	146.15	162.34	170.97	---	182.60	---	190.65	182.92
MEAN	5.99	5.86	5.75	5.32	5.22	5.24	5.70	---	6.09	---	6.15	6.10
MAX	6.15	5.90	5.93	5.53	5.51	5.57	6.01	---	6.51	---	7.54	6.66
MIN	5.80	5.82	5.47	5.06	4.85	4.75	5.40	---	5.69	---	5.53	5.66

02290768 LEVEE 31 NORTH EXTENSION AT 7 MILE NEAR WEST MIAMI, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	633	1,290	1,050	359	395	415	517	631	112	626	935	504
2	630	1,170	1,050	358	403	403	522	634	117	652	927	516
3	629	1,160	1,030	350	408	394	529	635	71	623	905	511
4	643	1,170	1,030	353	413	413	529	589	158	640	882	530
5	650	1,150	1,050	346	402	370	539	547	153	667	864	547
6	658	1,130	1,050	306	394	370	572	455	229	668	870	542
7	643	1,130	1,040	319	404	376	592	426	309	740	866	583
8	594	1,130	1,060	318	399	381	640	403	316	970	848	637
9	568	1,140	1,060	319	405	412	608	408	319	382	869	621
10	542	e1,360	1,050	319	396	432	598	419	181	331	825	599
11	527	1,160	1,050	305	390	386	591	e1,340	357	541	869	603
12	511	1,160	1,010	289	395	396	591	603	438	519	890	609
13	581	1,160	1,000	288	382	386	594	640	465	513	885	759
14	777	1,140	1,010	282	392	390	597	633	470	511	905	919
15	437	1,140	642	251	414	415	596	639	586	e1,440	909	1,010
16	374	1,150	423	235	430	440	596	645	635	715	915	1,040
17	418	1,140	369	249	436	450	598	638	617	747	929	1,040
18	602	1,110	354	286	444	459	625	643	591	735	922	878
19	745	1,110	340	298	428	428	646	636	582	806	915	725
20	814	1,090	307	304	424	427	656	641	424	894	909	506
21	561	1,090	273	276	410	419	613	635	446	902	916	691
22	530	1,090	372	275	426	432	587	639	557	893	879	770
23	614	1,080	406	273	418	435	588	637	573	911	901	790
24	624	1,080	388	301	399	449	595	634	592	914	871	768
25	762	1,080	354	317	408	429	589	631	593	901	848	756
26	909	1,050	353	312	418	453	586	631	613	887	e-216	869
27	961	1,070	356	364	385	425	648	632	619	904	e-133	958
28	1,180	1,050	366	427	409	441	645	621	609	905	152	896
29	1,340	1,050	349	433	---	458	647	547	612	905	379	895
30	1,330	1,060	346	396	---	498	638	389	627	911	502	927
31	1,320	---	355	417	---	525	---	248	---	919	526	---
TOTAL	22,107	33,890	20,893	9,925	11,427	13,107	17,872	18,449	12,971	23,672	23,464	21,999
MEAN	713	1,130	674	320	408	423	596	595	432	764	757	733
MAX	1,340	1,360	1,060	433	444	525	656	1,340	635	1,440	935	1,040
MIN	374	1,050	273	235	382	370	517	248	71	331	-216	504
AC-FT	43,850	67,220	41,440	19,690	22,670	26,000	35,450	36,590	25,730	46,950	46,540	43,640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	482	589	505	410	396	394	466	382	293	376	432	475
MAX	713	1,130	809	998	745	583	812	744	483	764	757	733
(WY)	(2005)	(2005)	(2002)	(2000)	(2000)	(2002)	(1998)	(1998)	(2003)	(2005)	(2005)	(2005)
MIN	252	243	258	154	226	216	202	118	32.8	109	263	271
(WY)	(1998)	(1998)	(2001)	(2004)	(1996)	(1996)	(2001)	(2001)	(2001)	(2001)	(1997)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	157,159.2		229,776			
ANNUAL MEAN	429		630		445	
HIGHEST ANNUAL MEAN					630	2005
LOWEST ANNUAL MEAN					288	2001
HIGHEST DAILY MEAN	1,360	Nov 10	1,440	Jul 15	1,440	Jul 15, 2005
LOWEST DAILY MEAN	-59	Jul 31	-216	Aug 26	-216	Aug 26, 2005
ANNUAL SEVEN-DAY MINIMUM	-30	Jul 21	155	May 31	-30	Jul 21, 2004
MAXIMUM PEAK FLOW					1,320	Mar 24, 2003
ANNUAL RUNOFF (AC-FT)	311,700		455,800		322,500	
10 PERCENT EXCEEDS	1,050		1,050		828	
50 PERCENT EXCEEDS	333		594		408	
90 PERCENT EXCEEDS	145		319		198	

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.

02290769 CANAL 111 AT S-18-C, NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°19'49", long 80°31'31", in NW $\frac{1}{4}$ sec.3, T.59 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, at control structure 18-C, and 8.5 mi south of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR FL-78-2A,1974-77.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to September 30, 2001, satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. The acoustic velocity meter and acoustic Doppler velocity meter ran in tandem for the period of May 24, 2001 to October 17, 2001. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good except for estimated and negative daily discharges, which are poor. Flow regulated by S-18-C. Prior to November 30, 1992, discharge computed from relation between head and gate openings at S-18-C. After December 1, 1992, discharge computed based on continuous record of stage and velocity at newly established acoustic velocity meter site downstream of S-18-C. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Prior to the 1993 water year, the downstream gage height is available in files of the U.S. Geological Survey under station number 02290770. Starting with the 1993 water year, the downstream gage height is available in files of the U.S. Geological Survey under station number 02290769. Prior to the 1994 water year, discharge published under the name Canal 111 Above S-18-C found under the same station number (02290769). Prior to December 1, 1992, digital water-stage recorders, electromagnetic velocity meter recorder, and a dual graphic water-stage and gate opening recorder were operational.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 31 complete water years of discharge (1969-90, 1993-94, 1996, 1998-99, 2002-05).

COOPERATION.--Gate-opening recorder record, and record of slot operations provided by South Florida Water Management District, upon request.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD (1969-92).--Maximum gage height, 3.62 ft July 24, 1985; minimum, -1.53 ft estimated May 14, 1971.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD (1993-current year).--Maximum gage height, 3.82 ft Oct. 15, 1999; minimum, 0.13 ft May 19, 2002.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.55 ft Aug. 26; minimum, 1.15 ft Apr. 8.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.13	2.38	2.18	1.65	1.52	1.34	1.35	1.19	1.51	2.56	2.30	2.68
2	2.12	2.36	2.17	1.64	1.51	1.31	1.32	1.18	1.53	2.54	2.30	2.77
3	2.08	2.35	2.14	1.62	1.51	1.30	1.30	1.27	1.63	2.53	2.31	2.87
4	2.05	2.34	2.13	1.61	1.51	1.37	1.28	1.46	1.68	2.50	2.31	---
5	2.02	2.32	2.13	1.61	1.51	1.37	1.26	1.46	1.74	2.48	2.33	2.94
6	2.00	2.31	2.12	1.60	1.51	1.35	1.25	1.50	2.07	2.45	2.36	2.86
7	1.99	2.29	2.09	1.58	1.52	1.33	1.23	1.48	2.24	2.42	2.39	2.74
8	2.02	2.27	2.05	1.57	1.51	1.32	1.50	1.46	2.21	2.49	2.54	2.65
9	---	2.26	2.04	1.55	1.51	1.35	1.65	1.44	2.17	2.57	2.60	2.67
10	---	2.26	2.03	1.54	---	1.45	1.63	1.42	2.44	2.59	2.58	2.73
11	1.95	2.25	2.01	1.53	---	1.44	1.62	1.40	2.48	2.51	2.55	2.75
12	1.97	2.24	2.00	1.53	---	1.42	1.60	1.38	2.45	2.46	2.50	2.76
13	1.97	2.23	1.98	1.53	1.46	1.41	1.57	1.35	2.35	2.45	2.46	2.80
14	---	2.23	1.94	1.51	1.48	1.40	1.54	1.32	2.34	2.44	2.44	2.77
15	---	2.24	1.92	1.52	1.50	1.39	1.52	1.30	2.32	---	2.46	2.74
16	2.55	2.23	1.91	1.52	1.48	1.38	1.51	1.27	2.26	2.41	2.45	2.71
17	2.51	---	---	1.51	1.47	1.37	1.49	1.25	2.28	2.39	2.43	2.69
18	2.53	---	---	1.53	1.46	1.45	1.48	1.26	2.40	2.37	2.42	2.70
19	2.49	2.08	1.80	1.64	1.46	1.44	1.50	1.25	2.51	2.35	---	2.63
20	2.47	2.07	1.78	1.66	1.46	1.43	1.46	1.23	2.61	2.35	---	2.94
21	2.51	2.06	1.77	1.67	1.45	1.43	1.43	1.24	2.61	2.33	2.37	3.03
22	---	---	1.76	1.68	1.43	1.43	1.41	1.33	2.49	2.31	2.38	2.87
23	---	2.10	1.74	1.67	1.43	1.45	1.39	1.34	2.51	2.31	2.39	2.79
24	2.47	2.10	1.73	1.68	1.42	1.45	1.35	1.31	2.58	2.29	2.51	2.70
25	2.46	2.19	1.72	1.75	1.41	1.45	1.32	1.30	2.63	2.30	2.57	2.70
26	2.45	2.29	1.70	1.76	1.41	1.44	1.31	1.30	2.60	2.34	3.31	2.76
27	2.43	2.26	1.69	1.75	1.42	1.43	1.29	1.31	2.59	2.36	3.22	2.76
28	2.41	2.24	1.70	1.75	1.39	1.41	1.28	1.31	2.59	2.34	2.96	2.74
29	2.40	2.24	1.68	1.61	---	1.39	1.25	1.48	2.57	2.31	2.66	2.61
30	2.39	2.22	1.68	1.56	---	1.38	1.23	1.89	2.55	2.32	2.52	2.64
31	2.38	---	1.67	1.53	---	1.37	---	1.57	---	2.31	2.64	---
TOTAL	---	---	---	49.86	---	43.25	42.32	42.25	68.94	---	---	---
MEAN	---	---	---	1.61	---	1.40	1.41	1.36	2.30	---	---	---
MAX	---	---	---	1.76	---	1.45	1.65	1.89	2.63	---	---	---
MIN	---	---	---	1.51	---	1.30	1.23	1.18	1.51	---	---	---

02290769 CANAL 111 AT S-18-C, NEAR FLORIDA CITY, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	140	38	-4.3	-9.9	15	-11	9.2	-18	95	277	1,510
2	81	112	32	-1.7	3.4	1.9	-7.0	-19	9.9	51	237	1,230
3	103	104	23	-11	29	-2.7	15	-27	10	20	259	1,400
4	79	103	23	-22	4.9	-7.2	12	1.9	0.99	44	309	e1,230
5	110	104	31	-8.6	6.2	4.0	26	6.3	74	151	240	1,210
6	84	117	39	-9.9	-18	10	-1.1	-9.5	448	204	194	1,050
7	11	97	24	18	-11	13	14	-43	575	210	219	935
8	30	100	32	20	-21	28	-17	-5.2	434	270	661	859
9	e83	92	48	2.2	-14	-9.8	-34	-2.2	328	538	740	661
10	e52	93	41	-12	e-22	12	-6.5	28	985	717	663	565
11	6.5	80	32	-1.3	e0.00	5.1	-19	1.6	1,100	440	528	592
12	6.2	78	25	9.3	e-6.7	15	4.1	-13	662	384	410	628
13	40	74	17	-5.1	1.3	8.0	-34	-81	452	369	335	625
14	e53	60	22	20	20	15	-39	10	416	371	338	557
15	e1,610	59	70	19	88	34	10	21	388	e344	429	515
16	1,220	53	35	8.9	59	31	3.7	-14	305	326	380	487
17	861	e54	e32	2.8	9.3	-35	-3.8	-92	445	341	383	444
18	612	e19	e5.9	23	44	3.4	-41	-56	657	318	360	664
19	491	31	13	27	2.4	0.00	-24	-44	772	320	e338	623
20	431	33	-0.31	29	63	-11	-23	-23	791	325	e321	682
21	439	49	2.0	29	26	14	-1.1	-8.2	529	275	331	1,060
22	e454	e58	16	34	49	34	8.6	-24	146	325	347	906
23	e357	62	1.3	21	40	-2.6	-31	-0.51	257	331	359	865
24	360	80	7.5	44	12	35	-2.0	-37	285	319	592	778
25	286	92	24	63	-4.0	2.5	2.6	-6.3	146	280	587	622
26	295	90	13	76	16	8.1	-40	-28	194	269	1,940	561
27	229	107	3.5	79	12	-8.4	-19	-14	292	258	2,250	583
28	193	83	-0.77	58	30	-21	-37	6.6	209	308	2,210	691
29	156	67	-7.8	14	---	-13	-4.6	103	113	288	2,120	755
30	158	63	12	18	---	20	7.6	214	87	284	1,900	706
31	136	---	14	35	---	1.9	---	-6.1	---	285	1,630	---
TOTAL	9,144.7	2,354	667.32	574.3	408.90	200.20	-291.5	-151.41	11,092.89	9,060	21,887	23,994
MEAN	295	78.5	21.5	18.5	14.6	6.46	-9.72	-4.88	370	292	706	800
MAX	1,610	140	70	79	88	35	26	214	1,100	717	2,250	1,510
MIN	6.2	19	-7.8	-22	-22	-35	-41	-92	-18	20	194	444
AC-FT	18,140	4,670	1,320	1,140	811	397	-578	-300	22,000	17,970	43,410	47,590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

MEAN	336	169	82.0	70.5	74.0	62.7	42.3	57.3	278	206	330	416
MAX	958	771	517	486	884	965	529	262	1,097	764	1,477	1,001
(WY)	(1988)	(1988)	(1995)	(1995)	(1983)	(1983)	(1983)	(1995)	(1972)	(1986)	(1988)	(1983)
MIN	0.00	0.00	0.00	-2.01	-2.49	-8.61	-11.4	-17.9	-2.70	0.00	0.00	0.00
(WY)	(1975)	(1975)	(1971)	(2001)	(2001)	(2004)	(1999)	(2004)	(2004)	(1974)	(1974)	(1974)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	35,755.57		78,940.40			
ANNUAL MEAN	97.7		216		170	
HIGHEST ANNUAL MEAN					485	1983
LOWEST ANNUAL MEAN					4.42	1974
HIGHEST DAILY MEAN	1,610	Oct 15	2,250	Aug 27	2,940	Aug 16, 1988
LOWEST DAILY MEAN	-59	May 5	-92	May 17	-194	Jan 2, 1988
ANNUAL SEVEN-DAY MINIMUM	-30	May 15	-37	May 16	-92	Dec 29, 1987
ANNUAL RUNOFF (AC-FT)	70,920		156,600		123,400	
10 PERCENT EXCEEDS	367		659		602	
50 PERCENT EXCEEDS	16		44		5.9	
90 PERCENT EXCEEDS	-24		-11		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.

252043080302400 EVERGLADES 3 IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°20'53", long 80°30'28", in sec.23, T.58 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, approximately 1.5 mi north-northeast of S-18-C and approximately 3.2 mi west of U.S. Highway 1 southwest of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year.

REVISED RECORDS.--WDR FL-96-2A, 1994, 1995.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 1.7 ft above National Geodetic Vertical Datum of 1929. Unpublished data prior to 1993 are available in files of the U.S. Geological Survey. Unit values prior to the 1993 water year were not available for review to determine maximum and minimum instantaneous gage height. Water levels below land-surface datum can be recorded.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.76 ft Oct. 16, 1999; minimum, 0.40 ft May 17, 1991.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 3.55 ft Aug. 27; minimum 1.32 ft May 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.38	2.45	2.22	1.96	1.80	1.71	1.60	1.32	1.91	2.70	2.36	3.18
2	2.39	2.44	2.22	1.94	1.79	1.68	1.58	1.35	1.97	2.71	2.37	3.12
3	2.37	2.42	2.21	1.93	1.78	1.66	1.55	1.54	2.07	2.70	2.42	3.14
4	2.35	2.41	2.20	1.92	1.80	1.76	1.51	1.76	2.14	2.66	2.39	3.16
5	2.34	2.39	2.20	1.90	1.80	1.77	1.48	1.81	2.17	2.62	2.40	3.23
6	2.32	2.38	2.19	1.90	1.79	1.75	1.44	1.86	2.17	2.58	2.43	3.19
7	2.31	2.36	2.19	1.89	1.78	1.73	1.41	1.85	2.18	2.55	2.48	3.13
8	2.29	2.34	2.18	1.87	1.77	1.72	1.78	1.84	2.19	2.55	2.52	3.06
9	2.27	2.33	2.18	1.86	1.77	1.75	1.94	1.82	2.18	2.62	2.51	2.99
10	2.26	2.32	2.18	1.84	1.75	1.83	1.93	1.78	2.34	2.64	2.51	2.94
11	2.24	2.31	2.17	1.82	1.74	1.82	1.91	1.74	2.45	2.64	2.51	2.93
12	2.27	2.30	2.16	1.81	1.73	1.81	1.89	1.71	2.47	2.60	2.51	2.96
13	2.28	2.29	2.15	1.79	1.72	1.79	1.87	1.67	2.45	2.57	2.51	3.00
14	2.26	2.29	2.14	1.80	1.71	1.78	1.85	1.63	2.43	2.54	2.49	2.95
15	2.50	2.30	2.12	1.85	1.71	1.77	1.81	1.59	2.40	2.52	2.47	2.91
16	2.62	2.28	2.11	1.88	1.71	1.75	1.77	1.56	2.37	2.49	2.45	2.87
17	2.62	2.26	2.11	1.89	1.71	1.76	1.73	1.53	2.39	2.46	2.46	2.83
18	2.61	2.26	2.12	1.89	1.71	1.87	1.68	1.53	2.43	2.43	2.47	2.81
19	2.60	2.26	2.11	1.89	1.71	1.87	1.63	1.50	2.45	2.40	2.45	2.78
20	2.60	2.26	2.10	1.88	1.70	1.87	1.60	1.47	2.59	2.39	2.43	2.95
21	2.65	2.26	2.09	1.88	1.70	1.87	1.58	1.56	2.71	2.37	2.42	3.18
22	2.63	2.26	2.08	1.87	1.69	1.86	1.57	1.76	2.73	2.35	2.42	3.16
23	2.61	2.26	2.07	1.87	1.69	1.86	1.54	1.78	2.81	2.34	2.41	3.11
24	2.60	2.26	2.07	1.86	1.68	1.85	1.50	1.77	2.84	2.33	2.45	3.03
25	2.58	2.26	2.06	1.85	1.68	1.84	1.46	1.76	2.80	2.37	2.54	2.96
26	2.56	2.25	2.05	1.85	1.68	1.82	1.44	1.79	2.78	2.39	3.26	2.92
27	2.54	2.25	2.03	1.84	1.69	1.79	1.43	1.84	2.76	2.40	3.55	2.91
28	2.52	2.24	2.02	1.84	1.70	1.77	1.42	1.83	2.75	2.40	3.52	2.93
29	2.50	2.23	2.01	1.84	---	1.74	1.37	1.84	2.74	2.38	3.45	2.90
30	2.48	2.22	1.99	1.83	---	1.69	1.34	1.88	2.71	2.39	3.34	2.87
31	2.46	---	1.97	1.82	---	1.64	---	1.91	---	2.38	3.26	---
TOTAL	76.01	69.14	65.70	57.86	48.49	55.18	48.61	52.58	73.38	77.47	81.76	90.10
MEAN	2.45	2.30	2.12	1.87	1.73	1.78	1.62	1.70	2.45	2.50	2.64	3.00
MAX	2.65	2.45	2.22	1.96	1.80	1.87	1.94	1.91	2.84	2.71	3.55	3.23
MIN	2.24	2.22	1.97	1.79	1.68	1.64	1.34	1.32	1.91	2.33	2.36	2.78

252036080324300 EVERGLADES 4 IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°20'19", long 80°32'47", in sec.30, T.58 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, approximately 1.3 mi northwest of S-18-C and approximately 1.8 mi east of Aerojet Road.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 2.4 ft above National Geodetic Vertical Datum of 1929. Gage is capable of recording water levels below land-surface datum. Unpublished data prior to 1993 water year are available in the files of the U.S. Geological Survey. Unit value data prior to 1993 water year were not available for review to determine instantaneous maximum and minimum gage height.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.58 ft Oct. 16, 1999; minimum, indeterminate, well was dry during many years.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 3.24 ft Aug. 27; minimum, 1.12 ft May 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.21	2.34	2.14	1.88	1.71	1.51	1.38	1.12	1.68	2.53	2.26	2.92
2	2.21	2.33	2.14	1.87	1.69	1.45	1.37	1.23	1.81	2.53	2.25	2.91
3	2.19	2.32	2.13	1.85	1.71	1.43	1.33	1.62	2.01	2.52	2.27	2.94
4	2.18	2.31	2.12	1.84	1.74	1.68	1.29	1.95	2.03	2.50	2.25	3.01
5	2.16	2.29	2.11	1.83	1.72	1.62	1.25	1.89	2.02	2.47	2.26	3.08
6	2.14	2.29	2.11	1.83	1.69	1.55	1.21	1.95	2.01	2.44	2.31	3.01
7	2.13	2.28	2.11	1.81	1.67	1.52	1.18	1.85	2.04	2.42	2.36	2.95
8	2.12	2.27	2.10	1.79	1.66	1.51	1.84	1.76	2.03	2.42	2.38	2.90
9	2.11	2.26	2.10	1.77	1.64	1.59	2.08	1.68	2.02	2.49	2.36	2.86
10	2.10	2.23	2.10	1.76	1.62	1.80	1.99	1.60	2.25	2.50	2.35	2.80
11	2.09	2.22	2.10	1.74	1.59	1.70	1.91	1.52	2.34	2.50	2.36	2.77
12	2.20	2.21	2.08	1.73	1.57	1.63	1.85	1.47	2.32	2.47	2.35	2.79
13	2.23	2.20	2.07	1.72	1.56	1.58	1.80	1.41	2.29	2.44	2.36	2.85
14	2.22	2.20	2.07	1.80	1.55	1.56	1.74	1.35	2.26	2.41	2.35	2.79
15	2.52	2.21	2.04	1.97	1.54	1.54	1.68	1.32	2.23	2.37	2.34	2.75
16	2.61	2.19	2.02	1.97	1.54	1.52	1.62	1.28	2.20	2.35	2.33	2.71
17	2.56	2.18	2.02	1.93	1.53	1.59	1.56	1.25	2.20	2.32	2.33	2.69
18	2.52	2.17	2.03	1.89	1.53	1.89	1.51	1.23	2.21	2.30	2.34	2.67
19	2.49	2.16	2.03	1.87	1.52	1.80	1.46	1.19	2.20	2.28	2.33	2.65
20	2.47	2.15	2.02	1.85	1.51	1.75	1.43	1.16	2.31	2.27	2.32	2.85
21	2.51	2.16	2.01	1.84	1.50	1.71	1.41	1.33	2.44	2.26	2.31	3.17
22	2.49	2.16	2.00	1.83	1.49	1.68	1.39	1.60	2.49	2.25	2.31	3.09
23	2.47	2.17	2.00	1.82	1.49	1.66	1.36	1.55	2.58	2.25	2.32	3.02
24	2.46	2.20	2.00	1.80	1.48	1.65	1.30	1.49	2.59	2.25	2.35	2.95
25	2.43	2.21	1.99	1.79	1.48	1.62	1.26	1.45	2.57	2.30	2.40	2.90
26	2.41	2.20	1.98	1.78	1.48	1.58	1.24	1.70	2.55	2.38	2.96	2.87
27	2.40	2.19	1.95	1.77	1.49	1.55	1.25	1.88	2.54	2.44	3.24	2.87
28	2.38	2.19	1.94	1.77	1.53	1.52	1.22	1.70	2.56	2.37	3.22	2.92
29	2.37	2.17	1.93	1.77	---	1.49	1.17	1.65	2.56	2.32	3.14	2.88
30	2.35	2.15	1.91	1.75	---	1.46	1.13	1.75	2.54	2.31	3.04	2.87
31	2.35	---	1.90	1.73	---	1.43	---	1.70	---	2.29	2.97	---
TOTAL	72.08	66.61	63.25	56.35	44.23	49.57	44.21	47.63	67.88	73.95	76.72	86.44
MEAN	2.33	2.22	2.04	1.82	1.58	1.60	1.47	1.54	2.26	2.39	2.47	2.88
MAX	2.61	2.34	2.14	1.97	1.74	1.89	2.08	1.95	2.59	2.53	3.24	3.17
MIN	2.09	2.15	1.90	1.72	1.48	1.43	1.13	1.12	1.68	2.25	2.25	2.65

251946080254800 EVERGLADES 1 IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°19'50", long 80°26'06", in NE ¼ sec.4, T.59 S., R.39 E., Dade County, Hydrologic Unit 03090202, approximately 1 mi east of U.S. Highway 1, 1.3 mi west-southwest of Levee 31-E, east of S-18-C, southeast of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Land surface is approximately 1.1 ft above National Geodetic Vertical Datum of 1929. Data prior to 1993 water year are available in files of the U.S. Geological Survey. Unit values prior to 1993 water year were not available for review to determine maximum and minimum instantaneous gage height. Water levels below land-surface datum can be recorded.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.26 ft Nov. 15, 1994; minimum, 0.05 ft May 18, 19, 2002. Maximum instantaneous gage height recorded for the effects of Hurricane Rita, 30.30 ft Sept. 20, 2005.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.82 ft Sept. 21; minimum, 0.92 ft Apr. 6.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.70	1.74	1.59	1.43	1.29	1.12	1.03	1.04	1.36	1.82	1.72	2.02
2	1.69	1.71	1.58	1.42	1.29	1.09	1.01	1.03	1.41	1.80	1.70	2.00
3	1.65	1.69	1.58	1.41	1.29	1.07	1.00	1.10	1.53	1.79	1.69	2.08
4	1.63	1.68	1.57	1.41	1.31	1.20	0.96	1.30	1.60	1.78	1.68	2.07
5	1.62	1.67	1.57	1.40	1.31	1.20	0.94	1.31	1.61	1.76	1.70	2.13
6	1.61	1.67	1.56	1.41	1.31	1.18	0.92	1.35	1.61	1.74	1.74	2.06
7	1.60	1.66	1.56	1.40	1.33	1.16	0.93	1.35	1.58	1.73	1.75	2.01
8	1.65	1.66	1.55	1.39	1.47	1.15	1.34	1.34	1.55	1.73	1.74	1.98
9	1.64	1.65	1.56	1.38	1.53	1.20	1.56	1.32	1.54	1.82	1.72	1.96
10	1.63	1.67	1.55	1.37	1.51	1.35	1.53	1.29	1.71	1.84	1.72	1.94
11	1.61	1.85	1.55	1.36	1.47	1.34	1.50	1.25	1.80	1.82	1.72	1.97
12	1.64	1.79	1.55	1.35	1.43	1.33	1.47	1.21	1.74	1.79	1.71	2.01
13	1.64	1.72	1.54	1.34	1.41	1.31	1.45	1.18	1.70	1.77	1.71	2.00
14	1.62	1.69	1.53	1.33	1.39	1.30	1.42	1.15	1.68	1.76	1.71	1.97
15	1.75	1.69	1.52	1.35	1.37	1.27	1.41	1.12	1.66	1.74	1.71	1.95
16	1.77	1.80	1.52	1.35	1.36	1.24	1.39	1.09	1.65	1.73	1.71	1.92
17	1.72	1.76	1.51	1.35	1.35	1.22	1.38	1.07	1.64	1.71	1.70	1.90
18	1.70	1.70	1.52	1.34	1.33	1.32	1.37	1.06	1.65	1.70	1.70	1.90
19	1.68	1.67	1.52	1.33	1.32	1.32	1.35	1.09	1.71	1.69	1.69	1.96
20	1.73	1.65	1.51	1.33	1.30	1.30	1.34	1.10	1.85	1.67	1.68	2.64
21	1.87	1.63	1.50	1.32	1.27	---	1.33	1.17	1.91	1.67	1.69	2.82
22	1.82	1.62	1.50	1.32	1.24	1.28	1.31	1.34	1.90	1.66	1.70	2.38
23	1.79	1.62	1.49	1.31	1.21	1.26	1.29	1.39	1.95	1.66	1.72	2.21
24	1.79	1.61	1.49	1.31	1.19	1.23	1.25	1.39	1.97	1.65	1.75	2.09
25	1.79	1.61	1.48	1.30	1.17	1.20	1.22	1.37	1.93	1.64	1.82	2.01
26	1.83	1.61	1.48	1.29	1.16	1.17	1.19	1.36	1.90	1.66	2.42	1.99
27	1.89	1.60	1.47	1.29	1.15	1.15	1.17	1.34	1.89	1.73	2.37	1.97
28	1.89	1.60	1.46	1.29	1.13	1.13	1.15	1.32	1.88	1.74	2.25	1.95
29	1.85	1.59	1.45	1.29	---	1.10	1.12	1.34	1.86	1.72	2.17	1.93
30	1.80	1.59	1.44	1.29	---	1.07	1.08	1.38	1.84	1.76	2.11	1.91
31	1.76	---	1.44	1.29	---	1.05	---	1.37	---	1.75	2.04	---
TOTAL	53.36	50.20	47.14	41.75	36.89	---	37.41	38.52	51.61	53.83	56.24	61.73
MEAN	1.72	1.67	1.52	1.35	1.32	---	1.25	1.24	1.72	1.74	1.81	2.06
MAX	1.89	1.85	1.59	1.43	1.53	---	1.56	1.39	1.97	1.84	2.42	2.82
MIN	1.60	1.59	1.44	1.29	1.13	---	0.92	1.03	1.36	1.64	1.68	1.90

251906080283400 EVERGLADES 2A IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°18'57", long 80°28'41", in sec.7, T.59 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, in C-111 basin between C-109 and C-110 Canals, 1.6 mi west of U.S. Highway 1 and 1.5 mi north of C-111 Canal, approximately 8.5 mi south of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 25, 1985 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929

REMARKS.--Land surface is approximately 1.2 ft above National Geodetic Vertical Datum of 1929. Water levels below land-surface datum are recorded. Gage height records prior to October 1992, are available in the files of the U.S. Geological Survey. Water year 2000 was revised. Revised data is available in the files of the U.S. Geological Survey. Unit values prior to 1993 water year were not available to determine instantaneous maximum and minimum gage height.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.60 ft Oct. 15, 1999, (estimated); minimum, 0.03 ft May 18, 19, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 3.35 ft Aug. 27; minimum, 1.20 ft Apr. 7.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.26	2.34	2.10	1.68	1.51	1.37	1.33	1.26	1.45	2.58	2.31	2.98
2	2.24	2.33	2.09	1.67	1.50	1.35	1.32	1.24	1.51	2.57	2.31	2.94
3	2.21	2.32	2.09	1.66	1.50	1.34	1.30	1.30	1.63	2.55	2.33	2.97
4	2.17	2.31	2.07	1.64	1.51	1.38	1.27	1.43	1.69	2.53	2.30	2.95
5	2.13	2.29	2.07	1.63	1.50	1.38	1.25	1.43	1.73	2.50	2.32	3.03
6	2.10	2.28	2.06	1.63	1.49	1.37	1.22	1.46	1.77	2.47	2.38	3.00
7	2.08	2.27	2.05	1.62	1.48	1.36	1.20	1.46	1.82	2.44	2.42	2.93
8	2.11	2.25	2.04	1.60	1.48	1.36	1.48	1.45	1.86	2.46	2.48	2.86
9	2.08	2.24	2.03	1.59	1.48	1.38	1.64	1.44	1.91	2.54	2.48	2.81
10	2.05	2.23	2.02	1.57	1.48	1.45	1.64	1.43	2.12	2.54	2.48	2.78
11	2.03	2.21	2.00	1.56	1.47	1.45	1.63	1.42	2.25	2.54	2.48	2.78
12	2.06	2.21	1.98	1.55	1.46	1.44	1.63	1.40	2.28	2.50	2.48	2.81
13	2.06	2.20	1.97	1.54	1.46	1.44	1.62	1.39	2.29	2.47	2.47	2.84
14	2.03	2.20	1.95	1.53	1.46	1.43	1.60	1.37	2.29	2.45	2.45	2.82
15	2.16	2.20	1.93	1.54	1.45	1.42	1.58	1.35	2.28	2.43	2.43	2.79
16	2.26	2.19	1.92	1.54	1.45	1.42	1.57	1.33	2.27	2.41	2.42	2.75
17	2.29	2.17	1.90	1.53	1.44	1.42	1.55	1.30	2.25	2.38	2.40	2.72
18	2.32	2.16	1.90	1.51	1.44	1.46	1.53	1.28	2.27	2.36	2.38	2.69
19	2.34	2.13	1.88	1.51	1.43	1.45	1.52	1.27	2.34	2.35	2.36	2.66
20	2.37	2.11	1.86	1.51	1.42	1.45	1.50	1.25	2.51	2.33	2.35	2.82
21	2.44	2.08	1.84	1.51	1.42	1.44	1.48	1.27	2.63	2.32	2.34	3.02
22	2.45	2.07	1.82	1.51	1.41	1.44	1.47	1.33	2.65	2.30	2.34	3.00
23	2.45	2.06	1.80	1.52	1.40	1.43	1.45	1.33	2.74	2.29	2.35	2.95
24	2.45	2.06	1.79	1.51	1.40	1.43	1.42	1.33	2.76	2.28	2.39	2.88
25	2.44	2.06	1.78	1.52	1.39	1.42	1.40	1.33	2.72	2.30	2.49	2.82
26	2.43	2.07	1.77	1.52	1.38	1.41	1.38	1.32	2.68	2.35	3.22	2.80
27	2.42	2.09	1.75	1.52	1.38	1.40	1.36	1.32	2.66	2.38	3.35	2.78
28	2.40	2.10	1.73	1.54	1.38	1.39	1.34	1.32	2.66	2.36	3.27	2.78
29	2.38	2.10	1.72	1.54	---	1.38	1.32	1.41	2.63	2.33	3.18	2.73
30	2.37	2.10	1.71	1.53	---	1.36	1.29	1.42	2.60	2.34	3.08	2.69
31	2.35	---	1.70	1.52	---	1.35	---	1.44	---	2.33	3.02	---
TOTAL	69.93	65.43	59.32	48.35	40.57	43.57	43.29	42.08	67.25	74.98	79.06	85.38
MEAN	2.26	2.18	1.91	1.56	1.45	1.41	1.44	1.36	2.24	2.42	2.55	2.85
MAX	2.45	2.34	2.10	1.68	1.51	1.46	1.64	1.46	2.76	2.58	3.35	3.03
MIN	2.03	2.06	1.70	1.51	1.38	1.34	1.20	1.24	1.45	2.28	2.30	2.66

251816080232200 CARD SOUND CANAL NEAR HOMESTEAD, FL

LOCATION.--Lat 25°18'16", long 80°23'22", T.59 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, located approximately 1 mi upstream of the mouth, approximately 12 mi northeast of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter and acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good except for the following periods: Oct. 1 to Nov. 29, Mar. 14-30, rated poor. Daily values are not published for this site. Rainfall data not published, but available in the files of the U.S. Geological Survey. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 853 ft^3/s Sept. 21, 2005; maximum negative, 887 ft^3/s Sept. 20, 2005.
GAGE HEIGHT: Maximum gage height, 1.99 ft Sept. 20, 2005; minimum, -1.58 ft Mar. 28, 2005.

EXTREMES FOR FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 853 ft^3/s Sept. 21; maximum negative, 887 ft^3/s Sept. 20.
GAGE HEIGHT: Maximum gage height, 1.99 ft Sept. 20; minimum, -1.58 ft Mar. 28.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): October 2003 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP AND BOTTOM) record rated excellent. Temperature (TOP AND BOTTOM) record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -1.99 ft NAVD 88 (TOP) and -3.02 ft NAVD 88 (BOTTOM). Daily values are not published for this site. Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 40.7 ppt June 6, 2004; minimum recorded, 0.5 ppt Aug. 27, 2005.
SALINITY (BOTTOM): Maximum recorded, 42.0 ppt July 15, 2004; minimum recorded, 0.3 ppt Feb. 27, 2004.
WATER TEMPERATURE (TOP): Maximum recorded, 38.2°C July 11, 2004; minimum recorded, 14.1°C Feb. 12, 2005.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 38.4°C July 11, 2004; minimum recorded, 14.4°C Feb. 12, 2005.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 38.6 ppt May 18; minimum recorded, 0.5 ppt Aug. 27.
SALINITY (BOTTOM): Maximum recorded, 38.7 ppt May 18, 19; minimum recorded, 0.5 ppt Aug. 27.
WATER TEMPERATURE (TOP): Maximum recorded, 36.8°C Aug. 16; minimum recorded, 13.9°C Feb. 12.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.3°C Aug. 16; minimum recorded, 14.4°C Feb. 12.

251740080311200 C-111 WETLAND NEAR HOMESTEAD, FL

LOCATION.--Lat 25°17'40", long 80°31'12" Miami-Dade County, Hydrologic Unit 03090202.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Satellite data collection platform with shallow-vented pressure transducer. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--During periods in the dry season, water level too low or non-existent for sensor to record. Records good. Daily values are not published for this site. Gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 1.78 ft Aug. 27, 2005; minimum, 0.17 ft Dec. 12, 2004.

EXTREMES FOR FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 1.78 ft Aug. 27; minimum, 0.17 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: October 2003 to current year.
WATER TEMPERATURE: October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 0.40 ppt July 31, 2004; minimum recorded, 0.03 ppt Mar. 15, 2004 and Aug. 25, 2005.
WATER TEMPERATURE: Maximum recorded, 38.1°C Aug. 17, 2005; minimum recorded, 10.6°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 0.37 ppt June 9; minimum recorded, 0.03 ppt Aug. 25.
WATER TEMPERATURE: Maximum recorded, 38.1°C Aug. 17; minimum recorded, 16.4°C Dec. 12.

251716080342100 EVERGLADES 5A IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°17'10", long 80°34'22", in SW $^1/_4$ sec.18, T.59 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, in C-111 drainage basin, 2.5 mi south of Levee 31 canal and 7 mi west of U.S. Highway 1, 12.5 mi southwest of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land surface is approximately 1.1 ft above National Geodetic Vertical Datum of 1929. Unpublished data prior to 1993 water year are available in files of the U.S. Geological Survey. Unit values prior to 1993 water year were not available for review to determine instantaneous maximum and minimum gage height. Water levels below land-surface datum are recorded.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.06 ft Oct. 16, 1999; minimum, -0.98 ft May 19, 2002. Maximum instantaneous gage height recorded for Hurricane Katrina, 3.20 ft Aug. 27, 2005.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.99 ft Aug 27; minimum, 0.23 ft May 20.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.68	1.40	1.18	0.94	0.77	0.65	0.50	0.43	0.82	1.62	1.27	2.16
2	1.60	1.40	1.16	0.92	0.75	0.61	0.48	0.43	0.90	1.60	1.28	2.16
3	1.52	1.40	1.16	0.91	0.75	0.59	0.45	0.46	1.06	1.58	1.32	2.15
4	1.44	1.38	1.14	0.90	0.77	0.76	0.41	0.48	1.10	1.54	1.29	2.14
5	1.38	1.37	1.13	0.90	0.76	0.75	0.38	0.57	1.11	1.51	1.30	2.21
6	1.32	1.36	1.12	0.89	0.74	0.72	0.34	0.75	1.09	1.48	1.34	2.14
7	1.30	1.34	1.12	0.88	0.72	0.70	0.32	0.71	1.09	1.45	1.37	2.07
8	1.30	1.31	1.11	0.87	0.71	0.69	0.88	0.68	1.07	1.46	1.50	2.01
9	1.26	1.29	1.10	0.86	0.70	0.74	1.14	0.63	1.04	1.59	1.48	1.96
10	1.23	1.27	1.09	0.85	0.68	0.89	1.11	0.58	1.21	1.64	1.43	1.90
11	1.20	1.25	1.08	0.84	0.66	0.86	1.08	0.54	1.31	1.60	1.40	1.86
12	1.27	1.24	1.07	0.82	0.65	0.83	1.06	0.50	1.29	1.55	1.37	1.86
13	1.33	1.23	1.06	0.81	0.64	0.81	1.03	0.46	1.25	1.52	1.36	1.90
14	1.35	1.24	1.05	0.83	0.64	0.79	1.00	0.41	1.22	1.54	1.34	1.86
15	1.58	1.26	1.03	0.92	0.65	0.77	0.97	0.37	1.19	1.52	1.32	1.81
16	1.69	1.24	1.01	0.97	0.67	0.75	0.94	0.33	1.16	1.47	1.29	1.79
17	1.66	1.23	1.01	0.96	0.68	0.76	0.91	0.29	1.17	1.43	1.27	1.83
18	1.61	1.22	1.01	0.95	0.69	0.90	0.89	0.31	1.22	1.39	1.25	1.80
19	1.58	1.20	1.01	0.93	0.69	0.87	0.86	0.26	1.26	1.37	1.24	1.75
20	1.55	1.19	1.00	0.92	0.68	0.84	0.83	0.23	1.47	1.35	1.23	1.93
21	1.56	1.18	0.99	0.91	0.67	0.82	0.80	0.48	1.55	1.33	1.23	2.46
22	1.54	1.17	0.98	0.90	0.66	0.80	0.78	0.97	1.65	1.31	1.26	2.37
23	1.51	1.16	0.98	0.90	0.66	0.79	0.76	1.07	1.82	1.30	1.33	2.26
24	1.50	1.17	0.99	0.89	0.65	0.77	0.72	1.04	1.76	1.28	1.35	2.16
25	1.48	1.19	0.99	0.87	0.65	0.74	0.68	1.00	1.69	1.27	1.41	2.07
26	1.47	1.20	0.98	0.86	0.65	0.71	0.64	0.96	1.64	1.28	2.54	2.00
27	1.45	1.21	0.96	0.85	0.67	0.68	0.61	0.93	1.64	1.32	2.99	1.97
28	1.44	1.21	0.95	0.84	0.67	0.65	0.58	0.89	1.66	1.33	2.70	2.01
29	1.43	1.20	0.95	0.82	---	0.60	0.53	0.86	1.65	1.33	2.50	1.98
30	1.42	1.19	0.95	0.80	---	0.57	0.48	0.83	1.63	1.32	2.36	2.04
31	1.40	---	0.94	0.78	---	0.54	---	0.81	---	1.30	2.23	---
TOTAL	45.05	37.70	32.30	27.29	19.28	22.95	22.16	19.26	39.72	44.58	48.55	60.61
MEAN	1.45	1.26	1.04	0.88	0.69	0.74	0.74	0.62	1.32	1.44	1.57	2.02
MAX	1.69	1.40	1.18	0.97	0.77	0.90	1.14	1.07	1.82	1.64	2.99	2.46
MIN	1.20	1.16	0.94	0.78	0.64	0.54	0.32	0.23	0.82	1.27	1.23	1.75

251724080341400 EVERGLADES 5B IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°17'14", long 80°34'08", in SW $\frac{1}{4}$ sec.18, T.59 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, in C-111 drainage basin, 2.5 mi south of Levee 31 canal and 7 mi west of U.S. Highway 1, 12.5 mi southwest of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Land surface is approximately 1.1 ft above National Geodetic Vertical Datum of 1929. Water levels below land-surface datum are not able to be recorded. Unpublished data prior to 1993 water year are available in the files of the U.S. Geological Survey. Unit values data prior to 1993 water year was not available to determine instantaneous maximum and minimum gage height.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.10 ft Oct. 16, 1999; minimum, indeterminate. Maximum instantaneous gage height recorded for Hurricane Katrina, 3.14 ft Aug. 27, 2005.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.93 ft Aug. 27; minimum, indeterminate, well was dry for many days.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.42	1.23	---	---	---	---	---	---	---	---	2.12
2	---	1.42	1.22	---	---	---	---	---	---	---	---	2.12
3	---	1.41	1.22	---	---	---	---	---	---	---	---	2.12
4	---	1.40	1.21	---	---	---	---	---	---	---	---	2.11
5	---	1.39	1.21	---	---	---	---	---	---	---	---	2.19
6	---	1.38	1.20	---	---	---	---	---	---	---	---	2.12
7	---	1.36	1.20	---	---	---	---	---	---	---	---	2.05
8	---	1.35	1.19	---	---	---	---	---	---	---	---	1.99
9	---	1.33	1.19	---	---	---	---	---	---	---	---	1.94
10	---	1.32	---	---	---	---	---	---	---	---	---	1.89
11	---	1.31	---	---	---	---	---	---	---	---	---	1.85
12	---	1.30	---	---	---	---	---	---	---	---	---	1.88
13	---	1.30	---	---	---	---	---	---	---	---	---	2.03
14	---	1.30	---	---	---	---	---	---	---	---	---	1.99
15	1.57	1.31	---	---	---	---	---	---	---	---	---	1.94
16	1.68	1.30	---	---	---	---	---	---	---	---	---	1.91
17	1.65	1.29	---	---	---	---	---	---	---	---	---	1.91
18	1.62	1.28	---	---	---	---	---	---	---	---	1.40	1.88
19	1.59	1.27	---	---	---	---	---	---	---	---	1.39	1.83
20	1.56	1.26	---	---	---	---	---	---	---	---	1.39	2.03
21	1.56	1.25	---	---	---	---	---	---	---	---	1.39	2.54
22	1.54	1.25	---	---	---	---	---	---	---	---	1.39	2.43
23	1.52	1.24	---	---	---	---	---	---	---	---	1.37	2.31
24	1.51	1.24	---	---	---	---	---	---	---	---	1.36	2.22
25	1.50	1.26	---	---	---	---	---	---	---	---	1.40	2.13
26	1.48	1.26	---	---	---	---	---	---	---	---	2.47	2.07
27	1.47	1.25	---	---	---	---	---	---	---	---	2.93	2.05
28	1.46	1.25	---	---	---	---	---	---	---	---	2.66	2.10
29	1.45	1.24	---	---	---	---	---	---	---	---	2.47	2.07
30	1.44	1.23	---	---	---	---	---	---	---	---	2.32	2.11
31	1.42	---	---	---	---	---	---	---	---	---	2.19	---
TOTAL	---	39.17	---	---	---	---	---	---	---	---	---	61.93
MEAN	---	1.31	---	---	---	---	---	---	---	---	---	2.06
MAX	---	1.42	---	---	---	---	---	---	---	---	---	2.54
MIN	---	1.23	---	---	---	---	---	---	---	---	---	1.83

251549080251200 MANATEE BAY CREEK NEAR HOMESTEAD, FL

LOCATION.--Lat 25°15'49", long 80°25'12", T.59, S., R.39, Miami-Dade County, Hydrologic Unit 03090202, located approximately 300 ft upstream of mouth, 9.5 mi north of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Satellite data collection platform with acoustic stage transducer, acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge 1060 ft^3/s Sept. 10, 2005; maximum negative, 1150 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 2.27 ft Sept. 20, 2005; minimum, -1.65 ft Mar. 28, 2005.

EXTREMES FOR FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge 1060 ft^3/s Sept. 10; maximum negative, 1150 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 2.27 ft Sept. 20; minimum, -1.65 ft Mar. 28.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): October 2003 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP AND BOTTOM) record rated excellent. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 44.7 ppt July 18, 2004; minimum recorded, 0.1 ppt Sept. 5, 2004.
SALINITY (BOTTOM): Maximum recorded, 44.6 ppt July 18, 19, 2004; minimum recorded, 2.4 ppt Aug. 31, 2005 and Sept. 1, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 36.4°C July 29, 2005 and Aug. 4, 2005; minimum recorded, 13.2°C Dec. 21, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.2°C Aug. 4, 2005; minimum recorded, 13.3°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 41.4 ppt May 31; minimum recorded, 1.5 ppt Aug. 29.
SALINITY (BOTTOM): Maximum recorded, 41.4 ppt May 23; minimum recorded, 2.4 Aug. 31, Sept. 1.
WATER TEMPERATURE (TOP): Maximum recorded, 36.4°C July 29, Aug. 4; minimum recorded, 14.8°C Dec. 21, Jan. 24, 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.2°C Aug. 4; minimum recorded, 14.7°C Jan. 25.

251457080395800 TAYLOR SLOUGH WETLAND AT E146 NEAR HOMESTEAD, FL

LOCATION.--Lat 25°14'57", long 80°39'58", Miami-Dade County, Hydrologic Unit 03090202, approximately 13 mi southwest of Pine Island in Taylor Slough of Everglades National Park.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Satellite data collection platform with water-stage pressure sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records rated good. During the dry season this site normally dries out. Daily values are not published for this site. During periods of missing record values may be higher or lower than the listed extremes. Gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 1.46 ft Aug. 27, 2005; minimum, -0.42 ft Mar. 8, 9, 2004 (last recorded gage height before wetland went dry).

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 1.46 ft Aug. 27; minimum, -0.37 ft Dec. 12, 13 (last recorded gage height before wetland went dry).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: October 2003 to current year.
WATER TEMPERATURE: October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor near the bottom.

REMARKS.--Specific conductance record rated good. Temperature record rated good. Daily values are not published for this site. During periods of missing record values may be higher or lower than the listed extremes. Specific conductance and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 605 microsiemens Aug. 4, 2004; minimum recorded, 121 microsiemens Sept. 20, 2005.
WATER TEMPERATURE: Maximum recorded, 36.8°C July 23, 2005; minimum recorded, 10.7°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 482 microsiemens June 18; minimum recorded, 121 microsiemens Sept. 20.
WATER TEMPERATURE: Maximum recorded, 36.8°C July 23; minimum recorded, 15.9°C Dec. 13.

251440080262800 EAST HIGHWAY CREEK NEAR KEY LARGO, FL

LOCATION.--Lat 25°14'40", long 80°26'28", T.60 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, located approximately 100 ft upstream of the mouth on the left bank, approximately 5 mi, northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2001 to current year.

GAGE.--Acoustic Doppler velocity meter with up-looking acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 486 ft^3/s June 24, 2002; maximum negative, 415 ft^3/s Sept. 22, 2002.
GAGE HEIGHT: Maximum gage height, 1.77 ft (estimated) Aug. 26, 2005; minimum, -1.50 ft Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 400 ft^3/s Sept. 2; maximum negative, 395 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.77 ft (estimated) Aug. 26; minimum, -1.25 ft Dec. 15.

251438080333500 JOE BAY 5C NEAR KEY LARGO, FL

LOCATION.--Lat 25°14'38", long 80°33'35", T.60 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, located approximately 150 ft upstream of the mouth on the right bank, approximately 6 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2001 to June 2003 (gage heights and discharge), November 2004 to current year (gage heights only).

GAGE.--Water-stage pressure sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88). Prior to June 6, 2003, acoustic Doppler velocity meter and acoustic stage sensor.

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 148 ft^3/s Nov. 5, 2001; maximum negative, 83 ft^3/s Apr. 26, 2003.
GAGE HEIGHT: Maximum gage height, 2.11 ft Aug. 26, 2005; minimum, -1.70 ft Jan. 18, 2005.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 2.11 ft Aug. 26; minimum, -1.70 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: July 1999 to current year.
WATER TEMPERATURE: July 1999 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated excellent except for the following periods: Nov. 15-30, Dec. 3 to Jan. 5, Mar. 30 to Apr. 21, rated good; Apr. 22-25, rated fair. During periods of missing record, values may be higher or lower than the listed extremes. The salinity and temperature sensor is located at the elevation of -2.71 ft NAVD 88. Daily values are not published for this site. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 47.1 ppt May 20, 2005; minimum recorded, 0.2 ppt occurred on many days during the months of July to Oct. in water years 1999, 2000, 2002, 2003, 2004, and 2005.
WATER TEMPERATURE: Maximum recorded, 39.0°C Aug. 29, 2004; minimum recorded, 9.5°C Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 47.1 ppt May 20; minimum recorded, 0.2 ppt Sept. 23-27.
WATER TEMPERATURE: Maximum recorded, 38.6°C July 22; minimum recorded, 11.2°C Dec. 15.

251433080265000 WEST HIGHWAY CREEK, FL

LOCATION.--Lat 25°14'33", long 80°26'50", T.60 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, located approximately 150 ft upstream of the mouth on the right bank, approximately 6 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1996 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 683 ft^3/s June 22, 2005; maximum negative, 1,050 ft^3/s Oct. 15, 1999.
GAGE HEIGHT: Maximum gage height, 1.86 ft Oct. 16, 1999; minimum, -1.64 ft Mar. 30, 1996.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 683 ft^3/s June 22; maximum negative, 829 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.82 ft Aug. 26; minimum, -1.26 ft Feb. 23.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): February 1996 to current year.
WATER TEMPERATURE (TOP, BOTTOM): February 1996 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent. Salinity (BOTTOM) record rated excellent except for the following periods: Mar. 13-23, May 25, 26, rated good. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at -1.85 ft NAVD 88 (TOP) and -3.75 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 42.4 ppt May 31, June 1, 2005; minimum recorded, 0.2 ppt occurred on many days during the months of July-Oct. during the 1996, 1997, 1999, and 2001 water years.
SALINITY (BOTTOM): Maximum recorded, 42.7 ppt June 1, 2005; minimum recorded, 0.2 ppt occurred on many days during the months of July-Oct. during the 1996, 1997, 1999, and 2001 water years.
WATER TEMPERATURE (TOP): Maximum recorded, 35.8°C July 12, 2000; minimum recorded, 9.7°C Jan. 19, 1997.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.1°C July 25, 26, 1999; minimum recorded, 9.7°C Jan. 19, 1997.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 42.4 ppt May 31, June 1; minimum recorded, 0.3 ppt Sept. 7, 23, 24.
SALINITY (BOTTOM): Maximum recorded, 42.7 ppt June 1; minimum recorded, 0.3 ppt Sept. 23, 24.
WATER TEMPERATURE (TOP): Maximum recorded, 35.7°C Aug. 18, 19; minimum recorded, 13.8°C Jan. 18.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.4°C Aug. 17; minimum recorded, 13.8°C Jan 18.

251422080271900 OREGON CREEK NEAR KEY LARGO, FL

LOCATION.--Lat 25°14'22", long 80°27'19", T.60 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, located approximately 100 ft upstream of the mouth on the right bank, approximately 6 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Acoustic Doppler velocity meter with up-looking acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 189 ft^3/s June 22, 2005; maximum negative, 198 ft^3/s Sept. 5, 2004.
GAGE HEIGHT: Maximum gage height, 1.60 ft Aug. 26, 2005; minimum, -1.59 ft Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 189 ft^3/s June 22; maximum negative, 176 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.60 ft Aug. 26; minimum, -1.10 ft Apr. 3-5, May 2, 13.

251355080312800 JOE BAY 2E NEAR KEY LARGO, FL

LOCATION.--Lat 25°13'55", long 80°31'28", T.60 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, located on the east side of Joe Bay on the left bank, approximately 10 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter and acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records excellent. Estimated unit value discharge is considered fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 143 ft^3/s Sept. 20, 2005; maximum negative, 180 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 1.81 ft Aug. 26, 2005; minimum, -1.36 ft (estimated) Jan. 19, 2005.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 143 ft^3/s Sept. 20; maximum negative, 180 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.81 ft Aug. 26; minimum, -1.36 ft Jan. 19.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: May 1999 to current year.
WATER TEMPERATURE: May 1999 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated excellent except for the following period: Jan. 6 to Mar. 23, rated good. During periods of missing record, values may be higher or lower than the listed extremes. Elevation of the salinity and temperature sensor is -2.75 ft NAVD 88. Daily values are not published for this site. The salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 45.5 ppt May 28, June 1,2005; minimum recorded, 0.2 ppt Oct. 26, 1999, Sept. 13, 14, 2004.
WATER TEMPERATURE: Maximum recorded, 37.0°C June 30, 1999; minimum recorded, 11.2°C Jan. 23, 2001, and Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 45.5 ppt May 28, June 1; minimum recorded, 0.3 ppt Sept. 21-28.
WATER TEMPERATURE: Maximum recorded, 36.6°C Aug. 23; minimum recorded, 13.3°C Jan. 24.

251341080291200 STILLWATER CREEK NEAR HOMESTEAD, FL

LOCATION.--Lat 25°13'41", long 80°29'12", T.60 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, located on the left bank near the mouth, 8 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to September 1999 (gage heights only); October 1999 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good except for August 8 to September 7, which are poor. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 200 ft^3/s June 22, 2005; maximum negative, 206 ft^3/s Sept. 5, 2004.
GAGE HEIGHT: Maximum gage height, 1.39 ft Aug. 26, 2005; minimum, -1.84 ft Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 200 ft^3/s June 22; maximum negative, 184 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.39 ft Aug. 26; minimum, -1.66 ft Mar. 8.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): April 1999 to current year.
SALINITY (BOTTOM): May 2001 to current year. (Corrected).
WATER TEMPERATURE (TOP): April 1999 to current year.
WATER TEMPERATURE: (BOTTOM): May 2001 to current year. (Corrected).

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent for the entire year. Salinity (BOTTOM) record rated excellent except for the following period: Nov 1 to Jan 5, rated good. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at -3.2 ft NAVD 88 (TOP) and -4.4 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 44.7 ppt June 2, 2005; minimum recorded, 0.5 ppt Oct. 5, 2000.
SALINITY (BOTTOM): Maximum recorded, 45.0 ppt June 2, 2005; minimum recorded, 0.6 ppt Sept. 18, 2002, July 2, 3, 2003, Sept. 29, 30, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 35.8°C Aug. 10, 2005; minimum recorded, 11.8°C Jan. 1, 2001.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.4°C Aug. 29, 2004; minimum recorded, 10.7°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 44.7 ppt June 2; minimum recorded, 0.6 ppt Sept. 28-30.
SALINITY (BOTTOM): Maximum recorded, 45.0 ppt June 2;; minimum recorded, 0.6 ppt Sept. 29, 30.
WATER TEMPERATURE (TOP): Maximum recorded, 35.8°C Aug. 10; minimum recorded, 14.0°C Jan. 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.3°C Aug. 4; minimum recorded, 14.2°C Jan. 25.

251338080312600 JOE BAY 1E NEAR KEY LARGO, FL

LOCATION.--Lat 25°13'38", long 80°31'26", T.60 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, located on the east side of Joe Bay on the right bank, approximately 10 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to current year.

GAGE.--Acoustic Doppler velocity meter with acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records excellent. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR CURRENT YEAR--.
DISCHARGE: Maximum positive discharge, 1850 ft^3/s Aug. 26; maximum negative, 1940 ft^3/s June 22.
GAGE HEIGHT: Maximum gage height, 1.77 ft Aug. 26; minimum, -1.54 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: July 1999 to current year.
WATER TEMPERATURE: July 1999 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated excellent except for the following period: Feb. 7 to Mar. 23. During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 45.0 ppt May 30, 31, June 1, 2005; minimum recorded, 0.3 ppt Oct. 25-29, 2001.
WATER TEMPERATURE: Maximum recorded, 36.2°C Aug. 30, 2004; minimum recorded, 10.7°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 45.0 ppt May 30, 31, and June 1; minimum recorded, 0.4 ppt Sept. 24-30.
WATER TEMPERATURE: Maximum recorded, 36.0°C Aug. 4; minimum recorded, 13.9°C Jan. 25.

251322080352500 JOE BAY 8W NEAR KEY LARGO, FL

LOCATION.--Lat 25°13'22", long 80°35'25", T.60 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, located approximately 100 ft upstream of the mouth on the left bank, approximately 8 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Acoustic Doppler velocity meter with acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 642 ft^3/s Sept. 20, 2005; maximum negative, 889 ft^3/s Sept. 20, 2005.
GAGE HEIGHT: Maximum gage height, 1.75 ft Aug. 26, 2005; minimum, -1.55 ft Sept. 4, 2004.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 642 ft^3/s Sept. 20; maximum negative, 889 ft^3/s Sept. 20.
GAGE HEIGHT: Maximum gage height, 1.75 ft Aug. 26; minimum, -1.48 ft Jan. 19.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: May 1999 to current year.
WATER TEMPERATURE: May 1999 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for Nov. 30, rated good. Temperature record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temprature sensor located at -2.93 ft NAVD 88. Daily values are not published for this site. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 42.7 ppt June 1, 2, 2005; minimum recorded, 0.1 ppt Nov. 30, 2004, Jan. 6, 2005.
WATER TEMPERATURE: Maximum recorded, 35.4°C July 27, 1999; minimum recorded, 10.3°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 42.7 ppt June 1, 2; minimum recorded, 0.1 ppt Nov. 30, Jan.6.
WATER TEMPERATURE: Maximum recorded, 35.0°C Aug. 4; minimum recorded, 13.5°C Jan. 18.

251253080320100 TROUT CREEK AT MOUTH, FL

LOCATION.--Lat 25°12'53", long 80°32'01", T.38 S., R.60 E., Miami-Dade County, Hydrologic Unit 03090202, located on left bank, 100 ft upstream of mouth of Trout Creek, 10 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records rated good. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 2,730 ft^3/s Sept. 2, 2005; maximum negative, 4,370 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 1.97 ft Aug. 26, 2005; minimum, -1.74 ft Mar. 9, 10, 1996.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 2,730 ft^3/s Sept. 2; maximum negative, 4,370 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.97 ft Aug. 26; minimum, -1.59 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): October 1995 to current year.
WATER TEMPERATURE (TOP, BOTTOM): October 1995 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except the following periods: Oct. 14 to Nov. 5, Nov. 13 to 29, rated good; Nov. 30 to Dec. 12, rated fair; Dec. 13 to Jan. 4, rated poor. Salinity (BOTTOM) record rated excellent except for the following period: Oct. 6 to Nov. 5, rated good. Temperature (TOP) record rated excellent except for the following periods: Oct. 4 to Nov. 5, Mar. 21 to Apr. 12, rated good; Apr. 13, 14, rated fair; Temperature (BOTTOM) record rated excellent except for the following periods: Mar. 20 to Apr. 14, July 22-28, rated good. Salinity and temperature sensors located at -1.95 ft NAVD 88 (TOP) and -4.0 ft NAVD 88 (BOTTOM). Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature, 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 47.8 ppt May 17, 2005;minimum recorded, 0.3 ppt Oct. 26, 1999.
SALINITY (BOTTOM): Maximum recorded, 47.1 ppt May 20, 2005; minimum recorded, 0.3 ppt Oct. 28, 2001, Sept. 25, 26, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 37.5°C July 27, 1999; minimum recorded, 9.6°C Jan. 20, 1997.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 37.5°C July 27, 1999; minimum recorded, 10.0°C Jan. 19, 1997.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 47.8 ppt May 17; minimum recorded, 0.3 ppt Sept. 25, 26.
SALINITY (BOTTOM): Maximum recorded, 47.1 ppt May 20; minimum recorded, 0.4 ppt Sept. 25, 26.
WATER TEMPERATURE (TOP): Maximum recorded, 36.1° Aug. 2; minimum recorded, 13.5°C Jan. 21.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 37.0°C Aug.3; minimum recorded, 13.7°C Jan. 18, 20.

251241080385300 UPSTREAM TAYLOR RIVER NEAR HOMESTEAD, FL

LOCATION.--Lat 25°12'41", long 80°38'53", T.60 S., R.37 E., Miami-Dade County, Madeira Bay Quadrangle, Hydrologic Unit 03090202, located upstream on the left bank, approximately 12 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 40.4 ft^3/s Oct 20, 1999; maximum negative, 35 ft^3/s Aug. 4, 2004.
GAGE HEIGHT: Maximum gage height, 1.68 ft Oct. 15, 1999; minimum, -1.36 ft Jan. 23, 2001 and Jan. 18, 2005.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 39.3 ft^3/s July 21; maximum negative, 27.6 ft^3/s Mar. 28.
GAGE HEIGHT: Maximum gage height, 1.01 ft Sept. 20; minimum, -1.36 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): August 1999 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): August 1999 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent. Salinity (BOTTOM) record rated excellent except for the following period: Mar. 9 to May 20, rated poor. Temperature (TOP) record rated excellent except for the following periods: July 18 to Sept. 7, rated good; May 5 to July 17, rated fair. Temperature (BOTTOM) record rated excellent except for the following periods: Oct. 1 to Nov. 23, Jan. 22 to May 4, rated good; May 5 to Sept. 7, rated fair. During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature sensor is located at -1.22 ft NAVD 88 (TOP) and -2.42 ft NAVD 88 (BOTTOM). Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 49.9 ppt May 31, June 1, 2005; minimum recorded, 0.17 ppt Oct. 20, 21, 1999.
SALINITY (BOTTOM): Maximum recorded, 51.0 ppt June 1, 2005; minimum recorded, 0.2 ppt Oct. 20, 21, 1999; Oct. 6-12, 15-23, 2003; Nov. 4-24, 2003, and Dec. 1-12, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 34.6°C Aug. 11, 2004; minimum recorded, 10.9°C Jan. 19, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.4°C July 7, 2004; minimum recorded, 11.0°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 49.9 ppt May 31, June 1; minimum recorded, 0.5 ppt Sept. 23-27.
SALINITY (BOTTOM): Maximum recorded, 51.0 ppt June 1; minimum recorded, 0.5 ppt Sept. 23-26.
WATER TEMPERATURE (TOP): Maximum recorded, 33.9°C July 22; minimum recorded, 13.9°C Jan. 18.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.7°C July 4, 22, 23; minimum recorded, 14.5°C Jan 18.

251209080350100 MUD CREEK AT THE MOUTH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°12'09", long 80°35'01", T.60 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, left bank upstream of mouth, 9 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 462 ft^3/s Aug. 28, 2005; maximum negative, 594 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 2.88 ft Aug. 26, 2005; minimum, -1.76 ft Mar. 10, 1996.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 462 ft^3/s Aug. 28; maximum negative, 594 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 2.88 ft Aug. 26; minimum, -1.62 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): October 1995 to current year.
WATER TEMPERATURE (TOP, BOTTOM): October 1995 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent. Salinity (BOTTOM) record rated excellent except for the following period: Aug. 13 to Sept. 7, rated good. Temperature (TOP AND BOTTOM) record rated excellent except for the following period: Oct. 1-20. Salinity and temperature sensors located at -2.35 ft NAVD 88 (TOP) and -3.1 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 49.0 ppt May 19, 2005; minimum recorded, 0.2 ppt Nov. 15-17, 2003.
SALINITY (BOTTOM): Maximum recorded, 48.5 ppt May 18, 19, 2005; minimum recorded, 0.3 ppt Oct. 5-18, 2003, and Nov. 15-18, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 36.6°C July 26, 27, 1999; minimum recorded, 10.1°C Jan. 18, 1997.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.7°C July 25, 1999; minimum recorded, 10.2°C Jan. 19, 1997.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 49.0 ppt May 19; minimum recorded, 0.4 ppt Sept. 25-30.
SALINITY (BOTTOM): Maximum recorded, 48.5 ppt May 18, 19; minimum recorded, 0.4 ppt Sept. 25-30.
WATER TEMPERATURE (TOP): Maximum recorded, 36.4°C Aug. 4; minimum recorded, 13.4°C Jan. 19.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.5°C Aug. 10; minimum recorded, 13.6°C Dec. 21, Jan. 19.

251127080382100 TAYLOR RIVER AT MOUTH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°11'27", long 80°38'21", T.60 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, located at the mouth of Taylor River on the left bank, approximately 10 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records excellent. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 478 ft^3/s Oct. 15, 1999; maximum negative, 416 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 3.14 ft Aug. 26, 2005; minimum, -1.78 ft Mar. 11, 1996.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 301 ft^3/s Sept. 30; maximum negative, 416 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 3.14 ft Aug. 26; minimum, -1.72 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): October 1995 to current year.
WATER TEMPERATURE (TOP, BOTTOM): October 1995 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Oct. 1-20, Nov. 20 to Dec. 7, rated good; Dec. 8-10, rated fair; Dec. 11-20, rated poor. Salinity (BOTTOM) record rated excellent except for the following periods: Oct. 20, July 28 to Aug. 8, rated good. Temperature (TOP and BOTTOM) record rated good. Elevation of the top salinity/ temperature sensor located at -3.02 ft NAVD 88. Bottom salinity/temperature sensor located at -4.82 ft NAVD 88. During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 50.5 ppt May 30, 31, 2005; minimum recorded, 0.2 ppt Nov 10-19 (corrected).
SALINITY (BOTTOM): Maximum recorded, 49.8 ppt May 30, 2005; minimum recorded, 0.2 ppt Nov. 10-19 (corrected).
WATER TEMPERATURE (TOP): Maximum recorded, 50.5°C May 30, 31, 2005; minimum recorded, 12.2°C Jan. 20, 1997.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 37.3°C July 28, 1998; minimum recorded, 11.7°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 50.5 ppt May 30, 31; minimum recorded, 1.0 ppt Sept. 29, 30.
SALINITY (BOTTOM): Maximum recorded, 49.8 ppt May 30; minimum recorded, 1.0 ppt Sept. 29, 30.
WATER TEMPERATURE (TOP): Maximum recorded, 35.7°C Aug. 7; minimum recorded, 15.1°C Dec. 16, Jan 18.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.7°C Aug. 7; minimum recorded, 15.0°C Dec. 16.

251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL

LOCATION.--Lat 25°11'05", long 80°23'18", T.60 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, located on the left bank, approximately 0.2 mi north of Jewfish Creek at U.S. 1, near Key Largo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1998 to current year.

GAGE.--Satellite data collection platform with water-stage pressure sensor and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 7010 ft^3/s Nov. 5, 2001; maximum negative, 8200 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 1.39 ft Nov. 5, 2001; minimum, -1.57 ft Feb. 15, 2001 and Feb. 11, 2003.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 6090 ft^3/s Sept. 20; maximum negative, 8200 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.33 ft Sept. 20; minimum, -1.39 ft Feb. 22, Mar. 17.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY(TOP, BOTTOM): February 1998 to current year.
WATER TEMPERATURE (TOP, BOTTOM): February 1998 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Oct. 17-20, Dec. 30 to Jan. 5, Jan. 26 to Feb. 8 and May 21, 25, rated good. Salinity (BOTTOM) record rated excellent except for the following periods: Mar. 9, Aug. 10-29, rated good. Temperature (TOP) record rated excellent except for the following periods: Feb. 8 to Mar. 9 and Apr. 13 to May 25, rated good; Mar. 10 to Apr. 13, rated fair. Temperature (BOTTOM) record is rated excellent except for the following periods: June 22 to Aug. 29, rated good; Mar. 9 to May 25, rated fair. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensor located at -3.64 ft NAVD 88 (TOP) and -8.91 ft NAVD 88 (BOTTOM). Daily values are not published for this site. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 42.6 ppt June 8, 2005; minimum recorded, 8.4 ppt Oct. 21, 1999.
SALINITY (BOTTOM): Maximum recorded, 42.8 ppt June 6-8, 2005; minimum recorded, 9.2 ppt Oct. 21, 1999.
WATER TEMPERATURE (TOP): Maximum recorded, 34.3°C Aug. 14, 1998; minimum recorded, 13.6°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C July 17, 2002; minimum recorded, 13.7°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 42.6 ppt June 8; minimum recorded, 20.7 ppt Sept. 26.
SALINITY (BOTTOM): Maximum recorded, 42.8 ppt June 6-8; minimum recorded, 22.0 ppt Sept. 26.
WATER TEMPERATURE (TOP): Maximum recorded, 34.0°C Aug. 17; minimum recorded, 16.3°C Jan. 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.8°C Aug. 17; minimum recorded, 16.1°C Jan. 25.

251032080432200 SEVEN PALM LAKE NEAR FLAMINGO, FL

LOCATION.--Lat 25°10'32", long 80°43'22", Miami-Dade County, Hydrologic Unit 03090202, southern shore of Seven Palm Lake near connection to Middle Lake, 13 mi east-northeast of Flamingo.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--
SALINITY: October 2003 to current year.
WATER TEMPERATURE: October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following period: Sept. 19-30, rated good. Temperature record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 44.3 ppt May 22, 2005; minimum recorded, 1.0 ppt Nov. 20-23, 25, 27, 28, 2003.
WATER TEMPERATURE: Maximum recorded, 34.8°C July 7, 2004; minimum recorded, 13.3°C Dec. 21, 2004.

EXTREMES FOR FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 44.3 ppt May 22; minimum recorded, 4.0 ppt Sept. 30.
WATER TEMPERATURE: Maximum recorded, 33.8°C Sept. 15; minimum recorded, 14.2°C Jan. 18.

251003080435500 McCORMICK CREEK AT MOUTH, FL

LOCATION.--Lat 25°10'03", long 80°43'55", T.60 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, left bank, approximately 500 ft upstream of the mouth, 17 mi east of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder, acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Record rated good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 481 ft^3/s Aug. 30, 2005; maximum negative, 912 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 3.11 ft Aug. 26, 2005; minimum, -1.50 ft May 1, 2001.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 481 ft^3/s Aug. 30; maximum negative, 912 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 3.11 ft Aug. 26; minimum, -1.43 ft Jan. 19.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): October 1995 to current year.
WATER TEMPERATURE (TOP, BOTTOM): October 1995 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Dec. 20 to Jan. 6, Mar. 14-22, Sept. 14-30, rated good. Salinity (BOTTOM) record rated excellent except for the following periods: Jan. 27 to Feb. 7, June 12-22, Aug 21-30, Sept. 5-18, rated good; Sept. 19-27, rated fair; Sept. 28-30, rated poor. Temperature (TOP) rated excellent except for the following periods: Mar. 31 to Apr. 23, July 21 to Aug. 30, rated good; Apr. 24-26, rated fair. Temperature (BOTTOM) record rated excellent except for the following periods: Mar. 22 to Apr. 26 rated good. Salinity and temperature sensors located at -2.05 ft NAVD 88 (TOP) and -3.45 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 54.2 ppt June 1, 2005; minimum recorded, 1.3 ppt Dec. 1, 2003.
SALINITY (BOTTOM): Maximum recorded, 53.8 ppt June 1, 2005; minimum recorded, 0.95 ppt Nov. 7, 1999.
WATER TEMPERATURE (TOP): Maximum recorded, 36.7°C July 28, 1999; minimum recorded, 11.0°C Jan. 5, 2001.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.6°C July 28, 1999; minimum recorded, 10.8°C Jan. 5, 2001, Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 54.2 ppt June 1; minimum recorded, 6.0 ppt Sept. 29, 30.
SALINITY (BOTTOM): Maximum recorded, 53.8 ppt June 1; minimum recorded, 6.6 ppt Dec. 3.
WATER TEMPERATURE (TOP): Maximum recorded, 35.8°C Aug. 4; minimum recorded, 13.9°C Jan. 20.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.9°C Aug. 4; minimum recorded, 13.7°C Jan. 20.

THIS PAGE IS INTENTIONALLY BLANK

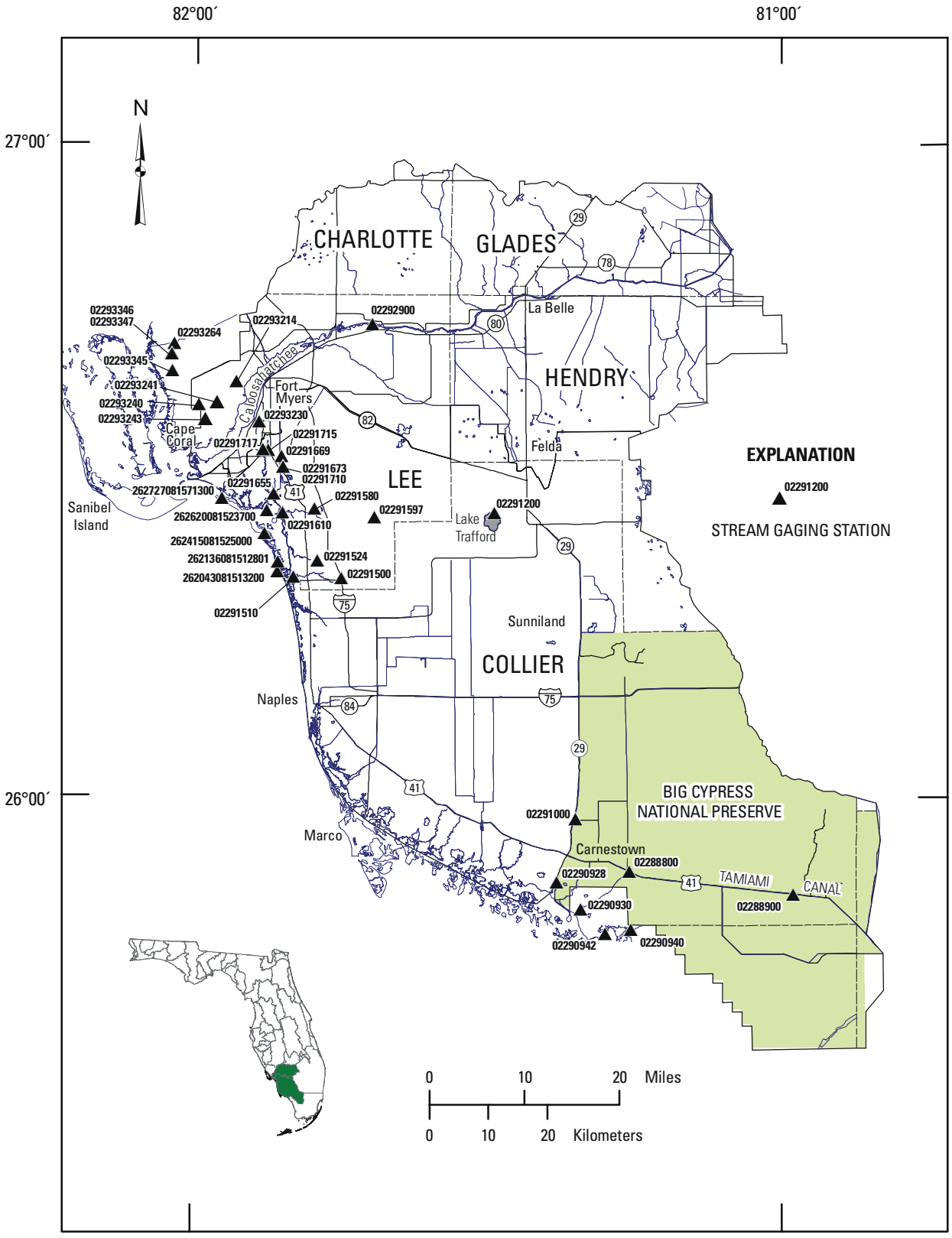


Figure 22. Location of gaging stations in the Big Cypress Swamp and southwestern coastal area, the Caloosahatchee River, Lake Trafford, Charlotte Harbor, and the coastal area.

022908205 NORTH RIVER UPSTREAM OF CUTOFF NEAR FLAMINGO, FL

LOCATION.--Lat 25°20'19", long 80°54'48", T.59 S., R.34 E., Monroe County, Harney River Quadrangle, Hydrologic Unit 03090202, right bank, 0.3 mi northeast of the Cutoff, 13.5 mi northwest of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1999 to current year. January 12, 1999, to March 14, 2001, operated and maintained by the USGS/Tampa Office. March 15, 2001, to current year operated and maintained by the USGS/Ft. Lauderdale Office.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 1,810 ft^3/s Aug. 26,27, 2005; maximum negative, 3,540 ft^3/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 5, 2004; minimum, -2.04 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 1,810 ft^3/s Aug. 26,27; maximum negative, 3,540 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.25 ft Aug. 26; minimum, -1.87 ft July 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): March 15, 2001 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): March 15, 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Feb. 28 to Mar. 31, rated good. Salinity (BOTTOM) record rated excellent except for the following period: Mar. 12-31, rated good. Temperature (TOP AND BOTTOM) records rated good. Salinity and temperature sensors located at -2.0 ft NAVD 88 (TOP) and -3.4 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 33.6 ppt May 23, 24, 2001; minimum recorded, 0.2 ppt Sept. 30, 2001, Oct. 1-3, 2001, Sept. 26, 30, 2003, Oct. 1-8, 2003, Sept. 21-30, 2005.
SALINITY (BOTTOM): Maximum recorded, 34.0 ppt May 23, 2001; minimum recorded, 0.2 ppt Sept. 30, 2001, Oct. 13, 2001, Sept. 30, 2003, Oct. 1-8, 2003, Sept. 21-30, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 34.2°C June 12, 2001; minimum recorded, 11.6°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C June 12, 2001; minimum recorded, 11.6°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 29.4 ppt May 25; minimum recorded, 0.2 ppt Sept. 21-30.
SALINITY (BOTTOM): Maximum recorded, 29.8 ppt June 1; minimum recorded, 0.2 ppt Sept. 21-30.
WATER TEMPERATURE (TOP): Maximum recorded, 33.5°C June 18; minimum recorded, 14.6°C Jan. 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.3°C June 18; minimum recorded, 14.7°C Dec. 16.

022908295 BOTTLE CREEK AT ROOKERY BRANCH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°28'05", long 80°51'16", in NW ¼ sec.6, T.53 S., R.31 E., Miami-Dade County, Hydrologic Unit 03090202, Pa- Hay-Okee Lookout Tower Quadrangle, right bank of Bottle Creek (tributary of Rookery Branch) east of Rookery Mound, 22 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2002 to current year.

GAGE.--Satellite data collection platform with shallow-vented pressure transducer and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records poor. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. During periods of missing record values may be higher or lower than the listed extremes. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 56 ft^3/s Sept. 29, 2005; maximum negative, 11 ft^3/s May 21, 24, 2005.
GAGE HEIGHT: Maximum gage height, 2.04 ft Sept. 22, 2005; minimum, -1.30 ft May 12, 2002.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 56 ft^3/s Sept. 29; maximum negative, 11 ft^3/s May 21, 24.
GAGE HEIGHT: Maximum gage height, 2.04 ft Sept. 22; minimum, -1.23 ft Apr. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: October 2003 to current year.
WATER TEMPERATURE: February 2002 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Specific conductance record rated excellent. Temperature record rated good. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Sensor located at -0.75 ft NAVD 88. Specific conductance and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 14,400 microsiemens May 27, 2005; minimum recorded, 284 microsiemens, July 11, 2004.
WATER TEMPERATURE: Maximum recorded, 36.0°C July 23, 2005; minimum recorded, 10.2°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 14,400 microsiemens, May 27; minimum recorded, 306 microsiemens, Oct. 1.
WATER TEMPERATURE: Maximum recorded, 36.0°C July 23; minimum recorded, 12.7°C Feb. 12.

252019080544800 UPSTREAM NORTH RIVER NEAR FLAMINGO, FL

LOCATION.--Lat 25°20'19", long 80°54'48", T.56 S., R.32 E., Monroe County, Hydrologic Unit 03090202, in Everglades National Park.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter and a YSI 600 XL w/pressure sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 103 ft^3/s Sept. 21, 2005; maximum negative, 94 ft^3/s Sept. 5, 2004.
GAGE HEIGHT: Maximum gage height, 1.01 ft Sept. 6, 2004; minimum, -1.93 ft Mar. 26, 2004.

EXTREMES FOR FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 103 ft^3/s Sept. 21; maximum negative, 70 ft^3/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 0.97 ft Aug. 26; minimum, -1.81 ft Jan. 19.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): October 2003 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP AND BOTTOM) records rated excellent. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -0.75 ft NAVD 88 (TOP) and -3.44 ft NAVD 88 (BOTTOM). Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 28.3 ppt May 26, 27, 2005; minimum recorded, 0.15 ppt Sept. 21, 2005.
SALINITY (BOTTOM): Maximum recorded, 28.8 ppt May 26, 2005; minimum recorded, 0.14 ppt Oct. 1, 2, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 36.9°C June 23, 24, 2004; minimum recorded, 9.40°C Jan. 18, 2005.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 37.0°C June 23, 2004; minimum recorded, 9.43°C Jan. 18, 2005.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 28.3 ppt May 26, 27; minimum recorded, 0.15 ppt Sept. 21.
SALINITY (BOTTOM): Maximum recorded, 28.8 ppt May 26; minimum recorded, 0.15 ppt Sept. 21.
WATER TEMPERATURE (TOP): Maximum recorded, 36.2°C July 5, 6; minimum recorded, 9.40°C Jan. 18.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.3°C July 5, 6; minimum recorded, 9.43°C Jan. 18.

252230081021300 SHARK RIVER NEAR GUNBOAT ISLAND NEAR FLAMINGO, FL

LOCATION.--Lat 25°22'30", long 81°02'12", T.58 S., R.33 E., Monroe County, Harney River Quadrangle, Hydrologic Unit 03090202, left bank, 0.3 mi north of Gunboat Island, 18 mi northwest of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder, acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Record poor. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 9,820 ft^3/s Oct. 16, 2001; maximum negative, 12,600 ft^3/s Sept. 5, 2004.
GAGE HEIGHT: Maximum gage height, 1.82 ft Sept. 5, 2004; minimum, -3.21 ft Feb. 14, 2003, Mar. 4, 2005.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 9,430 ft^3/s Sept. 20; maximum negative, 10,400 ft^3/s Aug. 19.
GAGE HEIGHT: Maximum gage height, 1.18 ft Aug. 26; minimum, -3.21 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: March 2001 to current year.
WATER TEMPERATURE: March 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. Salinity and temperature sensors located at -3.3 ft NAVD 88. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 34.9 ppt June 1, 2005; minimum recorded, 0.3 ppt Sept. 24, 2005.
WATER TEMPERATURE: Maximum recorded, 33.1°C Aug. 4, 2002; minimum recorded, 14.4°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 34.9 ppt June 1; minimum recorded, 0.3 ppt Sept. 24.
WATER TEMPERATURE: Maximum recorded, 32.1°C July 5; minimum recorded, 16.1°C Jan. 25.

252551081050900 HARNEY RIVER NEAR FLAMINGO, FL

LOCATION.--Lat 25°25'51", long 81°05'09", Monroe County, Hydrologic Unit 03090202, in Everglades National Park, approximately 300 ft upstream of the Harney River chickee on the left bank.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: October 2003 to current year.
GAGE HEIGHT: October 2003 to current year.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter and acoustic stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge,10300 ft^3/s Sept. 17, 2005; maximum negative, 10600 ft^3/s Sept. 9, 2004.
GAGE HEIGHT: Maximum gage height, 1.64 ft Sept. 9, 2004; minimum, -3.89 ft Mar. 4, 2005.

EXTREMES FOR FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge,10300 ft^3/s Sept. 17; maximum negative, 9890 ft^3/s Sept. 17.
GAGE HEIGHT: Maximum gage height, 1.11 ft Sept. 17; minimum, -3.89 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): October 2003 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated good except for the following periods: Dec. 18-31, Jan. 1-28, rated fair. Salinity (BOTTOM) record rated good except for the period: Dec. 11-18, rated fair. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 35.9 ppt May 24, 2005; minimum recorded, 0.45 ppt Sept. 24, 2005.
SALINITY (BOTTOM): Maximum recorded, 35.7 ppt May 25, 26, 2005; minimum recorded, 0.46 Sept. 24, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 32.9°C Sept. 13, 2005; minimum recorded, 15.5°C Dec. 23, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.9°C Sept. 13, 2005; minimum recorded, 15.6°C Dec. 23, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 35.9 ppt May 24; minimum recorded, 0.45 ppt Sept. 24.
SALINITY (BOTTOM): Maximum recorded, 35.7 ppt May 25, 26; minimum recorded, 0.46 Sept. 24.
WATER TEMPERATURE (TOP): Maximum recorded, 32.9°C Sept. 13; minimum recorded, 15.6°C Jan. 26.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.9°C Sept. 13; minimum recorded, 15.7°C Jan. 26.

253047080555600 UPSTREAM BROAD RIVER NEAR EVERGLADES CITY, FL

LOCATION.--Lat 25°30'47", long 80°55'56", T.56 S., R.32 E., Monroe County, Hydrologic Unit 03090202, Big Lostman's Bay Quadrangle, right bank of Broad River, upstream of Camp Lonesome, 27 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
GAGE HEIGHT: September 2003 to current year.
DISCHARGE: September 2003 to current year.

GAGE.--Satellite data collection platform with shallow-vented pressure transducer and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge 244 ft^3/s Sept. 22, 2005; maximum negative, 106 ft^3/s June 1, 2005.
GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 22, 2005; minimum, -1.88 ft Mar. 4, 2005.

EXTREMES FOR FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge 244 ft^3/s Sept. 22; maximum negative, 106 ft^3/s June 1.
GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 22; minimum, -1.88 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): October 2003 to current year.
SALINITY (BOTTOM): September 2003 to current year.
WATER TEMPERATURE (TOP): October 2003 to current year.
WATER TEMPERATURE (BOTTOM): September 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP AND BOTTOM) record rated excellent. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensor located at -0.75 ft NAVD 88 (TOP), from water surface in floating mount, and -3.33 ft NAVD 88 (BOTTOM). Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 20.8 ppt June 1, 2005; minimum recorded, 0.1 ppt Sept. 20-22, 2005.
SALINITY (BOTTOM): Maximum recorded, 20.9 ppt June 1, 2005; minimum recorded, 0.1 ppt Sept. 20, 21, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C July 22, 2005; minimum recorded, 11.7°C Dec. 21, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0°C July 22, 23, 2005; minimum recorded, 11.7°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 20.8 ppt June 1; minimum recorded, 0.1 ppt Sept. 20-22.
SALINITY (BOTTOM): Maximum recorded, 20.9 ppt June 1; minimum recorded, 0.1 ppt Sept. 20, 21.
WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C July 22; minimum recorded, 12.2°C Jan. 24.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0°C July 22, 23; minimum recorded, 11.8°C Jan 24.

253357080594100 UPSTREAM LOSTMAN'S RIVER NEAR EVERGLADES RIVER, FL

LOCATION.--Lat 25°33'57", long 80°59'41", T.56 S., R.32 E., Monroe County, Hydrologic Unit 03090202, Big Lostman's Bay Quadrangle, right bank of Lostman's River Creek, 30 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
GAGE HEIGHT: September 2003 to current year.
DISCHARGE: September 2003 to current year.

GAGE.--Satellite data collection platform with shallow-vented pressure transducer and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 156 ft^3/s July 9, 2005; maximum negative, 57 ft^3/s May 25, June 1, 2005.
GAGE HEIGHT: Maximum gage height, 1.89 ft Sept. 6, 2004; minimum, -1.11 ft Mar. 4, 2005.

EXTREMES FOR FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 156 ft^3/s July 9; maximum negative, 57 ft^3/s May 25, June 1.
GAGE HEIGHT: Maximum gage height, 1.76 ft Sept. 22; minimum, -1.11 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): November 2003 to current year.
SALINITY (BOTTOM): September 2003 to current year.
WATER TEMPERATURE (TOP): November 2003 to current year.
WATER TEMPERATURE (BOTTOM): September 2003 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following period: Dec. 1 to Jan. 5, rated good. Salinity (BOTTOM) record rated excellent except for the following period: Mar. 4 to 17, rated good. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -0.75 ft NAVD 88 (TOP),from water surface in floating mount, and -2.08 ft NAVD 88 (BOTTOM). Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 27.2 ppt June 1, 2005; minimum recorded, 0.1 ppt Sept. 8, 2004, Sept. 20-24, 2005.
SALINITY (BOTTOM): Maximum recorded, 27.4 ppt June 1, 2005; minimum recorded, 0.1 ppt Oct. 1-3, 13, 14, 2003, Sept. 21-23, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 32.6°C June 1, 2004; minimum recorded, 11.7°C Dec. 21, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.6°C June 1, 2004; minimum recorded, 11.7°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 27.2 ppt June 1; minimum recorded, 0.1 ppt Sept. 20-24.
SALINITY (BOTTOM): Maximum recorded, 27.4 ppt June 1; minimum recorded, 0.1 ppt Sept. 21-23.
WATER TEMPERATURE (TOP): Maximum recorded, 31.6°C Sept. 12; minimum recorded, 13.2°C Jan 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 31.6°C Sept. 1, 11, 12; minimum recorded, 13.2°C Jan. 25.

02290878 BROAD RIVER NEAR THE CUTOFF, FL

LOCATION.--Lat 25°30'05", long 81°04'37", T.56 S., R.32 E., Monroe County, Big Lostman's Bay Quadrangle, Hydrologic Unit 03090202, located on left bank of Broad River between Broad River Bay and the Cutoff, 27 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 6,190 ft^3/s Sept. 4, 2002; maximum negative, 6,000 ft^3/s Sept. 14, 2001.
GAGE HEIGHT: Maximum gage height, 1.43 ft Sept. 5, 2004; minimum, -2.45 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 5,920 ft^3/s Aug. 26; maximum negative, 5,370 ft^3/s Feb. 8.
GAGE HEIGHT: Maximum gage height, 1.00 ft Sept. 16; minimum, -2.14 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): February 2001 to current year.
WATER TEMPERATURE (TOP, BOTTOM): February 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP and BOTTOM) record rated excellent. Temperature (TOP and BOTTOM) records rated good. Salinity and temperature sensors located at -2.1 ft NAVD 88 (TOP) and -4.6 ft NAVD 88 (BOTTOM). Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes.Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 37.0 ppt May 25, 26, 2005; minimum recorded, 0.2 ppt Oct. 8, 2001; Oct. 1, 13-16, 2003; Sept.29, 2005.
SALINITY (BOTTOM): Maximum recorded, 36.8 ppt May 22, 2001; minimum recorded, 0.2 ppt Oct. 8, 2001, Oct. 13-16, 2003; Sept. 25, 29, 30, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 33.6°C Aug. 3, 2002; minimum recorded, 13.0°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.5°C Aug. 3, 2002; minimum recorded, 13.5°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 37.0 ppt May 25,26; minimum recorded, 0.2 ppt Sept. 29.
SALINITY (BOTTOM): Maximum recorded, 36.7 ppt May 25; minimum recorded, 0.2 ppt Sept. 25, 29, 30.
WATER TEMPERATURE (TOP): Maximum recorded, 33.1°C June 18; minimum recorded, 15.1°C Jan. 15.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0°C June 18; minimum recorded, 15.1°C Jan. 25.

02290888 CHATHAM RIVER NEAR THE WATSON PLACE, FL

LOCATION.--Lat 25°42'33", long 81°14'60", T.55 S., R.31 E., Monroe County, Hydrologic Unit 03090202, right bank, 200 yards southwest of Watson Place, approximately 3 mi from the Gulf of Mexico, 10 mi south of Chokoloskee.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage was changed to North American Vertical Datum of 1988 (NAVD88), and the MP was changed to 5.574 ft during the 2005 water year.

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minutes data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 11,800 ft^3/s Sept. 14, 2001; maximum negative, 18,800 ft^3/s Sept. 14, 2001.
GAGE HEIGHT: Maximum gage height, 2.40 ft Sept. 14, 2001; minimum, -2.44 ft Dec. 16, 2004.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 9,440 ft^3/s Oct. 15; maximum negative, -13,200 ft^3/s Feb. 10.
GAGE HEIGHT: Maximum gage height, 1.43 ft Sept. 16, 17; minimum, -2.44 ft Dec. 16.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): March 2001 to current year.
WATER TEMPERATURE (TOP, BOTTOM): March 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record are rated fair due to fouling data correction of 4.3% on March 16, 2005, and a 10 days of missing data from June 21, 2005 to July 1, 2005 due to probe malfunction. Salinity (BOTTOM) record are rated fair due to fouling data correction of 10.8 % on April 29, 2005, a fouling correction of 12.1% on Sept. 8, 2005 and 10 days of missing data from June 21, 2005 to July 1, 2005 due to probe malfunction. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at 2.306 ft based on NAVD88 (TOP) and -4.406 ft based on NAVD88 (BOTTOM). During times of missing record, values may have been higher or lower than the listed extremes. Salinity and temperature, 15 minutes data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 42.4 ppt Apr.27, 2001, and May 3, 2001. Minimum recorded, 1.3 ppt Aug. 14, 2003.
SALINITY (BOTTOM): Maximum recorded, 42.9 ppt May 1, 2001; minimum recorded, 1.7 ppt Aug. 14, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 33.91°C July 26, 2005. Minimum recorded, 12.1°C Jan.25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.09°C July 26, 2005; minimum recorded, 12.2°C Jan.25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 39.0 ppt May 31; minimum recorded, 2.9 ppt July 17-19.
SALINITY (BOTTOM): Maximum recorded, 39.8 ppt April 29; minimum recorded, 3.0 ppt July 17-19.
WATER TEMPERATURE (TOP): Maximum recorded, 33.91°C July 26; minimum recorded, 14.9°C Jan. 20.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.09°C July 26; minimum recorded, 14.95°C Jan. 20.

02290918 LOSTMAN'S RIVER BELOW SECOND BAY, FL

LOCATION.--Lat 25°33'20", long 81°09'53", T.56 S., R.31 E., Monroe County, Hydrologic Unit 03090202, left bank of Lostman's River between First Bay and Second Bay, 3 mi from the mouth, 22 mi southeast of Chokoloskee Island.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: March 2001 to current year.
GAGE HEIGHT: March 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical datum of 1988 (NAVD 88).

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 23,300 ft^3/s Sept. 18, 2001; maximum negative, 39,000 ft^3/s Sept. 14, 2001.
GAGE HEIGHT: Maximum gage height, 2.36 ft Sept. 14, 2001; minimum, -2.50 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 21,300 ft^3/s Sept. 17; maximum negative, 31,100 ft^3/s June 1.
GAGE HEIGHT: Maximum gage height, 1.55 ft Sept. 17; minimum, -2.25 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): March 2001 to current year.
WATER TEMPERATURE (TOP, BOTTOM): March 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated good except for the following periods: Nov. 22 to Dec. 4, rated fair; Dec. 5 to Jan. 5, rated poor. Salinity (BOTTOM) record rated good except for the following periods: Mar. 27 to Apr. 13, rated fair; Apr. 14-28, rated poor. Temperature (TOP and BOTTOM) record rated good. Data can also be accessed online at http://sofia.usgs.gov/. Daily values are not published for this site. Salinity and temperature sensors located at -2.8 ft NAVD 88 (TOP) and -5.1 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 40.2 ppt Apr. 26, 2001; minimum recorded, 0.4 ppt Oct. 27, 2001, Oct. 5-7, 16-17, 2004.
SALINITY (BOTTOM): Maximum recorded, 40.8 ppt Apr. 26, 2001; minimum recorded, 0.4 ppt Oct. 10, 2001, Oct. 5-7, 17, 2004, Sept. 24-26, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 33.9°C July 25, 2005; minimum recorded, 12.6°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.8°C July 25, 2005; minimum recorded, 12.6°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 37.5 ppt May 25, 26; minimum recorded, 0.4 ppt Sept. 24-27, 29, 30.
SALINITY (BOTTOM): Maximum recorded, 38.2 ppt May 31; minimum recorded, 0.4 ppt Sept. 24-26.
WATER TEMPERATURE (TOP): Maximum recorded, 33.9°C July 25; minimum recorded, 15.1°C Jan. 20.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.8°C July 25; minimum recorded, 15.1°C Jan. 20.

02290928 BARRON RIVER AT EVERGLADES CITY, FL

LOCATION.--Lat 25°52'11", long 81°22'57", NE ¼ sec 12, T.53 S., R.30 E., Collier County, Hydrologic Unit 03090204, left bank, 100 ft east of State Road 29, 1 mi north of Everglades City, 3 mi south of US Highway 41.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Gage height 15 minute data, is available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 2.01 ft Sept. 26, 2004; minimum, -2.44 ft Jan. 24, 2005.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 1.41 ft Sept. 16; minimum, -2.44 ft Jan. 24.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: September 2001 to current year.
WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -2.4 ft NAVD 88. Salinity and temperature 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 39.2 ppt May 30 and June 1, 2002; minimum recorded, 0.2 ppt occurred on many days during multiple years.
WATER TEMPERATURE: Maximum recorded, 33.6°C June 23, 2004 and July 24, 2005; minimum recorded, 12.7°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 37.9 ppt May 31; minimum recorded, 0.2 ppt occurred on multiple days during the months of June, July, Aug. and Sept.
WATER TEMPERATURE: Maximum recorded, 33.6°C July 24; minimum recorded, 15.0°C Dec. 16.

02290930 TURNER RIVER NEAR CHOKOLOSKEE ISLAND, FL

LOCATION.--Lat 25°49'43", long 81°20'30", T.53 S., R.30 E., Collier County, Hydrologic Unit 03090204, on right bank 0.8 mi northeast of river mouth, 1.3 mi northeast of Chokoloskee.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is 10 ft arbitrary.

REMARKS.--Daily values are not published for this site. Gage height 15 minute data is available in files of the U.S. Geological Survey. During periods of missing record, values may have be higher or lower than the listed extremes. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 7.29 ft Sept. 26, 2004; minimum, 1.66 ft Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 6.52 ft Sept. 17; minimum, 1.76 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: September 2001 to current year.
WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity records rated excellent except for the following periods: June 6-25, rated good. Temperature records rated good. Salinity and temperature sensors located at 2.8 ft, relative to arbitrary datum. Daily values are not published for this site. During periods of missing record, values may have be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 39.2 ppt May 30, 31, June 1,2005; minimum recorded, 0.5 ppt Oct. 6, 2003.
WATER TEMPERATURE: Maximum recorded, 34.4 °C July 24, 2005; minimum recorded, 11.4°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 39.2 ppt May 30, 31; June 1; minimum recorded, 0.8 ppt Aug. 15.
WATER TEMPERATURE: Maximum recorded, 34.4 °C July 24; minimum recorded, 13.9°C Dec. 16.

02290940 NEW RIVER AT SUNDAY BAY, FL

LOCATION.--Lat 25°47'51", long 81°15'20", T.53 S., R.31 E., Monroe County, Hydrologic Unit 03090204, located 0.5 mi from the river mouth, 7 mi southeast of Chokoloskee Island.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--May 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is arbitrary.

REMARKS.--Daily values are not published for this site. Gage height 15 minutes data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/. During periods of missing record values my be higher or lower than the listed extremes.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 5.60 ft Sept. 14, 2001; minimum, 1.01 ft Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 4.61 ft Sept. 16,17; minimum, 1.32 ft Jan. 17.

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- SALINITY (TOP, BOTTOM):May 2001 to current year. WATER TEMPERATURE (TOP, BOTTOM):May 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following period: Feb. 26 to Mar. 16, rated good. Salinity (BOTTOM) record rated excellent. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at 2.0 ft (TOP) and -0.5 ft (BOTTOM), relative to arbitrary datum. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minutes data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 43.8 ppt May 20, 2001; minimum recorded, 0.1 ppt Sept. 29, 30, 2001, Mar. 5, 2001, Sept. 30, 2003, and Oct. 1-10, 2003.
SALINITY (BOTTOM): Maximum recorded, 43.7 ppt May 20, 2001; minimum recorded, 0.1 ppt Sept. 30, 2003, Oct. 1-10, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 34.6°C July 16, 2004; minimum recorded, 11.0°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.6°C July 16, 2004; minimum recorded, 11.5°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 39.0 ppt May 31 and June 1; minimum recorded, 0.2 ppt Sept. 23-30.
SALINITY (BOTTOM): Maximum recorded, 38.3 ppt May 31 and June 1; minimum recorded, 0.2 ppt Sept. 23-30.
WATER TEMPERATURE (TOP): Maximum recorded, 32.8°C June 18; minimum recorded, 14.9°C Feb. 13.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.1°C July 6; minimum recorded, 15.0°C Feb. 13.

02290942 LOPEZ RIVER NEAR THE LOPEZ CAMPSITE, FL

LOCATION.--Lat 25°47'29", long 81°17'59", T.54 S., R.30 E., Monroe County, Hydrologic Unit 03090204, 0.5 mi northeast of campsite, 2 mi northeast of the river mouth, 4.8 mi from Chokoloskee Island.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Gage height 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 2.50 ft Sept. 14, 2001; minimum, -2.75 ft Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 1.29 ft Sept. 16; minimum, -2.47 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: September 2001 to current year.
WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity records rated good. Temperature records rated good. Salinity and temperature sensors are located at -2.48 ft NAVD 88. During periods of missing record, values may have be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minutes data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 43.5 ppt Apr. 30, and May 1,2001; minimum recorded, 0.44 ppt Oct. 5, 6, 2003.
WATER TEMPERATURE: Maximum recorded, 33.9 °C June 13, 2001, June 13, 2001,June 26, 2004; minimum recorded, 12.3°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 39.4 ppt May 31; minimum recorded, 0.8 ppt July 4, 5, 9, 16, 17, 18.
WATER TEMPERATURE: Maximum recorded, 33.8 °C July 24; minimum recorded, 15.1°C, Jan. 19.

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL

LOCATION.--Lat 25°57'28", long 81°21'19", in NW ¼ sec.7, T.52 S., R.30 E., Collier County, Hydrologic Unit 03090204, on right bank 40 ft upstream from control structure No. 6, 0.7 mi north of Copeland, 7 mi north of town of Everglades City, and 7.5 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July to December 1951 (discharge measurements only), January 1952 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). Prior to January 24, 1952, non-recording gage.

REMARKS.--Records poor. Zero flow for numerous days, during many water years. Flow regulated by operation of control structure at, above, and below station. Overbank flow not included in discharge figures. Records prior to January 1952 are available in files of the U.S. Geological Survey.

ANNUAL MEAN and ANNUAL SUMMARY STATISTICS.--Figures represent 50 complete years of discharge (1952-87, 1989-94, 1996, 1998-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.07 ft Aug. 26, 1995; minimum, 0.21 ft May 18, 1962 and May 18, 1972.

EXTREME FOR STAGES FOR CURRENT YEAR.--Maximum gage height, 6.05 ft June 28; minimum, 1.39 ft May 31, June 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.30	5.07	4.09	3.16	2.82	2.23	2.29	1.91	1.42	---	---	5.56
2	5.29	5.04	4.05	3.15	2.78	2.14	2.27	1.90	1.48	---	5.60	5.61
3	5.28	5.00	4.01	3.13	2.76	2.12	2.24	1.88	1.61	---	5.58	5.68
4	5.28	4.96	3.97	3.10	2.74	2.21	2.21	1.85	1.87	---	5.55	5.77
5	5.28	4.98	3.92	3.08	2.72	2.23	2.18	1.84	2.00	---	5.53	5.81
6	5.27	4.95	3.88	3.06	2.70	2.21	2.15	1.83	2.03	---	5.54	5.83
7	5.27	4.90	3.85	3.04	2.68	2.19	2.14	1.81	2.09	---	5.55	5.82
8	5.25	4.85	3.83	3.01	2.65	2.21	2.37	1.77	2.44	---	5.68	5.80
9	5.23	4.81	3.79	2.99	2.63	2.31	2.49	1.75	2.73	---	5.74	5.76
10	5.23	4.78	3.78	2.96	2.61	2.58	2.46	1.73	4.08	---	5.76	5.72
11	5.23	4.75	3.87	2.93	2.58	2.57	2.40	1.71	4.88	---	5.81	5.69
12	5.24	4.73	3.77	2.91	2.55	2.52	2.35	1.69	4.99	---	5.84	5.70
13	5.23	4.70	3.71	2.88	2.53	2.48	2.31	1.68	5.13	---	5.85	5.65
14	5.23	4.67	3.68	3.02	2.51	2.43	2.27	1.67	5.18	---	5.85	5.60
15	5.29	4.64	3.62	3.37	2.48	2.40	2.23	1.66	5.22	---	5.85	5.56
16	5.29	4.59	3.57	3.38	2.46	2.36	2.18	1.64	5.28	---	5.84	5.52
17	5.27	4.56	3.54	3.32	2.44	2.41	2.15	1.62	5.34	---	5.82	5.49
18	5.25	4.53	3.51	3.27	2.42	2.81	2.12	1.61	5.37	---	5.79	5.47
19	5.24	4.48	3.47	3.23	2.39	2.78	2.10	1.60	5.42	---	5.77	5.46
20	5.26	4.44	3.43	3.20	2.36	2.70	2.08	1.59	5.54	---	5.77	5.46
21	5.25	4.39	3.40	3.17	2.34	2.64	2.07	1.57	5.72	---	5.73	5.60
22	5.23	4.35	3.37	3.14	2.32	2.58	2.05	1.56	5.77	---	5.68	5.73
23	5.22	4.31	3.34	3.12	2.30	2.55	2.02	1.54	5.85	---	5.64	5.74
24	5.20	4.30	3.32	3.08	2.28	2.58	2.00	1.53	5.89	---	5.60	5.71
25	5.19	4.33	3.31	3.04	2.28	2.55	1.99	1.51	5.88	---	5.58	5.67
26	5.18	4.28	3.30	3.00	2.30	2.51	1.97	1.49	5.88	---	5.59	5.64
27	5.23	4.22	3.26	2.97	2.30	2.47	1.96	1.48	6.01	---	5.63	5.60
28	5.25	4.24	3.22	2.94	2.30	2.44	1.97	1.46	6.03	---	5.63	5.56
29	5.20	4.17	3.20	2.90	---	2.40	1.96	1.45	6.02	---	5.60	5.53
30	5.15	4.13	3.17	2.87	---	2.35	1.93	1.42	5.98	---	5.58	5.52
31	5.10	---	3.17	2.85	---	2.32	---	1.41	---	---	5.55	---
TOTAL	162.41	138.15	111.40	95.27	70.23	75.28	64.91	51.16	133.13	---	---	169.26
MEAN	5.24	4.61	3.59	3.07	2.51	2.43	2.16	1.65	4.44	---	---	5.64
MAX	5.30	5.07	4.09	3.38	2.82	2.81	2.49	1.91	6.03	---	---	5.83
MIN	5.10	4.13	3.17	2.85	2.28	2.12	1.93	1.41	1.42	---	---	5.46

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	72	53	38	33	18	18	10	3.7	e139	e95	85
2	94	72	52	38	32	15	17	10	4.4	e134	94	86
3	93	71	52	37	32	15	16	9.7	5.8	e129	93	89
4	93	70	51	37	32	17	16	9.2	9.5	e124	92	94
5	92	70	50	37	31	17	15	8.9	12	e118	91	98
6	92	70	50	36	30	17	14	8.8	12	e113	92	99
7	92	69	49	36	30	16	14	8.5	13	e108	92	98
8	90	68	48	35	29	17	19	7.9	20	e106	98	95
9	89	67	48	35	28	19	21	7.6	25	e119	102	91
10	89	66	48	35	28	25	21	7.5	50	e118	104	88
11	89	66	49	34	27	24	20	7.2	67	e115	109	86
12	89	65	48	34	26	23	18	6.9	71	e115	111	86
13	89	65	47	34	25	22	18	6.8	77	e112	111	84
14	88	64	46	36	25	22	17	6.5	80	e110	111	83
15	94	63	45	41	24	21	16	6.5	83	e114	111	82
16	94	63	44	41	24	20	15	6.2	87	e116	109	81
17	92	62	44	40	23	21	14	6.0	92	e115	107	80
18	90	61	43	39	23	28	14	5.8	94	e111	104	79
19	90	61	43	39	22	28	13	5.7	98	e108	101	79
20	91	60	42	38	21	26	13	5.6	107	e106	101	78
21	90	59	41	38	20	25	13	5.3	121	e103	97	81
22	89	58	41	38	20	24	12	5.2	126	e101	93	84
23	88	57	41	37	19	23	12	5.0	134	e99	90	84
24	87	57	40	37	19	24	11	4.8	137	e98	88	83
25	86	58	40	36	19	23	11	4.6	135	e101	87	82
26	85	57	40	35	19	22	11	4.5	135	e98	87	82
27	87	55	39	35	19	22	11	4.3	148	e98	88	81
28	85	56	39	35	19	21	11	4.2	150	e104	88	80
29	82	55	38	34	---	20	11	4.0	148	e101	87	79
30	78	54	38	34	---	19	10	3.7	144	e96	86	79
31	75	---	38	33	---	18	---	3.6	---	e95	85	---
TOTAL	2,756	1,891	1,387	1,132	699	652	442	200.5	2,389.4	3,424	3,004	2,556
MEAN	88.9	63.0	44.7	36.5	25.0	21.0	14.7	6.47	79.6	110	96.9	85.2
MAX	94	72	53	41	33	28	21	10	150	139	111	99
MIN	75	54	38	33	19	15	10	3.6	3.7	95	85	78
AC-FT	5,470	3,750	2,750	2,250	1,390	1,290	877	398	4,740	6,790	5,960	5,070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2005, BY WATER YEAR (WY)

MEAN	140	108	83.6	71.6	62.2	52.9	36.0	28.1	69.9	109	135	153
MAX	231	248	220	218	200	225	192	173	196	239	230	233
(WY)	(1960)	(1960)	(1960)	(1958)	(1958)	(1970)	(1958)	(1958)	(1969)	(1970)	(1982)	(1973)
MIN	13.4	5.09	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.21	5.25
(WY)	(1990)	(1991)	(1989)	(1989)	(1989)	(1989)	(1989)	(1989)	(1985)	(1989)	(1989)	(1989)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1952 - 2005	
ANNUAL TOTAL	22,071.8		20,532.9			
ANNUAL MEAN	60.3		56.3		88.2	
HIGHEST ANNUAL MEAN					189	1958
LOWEST ANNUAL MEAN					3.52	1989
HIGHEST DAILY MEAN	132	Sep 7	150	Jun 28	292	Sep 25, 1962
LOWEST DAILY MEAN	5.4	Jun 3	3.6	May 31	0.00**	
ANNUAL SEVEN-DAY MINIMUM	5.8	Jun 2	4.0	May 27	0.00**	
MAXIMUM PEAK FLOW					292	Sep 25, 1962
MAXIMUM PEAK STAGE					6.57	Sep 4, 1983
ANNUAL RUNOFF (AC-FT)	43,780		40,730		63,890	
10 PERCENT EXCEEDS	100		106		194	
50 PERCENT EXCEEDS	56		48		75	
90 PERCENT EXCEEDS	17		11		6.6	

e Estimated

** Many days during water years 1952, 1953, 1975, 1982, 1989, 1990, 1996.

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.

02291200 LAKE TRAFFORD NEAR IMMOKALEE, FL

LOCATION.--Lat 26°26'08", long 81°29'25", in NW $\frac{1}{4}$ sec.35, T.46 S., R.28 E., Collier County, Hydrologic Unit 03090204, at county boat ramp dock, on north side of lake and 4.2 mi west of Immokalee.

SURFACE AREA.--1,485 acres.

DRAINAGE AREA.--27 mi^2, approximately.

PERIOD OF RECORD.--March 1941 to current year. Records of elevations prior to October 1960 are available in files of the U.S. Geological Survey.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 6, 1960, gage was located at sites in the immediate vicinity at same datum. May 15, 1962, to September 30, 1962, auxiliary nonrecording gage in canal at county boat landing, 0.3 mi southeast. October 1, 1962, to November 25, 1968, nonrecording gage at same site and datum. Gage relocated March 30, 1988, because of excessive aquatic growth in ditch causing erroneous record at low stage.

REMARKS.--Lake is landlocked except above an elevation of about 21 ft, when there is overflow to the south into Corkscrew Swamp.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum elevation, 22.79 ft Sept. 23, 1947; minimum, 15.90 ft estimated, June 6-10, 1962.

EXTREME STAGES FOR CURRENT YEAR.--Maximum elevation, 21.46 ft July 13; minimum, 18.84 ft May 30.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.80	20.23	19.84	19.61	19.35	19.21	19.67	19.30	18.99	21.10	20.99	20.73
2	20.77	20.22	19.83	19.60	19.35	19.19	19.69	19.29	19.18	21.08	21.04	20.72
3	20.75	20.20	19.81	19.59	19.34	19.16	19.68	19.26	19.41	21.05	21.06	20.74
4	20.73	20.19	19.80	19.59	19.32	19.21	19.66	19.25	19.65	21.02	21.04	20.75
5	20.70	20.17	19.78	19.58	19.30	19.21	19.64	19.29	19.74	20.98	21.05	20.73
6	20.68	20.14	19.78	19.58	19.29	19.19	19.63	19.32	19.81	20.95	21.03	20.72
7	20.65	20.12	19.77	19.58	19.28	19.19	19.63	19.30	19.88	20.91	21.06	20.71
8	20.63	20.10	19.77	19.57	19.27	19.20	19.69	19.28	20.08	20.94	21.10	20.69
9	20.60	20.08	19.77	19.55	19.27	19.26	19.67	19.27	20.15	21.31	21.10	20.68
10	20.59	20.06	19.77	19.54	19.26	19.36	19.64	19.25	20.32	21.41	21.11	20.70
11	20.57	20.05	19.75	19.53	19.23	19.37	19.62	19.22	20.55	21.41	21.15	20.67
12	20.57	20.04	19.73	19.52	19.21	19.36	19.61	19.20	20.61	21.41	21.13	20.65
13	20.55	20.03	19.72	19.51	19.20	19.36	19.61	19.17	20.65	21.46	21.10	20.62
14	20.53	20.01	19.70	19.52	19.20	19.35	19.59	19.15	20.68	21.44	21.07	20.59
15	20.51	19.99	19.66	19.52	19.19	19.35	19.55	19.14	20.70	21.43	21.04	20.56
16	20.48	19.98	19.65	19.51	19.18	19.36	19.52	19.13	20.70	21.39	21.02	20.54
17	20.44	19.96	19.64	19.49	19.18	19.46	19.49	19.10	20.69	21.37	20.99	20.51
18	20.42	19.96	19.64	19.47	19.15	19.66	19.48	19.07	20.67	21.33	20.96	20.48
19	20.42	19.95	19.63	19.46	19.12	19.66	19.46	19.05	20.64	21.29	20.93	20.43
20	20.46	19.93	19.61	19.46	19.11	19.67	19.45	19.03	20.64	21.30	20.90	20.41
21	20.44	19.92	19.60	19.45	19.10	19.69	19.43	19.02	20.66	21.29	20.87	20.46
22	20.42	19.91	19.59	19.45	19.09	19.70	19.42	19.00	20.75	21.25	20.85	20.48
23	20.39	19.90	19.59	19.45	19.09	19.71	19.41	19.00	20.98	21.22	20.84	20.48
24	20.38	19.90	19.60	19.43	19.09	19.71	19.37	18.98	21.03	21.19	20.82	20.45
25	20.36	19.90	19.60	19.42	19.14	19.72	19.34	18.96	21.08	21.19	20.78	20.42
26	20.34	19.87	19.66	19.41	19.16	19.72	19.34	18.93	21.09	21.15	20.75	20.40
27	20.32	19.87	19.62	19.41	19.24	19.73	19.36	18.91	21.09	21.11	20.80	20.39
28	20.29	19.87	19.61	19.39	19.23	19.72	19.35	18.88	21.09	21.06	20.84	20.37
29	20.28	19.85	19.61	19.39	---	19.70	19.33	18.85	21.11	21.02	20.82	20.36
30	20.27	19.84	19.60	19.39	---	19.69	19.32	18.84	21.11	21.00	20.79	20.46
31	20.24	---	19.61	19.37	---	19.68	---	18.88	---	20.99	20.76	---
TOTAL	635.58	600.24	610.34	604.34	537.94	603.55	585.65	592.32	613.73	657.05	649.79	616.90
MEAN	20.50	20.01	19.69	19.49	19.21	19.47	19.52	19.11	20.46	21.20	20.96	20.56
MAX	20.80	20.23	19.84	19.61	19.35	19.73	19.69	19.32	21.11	21.46	21.15	20.75
MIN	20.24	19.84	19.59	19.37	19.09	19.16	19.32	18.84	18.99	20.91	20.75	20.36

02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°20'07", long 81°44'59", in SW $^1/_4$ sec.31, T.47 S., R.26 E., Lee County, Hydrologic Unit 03090204, on left bank, 4 ft downstream of bridge on Orr Road, 0.3 mi north of Bonita Beach Road, 2.0 mi east of U.S. Highway 41 at Bonita Springs, and 7.4 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1940 to November 1954, February 1987 to current year.

GAGE.--Satellite data collection platform with a water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929. May 1940 to November 1954, water-stage recorder at wooden control on right bank, 1.5 mi east of Bonita Springs (lat 26°20'05", long 81°45'20"). Prior to September 10, 1941, staff gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Days of no flows for the period of record only occurred during the period of May 27 to June 3, 1940.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete water years of discharge (1941-54, 1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.84	4.59	3.26	3.09	2.99	2.93	3.59	2.96	2.86	9.59	9.29	6.72
2	7.79	4.51	3.25	3.09	2.99	2.92	3.50	2.95	3.01	9.50	9.31	6.54
3	7.76	4.43	3.24	3.09	2.99	2.92	3.40	2.94	3.63	9.32	9.21	6.51
4	7.74	4.38	3.22	3.08	3.01	2.94	3.30	2.93	5.25	9.09	9.15	7.06
5	7.73	4.32	3.22	3.07	2.99	2.94	3.22	2.93	5.90	8.88	9.20	6.81
6	7.69	4.20	3.21	3.06	2.99	2.93	3.15	2.92	6.67	8.72	9.26	6.63
7	7.64	4.13	3.20	3.05	2.99	2.93	3.12	2.91	6.71	8.54	9.26	6.45
8	7.57	4.07	3.20	3.05	2.99	2.93	3.22	2.90	6.66	8.45	9.39	6.24
9	7.46	4.00	3.20	3.04	3.01	2.97	3.23	2.89	6.65	9.63	9.33	6.09
10	7.31	3.94	3.20	3.03	2.97	3.01	3.17	2.89	7.28	10.29	9.21	5.92
11	7.17	3.87	3.20	3.03	2.94	3.03	3.11	2.88	8.73	10.48	9.04	5.76
12	7.10	3.80	3.19	3.03	2.94	3.06	3.09	2.87	9.22	10.54	8.84	5.61
13	6.96	3.76	3.18	3.03	2.94	3.07	3.07	2.85	9.39	10.50	8.68	5.47
14	6.80	3.69	3.18	3.03	2.92	3.06	3.06	2.84	9.22	10.45	8.47	5.32
15	6.63	3.65	3.17	3.03	2.91	3.05	3.04	2.84	9.06	10.43	8.27	5.16
16	6.38	3.60	3.15	3.03	2.91	3.04	3.03	2.83	8.86	10.55	8.07	5.00
17	6.15	3.55	3.13	3.03	2.91	3.11	3.03	2.82	8.60	10.82	7.92	4.85
18	5.98	3.51	3.13	3.02	2.91	3.94	3.12	2.82	8.27	10.66	7.68	4.70
19	5.84	3.47	3.12	3.02	2.90	4.13	3.05	2.82	7.92	10.41	7.47	4.55
20	5.70	3.42	3.11	3.01	2.89	4.11	3.02	2.81	7.66	10.14	7.20	4.48
21	5.55	3.39	3.10	3.01	2.89	4.13	3.01	2.79	7.71	9.82	6.96	4.74
22	5.46	3.35	3.09	3.01	2.89	4.13	3.01	2.79	7.84	9.59	6.76	4.85
23	5.36	3.33	3.10	3.02	2.89	4.11	3.02	2.78	8.45	9.36	6.70	4.90
24	5.25	3.32	3.10	3.01	2.88	4.26	3.01	2.79	8.59	9.02	6.70	5.57
25	5.18	3.33	3.11	3.01	2.89	4.27	3.00	2.80	8.70	8.85	6.65	5.48
26	5.10	3.31	3.16	3.00	2.90	4.19	2.99	2.78	8.82	8.72	6.52	5.48
27	5.00	3.30	3.11	3.00	2.92	4.08	2.99	2.78	9.29	8.68	6.65	5.62
28	4.89	3.31	3.10	3.00	2.94	4.00	2.99	2.75	9.49	8.82	7.14	5.45
29	4.81	3.29	3.10	3.00	---	3.87	2.98	2.72	9.73	9.10	7.21	5.46
30	4.73	3.28	3.10	3.00	---	3.77	2.97	2.71	9.65	8.96	7.12	5.43
31	4.66	---	3.10	2.99	---	3.68	---	2.75	---	9.15	6.94	---
TOTAL	197.23	112.10	97.93	93.96	82.29	107.51	93.49	88.04	229.82	297.06	249.60	168.85
MEAN	6.36	3.74	3.16	3.03	2.94	3.47	3.12	2.84	7.66	9.58	8.05	5.63
MAX	7.84	4.59	3.26	3.09	3.01	4.27	3.59	2.96	9.73	10.82	9.39	7.06
MIN	4.66	3.28	3.09	2.99	2.88	2.92	2.97	2.71	2.86	8.45	6.52	4.48

02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	68	21	17	14	13	30	14	12	476	441	197
2	287	64	20	16	14	13	27	13	15	465	444	184
3	284	60	20	16	14	13	24	13	33	445	432	182
4	283	58	20	16	15	13	21	13	101	419	426	224
5	282	56	19	16	14	13	19	13	140	396	431	204
6	279	51	19	16	14	13	18	13	194	380	438	190
7	274	48	19	16	14	13	17	13	197	360	438	177
8	268	46	19	16	14	13	20	12	193	351	454	162
9	258	43	19	15	15	14	20	12	192	481	446	152
10	245	41	19	15	14	15	18	12	244	563	433	141
11	233	39	19	15	13	15	17	12	381	587	414	131
12	227	36	19	15	13	16	16	12	434	595	392	121
13	216	35	19	15	13	16	16	12	453	590	375	113
14	203	33	19	15	13	16	16	11	434	583	354	105
15	190	31	18	15	13	15	15	11	416	581	334	96
16	172	30	18	15	13	15	15	11	394	597	314	88
17	156	29	17	15	13	17	15	11	366	632	299	80
18	145	27	17	15	13	42	17	11	333	610	277	72
19	136	26	17	15	12	48	15	11	299	578	259	66
20	127	25	17	15	12	48	15	11	276	543	236	63
21	118	24	17	15	12	48	15	10	281	503	216	75
22	112	23	17	15	12	48	15	10	293	477	200	80
23	107	22	17	15	12	48	15	10	351	449	196	83
24	101	22	17	15	12	53	15	10	365	412	196	119
25	97	22	17	15	12	54	15	10	377	393	192	113
26	93	22	18	15	12	50	14	10	390	379	183	114
27	87	22	17	14	13	46	14	10	442	375	192	122
28	82	22	17	14	13	43	14	9.7	465	390	231	112
29	78	21	17	14	---	39	14	9.1	493	420	236	113
30	74	21	17	14	---	35	14	8.9	484	405	229	111
31	71	---	17	14	---	32	---	9.6	---	425	215	---
TOTAL	5,577	1,067	563	469	368	877	516	348.3	9,048	14,860	9,923	3,790
MEAN	180	35.6	18.2	15.1	13.1	28.3	17.2	11.2	302	479	320	126
MAX	292	68	21	17	15	54	30	14	493	632	454	224
MIN	71	21	17	14	12	13	14	8.9	12	351	183	63
AC-FT	11,060	2,120	1,120	930	730	1,740	1,020	691	17,950	29,470	19,680	7,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	254	86.7	38.3	32.3	26.4	24.0	16.6	9.05	54.1	161	225	319
MAX	1,097	387	219	185	184	226	207	55.4	331	569	709	1,178
(WY)	(1996)	(1996)	(1988)	(1995)	(1998)	(1998)	(1941)	(1941)	(1947)	(1992)	(1995)	(1995)
MIN	7.01	1.73	1.51	1.25	0.82	0.86	0.74	0.72	0.61	1.84	20.8	61.5
(WY)	(1951)	(1943)	(1943)	(1951)	(1949)	(1949)	(1949)	(1950)	(1951)	(1944)	(1942)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	39,265.5		47,406.3			
ANNUAL MEAN	107		130		104	
HIGHEST ANNUAL MEAN					273	1995
LOWEST ANNUAL MEAN					24.1	1990
HIGHEST DAILY MEAN	782	Aug 31	632	Jul 17	2,890	Sep 12, 1940
LOWEST DAILY MEAN	8.1	Jun 22	8.9	May 30	0.00**	
ANNUAL SEVEN-DAY MINIMUM	8.2	Jun 18	9.6	May 25	0.07	Jun 27, 1940
MAXIMUM PEAK FLOW			636	Jul 17	2,890	Sep 12, 1940
MAXIMUM PEAK STAGE			10.85	Jul 17	13.68	Oct 15, 1995
INSTANTANEOUS LOW FLOW			8.8	May 30	0.00**	
ANNUAL RUNOFF (AC-FT)	77,880		94,030		75,680	
10 PERCENT EXCEEDS	440		422		310	
50 PERCENT EXCEEDS	21		29		21	
90 PERCENT EXCEEDS	8.4		13		1.3	

** Many days during wate year 1940.

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.

02291510 IMPERIAL RIVER NEAR THE MOUTH AT BONITA SHORES, FL

LOCATION.--Lat 26°20'12", long 81°49'53", T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, right bank, 0.5 mi from mouth of river, 2 mi north of Bonita Beach.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: January 2002 to September 2005. Discontinued.
GAGE HEIGHT: January 2002 to September 2005. Discontinued.

GAGE.--Acoustic Doppler velocity meter with acoustic stage sensor. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 951 ft^3/s Sept. 20, 2002; maximum negative, 1,090 ft^3/s Sept. 26, 2004.
GAGE HEIGHT: Maximum gage height, 3.07 ft Sept. 26, 2004; minimum, -1.35 ft Dec. 28, 2004 and Jan. 20, 2005.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 884 ft^3/s Dec. 26; maximum negative, 807 ft^3/s Dec. 25.
GAGE HEIGHT: Maximum gage height, 2.10 ft July 10; minimum, -1.35 ft Dec. 28 and Jan 20.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: January 2002 to September 2005. Discontinued.
WATER TEMPERATURE: January 2002 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: Oct. 4-21, Oct. 28-31, Nov. 1-11, Nov. 30, Dec. 1-10, Dec. 21-31, Jan. 1-14, Mar. 6-16, Apr. 3-21, Apr. 24-30, May 1-5, May 22-31, June 1-12, June 21-27, rated good; Nov.12-18, Jan. 15-27, May 6-14, June 13-17, June 28-30, July 1, 2, rated fair; May 15-18, July 3-18, rated poor. Temperature record rated good. Salinity and temperature sensor located 2 ft below NGVD. Daily values are not published for this site. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 34.0 ppt June 12, 2002; minimum recorded, 0.0 ppt occurred on several days during the months of June and July 2005.
WATER TEMPERATURE: Maximum recorded, 34.3°C July 16, 2002; minimum recorded, 12.0°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 32.4 ppt Jan. 12; minimum recorded, 0.0 ppt occurred on several days during the months of June and July.
WATER TEMPERATURE: Maximum recorded, 33.8°C Aug. 21; minimum recorded, 14.6°C Jan. 25.

02291524 SPRING CREEK HEADWATER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°21'42", long 81°47'27", in SE $\frac{1}{4}$ sec.22, T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, at culvert on State Road 887 (old U.S. Highway 41), 1.8 mi north of Bonita Springs, 4.7 mi upstream from mouth and 5.6 mi south of Estero.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1987 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida State Road Department Bench Mark).

REMARKS.--Records are fair, except for estimated daily values, which are poor. Days of no flow occurred during water years 1989, 1990, 1997.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 17 complete water years of discharge (1989-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.86	6.66	6.59	6.61	6.54	6.66	6.85	6.67	6.77	7.17	7.33	6.93
2	6.85	6.67	6.58	6.60	6.54	6.65	6.86	6.66	7.05	7.09	7.25	6.92
3	6.84	6.65	6.58	6.63	6.53	6.65	6.85	6.65	7.74	7.02	7.36	6.93
4	6.81	6.65	6.58	6.61	6.53	6.67	6.84	6.65	8.27	7.00	7.22	7.11
5	6.79	6.65	6.57	6.61	6.53	6.66	6.82	6.68	7.61	7.02	7.63	7.05
6	6.78	6.65	6.57	6.59	6.52	6.65	6.81	6.68	7.37	6.98	7.38	7.03
7	6.77	6.64	6.57	6.59	6.52	6.65	6.80	6.63	7.32	6.93	7.29	6.99
8	6.76	6.63	6.57	6.59	6.52	6.65	6.86	6.61	7.75	6.96	7.64	6.97
9	6.76	6.63	6.57	6.58	6.52	6.79	6.83	6.60	7.42	8.16	7.37	6.95
10	6.76	6.63	6.57	6.58	6.52	6.97	6.79	6.59	7.96	7.85	7.24	6.93
11	6.76	6.63	6.57	6.58	6.52	6.92	6.75	6.58	9.60	7.44	7.17	6.90
12	6.76	6.64	6.57	6.57	6.52	6.86	6.75	6.57	9.30	7.28	7.16	6.88
13	6.76	6.63	6.57	6.57	6.51	6.82	6.76	6.57	8.90	7.28	7.44	6.88
14	6.75	6.63	6.55	6.58	6.51	6.80	6.74	6.56	8.00	8.35	7.26	6.87
15	6.74	6.63	6.54	6.59	6.51	6.79	6.71	6.56	7.79	7.74	7.18	6.85
16	6.74	6.62	6.54	6.59	6.51	6.77	6.70	6.56	7.50	7.53	7.12	6.84
17	6.73	6.62	6.54	6.58	6.51	7.11	6.69	6.55	7.35	7.57	7.10	6.84
18	6.73	6.64	6.53	6.58	6.50	7.44	6.69	6.55	7.27	7.37	7.04	6.82
19	6.73	6.63	6.53	6.57	6.50	7.19	6.73	6.54	7.18	7.28	7.01	6.81
20	6.71	6.62	6.53	6.57	6.50	7.08	6.75	6.54	7.15	7.36	6.99	6.82
21	6.71	6.61	6.52	6.57	6.50	7.03	6.73	6.53	7.22	7.27	6.95	6.86
22	6.71	6.61	6.52	6.56	6.50	6.97	6.68	6.54	7.26	7.20	6.94	6.86
23	6.70	6.61	6.56	6.57	6.49	6.93	6.69	6.54	7.35	7.20	6.93	6.85
24	6.69	6.60	6.57	6.57	6.50	7.00	6.69	6.54	7.26	7.22	6.91	6.91
25	6.69	6.60	6.60	6.59	6.59	6.95	6.68	6.53	7.17	7.33	6.90	6.88
26	6.69	6.60	6.64	6.59	6.61	6.91	6.68	6.52	7.09	7.17	6.91	6.86
27	6.68	6.60	6.68	6.58	6.65	---	6.74	6.52	7.07	7.10	6.94	6.87
28	6.66	6.60	6.71	6.59	6.67	---	6.74	6.51	7.14	7.15	7.05	6.87
29	6.66	6.60	6.65	6.56	---	6.87	6.70	6.50	7.26	7.32	7.01	6.89
30	6.65	6.60	6.62	6.55	---	6.86	6.67	6.50	7.21	7.24	6.97	6.89
31	6.65	---	6.61	6.55	---	6.86	---	6.55	---	7.35	6.95	---
TOTAL	208.88	198.78	203.90	204.05	182.87	---	202.58	203.78	227.33	226.93	221.64	207.06
MEAN	6.74	6.63	6.58	6.58	6.53	---	6.75	6.57	7.58	7.32	7.15	6.90
MAX	6.86	6.67	6.71	6.63	6.67	---	6.86	6.68	9.60	8.35	7.64	7.11
MIN	6.65	6.60	6.52	6.55	6.49	---	6.67	6.50	6.77	6.93	6.90	6.81

02291524 SPRING CREEK HEADWATER NEAR BONITA SPRINGS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	3.0	1.7	1.8	1.1	2.8	6.5	2.9	5.9	18	20	9.6
2	7.3	3.2	1.6	1.8	1.0	2.6	6.7	2.7	14	15	19	9.3
3	7.1	2.9	1.6	2.2	1.00	2.6	6.5	2.5	42	13	21	9.6
4	6.4	2.9	1.6	1.9	1.0	3.0	6.3	2.6	63	12	18	16
5	5.7	2.9	1.4	1.8	0.94	2.7	6.1	3.1	36	13	30	14
6	5.5	2.8	1.4	1.6	0.90	2.6	5.8	3.1	27	11	22	13
7	5.3	2.6	1.4	1.6	0.92	2.5	5.6	2.3	24	9.5	20	12
8	5.0	2.5	1.4	1.5	0.91	2.6	6.7	1.9	40	10	30	11
9	4.9	2.5	1.4	1.5	0.87	5.5	6.1	1.8	29	53	21	10
10	4.8	2.4	1.4	1.4	0.88	9.3	5.3	1.7	50	39	19	9.5
11	4.8	2.5	1.4	1.4	0.88	8.0	4.6	1.6	170	23	17	8.7
12	4.9	2.5	1.4	1.4	0.85	6.8	4.7	1.6	131	19	17	8.1
13	4.9	2.4	1.3	1.3	0.81	6.0	4.8	1.6	99	20	23	8.1
14	4.6	2.4	1.2	1.5	0.81	5.6	4.3	1.5	49	63	19	7.7
15	4.5	2.4	0.97	1.6	0.80	5.3	3.8	1.5	41	34	17	7.2
16	4.4	2.3	0.97	1.6	0.78	4.9	3.6	1.4	30	26	16	6.9
17	4.3	2.3	0.94	1.5	0.77	15	3.3	1.5	25	28	15	6.9
18	4.2	2.5	0.87	1.4	0.72	23	3.3	1.5	21	21	13	6.4
19	4.2	2.5	0.88	1.4	0.71	15	4.0	1.4	18	19	12	6.1
20	4.0	2.2	0.87	1.4	0.68	12	4.6	1.3	17	21	11	6.4
21	3.9	2.1	0.80	1.3	0.68	11	4.1	1.3	19	19	10	7.3
22	3.9	2.1	0.80	1.3	0.68	9.1	3.1	1.4	20	18	9.9	7.4
23	3.8	2.1	1.2	1.4	0.65	8.4	3.3	1.5	23	18	9.5	7.3
24	3.7	2.0	1.4	1.4	0.71	9.9	3.3	1.4	20	18	9.0	8.8
25	3.5	2.0	1.7	1.6	1.7	8.7	3.1	1.4	18	20	8.7	8.0
26	3.4	1.9	2.4	1.5	1.8	7.8	3.1	1.3	15	17	9.0	7.3
27	3.3	1.9	3.3	1.5	2.5	e7.0	4.4	1.2	14	15	9.8	7.7
28	3.1	1.9	3.9	1.6	3.0	e7.2	4.3	1.1	17	16	14	7.9
29	3.0	1.9	2.6	1.2	---	7.1	3.6	1.1	20	20	12	8.3
30	2.9	1.9	2.1	1.1	---	6.8	2.8	1.1	18	18	11	8.2
31	2.9	---	1.9	1.1	---	6.7	---	1.7	---	21	10	---
TOTAL	141.5	71.5	47.80	46.6	29.05	227.5	137.7	54.0	1,115.9	667.5	492.9	264.7
MEAN	4.56	2.38	1.54	1.50	1.04	7.34	4.59	1.74	37.2	21.5	15.9	8.82
MAX	7.3	3.2	3.9	2.2	3.0	23	6.7	3.1	170	63	30	16
MIN	2.9	1.9	0.80	1.1	0.65	2.5	2.8	1.1	5.9	9.5	8.7	6.1
AC-FT	281	142	95	92	58	451	273	107	2,210	1,320	978	525

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	15.9	6.79	4.28	3.64	3.49	3.20	2.16	1.41	8.36	14.7	19.3	21.4
MAX	95.9	26.5	14.1	9.45	15.3	11.8	5.56	6.41	37.2	42.0	46.1	52.6
(WY)	(1996)	(1999)	(1998)	(1995)	(1998)	(1998)	(1993)	(1991)	(2005)	(1999)	(1995)	(1995)
MIN	4.05	1.63	1.02	0.71	0.28	0.11	0.11	0.18	0.43	0.90	5.16	8.82
(WY)	(1990)	(1990)	(1993)	(1997)	(1997)	(1997)	(1990)	(1989)	(1988)	(1988)	(1989)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	2,109.06		3,296.65			
ANNUAL MEAN	5.76		9.03		8.89	
HIGHEST ANNUAL MEAN					17.2	1995
LOWEST ANNUAL MEAN					3.18	1989
HIGHEST DAILY MEAN	92	Aug 14	170	Jun 11	465	Sep 21, 1999
LOWEST DAILY MEAN	0.72	Jun 2	0.65	Feb 23	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.83	May 28	0.69	Feb 18	0.00**	
MAXIMUM PEAK FLOW			220	Jun 11	557	Sep 21, 1999
MAXIMUM PEAK STAGE			10.01	Jun 11	11.09	Jun 28, 1992
INSTANTANEOUS LOW FLOW			0.63	Feb 19	0.00**	
ANNUAL RUNOFF (AC-FT)	4,180		6,540		6,440	
10 PERCENT EXCEEDS	13		20		19	
50 PERCENT EXCEEDS	3.0		4.0		3.8	
90 PERCENT EXCEEDS	1.3		1.1		0.75	

e Estimated

** Many days during water years 1989, 1990, 1997.

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.

02291580 NORTH BRANCH ESTERO RIVER AT ESTERO, FL

LOCATION.--Lat 26°26'30", long 81°47'45", in SW ¼ SW ¼ NE ¼ sec.27, T.46 S., R.25 E., Lee County, Hydrologic Unit 03090204, on right bank behind house at east end of Broadway Road, 0.95 mi east of U.S. Highway 41, 0.9 mi upstream from confluence with South Branch Estero River and 5.6 mi upstream from mouth of Estero River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1987 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. No flow many days during the water year.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.05	7.40	7.00	7.08	6.84	6.91	7.84	7.37	8.03	10.58	9.07	8.07
2	9.24	7.38	6.99	7.07	6.84	6.90	7.85	7.35	8.97	10.01	8.89	8.04
3	9.33	7.36	6.97	7.05	6.83	6.93	7.86	7.29	9.97	9.67	8.79	8.04
4	9.19	7.34	6.96	7.02	6.84	7.17	7.80	7.28	11.02	9.49	8.70	8.32
5	8.98	7.32	6.94	7.00	6.83	7.23	7.75	7.28	10.55	9.69	8.91	8.25
6	8.82	7.29	6.92	6.97	6.83	7.21	7.72	7.25	10.36	9.44	8.83	8.16
7	8.73	7.26	6.91	6.95	6.82	7.17	7.74	7.22	9.85	9.19	8.84	8.07
8	8.58	7.23	6.90	6.94	6.82	7.14	7.85	7.20	9.52	9.16	9.04	7.99
9	8.45	7.19	6.98	6.90	6.82	7.43	7.84	7.13	9.34	11.18	9.05	7.92
10	8.35	7.15	6.87	6.88	6.83	7.78	7.75	7.05	10.35	11.15	9.00	7.86
11	8.30	7.12	6.88	6.87	6.82	7.73	7.66	7.06	12.57	10.89	9.37	7.80
12	8.37	7.11	6.87	6.87	6.82	7.68	7.65	7.09	12.70	10.72	9.12	7.74
13	8.27	7.10	6.87	6.86	6.82	7.62	7.65	7.10	12.17	10.46	9.29	7.69
14	8.20	7.10	6.87	6.88	6.82	7.58	7.59	7.14	11.56	10.26	9.20	7.63
15	8.14	7.11	6.86	6.90	6.81	7.54	7.54	7.18	11.08	10.21	8.97	7.58
16	8.07	7.11	6.86	6.89	6.81	7.51	7.48	7.12	11.49	9.92	8.77	7.53
17	8.00	7.11	6.86	6.87	6.81	8.48	7.43	7.03	11.11	9.66	8.58	7.50
18	7.96	7.10	6.86	6.90	6.81	9.97	7.36	7.03	10.60	9.39	8.42	7.47
19	7.92	7.10	6.86	6.94	6.81	9.09	7.26	6.98	10.11	9.41	8.29	7.44
20	7.89	7.09	6.85	6.87	6.81	8.67	7.23	6.99	9.75	10.29	8.16	7.47
21	7.86	7.08	6.85	6.86	6.81	8.36	7.19	7.25	9.57	10.11	8.07	7.65
22	7.83	7.06	6.85	6.86	6.80	8.24	7.20	7.19	9.67	9.83	8.06	7.80
23	7.78	7.06	6.89	6.87	6.80	8.20	7.20	7.19	9.77	9.51	8.22	7.76
24	7.72	7.04	6.89	6.85	6.80	8.23	7.18	7.16	9.86	9.41	8.22	7.86
25	7.68	7.04	6.91	6.85	6.88	8.19	7.12	7.07	10.46	9.71	8.13	7.80
26	7.62	7.06	6.92	6.85	6.88	8.12	7.04	6.96	10.33	11.13	8.13	7.73
27	7.58	7.05	6.90	6.84	6.92	8.03	7.28	6.82	10.43	10.54	8.32	7.71
28	7.53	7.06	6.95	6.84	6.91	7.99	7.45	6.80	10.74	10.09	8.65	7.68
29	7.49	7.05	7.06	6.84	---	8.00	7.40	6.92	10.38	9.82	8.46	7.68
30	7.46	7.02	7.09	6.84	---	7.93	7.37	6.98	10.73	9.45	8.31	7.83
31	7.43	---	7.09	6.84	---	7.88	---	7.12	---	9.27	8.18	---
TOTAL	253.82	214.49	214.48	214.05	191.24	242.91	225.28	220.60	313.04	309.64	268.04	234.07
MEAN	8.19	7.15	6.92	6.90	6.83	7.84	7.51	7.12	10.43	9.99	8.65	7.80
MAX	9.33	7.40	7.09	7.08	6.92	9.97	7.86	7.37	12.70	11.18	9.37	8.32
MIN	7.43	7.02	6.85	6.84	6.80	6.90	7.04	6.80	8.03	9.16	8.06	7.44

02291580 NORTH BRANCH ESTERO RIVER AT ESTERO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	0.03	0.00	0.00	0.00	0.00	5.6	1.2	12	92	32	8.9
2	26	0.00	0.00	0.00	0.00	0.00	5.6	1.1	29	66	27	8.4
3	28	0.00	0.00	0.00	0.00	0.01	5.7	0.77	72	53	24	8.3
4	25	0.00	0.00	0.00	0.00	0.32	5.0	0.73	115	46	22	13
5	19	0.00	0.00	0.00	0.00	0.50	4.4	0.71	91	54	27	12
6	16	0.00	0.00	0.00	0.00	0.45	4.1	0.59	82	44	25	10
7	14	0.00	0.00	0.00	0.00	0.33	4.3	0.48	60	36	26	8.8
8	11	0.00	0.00	0.00	0.00	0.25	5.6	0.41	47	35	31	7.6
9	8.9	0.00	0.00	0.00	0.00	1.9	5.6	0.23	41	124	31	6.5
10	7.3	0.00	0.00	0.00	0.00	4.8	4.5	0.07	84	122	30	5.8
11	6.6	0.00	0.00	0.00	0.00	4.2	3.4	0.07	220	107	42	5.0
12	7.6	0.00	0.00	0.00	0.00	3.6	3.4	0.13	228	98	34	4.3
13	6.2	0.00	0.00	0.00	0.00	3.0	3.3	0.16	189	86	39	3.7
14	5.3	0.00	0.00	0.00	0.00	2.7	2.8	0.23	147	77	36	3.2
15	4.5	0.00	0.00	0.00	0.00	2.4	2.3	0.34	118	75	29	2.6
16	3.7	0.00	0.00	0.00	0.00	2.1	1.8	0.21	143	63	24	2.3
17	3.1	0.00	0.00	0.00	0.00	25	1.5	0.04	120	52	19	2.0
18	2.6	0.00	0.00	0.00	0.00	65	1.1	0.03	93	42	15	1.8
19	2.3	0.00	0.00	0.03	0.00	33	0.65	0.00	71	44	13	1.6
20	2.1	0.00	0.00	0.00	0.00	21	0.51	0.20	56	78	10	1.8
21	1.9	0.00	0.00	0.00	0.00	14	0.36	0.62	49	71	8.8	3.4
22	1.7	0.00	0.00	0.00	0.00	12	0.41	0.37	53	59	8.8	5.0
23	1.3	0.00	0.00	0.00	0.00	11	0.41	0.40	57	47	11	4.5
24	1.0	0.00	0.00	0.00	0.00	12	0.35	0.31	60	43	11	5.7
25	0.80	0.00	0.00	0.00	0.00	11	0.19	0.09	86	57	9.9	5.0
26	0.55	0.00	0.00	0.00	0.00	9.6	0.05	0.01	80	121	9.9	4.2
27	0.39	0.00	0.00	0.00	0.00	8.2	0.83	0.00	85	90	13	4.0
28	0.26	0.00	0.00	0.00	0.00	7.5	1.7	0.00	100	70	21	3.7
29	0.17	0.00	0.00	0.00	---	7.8	1.4	0.00	82	59	16	3.7
30	0.12	0.00	0.00	0.00	---	6.8	1.2	0.00	100	45	13	5.5
31	0.07	---	0.00	0.00	---	6.1	---	0.22	---	39	11	---
TOTAL	227.46	0.03	0.00	0.03	0.00	276.56	78.06	9.72	2,770	2,095	669.4	162.3
MEAN	7.34	0.00	0.00	0.00	0.00	8.92	2.60	0.31	92.3	67.6	21.6	5.41
MAX	28	0.03	0.00	0.03	0.00	65	5.7	1.2	228	124	42	13
MIN	0.07	0.00	0.00	0.00	0.00	0.00	0.05	0.00	12	35	8.8	1.6
AC-FT	451	0.06	0.00	0.06	0.00	549	155	19	5,490	4,160	1,330	322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	26.1	7.67	2.50	1.45	3.03	1.83	0.30	0.05	8.69	11.7	16.2	30.8
MAX	153	59.7	23.6	11.2	49.2	21.0	2.60	0.31	92.3	67.6	89.2	104
(WY)	(1996)	(1999)	(1998)	(1998)	(1998)	(1998)	(2005)	(2005)	(2005)	(2005)	(2004)	(2001)
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)	(1990)	(1990)	(1990)	(1990)	(1990)	(1988)	(1989)	(1988)	(1989)	(1989)	(1989)	(1989)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	6,548.76		6,288.56			
ANNUAL MEAN	17.9		17.2		9.47	
HIGHEST ANNUAL MEAN					24.1	2004
LOWEST ANNUAL MEAN					0.00**	
HIGHEST DAILY MEAN	232	Sep 7	228	Jun 12	366	Aug 26, 1995
LOWEST DAILY MEAN	0.00	Apr 28	0.00	Nov 2	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00	May 10	0.00	Nov 2	0.00**	
MAXIMUM PEAK FLOW			252	Jun 11	381	Aug 25, 1995
MAXIMUM PEAK STAGE			12.99	Jun 11	14.41	Aug 25, 1995
ANNUAL RUNOFF (AC-FT)	12,990		12,470		6,860	
10 PERCENT EXCEEDS	68		61		20	
50 PERCENT EXCEEDS	0.90		1.7		0.07	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

** Many days during water years 1988-2005.

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.

02291597 SOUTH BRANCH ESTERO RIVER AT ESTERO, FL

LOCATION.--Lat 26°25'43", long 81°47'36", in NW $^1/_4$ sec.34, T.46 S., R.25 E., Lee County, Hydrologic Unit 03090204, near left bank on downstream culvert headwall on Corkscrew Road, 1.1 mi east of U.S. Highway 41 at Estero and 3.9 mi upstream from mouth of Estero River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1987 to current year.

REVISED RECORDS.--WDR FL-2000-2A,1999.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. Water years 2000 and 2001 at datum 0.30 ft higher than current datum. Water years 1987-1999 at datum near 0.30 ft higher than current datum (original benchmark destroyed during road construction in July 1999). Days of no flow occurred during water years 1996, 1999, 2000, 2005.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 16 complete water years of discharge (1989-98, 2000-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.64	2.84	2.74	2.65	2.61	2.74	3.10	3.36	3.57	5.08	4.28	3.63
2	3.62	2.84	2.73	2.65	2.61	2.72	3.15	3.31	3.89	4.86	4.25	3.55
3	3.55	2.84	2.72	2.64	2.61	2.72	3.17	3.28	4.90	4.61	4.59	3.59
4	3.49	2.84	2.72	2.64	2.61	2.76	3.13	3.27	5.98	4.42	4.51	4.06
5	3.43	2.83	2.70	2.64	2.61	2.74	3.10	3.27	6.00	4.38	4.74	3.88
6	3.36	2.82	2.70	2.64	2.61	2.73	3.10	3.26	5.98	4.21	4.64	3.68
7	3.31	2.82	2.69	2.64	2.61	2.72	3.10	3.24	5.58	3.99	4.66	3.57
8	3.26	2.81	2.69	2.63	2.61	2.73	3.23	3.21	5.18	3.91	5.00	3.51
9	3.22	2.80	2.68	2.63	2.62	2.98	3.20	3.19	4.90	5.69	4.90	3.47
10	3.19	2.79	2.68	2.62	2.61	3.07	3.16	3.17	5.43	6.03	4.70	3.44
11	3.16	2.78	2.67	2.62	2.59	2.95	3.21	3.15	7.51	5.78	4.55	3.39
12	3.18	2.78	2.65	2.62	2.58	2.90	3.29	3.15	7.25	5.38	4.55	3.32
13	3.15	2.79	2.64	2.62	2.59	2.87	3.21	3.15	6.80	5.09	5.10	3.24
14	3.12	2.79	2.64	2.64	2.59	2.85	3.17	3.15	6.25	5.41	4.93	3.18
15	3.08	2.79	2.63	2.65	2.59	2.85	3.15	3.18	5.98	5.53	4.65	3.11
16	3.05	2.78	2.62	2.65	2.59	2.84	3.13	3.16	5.48	5.47	4.43	3.08
17	3.02	2.78	2.61	2.64	2.59	3.62	3.12	3.13	5.05	5.34	4.19	3.02
18	3.00	2.77	2.61	2.63	2.59	---	3.12	3.09	4.66	5.05	3.94	2.99
19	2.98	2.77	2.61	2.62	2.58	---	3.12	3.09	4.33	4.84	3.78	2.96
20	2.97	2.77	2.61	2.62	2.58	---	3.13	3.08	4.12	4.97	3.64	3.01
21	2.96	2.76	2.61	2.63	2.58	---	3.13	3.07	4.13	4.75	3.53	3.17
22	2.94	2.76	2.61	2.62	2.58	3.27	3.13	3.05	4.21	4.56	3.46	3.19
23	2.92	2.76	2.63	2.64	2.58	3.22	3.14	3.03	4.51	4.38	3.37	3.17
24	2.90	2.76	2.65	2.62	2.58	3.31	3.13	3.01	4.64	4.35	3.37	3.29
25	2.89	2.77	2.68	2.62	2.72	3.29	3.13	2.99	4.65	4.49	3.42	3.25
26	2.88	2.76	2.72	2.62	2.70	3.23	3.14	2.97	4.53	4.78	3.48	3.19
27	2.88	2.76	2.68	2.62	2.78	3.18	3.31	2.95	4.68	4.82	3.65	3.26
28	2.86	2.76	2.66	2.62	2.77	3.19	---	2.93	5.10	4.73	4.17	3.29
29	2.85	2.75	2.66	2.61	---	3.18	---	2.91	4.96	4.63	4.15	3.26
30	2.85	2.74	2.65	2.61	---	3.14	3.37	2.89	5.07	4.46	3.96	3.30
31	2.85	---	2.65	2.61	---	3.12	---	2.97	---	4.36	3.78	---
TOTAL	96.56	83.61	82.54	81.51	73.27	---	---	96.66	155.32	150.35	130.37	100.05
MEAN	3.11	2.79	2.66	2.63	2.62	---	---	3.12	5.18	4.85	4.21	3.33
MAX	3.64	2.84	2.74	2.65	2.78	---	---	3.36	7.51	6.03	5.10	4.06
MIN	2.85	2.74	2.61	2.61	2.58	---	---	2.89	3.57	3.91	3.37	2.96

02291597 SOUTH BRANCH ESTERO RIVER AT ESTERO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	1.4	1.3	1.0	0.68	1.4	3.9	3.0	9.5	69	33	15
2	16	1.3	1.3	0.99	0.68	1.3	4.6	2.3	16	60	31	12
3	14	1.4	1.3	0.99	0.68	1.3	4.8	2.0	56	51	41	14
4	13	1.4	1.3	0.97	0.69	1.5	4.0	1.9	92	45	37	28
5	11	1.3	1.2	0.96	0.68	1.4	3.5	1.9	93	43	46	22
6	8.8	1.3	1.2	0.96	0.68	1.3	3.3	1.8	91	38	42	16
7	7.5	1.3	1.2	0.94	0.66	1.3	3.3	1.6	74	31	43	13
8	6.5	1.3	1.2	0.92	0.66	1.3	5.2	1.3	60	28	58	11
9	5.9	1.2	1.1	0.88	0.73	4.0	4.6	1.2	50	89	54	9.6
10	5.2	1.2	1.1	0.87	0.69	4.4	3.9	1.1	72	103	45	8.8
11	4.7	1.2	1.1	0.85	0.60	2.8	4.6	0.97	173	92	38	7.5
12	5.0	1.2	1.0	0.85	0.57	2.4	6.1	0.96	164	77	39	6.0
13	4.6	1.3	0.98	0.80	0.57	2.2	4.4	0.94	150	66	65	4.6
14	4.0	1.3	0.95	0.91	0.57	2.1	3.5	0.95	127	78	59	3.6
15	3.5	1.3	0.93	0.96	0.57	2.1	3.1	1.2	114	83	48	2.7
16	3.0	1.3	0.88	0.96	0.57	2.0	2.7	1.0	92	80	39	2.3
17	2.7	1.2	0.84	0.88	0.58	22	2.4	0.87	75	75	32	1.8
18	2.5	1.2	0.85	0.82	0.59	e37	2.2	0.65	60	64	24	1.4
19	2.3	1.2	0.84	0.79	0.55	e28	2.1	0.62	49	57	19	1.2
20	2.2	1.2	0.84	0.79	0.55	e19	2.0	0.59	41	62	15	1.6
21	2.1	1.2	0.84	0.82	0.55	e11	2.0	0.53	41	54	12	3.4
22	1.9	1.2	0.84	0.79	0.55	8.5	1.9	0.48	43	47	9.8	3.6
23	1.8	1.3	0.97	0.88	0.55	7.4	1.8	0.39	53	42	7.4	3.2
24	1.7	1.3	1.1	0.79	0.55	9.5	1.6	0.32	56	41	7.4	5.3
25	1.6	1.3	1.3	0.79	1.4	8.8	1.5	0.27	56	45	8.6	4.5
26	1.5	1.3	1.5	0.78	1.2	7.2	1.4	0.21	52	55	10	3.5
27	1.5	1.3	1.2	0.78	1.7	5.9	3.2	0.16	57	56	15	4.8
28	1.4	1.3	1.1	0.77	1.6	5.9	e3.3	0.12	71	52	31	5.2
29	1.4	1.3	1.1	0.76	---	5.7	e3.2	0.08	65	47	31	4.7
30	1.4	1.3	1.0	0.75	---	4.7	3.4	0.05	69	40	25	5.6
31	1.4	---	1.0	0.72	---	4.3	---	0.24	---	36	19	---
TOTAL	156.1	38.3	33.36	26.72	20.65	217.7	97.5	29.70	2,221.5	1,806	984.2	225.9
MEAN	5.04	1.28	1.08	0.86	0.74	7.02	3.25	0.96	74.0	58.3	31.7	7.53
MAX	16	1.4	1.5	1.0	1.7	37	6.1	3.0	173	103	65	28
MIN	1.4	1.2	0.84	0.72	0.55	1.3	1.4	0.05	9.5	28	7.4	1.2
AC-FT	310	76	66	53	41	432	193	59	4,410	3,580	1,950	448

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	29.7	10.6	3.93	3.12	4.93	3.76	1.54	0.77	10.1	19.9	33.3	41.1
MAX	220	59.5	28.6	13.6	57.4	31.5	8.66	4.69	74.0	60.7	126	142
(WY)	(1996)	(1999)	(1998)	(1998)	(1998)	(1998)	(1987)	(1987)	(2005)	(1992)	(1995)	(1995)
MIN	4.87	0.61	0.30	0.29	0.10	0.10	0.07	0.01	0.17	0.85	2.60	4.91
(WY)	(1989)	(1993)	(1991)	(1997)	(1997)	(1997)	(2000)	(2000)	(1988)	(2000)	(1989)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	5,766.64		5,857.63			
ANNUAL MEAN	15.8		16.0		13.3	
HIGHEST ANNUAL MEAN					33.6	1995
LOWEST ANNUAL MEAN					2.03	1989
HIGHEST DAILY MEAN	195	Aug 18	173	Jun 11	410	Aug 26, 1995
LOWEST DAILY MEAN	0.15	Jun 3	0.05	May 30	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.18	May 31	0.16	May 25	0.00**	
MAXIMUM PEAK FLOW			212	Jun 11	440	Aug 25, 1995
MAXIMUM PEAK STAGE			8.28	Jun 11	12.60	Aug 25, 1995
INSTANTANEOUS LOW FLOW			0.03	May 30	0.00**	
ANNUAL RUNOFF (AC-FT)	11,440		11,620		9,670	
10 PERCENT EXCEEDS	68		56		40	
50 PERCENT EXCEEDS	1.9		2.1		2.0	
90 PERCENT EXCEEDS	0.64		0.69		0.22	

e Estimated

** Many days during water years 1996, 1999, 2000.

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.

262043081513200 FISH TRAP BAY NEAR BONITA BEACH, FL

LOCATION.--Lat 26°27'50", long 81°54'44", T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, east bank of connection between Fishtrap Bay and Big Hickory Bay, 0.25 mi northwest of Imperial River, 2 mi north of Bonita Beach.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: January 2002 to September 2005. Discontinued.
WATER TEMPERATURE: January 2002 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following period: July 22-27, rated good. Temperature record rated good. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 35.8 ppt May 18, 2002 and June 10, 2002; minimum recorded, 0.3 ppt Oct. 2, 3, 2003, and Sept. 3,4, 2004. (Corrected).
WATER TEMPERATURE: Maximum recorded, 35.1°C July 16, 2002; minimum recorded, 9.0°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 33.6 ppt Feb. 6; minimum recorded, 1.6 ppt June 1.
WATER TEMPERATURE: Maximum recorded, 34.6°C July 27, Aug. 10,12; minimum recorded, 13.8°C Feb. 12.

262136081512801 BIG HICKORY PASS BRIDGE NEAR ESTERO ISLAND, FL

LOCATION.--Lat 26°21'36", long 81°51'28", in sec. 24, T.47 S., R.24 E., Lee County, Hydrologic Unit 03090204, south bank of Big Hickory Pass west of bridge fenders, 0.8 mi east of the Gulf of Mexico, 2 mi north of Bonita Beach.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: January 2002 to September 2005. Discontinued.
GAGE HEIGHT: January 2002 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with pressure transducer and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREME FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 4,710 ft^3/s Dec. 26, 2004; maximum negative, 11,900 ft^3/s Apr. 12, 2004.
GAGE HEIGHT: Maximum gage height, 3.51 ft July 10, 2005; minimum, -2.75 ft Nov. 4, 2002.

EXTREME FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 4,710 ft^3/s Dec. 26; maximum negative, 7,130 ft^3/s July 10.
GAGE HEIGHT: Maximum gage height, 3.51 ft July 10; minimum, -1.47 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP): October 2001 to September 2005. Discontinued.
SALINITY (BOTTOM): October 2001 to August 2004. Discontinued.
WATER TEMPERATURE (TOP): October 2001 to September 2005. Discontinued.
WATER TEMPERATURE (BOTTOM): October 2001 to August 2004. Discontinued.

INSTRUMENTATION.--Water-quality monitor. Water-quality monitor with top and bottom sensors until September 30, 2004.

REMARKS.--Salinity record rated excellent. Temperature record rated good. Salinity and temperature sensors located at -4.5 ft NGVD (TOP) and -6.5 ft NGVD (BOTTOM). Daily values are not published for this site. During periods of missing record, values may be higher or lower than listed extremes. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 38.7 ppt May 17, 18, 2002; minimum recorded, 7.9 ppt Oct. 1, 2003.
SALINITY (BOTTOM): Maximum recorded, 38.0 ppt June 6, 2002; minimum recorded, 11.3 ppt Oct. 1, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 34.5°C July 29, 2005; minimum recorded, 13.3°C Jan. 9, 2002.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.1°C July 20, 2002; minimum recorded, 13.4°C Jan. 9, 2002.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 34.8 ppt on many days during the year; minimum recorded, 9.7 ppt June 14.
WATER TEMPERATURE (TOP): Maximum recorded, 34.5°C July 29; minimum recorded, 13.4°C Dec. 16.

262415081525000 BIG CARLOS PASS BRIDGE AT ESTERO ISLAND, FL

LOCATION.--Lat 26°24'15", long 81°52'50", T.47 S., R.24 E., Lee County, Hydrologic Unit 03090204, on bridge fenders on Big Carlos Pass Bridge, 14 mi south of Fort Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: January 2002 to September 2005. Discontinued.
GAGE HEIGHT: January 2002 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with pressure transducer, acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 75,000 ft^3/s Sept. 6, 2002; maximum negative, 106,000 ft^3/s Mar. 16, 2003.
GAGE HEIGHT: Maximum gage height, 3.46 ft July 10, 2005; minimum, -2.11 ft Feb. 18, 2004.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 61,900 ft^3/s June 22; maximum negative, 63,400 ft^3/s May 1.
GAGE HEIGHT: Maximum gage height, 3.46 ft July 10; minimum, -1.78 ft Jan. 10.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP, BOTTOM): January 2002 to September 2005. Discontinued.
WATER TEMPERATURE (TOP, BOTTOM): January 2002 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Nov. 29, 30, Dec. 1, rated good. Salinity (BOTTOM) record rated excellent except for the following periods: Dec. 15-31, Jan. 1-5, rated good. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at -2.50 ft NGVD (TOP) and -7.30 ft NGVD (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 37.4 ppt June 6, 2002; minimum recorded, 5.4 ppt June 13, 2005.
SALINITY (BOTTOM): Maximum recorded, 39.9 ppt June 4, 2002; minimum recorded, 8.2 ppt June 12, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C occuring over multiple days during the period of record; minimum recorded, 11.2°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.4°C Aug.12, 2005; minimum recorded, 11.3°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 35.0 ppt occurring over multiple days in February; minimum recorded, 5.4 ppt June 13.
SALINITY (BOTTOM): Maximum recorded, 35.9 ppt Jan. 4; minimum recorded, 8.2 ppt June 12.
WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C July 6; minimum recorded, 13.5°C Dec. 15.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.4°C Aug. 12; minimum recorded, 13.5°C Dec. 15.

02291610 ESTERO RIVER NEAR THE MOUTH NEAR ESTERO, FL

LOCATION.--Lat 26°26'07", long 81°51'02", T.46 S., R.24 E., Lee County, Hydrologic Unit 03090204, left bank, 0.8 mi from mouth of river, 1.5 mi east of Mound Key, 13 mi south of Ft. Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: February 2002 to September 2005. Discontinued.
GAGE HEIGHT: October 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is arbitrary.

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREME FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 645 ft^3/s Oct. 1, 2003; maximum negative, 1,020 ft^3/s Sept. 26, 2004.
GAGE HEIGHT: Maximum gage height, 4.38 ft Sept. 26, 2004; minimum, -0.92 ft Mar. 5, 2002.

EXTREME FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 602 ft^3/s June 12; maximum negative, 1,000 ft^3/s Sept. 21.
GAGE HEIGHT: Maximum gage height, 3.54 ft July 10; minimum, -0.56 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: October 2001 to September 2005. Discontinued.
WATER TEMPERATURE: October 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. Elevation of the salinity and temperature sensors is -0.3 ft arbitrary datum. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 40.1 ppt June 6, 2002; minimum recorded, 0.1 ppt Sept. 29, 30, 2003, and Oct. 1-4, 2003.
WATER TEMPERATURE: Maximum recorded, 36.3°C Sept.11, 2005; minimum recorded, 9.6°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 33.8 ppt Jan. 12, 13; minimum recorded, 0.2 ppt June 11-18 and July 10-28.
WATER TEMPERATURE: Maximum recorded, 36.3°C Sept. 11; minimum recorded, 11.9°C Dec. 16.

262620081523700 ESTERO BAY NEAR HORSESHOE KEYS, FL

LOCATION.--Lat 26°26'20", long 81°52'37", in T.46S., R.24 E., Lee County, Hydrologic Unit 03090204, at Horseshoe Keys, .8 mi southwest from Mullock Creek, 11 mi southwest of Fort Myers.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
GAGE HEIGHT: Maximum gage height, 5.14 ft Aug. 13, 2004; minimum, 1.56 ft Mar. 4, 5, 2002.

EXTREMES FOR CURRENT YEAR.--
GAGE HEIGHT: Maximum gage height, 3.37 ft May 21; minimum, 1.46 ft Dec. 13.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: October 2001 to September 2005. Discontinued
WATER TEMPERATURE: October 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: Oct. 2-31, Nov. 1, 2, 18-30, Dec. 1-31, Jan. 1-6, 19-28, Apr. 19-30, May 1-11, 21-31, June 1-11, 18, 19, July 31, Aug. 1-9, 12-15, rated good; Nov. 3, 4, June 12-16, 20, Sept. 16, 17, rated fair; and June 21-25, Sept. 18-25, rated poor. Temperature record rated good. Salinity and temperature sensors are located at 1.21 ft NGVD. During periods of missing record, values may have be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minutes data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 37.5 ppt June 7, 2002; minimum recorded, 2.2 ppt, June 13, 2005.
WATER TEMPERATURE: Maximum recorded, 35.7°C Aug. 15, 2005; minimum recorded, 7.2'C Jan. 28, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 34.4 ppt May 21;minimum recorded,2.2 ppt June 13.
WATER TEMPERATURE: Maximum recorded, 35.7°C Aug. 15; minimum recorded, 12.1°C Jan. 24.

02291655 MULLOCK CREEK NEAR THE MOUTH NEAR ESTERO, FL

LOCATION.--Lat 26°27'50", long 81°51'57", T.46 S., R.23 E., Lee County, Hydrologic Unit 03090204, near right bank, 450 ft from the mouth of river, 11 mi south of Ft. Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: January 2002 to September 2005. Discontinued.
GAGE HEIGHT: October 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 2,170 ft^3/s Sept. 6, 2002; maximum negative, 1,640 ft^3/s Feb. 27, 2005.
GAGE HEIGHT: Maximum gage height, 4.51 ft Sept. 26, 2004; minimum, -1.74 ft Dec. 15, 2004.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 2,080 ft^3/s June 11; maximum negative, 1,640 ft^3/s Feb. 27.
GAGE HEIGHT: Maximum gage height, 3.33 ft July 10; minimum, -1.74 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY: October 2001 to September 2005. Discontinued.
WATER TEMPERATURE: October 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: Dec. 22-31, Jan. 1-6, Mar. 3, 4, Apr. 23-30, May 1-12, Aug 18-31, Sept. 1-19, rated good. Temperature record rated good. Salinity and temperature sensor located at -1.34 ft NGVD. During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY: Maximum recorded, 37.4 ppt June 8, 2002; minimum recorded, 0.2 ppt occurred on several days during the months of Sept. 2003, 2004, and Oct. 2003.
WATER TEMPERATURE: Maximum recorded, 34.1°C July 16, 2002, and July 21, 2003; minimum recorded, 10.2°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY: Maximum recorded, 32.8 ppt Feb. 10; minimum recorded, 0.3 ppt on several days during the months of June, July, and Aug.
WATER TEMPERATURE: Maximum recorded, 33.6°C Aug. 21; minimum recorded, 13.0°C Feb. 16.

262727081571300 MATANZAS PASS BRIDGE AT FORT MYERS BEACH, FL

LOCATION.--Lat 26°27'27", long 81°57'13", T.46 S., R.23 E., Lee County, Hydrologic Unit 03090204, on bridge fenders on Matanzas Pass Bridge, 300 ft from northeast bank of Matanzas Pass, and 11 mi southwest of Fort Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: February 2002 to September 2005. Discontinued.
GAGE HEIGHT: December 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum positive discharge, 35,100 ft^3/s Aug. 13, 2004; maximum negative, 59,400 ft^3/s Aug. 13, 2004.
GAGE HEIGHT: Maximum gage height, 5.92 ft Aug. 13, 2004; minimum, -2.95 ft Feb. 15, 2005.

EXTREMES FOR CURRENT YEAR.--
DISCHARGE: Maximum positive discharge, 19,900 ft^3/s June 1; maximum negative, 25,900 ft^3/s July 7.
GAGE HEIGHT: Maximum gage height, 3.75 ft July 10; minimum, -2.95 ft Feb. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SALINITY (TOP AND BOTTOM): December 2001 to September 2005. Discontinued.
WATER TEMPERATURE (TOP AND BOTTOM): December 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Mar. 9-19, Aug. 24-31, and Sept. 1-16, rated good; Mar. 20-28, rated fair; and Mar. 29, 30, Apr. 1-21, rated poor. Salinity (BOTTOM) record rated excellent except for the following periods: Nov. 4-30, Dec. 1, 27-31, Jan. 1-5, Mar. 12-31, Apr 29, 30, May 1-31, June 1-30, July 1-31, Aug.1, 2, rated good; Apr. 1-15, rated fair; and Apr. 16-28, rated poor. Temperature (TOP AND BOTTOM) record rated good. Salinity-temperature sensors located at -2.00 NGVD (TOP) and -6.00 NGVD (BOTTOM). Daily values are not published for this site. During periods of missing records, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at http://sofia.usgs.gov/.

EXTREMES FOR PERIOD OF RECORD.--
SALINITY (TOP): Maximum recorded, 37.1 ppt May 31, 2002, and June 1, 2002; minimum recorded, 10.9 ppt June 13, 2005.
SALINITY (BOTTOM): Maximum recorded, 37.0 ppt May 28, 2002; minimum recorded, 13.6 ppt June 25, 2003, Sept. 10, 2004, and June 13, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 34.0°C Aug. 17, 2005; minimum recorded, 12.1°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C Aug. 12, 2005; minimum recorded, 12.2°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--
SALINITY (TOP): Maximum recorded, 35.6 ppt Mar. 22; minimum recorded, 10.9 ppt June 13.
SALINITY (BOTTOM): Maximum recorded, 34.4 ppt Mar. 30, and Apr. 18; minimum recorded, 13.6 ppt June 13.
WATER TEMPERATURE (TOP): Maximum recorded, 34.0°C Aug. 17; minimum recorded, 14.3°C Dec. 28.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C Aug. 12; minimum recorded, 14.3°C Dec. 28.

02291669 SIXMILE CYPRESS CREEK NORTH NEAR FORT MYERS, FL

LOCATION.--Lat 26°31'18", long 81°51'09", in SW ¼ NW ¼ NW ¼ sec.31, T.45 S., R.25 E., Lee County, Hydrologic Unit 03090204, 10 ft upstream from Tenmile Canal, 0.4 mi south of Sixmile Cypress parkway, and 5.2 mi south of Colonial Boulevard in Ft. Myers, FL.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1987 to 1990, 1992 to current year.

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

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Gate operation log provided by the county of Lee.

REMARKS.--No estimated daily discharges. Records fair. Flow can be regulated by four vertical lift gates, two on either side of control weir. New control weir constructed in 1991. Records of discharge for water years 1999-2005 represent only flow over the top of the weir. Daily value discharge during water years 1999-2005 are not provided when partial or full gate openings occurred. Records of discharge prior to water year 1999 include combinations of flow over the weir and gate flow. No distinctions in flow types prior to water year 1999 have been made. Zero flow occurs numerous days, during all water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 9 complete water years of discharge (1989-90, 1992-98).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.11	10.82	7.03	9.51	6.74	10.17	11.09	11.02	8.73	11.41	11.27	6.31
2	11.09	10.78	7.13	9.51	6.53	10.45	11.10	11.02	10.88	11.37	11.25	6.06
3	11.08	10.71	7.17	9.47	6.34	10.66	11.11	11.01	11.28	11.35	11.22	5.89
4	11.06	10.61	7.12	9.41	6.17	10.85	11.09	11.00	11.49	11.32	11.20	5.87
5	11.05	10.49	6.92	9.35	6.04	10.92	11.05	11.00	11.58	11.30	11.20	5.61
6	11.04	10.34	6.67	9.28	5.93	10.91	11.00	10.99	11.66	11.31	11.21	5.45
7	11.03	10.14	6.44	9.20	5.85	10.90	11.00	10.98	11.65	11.28	11.20	5.28
8	11.02	9.95	6.27	9.10	5.80	10.90	11.02	10.97	11.63	9.90	11.20	5.12
9	11.02	9.74	6.14	9.00	5.75	10.94	11.03	10.95	11.48	9.39	11.19	8.40
10	11.01	9.52	6.03	8.88	5.71	10.98	11.02	10.93	10.38	11.13	11.20	11.09
11	11.00	9.27	5.94	8.74	5.66	10.97	11.02	10.89	10.64	11.26	11.26	11.07
12	10.99	9.04	5.85	8.59	5.62	10.97	11.01	10.89	10.86	11.31	11.28	11.05
13	10.99	8.81	5.79	8.44	5.59	10.98	11.00	10.84	10.71	11.29	11.29	11.03
14	10.98	8.62	5.75	8.31	5.58	10.98	10.99	10.78	9.74	11.22	11.27	11.02
15	10.97	8.48	5.70	8.23	5.57	10.98	10.99	10.72	8.76	---	11.24	11.01
16	10.97	8.31	5.67	8.17	5.55	10.98	10.99	10.59	8.01	10.83	11.20	11.00
17	10.96	8.13	5.65	8.11	5.54	11.09	10.98	10.43	7.52	9.50	11.19	10.99
18	10.96	7.96	5.65	8.01	5.52	11.23	10.97	10.22	7.09	8.29	11.21	10.98
19	10.96	7.77	5.65	7.87	5.49	11.25	10.96	9.99	6.70	7.42	11.23	10.98
20	10.96	7.58	5.64	7.70	5.46	11.27	10.96	9.74	6.38	7.58	11.24	10.98
21	10.96	7.37	5.63	7.48	5.45	11.25	10.96	9.46	6.18	---	11.23	10.99
22	10.95	7.16	5.63	7.23	5.42	11.22	10.94	9.21	6.13	---	11.21	10.99
23	10.95	6.97	5.64	7.24	5.40	11.20	10.94	8.96	6.17	---	11.19	10.99
24	10.94	6.78	5.70	7.42	5.38	11.19	10.91	8.73	6.27	---	11.17	11.06
25	10.94	6.69	5.78	7.52	5.63	11.16	10.88	8.51	6.72	---	7.89	11.10
26	10.93	6.62	6.91	7.55	6.23	11.14	10.82	8.31	6.83	7.37	5.17	11.13
27	10.92	6.48	8.42	7.53	8.33	11.13	10.95	8.12	6.89	7.31	5.43	11.23
28	10.91	6.44	8.93	7.48	9.71	11.13	11.00	7.95	8.80	9.78	5.96	11.21
29	10.89	6.61	9.22	7.36	---	11.12	11.00	7.77	11.45	11.29	6.05	11.26
30	10.87	6.86	9.37	7.18	---	11.11	11.01	7.59	11.45	11.30	6.27	11.30
31	10.85	---	9.45	6.97	---	11.10	---	7.57	---	11.30	6.43	---
TOTAL	340.36	255.05	204.89	255.84	167.99	341.13	329.79	307.14	274.06	---	312.55	286.45
MEAN	10.98	8.50	6.61	8.25	6.00	11.00	10.99	9.91	9.14	---	10.08	9.55
MAX	11.11	10.82	9.45	9.51	9.71	11.27	11.11	11.02	11.66	---	11.29	11.30
MIN	10.85	6.44	5.63	6.97	5.38	10.17	10.82	7.57	6.13	---	5.17	5.12

02291669 SIXMILE CYPRESS CREEK NORTH NEAR FORT MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	1.3	0.00	0.00	0.00	0.00	45	13	0.00	175	108	---
2	65	0.14	0.00	0.00	0.00	0.00	48	13	21	151	97	---
3	59	0.00	0.00	0.00	0.00	0.00	49	9.7	109	139	86	---
4	55	0.00	0.00	0.00	0.00	2.7	42	8.1	218	123	75	---
5	50	0.00	0.00	0.00	0.00	9.2	42	7.5	281	118	75	---
6	46	0.00	0.00	0.00	0.00	9.0	41	6.6	360	120	81	---
7	44	0.00	0.00	0.00	0.00	7.3	37	5.7	347	105	76	---
8	42	0.00	0.00	0.00	0.00	6.2	44	4.1	330	---	75	---
9	41	0.00	0.00	0.00	0.00	15	44	2.4	---	0.07	70	---
10	38	0.00	0.00	0.00	0.00	24	42	1.0	---	50	77	66
11	36	0.00	0.00	0.00	0.00	22	38	0.15	---	96	99	59
12	34	0.00	0.00	0.00	0.00	21	35	0.17	---	---	112	53
13	33	0.00	0.00	0.00	0.00	24	30	0.00	---	---	115	47
14	30	0.00	0.00	0.00	0.00	25	28	0.00	---	---	107	41
15	27	0.00	0.00	0.00	0.00	25	24	0.00	---	---	91	36
16	27	0.00	0.00	0.00	0.00	25	23	0.00	---	---	77	32
17	26	0.00	0.00	0.00	0.00	62	20	0.00	---	---	73	27
18	25	0.00	0.00	0.00	0.00	114	15	0.00	---	---	82	24
19	25	0.00	0.00	0.00	0.00	127	13	0.00	---	---	89	21
20	25	0.00	0.00	0.00	0.00	131	12	0.00	---	---	93	19
21	25	0.00	0.00	0.00	0.00	121	11	0.00	---	---	90	20
22	23	0.00	0.00	0.00	0.00	108	7.1	0.00	---	---	81	18
23	22	0.00	0.00	0.00	0.00	96	6.4	0.00	---	---	71	19
24	20	0.00	0.00	0.00	0.00	87	2.7	0.00	---	---	66	36
25	19	0.00	0.00	0.00	0.00	75	0.73	0.00	---	---	---	47
26	17	0.00	0.00	0.00	0.00	69	0.01	0.00	---	---	---	55
27	14	0.00	0.00	0.00	0.00	61	8.3	0.00	---	---	---	94
28	11	0.00	0.00	0.00	0.00	59	12	0.00	---	---	---	81
29	8.0	0.00	0.00	0.00	---	58	12	0.00	201	116	---	100
30	5.5	0.00	0.00	0.00	---	55	13	0.00	199	119	---	118
31	3.1	---	0.00	0.00	---	48	---	0.00	---	118	---	---
TOTAL	968.6	1.44	0.00	0.00	0.00	1,486.40	745.24	71.42	---	---	---	---
MEAN	31.2	0.05	0.00	0.00	0.00	47.9	24.8	2.30	---	---	---	---
MAX	73	1.3	0.00	0.00	0.00	131	49	13	---	---	---	---
MIN	3.1	0.00	0.00	0.00	0.00	0.00	0.01	0.00	---	---	---	---
AC-FT	1,920	2.9	0.00	0.00	0.00	2,950	1,480	142	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	45.4	7.87	3.59	4.33	3.72	7.75	1.90	0.16	5.69	31.1	78.1	70.8
MAX	216	38.0	22.7	18.6	23.2	48.5	24.8	2.30	42.1	153	195	238
(WY)	(1996)	(1996)	(1998)	(1998)	(1998)	(1998)	(2005)	(2005)	(1992)	(1992)	(1995)	(1995)
MIN	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.79	26.3
(WY)	(1990)	(1993)	(1990)	(1989)	(1989)	(1990)	(1988)	(1988)	(1988)	(1988)	(1993)	(1997)

SUMMARY STATISTICS	WATER YEARS 1987 - 2005	
ANNUAL MEAN	23.3	
HIGHEST ANNUAL MEAN	47.2	1995
LOWEST ANNUAL MEAN	6.84	1993
HIGHEST DAILY MEAN	860	Aug 27, 1995
LOWEST DAILY MEAN	0.00 **	
ANNUAL SEVEN-DAY MINIMUM	0.00 **	
MAXIMUM PEAK FLOW	1,830	Aug 11, 1988
MAXIMUM PEAK STAGE	12.12	Aug 27, 1995
ANNUAL RUNOFF (AC-FT)	16,910	
10 PERCENT EXCEEDS	70	
50 PERCENT EXCEEDS	0.00	
90 PERCENT EXCEEDS	0.00	

** Many days during water year 1988-2005.

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.

02291673 TENMILE CANAL AT CONTROL NEAR ESTERO, FL

LOCATION.--Lat 26°30'19", long 81°51'00", in NW ¼ SW ¼ NW ¼ sec. 6, T.46 S., R.24 E., Lee County, Hydrologic Unit 03090204, on left bank 367 ft upstream of weir, 1.05 mi north of Alico Road, and 5.3 mi northwest of Estero.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1987 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to July 22, 2003, Satellite data collection platform with water-stage shaft encoder only.Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by a broad-crested weir and by two vertical lift gates. Records of discharge represent flow over the weir, flow through gates or a combination of weir flow with gate flow included. Records of discharge for water years 1999-2003 represent only flow over the top of the weir; no daily value flow was provided when partial of full gate openings occurred. Zero flow occurs numerous days during most of the water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 10 complete water years of discharge (1990-98, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.34 ft Aug. 26, 1995; minimum, 1.76 ft Sept. 11, 12, 2005.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage heigt, 7.77 ft June 11, minimum, 1.76 ft Sept. 11, 12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.96	5.64	5.55	5.54	5.49	5.59	5.78	5.67	5.80	6.12	---	3.31
2	5.93	5.64	5.55	5.54	5.48	5.58	5.82	5.66	6.09	6.06	3.88	3.08
3	5.91	5.64	5.54	5.54	5.48	5.58	5.84	5.64	---	6.03	3.93	2.85
4	---	5.63	5.54	5.54	5.47	5.58	5.80	5.62	---	5.97	3.42	3.75
5	5.87	5.62	5.53	5.54	5.45	5.58	5.77	5.62	---	6.00	4.57	3.44
6	5.82	5.61	5.53	5.54	5.45	5.58	5.74	5.61	---	5.97	5.99	3.09
7	5.78	5.61	5.54	5.54	5.45	5.58	5.73	5.60	6.64	5.54	5.98	2.88
8	5.77	5.60	5.54	5.54	5.44	5.58	5.79	5.58	6.65	4.35	6.03	2.65
9	5.76	5.60	5.53	5.54	5.44	5.64	5.78	5.58	6.91	6.28	6.13	2.27
10	5.74	5.60	5.54	5.54	5.44	5.72	5.75	5.57	---	6.53	6.06	2.20
11	5.75	5.58	5.53	5.54	5.41	5.70	5.73	5.57	---	6.49	---	2.03
12	5.77	5.54	5.52	5.54	5.39	5.68	5.72	5.58	7.26	6.47	---	---
13	5.76	5.54	5.51	5.53	5.38	5.68	5.72	5.57	6.98	6.35	5.10	3.05
14	5.75	5.54	5.51	5.54	5.38	5.68	5.70	5.56	6.71	6.20	---	5.57
15	5.74	5.55	5.47	5.53	5.37	5.67	5.69	5.58	6.54	---	---	5.31
16	5.73	5.55	5.48	5.52	5.36	5.66	5.67	5.57	6.39	5.90	---	5.69
17	5.73	5.55	5.49	5.52	5.36	5.95	5.66	5.58	6.25	5.74	---	5.68
18	5.72	5.55	5.48	5.51	5.35	6.19	5.66	5.57	6.13	5.53	---	5.67
19	5.72	5.55	5.48	5.52	5.33	6.12	5.65	5.56	6.02	5.02	---	5.65
20	5.72	5.55	5.46	5.52	5.32	6.07	5.65	5.56	5.93	5.56	3.77	5.65
21	5.71	5.55	5.46	5.52	5.30	6.01	5.64	5.55	5.87	5.49	3.49	5.67
22	5.70	5.56	5.48	5.52	5.29	5.96	5.64	5.56	5.87	5.20	3.20	5.70
23	5.70	5.55	5.49	5.53	5.29	5.94	5.63	5.56	5.92	4.76	2.97	5.72
24	5.69	5.55	5.51	5.51	5.28	5.95	5.62	5.40	6.01	4.25	2.80	5.85
25	5.68	5.56	5.53	5.50	5.46	5.91	5.61	5.49	6.17	4.13	3.00	5.85
26	5.68	5.56	5.57	5.50	5.54	5.87	5.61	5.56	6.15	5.11	2.35	5.85
27	5.67	5.56	5.56	5.50	5.59	5.84	5.71	5.57	6.13	4.94	2.96	5.98
28	5.66	5.56	5.56	5.50	5.60	5.86	5.71	5.56	6.17	4.17	3.82	5.97
29	5.66	5.55	5.56	5.50	---	5.86	5.70	5.56	6.25	4.62	3.64	6.06
30	5.65	5.55	5.55	5.50	---	5.82	5.68	5.56	6.22	4.62	3.58	6.11
31	5.64	---	5.54	5.50	---	5.79	---	5.58	---	---	3.48	---
TOTAL	---	167.24	171.13	171.25	151.59	179.22	171.20	172.80	---	---	---	---
MEAN	---	5.57	5.52	5.52	5.41	5.78	5.71	5.57	---	---	---	---
MAX	---	5.64	5.57	5.54	5.60	6.19	5.84	5.67	---	---	---	---
MIN	---	5.54	5.46	5.50	5.28	5.58	5.61	5.40	---	---	---	---

02291673 TENMILE CANAL AT CONTROL NEAR ESTERO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	43	22	20	9.3	31	90	51	114	466	e301	201
2	135	43	21	20	8.4	29	109	48	283	421	e281	184
3	124	42	20	20	8.1	28	118	42	e623	398	e254	136
4	e113	40	20	20	7.8	28	101	38	e1,040	353	e213	237
5	106	39	19	20	5.3	28	86	37	e1,070	381	197	186
6	98	36	18	20	4.8	28	75	36	e1,040	330	207	131
7	91	35	19	20	4.6	28	71	32	881	321	202	107
8	86	34	19	20	4.1	28	97	29	743	304	239	98
9	82	33	18	20	4.0	45	92	28	819	e738	313	e98
10	77	32	19	20	3.8	69	82	26	e1,020	e885	256	e71
11	78	29	18	20	1.5	61	74	25	e1,300	868	e266	e58
12	89	20	14	19	0.40	55	68	28	1,310	852	e291	e1.5
13	86	20	14	18	0.26	55	67	25	1,180	761	e312	e28
14	81	21	13	19	0.23	54	63	25	979	664	e294	40
15	77	21	6.9	17	0.16	51	59	28	805	e576	e286	72
16	74	21	8.0	16	0.10	49	53	27	e665	495	e250	59
17	71	22	9.6	16	0.06	222	50	27	e572	429	e216	56
18	70	22	8.6	13	0.03	e359	48	27	e475	364	e235	52
19	69	22	8.3	15	0.00	328	46	24	401	332	e221	47
20	68	22	6.6	15	0.00	262	45	23	e347	373	211	47
21	66	22	6.0	15	0.00	221	45	23	305	353	190	53
22	62	23	8.3	15	0.00	186	43	24	314	343	e166	61
23	61	23	11	17	0.00	172	41	23	332	319	e135	70
24	59	21	13	13	0.00	179	37	e9.4	364	294	e156	123
25	55	24	18	12	11	155	35	12	478	291	186	123
26	54	23	27	12	20	137	36	24	e471	354	e136	127
27	51	23	24	12	30	120	65	25	e458	339	e152	200
28	49	23	24	12	33	130	65	25	e486	287	228	193
29	48	23	23	11	---	129	60	24	e563	322	208	252
30	45	22	22	12	---	109	54	24	e532	319	202	292
31	44	---	21	11	---	97	---	29	---	e336	211	---
TOTAL	2,418	824	499.3	510	156.94	3,473	1,975	868.4	19,970	13,868	7,015	3,403.5
MEAN	78.0	27.5	16.1	16.5	5.61	112	65.8	28.0	666	447	226	113
MAX	149	43	27	20	33	359	118	51	1,310	885	313	292
MIN	44	20	6.0	11	0.00	28	35	9.4	114	287	135	1.5
AC-FT	4,800	1,630	990	1,010	311	6,890	3,920	1,720	39,610	27,510	13,910	6,750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	124	31.5	21.2	23.5	25.4	22.4	8.63	9.30	94.5	166	265	228
MAX	603	118	131	65.8	186	136	65.8	107	666	676	717	827
(WY)	(1996)	(1994)	(1998)	(1998)	(1998)	(1998)	(2005)	(1991)	(2005)	(1991)	(2004)	(1995)
MIN	14.7	2.84	0.91	0.02	0.00	1.85	0.00	0.00	1.20	3.90	35.3	67.2
(WY)	(1989)	(1990)	(1991)	(1989)	(1989)	(1990)	(1999)	(1988)	(1998)	(1988)	(1993)	(1997)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	54,981.14			
ANNUAL MEAN	151		96.4	
HIGHEST ANNUAL MEAN			165	1995
LOWEST ANNUAL MEAN			29.6	1993
HIGHEST DAILY MEAN	1,310	Jun 12	2,170	Sep 18, 2000
LOWEST DAILY MEAN	0.00**		0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00**		0.00**	
ANNUAL RUNOFF (AC-FT)	109,100		69,870	
10 PERCENT EXCEEDS	376		284	
50 PERCENT EXCEEDS	52		20	
90 PERCENT EXCEEDS	11		0.31	

e Estimated

** Many days during water years 1989-95, 1997-2002, 2004, 2005.

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.

02291710 BRIARCLIFF DITCH AT MOUTH NEAR ESTERO, FL

LOCATION.--Lat 26°30'21", long 81°51'10", in NW ¼ SW ¼ NW ¼, sec.6, T.46 S., R.24 E., Lee County, Hydrologic Unit 03090204, on left bank 350 ft upstream of culvert structure at confluence with Ten Mile Canal, 1.05 mi north of Alico Road, and 5.3 mi northwest of Estero.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 2004 to September 2005.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). SEE REMARKS.

REMARKS.--Records fair except those for estimated daily discharges, and discharges below 40 cfs, which are poor. Flow is regulated downstream of site by a broad-crested weir and by two vertical lift gates. Flow is regulated upstream by various weir structures. Stage data from station 02291673 Tenmile Canal at Control near Estero, FL is used in the computation of discharge.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	-0.88	0.83	-2.0	0.30	24	2.8	e30	146	e75	45
2	---	---	-0.55	-0.26	-2.5	0.55	34	9.6	e102	141	75	44
3	---	---	1.1	-0.95	-1.2	-0.45	37	4.2	178	136	84	14
4	---	---	-2.2	0.51	-0.95	-0.29	23	3.4	e250	128	e75	80
5	---	---	-1.5	-0.10	-2.2	0.35	21	3.4	---	157	76	52
6	---	---	0.25	-1.1	-1.9	1.0	18	5.7	e266	127	92	12
7	---	---	0.46	0.31	-1.3	1.7	12	1.5	---	113	90	4.8
8	---	---	-2.6	-3.3	-2.4	0.54	27	-1.1	198	102	e82	5.9
9	---	---	-1.9	-2.7	-1.2	8.6	27	0.45	265	e215	89	9.6
10	---	9.1	0.69	-2.1	-1.3	17	13	1.4	---	e245	82	5.6
11	---	3.2	0.17	-0.05	-1.9	12	12	-2.2	---	230	e79	1.2
12	---	2.4	-0.79	e5.4	-1.8	9.3	9.7	0.47	384	195	e85	0.75
13	---	2.7	-1.0	-3.9	-0.90	7.7	12	1.3	335	166	e109	9.0
14	---	1.0	0.85	-1.5	-1.7	7.0	7.7	0.90	275	142	e100	16
15	---	1.2	-0.51	-0.45	-1.3	e8.9	7.3	0.60	231	e130	e86	19
16	---	-0.85	-0.87	-0.17	-1.9	---	3.4	1.2	e209	110	e76	13
17	---	-2.1	-1.7	-0.04	-0.79	---	0.67	0.61	e177	99	e66	9.8
18	---	-1.8	-0.63	-2.0	-1.4	---	5.4	0.31	e145	91	e62	3.5
19	---	0.59	-0.27	-1.9	-0.18	97	8.1	0.99	123	97	e62	9.1
20	---	0.66	-0.65	-1.6	-0.31	77	1.4	-1.9	e109	122	53	7.0
21	---	-1.2	0.37	-1.8	-0.91	e65	-7.2	5.3	104	108	44	12
22	---	0.21	0.20	-1.4	-0.91	51	-2.6	e4.7	122	102	e34	15
23	---	-1.6	-4.3	-0.73	-1.2	52	1.4	e4.0	139	95	e13	15
24	---	-4.4	-1.8	-2.6	-0.43	65	-0.26	0.55	164	89	e46	25
25	---	-0.56	-0.28	-2.2	-0.63	56	-0.44	e4.2	e209	92	43	24
26	---	-1.2	1.7	-0.05	-1.6	51	-1.5	-1.1	e193	103	32	19
27	---	0.85	-0.34	1.8	-0.78	43	11	-1.9	e176	92	47	e42
28	---	-0.21	0.83	0.15	-0.02	45	8.9	-1.9	e193	88	71	e22
29	---	-1.5	-0.76	-0.13	---	46	4.6	e2.7	e179	97	65	e25
30	---	0.47	0.17	-1.2	---	36	2.0	-1.1	e164	82	56	e35
31	---	---	2.0	-4.2	---	28	---	-0.22	---	e80	50	---
TOTAL	---	---	-14.74	-27.43	-35.61	---	319.57	48.86	---	3,920	2,099	595.25
MEAN	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
MAX	---	---	2.0	5.4	-0.02	---	37	9.6	---	245	109	80
MIN	---	---	-4.3	-4.2	-2.5	---	-7.2	-2.2	---	80	13	0.75
AC-FT	---	---	-29	-54	-71	---	634	97	---	7,780	4,160	1,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
MAX	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
(WY)	---	---	(2005)	(2005)	(2005)	---	(2005)	(2005)	---	(2005)	(2005)	(2005)
MIN	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
(WY)	---	---	(2005)	(2005)	(2005)	---	(2005)	(2005)	---	(2005)	(2005)	(2005)

e Estimated

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL

LOCATION.--Lat 26°31'50", long 81°52'30", in NE ¼ SW ¼ SW ¼, sec.26, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090204, on a dock 150 ft east of the weir and gate structure at the east end of Lakes Park, 0.25 mi east of U.S. Highway 41 and 200 ft north of Gladiolus Drive.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 2004 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Zero flow occurs numerous days, during water years 2004 and 2005.

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	---	---	---	---	---	---	---	---	---	---	3.98	4.00
2	---	---	---	---	---	---	---	---	---	---	4.06	3.99
3	---	---	---	---	---	---	---	---	---	---	4.00	3.97
4	---	---	---	---	---	---	---	---	---	---	4.03	3.97
5	---	---	---	---	---	---	---	---	---	---	4.03	4.06
6	---	---	---	---	---	---	---	---	---	---	4.13	4.19
7	---	---	---	---	---	---	---	---	---	---	4.04	4.15
8	---	---	---	---	---	---	---	---	---	---	3.97	4.14
9	---	---	---	---	---	---	---	---	---	---	3.92	4.08
10	---	---	---	---	---	---	---	---	---	---	3.85	4.06
11	---	---	---	---	---	---	---	---	---	---	3.74	4.02
12	---	---	---	---	---	---	---	---	---	---	3.61	3.98
13	---	---	---	---	---	---	---	---	---	---	3.94	3.94
14	---	---	---	---	---	---	---	---	---	---	4.20	3.91
15	---	---	---	---	---	---	---	---	---	---	4.11	3.85
16	---	---	---	---	---	---	---	---	---	---	4.05	3.77
17	---	---	---	---	---	---	---	---	---	---	4.14	3.70
18	---	---	---	---	---	---	---	---	---	---	4.05	3.61
19	---	---	---	---	---	---	---	---	---	---	4.06	3.49
20	---	---	---	---	---	---	---	---	---	---	3.97	3.35
21	---	---	---	---	---	---	---	---	---	---	3.94	3.24
22	---	---	---	---	---	---	---	---	---	---	4.00	3.15
23	---	---	---	---	---	---	---	---	---	---	4.08	3.09
24	---	---	---	---	---	---	---	---	---	---	4.07	3.02
25	---	---	---	---	---	---	---	---	---	---	4.19	2.95
26	---	---	---	---	---	---	---	---	---	---	4.13	2.96
27	---	---	---	---	---	---	---	---	---	---	4.04	2.93
28	---	---	---	---	---	---	---	---	---	3.84	3.97	2.73
29	---	---	---	---	---	---	---	---	---	3.90	3.90	2.51
30	---	---	---	---	---	---	---	---	---	3.97	3.88	2.47
31	---	---	---	---	---	---	---	---	---	3.97	3.91	---
TOTAL	---	---	---	---	---	---	---	---	---	---	123.99	107.28
MEAN	---	---	---	---	---	---	---	---	---	---	4.00	3.58
MAX	---	---	---	---	---	---	---	---	---	---	4.20	4.19
MIN	---	---	---	---	---	---	---	---	---	---	3.61	2.47

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, 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	---	---	---	---	---	---	---	---	---	---	9.5	3.9
2	---	---	---	---	---	---	---	---	---	---	19	3.0
3	---	---	---	---	---	---	---	---	---	---	9.9	0.67
4	---	---	---	---	---	---	---	---	---	---	15	2.2
5	---	---	---	---	---	---	---	---	---	---	17	18
6	---	---	---	---	---	---	---	---	---	---	34	51
7	---	---	---	---	---	---	---	---	---	---	15	42
8	---	---	---	---	---	---	---	---	---	---	5.8	37
9	---	---	---	---	---	---	---	---	---	---	0.51	19
10	---	---	---	---	---	---	---	---	---	---	0.00	14
11	---	---	---	---	---	---	---	---	---	---	0.00	7.1
12	---	---	---	---	---	---	---	---	---	---	0.00	1.8
13	---	---	---	---	---	---	---	---	---	---	e32	0.00
14	---	---	---	---	---	---	---	---	---	---	e51	0.00
15	---	---	---	---	---	---	---	---	---	---	28	0.00
16	---	---	---	---	---	---	---	---	---	---	14	0.00
17	---	---	---	---	---	---	---	---	---	---	37	0.00
18	---	---	---	---	---	---	---	---	---	---	12	0.00
19	---	---	---	---	---	---	---	---	---	---	15	0.00
20	---	---	---	---	---	---	---	---	---	---	1.3	0.00
21	---	---	---	---	---	---	---	---	---	---	0.00	0.00
22	---	---	---	---	---	---	---	---	---	---	12	0.00
23	---	---	---	---	---	---	---	---	---	---	22	0.00
24	---	---	---	---	---	---	---	---	---	---	21	0.00
25	---	---	---	---	---	---	---	---	---	---	50	0.00
26	---	---	---	---	---	---	---	---	---	---	34	0.00
27	---	---	---	---	---	---	---	---	---	---	11	0.00
28	---	---	---	---	---	---	---	---	---	0.00	1.7	0.00
29	---	---	---	---	---	---	---	---	---	2.0	0.00	0.00
30	---	---	---	---	---	---	---	---	---	6.3	0.00	0.00
31	---	---	---	---	---	---	---	---	---	6.0	1.6	---
TOTAL	---	---	---	---	---	---	---	---	---	---	469.31	199.67
MEAN	---	---	---	---	---	---	---	---	---	---	15.1	6.66
MAX	---	---	---	---	---	---	---	---	---	---	51	51
MIN	---	---	---	---	---	---	---	---	---	---	0.00	0.00
AC-FT	---	---	---	---	---	---	---	---	---	---	931	396
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)												
MEAN	---	---	---	---	---	---	---	---	---	---	15.1	6.66
MAX	---	---	---	---	---	---	---	---	---	---	15.1	6.66
(WY)	---	---	---	---	---	---	---	---	---	---	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	15.1	6.66
(WY)	---	---	---	---	---	---	---	---	---	---	(2004)	(2004)

e Estimated

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.12	2.74	2.73	3.57	3.46	4.00	3.99	4.00	4.13	3.87	4.03	3.46
2	3.22	2.74	2.73	3.58	3.45	3.98	4.03	3.99	4.13	3.94	4.02	3.43
3	3.12	2.73	2.73	3.60	3.44	3.98	4.01	3.98	4.28	3.96	4.01	3.41
4	2.96	2.73	2.73	3.61	3.43	3.98	4.00	3.98	4.27	3.94	4.00	3.53
5	2.76	2.73	2.73	3.62	3.41	3.97	3.99	3.98	4.19	3.93	4.06	3.54
6	2.56	2.70	2.72	3.63	3.38	3.97	3.99	3.97	4.13	3.89	4.03	3.52
7	2.39	2.69	2.72	3.63	3.37	3.97	3.99	3.97	4.09	3.83	4.03	3.47
8	2.24	2.66	2.71	3.63	3.36	3.96	4.05	3.97	4.09	3.81	4.07	3.42
9	2.11	2.65	2.70	3.63	3.35	4.04	4.02	3.97	4.11	4.16	4.10	3.37
10	2.05	2.63	2.70	3.62	3.34	4.03	4.00	3.97	4.21	4.10	4.06	3.33
11	2.05	2.62	2.70	3.61	3.32	4.00	4.00	3.99	4.66	4.05	4.03	3.28
12	2.16	2.62	2.68	3.59	3.29	3.99	3.99	3.99	4.25	4.02	4.01	3.23
13	2.26	2.62	2.66	3.58	3.27	3.98	3.99	3.98	4.16	4.00	4.01	3.15
14	2.34	2.62	2.66	3.58	3.25	3.97	3.99	3.98	4.10	4.00	4.01	3.09
15	2.41	2.63	2.63	3.57	3.24	3.97	3.98	4.00	4.05	3.98	4.00	3.03
16	2.45	2.62	2.61	3.56	3.22	3.97	3.97	3.99	3.96	3.98	3.96	2.97
17	2.50	2.61	2.60	3.53	3.21	4.20	3.97	3.98	3.88	3.97	3.91	2.88
18	2.54	2.60	2.60	3.50	3.20	4.16	3.97	3.97	3.76	3.97	3.88	2.80
19	2.58	2.59	2.59	3.48	3.17	4.09	3.99	3.97	3.59	3.98	3.96	2.70
20	2.61	2.59	2.58	3.47	3.15	4.06	3.99	3.97	3.36	4.00	3.91	2.61
21	2.64	2.58	2.57	3.46	3.13	4.03	3.99	3.97	3.23	3.98	3.84	2.59
22	2.66	2.59	2.57	3.46	3.12	4.01	3.98	3.97	3.21	3.97	3.76	2.63
23	2.67	2.59	2.59	3.49	3.10	4.02	3.97	3.97	3.25	3.95	3.69	2.66
24	2.69	2.58	2.64	3.49	3.09	4.02	3.97	3.95	3.43	3.95	3.64	3.47
25	2.71	2.64	2.74	3.49	3.33	4.01	3.96	3.93	3.80	4.05	3.61	3.84
26	2.73	2.66	3.12	3.49	3.51	4.00	3.96	3.92	3.69	4.11	3.56	3.99
27	2.73	2.67	3.25	3.49	3.76	4.00	4.10	3.94	3.51	4.04	3.55	4.06
28	2.73	2.71	3.41	3.49	3.98	4.03	4.02	3.95	3.42	4.01	3.62	4.03
29	2.73	2.72	3.47	3.49	---	4.02	4.00	3.96	3.59	4.01	3.61	4.06
30	2.73	2.72	3.50	3.49	---	4.00	3.99	3.96	3.78	4.04	3.58	4.05
31	2.74	---	3.54	3.48	---	3.99	---	4.00	---	4.06	3.53	---
TOTAL	80.19	79.58	86.91	109.91	93.33	124.40	119.85	123.12	116.31	123.55	120.08	99.60
MEAN	2.59	2.65	2.80	3.55	3.33	4.01	4.00	3.97	3.88	3.99	3.87	3.32
MAX	3.22	2.74	3.54	3.63	3.98	4.20	4.10	4.00	4.66	4.16	4.10	4.06
MIN	2.05	2.58	2.57	3.46	3.09	3.96	3.96	3.92	3.21	3.81	3.53	2.59

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	3.7	5.1	2.3	31	0.00	5.8	0.00
2	0.00	0.00	0.00	0.00	0.00	1.4	11	1.4	29	2.4	3.9	0.00
3	0.00	0.00	0.00	0.00	0.00	2.4	8.0	0.97	e66	3.9	2.3	0.00
4	0.00	0.00	0.00	0.00	0.00	2.2	5.6	1.8	63	1.9	1.5	0.00
5	0.00	0.00	0.00	0.00	0.00	1.4	5.0	1.1	46	0.04	11	0.00
6	0.00	0.00	0.00	0.00	0.00	1.4	4.2	0.50	33	0.00	6.4	0.00
7	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.00	24	0.00	6.1	0.00
8	0.00	0.00	0.00	0.00	0.00	0.44	13	0.07	26	0.78	18	0.00
9	0.00	0.00	0.00	0.00	0.00	14	8.2	0.10	29	45	23	0.00
10	0.00	0.00	0.00	0.00	0.00	14	5.7	0.39	56	30	12	0.00
11	0.00	0.00	0.00	0.00	0.00	9.5	4.6	2.9	262	16	5.9	0.00
12	0.00	0.00	0.00	0.00	0.00	8.4	3.3	3.2	65	11	3.0	0.00
13	0.00	0.00	0.00	0.00	0.00	7.5	3.3	1.5	41	7.6	3.4	0.00
14	0.00	0.00	0.00	0.00	0.00	5.9	2.4	1.6	27	6.6	2.4	0.00
15	0.00	0.00	0.00	0.00	0.00	5.7	1.2	4.3	17	4.8	1.7	0.00
16	0.00	0.00	0.00	0.00	0.00	5.3	0.62	4.1	4.3	4.1	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	59	0.01	2.7	0.00	2.3	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	45	0.56	1.6	0.00	1.8	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	27	3.0	1.2	0.00	3.1	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	21	3.5	1.1	0.00	5.6	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	14	2.6	1.2	0.00	3.0	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	11	0.29	1.3	0.00	0.63	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	13	0.00	0.89	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	1.8	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	18	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	8.7	0.00	0.00	0.00	27	0.00	12
27	0.00	0.00	0.00	0.00	0.00	8.3	20	0.00	0.00	8.5	0.00	15
28	0.00	0.00	0.00	0.00	2.4	13	6.0	0.50	0.00	3.7	0.00	11
29	0.00	0.00	0.00	0.00	---	11	2.9	1.4	0.00	4.5	0.00	15
30	0.00	0.00	0.00	0.00	---	7.6	1.8	1.4	0.00	13	0.00	13
31	0.00	---	0.00	0.00	---	6.0	---	7.3	---	12	0.00	---
TOTAL	0.00	0.00	0.00	0.00	2.40	353.24	126.38	46.82	819.30	239.05	106.40	66.00
MEAN	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	3.43	2.20
MAX	0.00	0.00	0.00	0.00	2.4	59	20	7.3	262	45	23	15
MIN	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	4.8	701	251	93	1,630	474	211	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	9.29	4.43
MAX	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	15.1	6.66
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	3.43	2.20
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	1,759.59			
ANNUAL MEAN	4.82		4.82	
HIGHEST ANNUAL MEAN			4.82	2005
LOWEST ANNUAL MEAN			4.82	2005
HIGHEST DAILY MEAN	262	Jun 11	262	Jun 11, 2005
LOWEST DAILY MEAN	0.00**		0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00**		0.00**	
MAXIMUM PEAK FLOW	633	Jun 11	633	Jun 11, 2005
MAXIMUM PEAK STAGE	5.24	Jun 11	5.24	Jun 11, 2005
ANNUAL RUNOFF (AC-FT)	3,490		3,490	
10 PERCENT EXCEEDS	13		13	
50 PERCENT EXCEEDS	0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00	

e Estimated

** Many days during water year 2004, 2005.

02291717 LAKE OUTFALL TO HENDRY CREEK AT SUMMERLIN ROAD NEAR FT. MYERS, FL

LOCATION.--Lat 26°31'55", long 81°53'05", in NE ¼ SW ¼ SW ¼, sec.26, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090204, on bridge 50 ft east of weir and gate structure at west end of Lakes Park, 0.5 mi from entrance to Lakes Park off Gladiolus Drive, 0.5 mi west of intersection of Gladiolus Drive and U.S. Highway 41.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2004 to September 2005. Discontinued.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Discharge for all periods when the vertical gates are opened are not included. Days of zero flow occurred during water years 2004 and 2005. Storm surge and high tide caused by storms on June 3, 2005, created backwater conditions.

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	---	---	---	---	---	---	---	---	---	---	---	2.86
2	---	---	---	---	---	---	---	---	---	---	---	2.84
3	---	---	---	---	---	---	---	---	---	---	2.33	2.79
4	---	---	---	---	---	---	---	---	---	---	2.41	2.75
5	---	---	---	---	---	---	---	---	---	---	2.41	2.77
6	---	---	---	---	---	---	---	---	---	---	2.48	2.98
7	---	---	---	---	---	---	---	---	---	---	2.46	3.05
8	---	---	---	---	---	---	---	---	---	---	2.42	3.07
9	---	---	---	---	---	---	---	---	---	---	2.36	3.04
10	---	---	---	---	---	---	---	---	---	---	2.30	3.01
11	---	---	---	---	---	---	---	---	---	---	2.23	2.94
12	---	---	---	---	---	---	---	---	---	---	2.17	2.86
13	---	---	---	---	---	---	---	---	---	---	2.34	2.78
14	---	---	---	---	---	---	---	---	---	---	3.10	2.70
15	---	---	---	---	---	---	---	---	---	---	3.15	2.64
16	---	---	---	---	---	---	---	---	---	---	3.10	2.59
17	---	---	---	---	---	---	---	---	---	---	3.14	2.51
18	---	---	---	---	---	---	---	---	---	---	3.12	2.44
19	---	---	---	---	---	---	---	---	---	---	3.06	2.36
20	---	---	---	---	---	---	---	---	---	---	2.97	2.28
21	---	---	---	---	---	---	---	---	---	---	2.88	2.21
22	---	---	---	---	---	---	---	---	---	---	2.82	2.15
23	---	---	---	---	---	---	---	---	---	---	2.87	2.09
24	---	---	---	---	---	---	---	---	---	---	2.88	2.04
25	---	---	---	---	---	---	---	---	---	---	2.99	1.98
26	---	---	---	---	---	---	---	---	---	---	3.01	1.98
27	---	---	---	---	---	---	---	---	---	---	2.98	2.04
28	---	---	---	---	---	---	---	---	---	---	2.93	2.03
29	---	---	---	---	---	---	---	---	---	---	2.87	1.98
30	---	---	---	---	---	---	---	---	---	---	2.80	1.98
31	---	---	---	---	---	---	---	---	---	---	2.78	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	75.74
MEAN	---	---	---	---	---	---	---	---	---	---	---	2.52
MAX	---	---	---	---	---	---	---	---	---	---	---	3.07
MIN	---	---	---	---	---	---	---	---	---	---	---	1.98

02291717 LAKE OUTFALL TO HENDRY CREEK AT SUMMERLIN ROAD NEAR FT. MYERS, 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	---	---	---	---	---	---	---	---	---	---	---	0.00
2	---	---	---	---	---	---	---	---	---	---	---	0.00
3	---	---	---	---	---	---	---	---	---	---	0.00	0.00
4	---	---	---	---	---	---	---	---	---	---	0.00	0.00
5	---	---	---	---	---	---	---	---	---	---	0.00	0.00
6	---	---	---	---	---	---	---	---	---	---	0.00	0.02
7	---	---	---	---	---	---	---	---	---	---	0.00	0.12
8	---	---	---	---	---	---	---	---	---	---	0.00	0.20
9	---	---	---	---	---	---	---	---	---	---	0.00	0.06
10	---	---	---	---	---	---	---	---	---	---	0.00	0.02
11	---	---	---	---	---	---	---	---	---	---	0.00	0.00
12	---	---	---	---	---	---	---	---	---	---	0.00	0.00
13	---	---	---	---	---	---	---	---	---	---	0.00	0.00
14	---	---	---	---	---	---	---	---	---	---	1.3	0.00
15	---	---	---	---	---	---	---	---	---	---	1.6	0.00
16	---	---	---	---	---	---	---	---	---	---	0.55	0.00
17	---	---	---	---	---	---	---	---	---	---	1.2	0.00
18	---	---	---	---	---	---	---	---	---	---	0.93	0.00
19	---	---	---	---	---	---	---	---	---	---	0.20	0.00
20	---	---	---	---	---	---	---	---	---	---	0.00	0.00
21	---	---	---	---	---	---	---	---	---	---	0.00	0.00
22	---	---	---	---	---	---	---	---	---	---	0.00	0.00
23	---	---	---	---	---	---	---	---	---	---	0.00	0.00
24	---	---	---	---	---	---	---	---	---	---	0.00	0.00
25	---	---	---	---	---	---	---	---	---	---	0.01	0.00
26	---	---	---	---	---	---	---	---	---	---	0.02	0.00
27	---	---	---	---	---	---	---	---	---	---	0.00	0.00
28	---	---	---	---	---	---	---	---	---	---	0.00	0.00
29	---	---	---	---	---	---	---	---	---	---	0.00	0.00
30	---	---	---	---	---	---	---	---	---	---	0.00	0.00
31	---	---	---	---	---	---	---	---	---	---	0.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	0.42
MEAN	---	---	---	---	---	---	---	---	---	---	---	0.01
MAX	---	---	---	---	---	---	---	---	---	---	---	0.20
MIN	---	---	---	---	---	---	---	---	---	---	---	0.00

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

MEAN	---	---	---	---	---	---	---	---	---	---	---	0.01
MAX	---	---	---	---	---	---	---	---	---	---	---	0.01
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	---	0.01
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)

02291717 LAKE OUTFALL TO HENDRY CREEK AT SUMMERLIN ROAD NEAR FT. MYERS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.12	1.42	1.27	1.24	1.22	1.43	2.46	2.66	2.66	3.08	2.18	1.75
2	2.07	1.41	1.26	1.23	1.21	1.42	2.51	2.68	2.86	3.07	2.22	1.74
3	2.00	1.40	1.24	1.22	1.21	1.40	2.54	2.68	3.15	3.07	2.22	1.73
4	1.94	1.39	1.22	1.22	1.21	1.42	2.54	2.67	3.52	3.05	2.21	1.75
5	1.88	1.39	1.20	1.21	1.20	1.41	2.53	2.67	3.51	3.02	2.24	1.73
6	1.82	1.36	1.19	1.22	1.20	1.40	2.52	2.67	3.39	2.99	2.24	1.71
7	1.75	1.34	1.18	1.22	1.20	1.40	2.52	2.66	3.24	2.96	2.26	1.68
8	1.69	1.32	1.18	1.22	1.20	1.40	2.60	2.65	3.14	2.95	2.31	1.66
9	1.65	1.30	1.18	1.22	1.21	1.49	2.61	2.64	3.12	3.17	2.40	1.64
10	1.63	1.29	1.18	1.21	1.22	1.58	2.61	2.63	3.22	3.27	2.42	1.62
11	1.63	1.27	1.18	1.21	1.21	1.58	2.60	2.62	3.75	3.25	2.34	1.59
12	1.69	1.28	1.16	1.22	1.20	1.58	2.59	2.62	3.76	3.05	2.23	1.56
13	1.69	1.28	1.15	1.22	1.19	1.57	2.59	2.61	3.62	2.86	2.14	1.55
14	1.68	1.30	1.15	1.24	1.19	1.57	2.58	2.60	3.42	2.70	2.06	1.54
15	1.67	1.29	1.12	1.24	1.19	1.57	2.57	2.61	3.27	2.58	2.00	1.53
16	1.64	1.28	1.11	1.23	1.19	1.56	2.55	2.60	3.20	2.47	1.93	1.52
17	1.62	1.26	1.10	1.22	1.19	1.81	2.53	2.59	3.14	2.37	1.91	1.51
18	1.60	1.25	1.09	1.20	1.18	2.17	2.51	2.57	3.09	2.27	1.90	1.51
19	1.59	1.25	1.09	1.19	1.17	2.23	2.50	2.55	3.04	2.20	1.91	1.50
20	1.58	1.24	1.08	1.19	1.16	2.26	2.49	2.54	2.98	2.16	1.89	1.47
21	1.56	1.24	1.06	1.19	1.15	2.26	2.48	2.52	2.93	2.09	1.87	1.48
22	1.55	1.23	1.06	1.20	1.15	2.27	2.47	2.51	2.91	2.06	1.86	1.52
23	1.52	1.24	1.07	1.24	1.14	2.30	2.46	2.50	2.94	2.03	1.86	1.55
24	1.50	1.24	1.11	1.22	1.14	2.36	2.45	2.49	3.05	2.02	1.84	1.68
25	1.49	1.29	1.16	1.21	1.24	2.38	2.43	2.48	3.21	2.06	1.81	1.67
26	1.48	1.30	1.27	1.21	1.28	2.39	2.41	2.47	3.26	2.16	1.77	1.70
27	1.46	1.29	1.26	1.22	1.36	2.39	2.60	2.46	3.25	2.16	1.79	1.88
28	1.44	1.31	1.25	1.22	1.41	2.44	2.65	2.45	3.20	2.14	1.83	1.95
29	1.43	1.29	1.24	1.22	---	2.46	2.65	2.43	3.15	2.12	1.82	2.00
30	1.43	1.28	1.24	1.22	---	2.46	2.65	2.42	3.12	2.12	1.80	2.04
31	1.42	---	1.24	1.22	---	2.47	---	2.46	---	2.17	1.78	---
TOTAL	51.22	39.03	36.29	37.74	33.82	58.43	76.20	79.71	96.10	79.67	63.04	49.76
MEAN	1.65	1.30	1.17	1.22	1.21	1.88	2.54	2.57	3.20	2.57	2.03	1.66
MAX	2.12	1.42	1.27	1.24	1.41	2.47	2.65	2.68	3.76	3.27	2.42	2.04
MIN	1.42	1.23	1.06	1.19	1.14	1.40	2.41	2.42	2.66	2.02	1.77	1.47

02291717 LAKE OUTFALL TO HENDRY CREEK AT SUMMERLIN ROAD NEAR FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e13	0.35	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58	0.18	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	0.07	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.5	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	4.3	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92	---	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	---	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55	---	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42	---	0.00	0.00
15	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
17	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
19	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
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
22	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
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8	---	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.6	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.3	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	2.3	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	1.2	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.01
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.01
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	---	---	(2005)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	---	---	(2005)	(2005)

SUMMARY STATISTICS — WATER YEARS 2004 - 2005

HIGHEST DAILY MEAN	92	Jun 11, 2005
LOWEST DAILY MEAN	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00**	

e Estimated

** Many days during water years 2004, 2005.

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

LOCATION.--Lat 26°43'25", long 81°41'55", in SW 1/4 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 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, 3.93 ft Mar. 18; minimum, 2.23 ft Mar. 29.

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

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.73 ft Dec. 26; minimum, -1.42 ft Dec. 15.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.15	3.05	---	3.41	3.06	3.05	---	3.11	3.16	2.94	2.97	3.02
2	2.79	3.00	2.94	3.40	3.11	3.10	---	3.04	3.22	3.09	3.05	3.03
3	2.82	2.87	3.02	3.37	3.08	3.08	---	3.11	3.27	3.10	3.08	2.91
4	2.87	2.93	3.08	3.14	3.09	3.23	---	3.14	3.04	3.04	2.94	2.95
5	2.82	---	3.13	3.03	3.04	3.30	---	2.98	3.04	3.01	2.89	3.04
6	2.84	2.87	3.22	3.02	2.99	3.13	3.16	2.89	3.09	2.90	2.98	2.94
7	2.71	3.07	3.05	3.13	3.15	3.30	3.27	2.81	3.14	2.84	3.04	2.98
8	2.83	2.98	2.93	3.08	3.28	3.24	3.10	3.06	3.17	2.70	3.22	3.00
9	2.85	---	2.94	3.10	---	3.15	3.02	3.05	3.02	2.82	---	2.95
10	2.88	3.01	3.15	3.13	---	3.21	3.25	3.11	3.06	3.44	---	2.98
11	2.87	2.99	3.23	3.18	2.92	3.10	3.28	3.16	3.19	---	2.97	3.14
12	2.96	3.12	3.28	3.22	3.08	3.07	3.10	3.21	2.94	---	2.98	3.13
13	2.90	---	3.24	3.11	3.30	3.06	3.05	3.03	2.99	---	2.96	3.08
14	2.86	2.75	3.09	3.14	2.92	2.98	3.09	3.23	3.01	---	3.00	3.10
15	2.92	2.91	2.83	3.04	3.06	---	3.20	3.17	---	---	2.96	---
16	2.74	3.18	2.91	3.07	3.12	3.15	3.20	3.19	---	---	---	2.99
17	2.85	2.92	3.03	3.05	2.98	3.27	3.14	3.19	---	---	2.89	3.16
18	2.93	2.94	3.09	3.04	3.07	3.24	3.17	3.13	---	---	2.94	2.97
19	2.77	---	2.98	2.89	3.10	3.11	3.18	2.99	3.23	---	3.02	3.06
20	2.89	3.05	2.87	2.90	3.24	2.99	3.11	3.26	3.08	---	3.07	2.79
21	2.75	3.09	2.93	3.41	3.31	---	3.24	3.26	2.85	---	2.97	2.87
22	2.65	---	3.30	3.33	3.08	---	3.17	3.18	3.29	---	3.06	3.20
23	2.78	3.25	3.23	3.21	2.96	---	3.14	3.17	3.21	---	2.93	3.03
24	2.86	---	3.36	3.13	2.91	---	3.13	3.05	3.23	---	---	3.09
25	2.90	3.12	3.18	3.33	3.23	---	2.99	3.17	3.25	3.04	2.71	3.00
26	2.80	---	3.21	3.36	3.02	---	2.95	2.74	3.18	2.98	2.72	3.12
27	2.85	---	3.15	2.99	3.17	2.98	3.17	3.18	3.10	3.05	2.79	3.04
28	2.93	3.04	3.27	2.99	2.74	3.09	3.07	3.26	3.17	2.99	2.76	3.07
29	2.93	2.97	3.33	2.92	---	2.74	3.09	3.08	3.14	3.00	2.98	---
30	3.02	---	3.35	3.15	---	3.37	3.14	3.07	3.05	3.04	2.87	---
31	3.07	---	3.34	3.23	---	2.83	---	3.03	---	2.90	2.86	---
TOTAL	88.79	---	---	97.50	---	---	---	96.05	---	---	---	---
MEAN	2.86	---	---	3.15	---	---	---	3.10	---	---	---	---
MAX	3.15	---	---	3.41	---	---	---	3.26	---	---	---	---
MIN	2.65	---	---	2.89	---	---	---	2.74	---	---	---	---

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

DOWNSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.79	1.40	2.43	0.97	---	---	1.17	-0.22	1.69	0.25	1.24	0.15
2	2.29	1.00	2.33	0.93	---	---	1.21	-0.15	1.79	0.24	1.13	-0.26
3	2.12	0.91	2.14	0.79	1.36	-0.06	1.21	-0.16	2.37	0.16	0.75	-0.47
4	2.21	1.01	2.02	1.01	1.38	0.02	1.41	0.00	2.01	0.04	1.28	-0.89
5	2.00	0.79	2.31	0.73	1.20	-0.10	1.80	0.00	1.68	-0.55	1.52	-0.40
6	1.81	0.72	1.44	0.17	1.49	0.33	1.95	0.05	2.27	-0.11	1.67	-0.28
7	1.36	0.32	1.43	0.63	1.72	0.25	1.94	0.08	2.45	0.34	1.75	-0.04
8	1.72	0.62	1.81	0.74	1.80	0.16	1.96	0.08	2.63	0.70	2.26	0.57
9	2.23	1.21	---	---	1.91	-0.06	2.01	0.04	---	---	1.52	-0.04
10	2.40	0.92	1.74	0.38	2.20	0.52	1.87	0.05	---	---	1.32	-0.14
11	2.72	1.30	2.18	0.49	2.44	0.49	2.00	0.13	1.65	0.08	2.11	0.06
12	2.59	1.46	2.57	0.94	1.50	-0.46	2.24	0.32	1.46	0.05	1.59	0.27
13	2.63	1.40	2.98	1.13	1.81	-0.16	---	0.55	2.19	0.30	1.74	0.19
14	2.50	1.13	2.43	0.39	2.05	-0.19	2.21	0.35	1.99	0.73	1.55	0.21
15	2.74	1.53	1.43	-0.56	0.26	-1.42	0.86	-0.45	1.81	0.46	1.62	-0.09
16	2.41	0.84	1.96	0.07	0.54	-0.78	0.64	-0.30	1.95	0.19	2.46	0.02
17	2.31	0.85	1.98	0.13	0.99	-0.26	0.48	-0.75	2.04	0.31	2.21	0.28
18	2.51	0.93	1.86	0.23	1.28	0.03	0.43	-0.86	1.60	-0.17	1.52	0.53
19	2.52	1.15	---	---	1.33	0.11	1.50	-0.77	1.29	-0.51	1.24	0.00
20	2.54	1.15	1.85	0.67	1.33	-0.65	2.01	-0.12	1.56	-0.26	1.65	0.14
21	2.20	0.88	1.91	0.67	1.29	-0.56	2.23	0.45	1.73	0.15	---	---
22	1.79	0.74	1.96	0.63	1.86	-0.21	2.24	0.40	1.76	0.12	---	---
23	2.08	0.92	2.29	0.74	2.00	0.33	2.62	0.26	1.60	0.00	---	---
24	2.21	1.03	2.64	0.87	1.93	0.07	1.06	-0.73	1.83	0.52	---	---
25	2.30	1.24	2.95	0.89	1.93	-0.54	1.66	-0.02	2.03	0.43	---	---
26	2.28	1.07	---	---	3.73	-0.10	2.00	0.50	1.70	0.23	---	---
27	2.18	0.80	---	---	0.65	-1.02	2.16	0.55	2.97	0.25	2.38	0.54
28	2.21	0.80	---	---	0.46	-0.99	1.82	0.28	2.26	1.03	2.46	0.83
29	2.36	0.81	---	---	0.97	-0.59	1.37	0.04	---	---	1.70	0.35
30	2.50	0.90	---	---	1.11	-0.53	2.04	0.75	---	---	1.96	0.11
31	2.53	0.98	---	---	1.44	-0.22	1.76	0.57	---	---	2.24	0.34
MONTH	2.79	0.32	2.98	-0.56	3.73	-1.42	2.62	-0.86	2.97	-0.55	2.46	-0.89
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	2.35	0.46	2.29	1.04	2.39	1.18	2.38	1.03	2.43	0.67
2	---	---	2.03	0.50	1.99	0.81	2.66	1.19	2.39	1.01	2.60	0.63
3	---	---	1.67	0.11	3.08	1.14	2.73	1.23	2.49	0.97	2.18	0.82
4	---	---	2.32	0.79	2.39	1.22	2.43	1.22	2.40	1.03	1.87	0.69
5	---	---	2.55	0.91	2.63	1.21	2.52	1.15	2.35	0.94	1.80	0.52
6	1.79	0.30	2.18	0.49	2.48	1.13	2.70	1.10	2.29	0.99	2.03	0.53
7	2.48	0.81	1.53	0.09	2.47	1.04	2.60	1.21	2.38	0.96	2.20	0.90
8	2.52	1.11	2.20	0.14	2.63	1.18	2.48	1.05	2.53	1.19	2.32	1.14
9	2.11	0.68	2.29	0.69	2.33	1.13	2.92	0.12	---	---	2.32	1.13
10	1.74	0.37	2.47	0.66	2.26	0.77	3.70	2.77	---	---	2.18	0.76
11	2.18	0.24	2.31	0.73	3.03	1.69	---	---	2.08	1.09	2.11	0.55
12	2.58	0.60	2.06	0.45	2.58	1.75	---	---	2.22	0.97	2.08	0.64
13	2.26	0.90	1.60	0.38	2.01	1.50	---	---	2.10	0.89	2.58	0.62
14	2.29	0.34	2.14	0.02	1.98	1.37	---	---	2.34	0.72	2.85	0.75
15	1.31	0.10	1.82	0.44	---	---	---	---	2.29	0.88	---	---
16	0.86	-0.73	1.73	0.27	---	---	---	---	---	---	2.80	0.80
17	1.07	-0.56	1.38	0.25	---	---	---	---	2.57	0.92	2.62	0.84
18	1.17	-0.23	1.37	0.11	---	---	---	---	3.16	0.94	2.43	0.93
19	1.49	0.14	1.37	0.14	2.28	0.67	---	---	2.80	1.13	2.21	0.67
20	1.72	0.49	2.00	0.57	2.29	0.64	---	---	2.70	1.10	1.52	-0.33
21	1.99	0.64	2.45	0.69	2.19	0.62	---	---	2.52	0.99	2.61	-0.32
22	2.15	0.55	2.31	0.68	2.56	0.51	---	---	2.33	1.07	2.92	0.92
23	2.51	0.74	2.50	0.60	2.57	0.80	---	---	2.27	0.96	2.68	0.88
24	2.03	0.39	2.63	0.65	2.37	0.85	---	---	2.23	1.09	2.54	0.60
25	1.86	0.18	2.97	0.70	2.88	0.82	2.10	0.97	2.12	0.45	2.11	0.45
26	2.68	0.11	2.57	0.66	2.32	1.15	2.03	1.13	0.45	-0.88	2.11	0.52
27	2.65	0.42	2.57	0.43	1.97	1.18	2.02	1.16	2.70	0.15	2.38	0.90
28	1.59	0.18	2.40	0.40	1.98	0.96	1.99	0.94	2.83	1.35	2.54	1.20
29	2.31	-0.06	1.98	0.48	2.27	1.26	2.08	0.95	2.74	1.24	---	---
30	2.46	0.43	2.08	0.49	2.18	1.11	2.06	0.94	2.84	1.15	---	---
31	---	---	2.21	0.84	---	---	2.23	0.97	2.48	0.74	---	---
MONTH	2.68	-0.73	2.97	0.02	3.08	0.51	3.70	0.12	3.16	-0.88	2.92	-0.33
YEAR	3.73	-1.42										

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13,000	7,310	---	0.00	1,260	1,940	1,990	1,200	5,980	10,700	11,000	4,920
2	11,300	7,270	---	277	936	820	---	670	7,750	10,300	9,930	4,850
3	10,400	7,210	2,250	286	862	1,270	---	2,680	8,800	10,800	9,740	5,720
4	9,710	6,840	2,190	143	973	661	---	7,250	10,400	11,000	9,730	5,100
5	9,830	6,880	1,850	0.00	497	1,180	---	8,080	9,790	10,700	9,450	3,980
6	10,400	6,800	2,160	0.00	751	955	1,320	7,160	9,550	9,840	10,000	4,900
7	10,000	7,170	1,180	964	2,190	136	4,340	4,660	8,680	9,500	10,300	7,660
8	10,200	7,090	454	2,580	2,720	1,040	6,500	5,870	10,900	9,600	13,300	9,090
9	10,600	e6,420	204	3,280	2,620	1,560	4,650	5,810	9,740	16,900	12,900	8,930
10	8,130	4,600	84	3,270	1,480	3,180	4,370	4,890	13,100	---	---	7,560
11	6,940	4,000	0.00	1,900	1,360	2,830	4,360	4,720	12,800	---	10,800	5,600
12	9,810	5,390	0.00	1,920	981	2,880	2,740	3,800	12,700	---	9,960	4,120
13	9,430	6,600	994	e1,830	1,120	1,850	1,600	2,240	12,800	---	9,030	1,900
14	9,480	5,500	2,350	1,620	648	1,410	493	1,070	12,100	---	9,180	1,410
15	9,010	3,960	3,120	1,760	63	1,290	264	750	---	---	9,420	---
16	9,420	3,110	2,750	1,640	157	1,420	1,350	397	---	---	---	1,700
17	9,270	1,830	1,600	902	336	5,280	4,070	146	---	---	7,970	4,750
18	9,610	424	1,630	508	808	10,300	5,380	1,200	---	---	7,590	6,450
19	9,350	e242	801	114	902	7,960	4,960	3,600	4,580	---	8,660	6,690
20	9,890	1,040	566	276	875	6,470	4,740	4,550	4,450	---	7,910	6,200
21	9,820	2,770	130	987	771	---	3,430	4,480	4,260	---	7,910	3,640
22	9,370	1,970	652	1,250	587	---	2,820	4,600	4,870	---	7,880	3,880
23	9,360	2,900	324	1,100	531	---	1,720	4,740	7,660	---	7,120	2,520
24	9,050	1,880	408	892	407	---	610	2,550	9,330	---	8,340	1,570
25	9,340	1,680	386	758	1,780	---	777	1,630	7,250	11,700	8,840	1,450
26	8,990	---	753	1,550	2,490	---	524	1,280	9,510	10,100	2,820	2,500
27	8,500	---	751	3,090	2,580	3,650	3,090	996	9,050	10,400	3,940	6,420
28	7,670	---	332	3,430	2,440	5,170	1,500	1,830	10,300	10,700	7,610	7,910
29	7,420	---	0.00	2,460	---	2,190	979	3,950	11,100	10,400	9,330	8,110
30	7,260	---	0.00	1,970	---	2,760	1,170	4,150	9,050	11,100	9,160	---
31	7,490	---	0.00	2,670	---	2,290	---	4,770	---	11,100	6,730	---
TOTAL	290,050	---	---	43,427.00	33,125	---	---	105,719	---	---	---	---
MEAN	9,356	---	---	1,401	1,183	---	---	3,410	---	---	---	---
MAX	13,000	---	---	3,430	2,720	---	---	8,080	---	---	---	---
MIN	6,940	---	---	0.00	63	---	---	146	---	---	---	---
AC-FT	575,300	---	---	86,140	65,700	---	---	209,700	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	2,298	1,082	743	1,243	1,389	1,633	1,215	832	2,035	2,473	2,913	2,703
MAX	10,390	6,869	5,519	7,486	10,080	10,320	8,198	3,410	6,053	7,376	10,750	9,357
(WY)	(1996)	(1970)	(1995)	(1970)	(1983)	(1983)	(1983)	(2005)	(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	WATER YEARS 1966 - 2005	
ANNUAL MEAN	1,638	
HIGHEST ANNUAL MEAN	5,203	1970
LOWEST ANNUAL MEAN	296	1981
HIGHEST DAILY MEAN	21,400	Mar 27, 1970
LOWEST DAILY MEAN	0.00	May 17, 1981
ANNUAL SEVEN-DAY MINIMUM	0.00	May 20, 1981
ANNUAL RUNOFF (AC-FT)	1,187,000	
10 PERCENT EXCEEDS	5,280	
50 PERCENT EXCEEDS	504	
90 PERCENT EXCEEDS	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.

02293214 MEADE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°38'10", long 81°55'48", in NE ¼ NW ¼ NE ¼ sec.20 T.44 S., R.24 E., Lee County, Hydrologic Unit 0300205, near left bank on upstream side of containment wall, 20 ft east of bridge wingwall, on Viscaya Parkway, 100 ft west of SE 21st Avenue, and 1.2 mi upstream from Caloosahatchee River at Cape Coral.

DRAINAGE AREA.--Indeterminate.

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

REVISED RECORDS.--WDR FL-99-2A, 1997, 1998.

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

REMARKS.--No estimated discharges. Records are poor. Zero flow occurs for numerous days, during most water years. Station subjected to major shifting of the stage discharge relationship based on heavy debris buildup on carp grates and installation/removal of stoplogs, which are installed on top of the weir. Discharge for the 2004 water year that was unavailable at the time of WDR FL-04-2A publication is published in the 2005 WDR FL-05-2A report.

ANNUAL MEAN and RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

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	15	0.09	0.98	5.2	4.8	4.5	1.6	15	0.03	4.2	54	27
2	13	0.04	1.1	5.0	4.2	4.5	1.1	7.6	0.02	4.8	79	20
3	11	1.1	1.4	4.8	3.8	4.1	0.95	6.0	0.01	5.0	73	16
4	8.7	2.1	1.5	4.5	3.3	4.0	0.94	5.2	0.03	7.3	127	16
5	7.0	2.1	1.9	4.0	2.9	3.7	0.95	4.3	0.02	7.6	113	19
6	5.5	3.3	1.7	3.9	2.8	3.5	0.90	3.9	0.10	8.6	103	28
7	4.5	3.7	1.1	3.8	2.4	3.5	0.95	3.5	4.3	8.0	78	25
8	4.3	3.3	1.3	4.3	1.8	2.9	1.0	2.7	12	7.7	64	21
9	3.9	3.2	1.5	4.2	1.7	2.5	1.4	2.5	13	7.2	49	19
10	3.5	4.2	2.4	3.7	2.0	2.3	1.5	2.5	9.3	7.2	35	18
11	3.2	5.3	2.6	2.8	2.0	2.1	1.3	2.5	7.7	14	21	12
12	3.0	5.7	2.5	2.8	2.0	2.5	5.8	2.4	7.1	26	14	9.0
13	3.0	6.5	2.1	2.5	2.0	2.5	5.4	2.1	10	22	45	7.2
14	3.0	6.8	13	2.5	1.8	2.5	3.9	2.0	29	20	64	6.2
15	2.8	6.7	12	2.5	3.6	2.5	3.0	1.4	24	19	38	5.2
16	1.9	6.9	9.6	2.6	2.6	2.8	3.0	1.5	22	18	22	5.0
17	1.8	6.4	17	2.5	2.1	2.6	2.8	1.7	13	20	18	5.0
18	1.8	6.3	13	11	1.7	2.1	2.5	1.5	10	19	16	5.1
19	1.7	9.7	8.0	11	1.8	1.9	2.4	1.7	6.0	21	12	4.7
20	3.6	7.2	6.2	7.0	2.3	1.6	2.5	1.8	4.3	18	7.3	4.5
21	3.1	4.9	5.6	5.2	2.4	1.7	2.4	1.5	3.1	15	2.8	5.6
22	2.2	4.0	5.5	4.3	2.5	2.1	2.2	1.1	2.5	17	e0.23	6.9
23	1.6	3.2	5.5	3.8	2.2	1.7	2.3	0.52	2.2	21	e1.9	7.3
24	1.3	3.0	6.4	3.5	2.2	1.5	2.0	0.49	3.6	21	6.2	6.8
25	0.98	3.0	6.6	3.4	7.9	1.6	1.9	0.39	3.5	24	34	5.7
26	0.90	2.9	6.4	3.2	11	1.9	1.7	0.27	2.7	27	21	8.1
27	0.90	2.6	6.0	3.6	7.6	1.9	1.6	0.28	2.5	28	34	9.7
28	0.82	2.4	5.7	3.0	5.8	1.9	1.3	0.24	3.1	41	59	6.1
29	1.6	1.2	5.5	2.5	4.9	2.0	1.6	0.20	3.4	51	50	4.8
30	0.63	0.69	5.5	2.8	---	2.0	3.5	0.09	4.2	33	41	4.5
31	0.24	---	5.5	4.0	---	2.0	---	0.05	---	34	32	---
TOTAL	116.47	118.52	165.08	129.9	98.1	78.9	64.39	76.93	202.71	576.6	1,314.43	338.4
MEAN	3.76	3.95	5.33	4.19	3.38	2.55	2.15	2.48	6.76	18.6	42.4	11.3
MAX	15	9.7	17	11	11	4.5	5.8	15	29	51	127	28
MIN	0.24	0.04	0.98	2.5	1.7	1.5	0.90	0.05	0.01	4.2	0.23	4.5
AC-FT	231	235	327	258	195	156	128	153	402	1,140	2,610	671

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

MEAN	5.71	3.52	3.84	3.89	2.70	2.55	1.72	1.81	9.64	13.7	16.1	11.2
MAX	22.5	20.7	28.8	9.98	16.3	10.6	5.06	5.05	24.8	29.0	51.0	22.9
(WY)	(2001)	(2003)	(2003)	(1999)	(1998)	(2003)	(2003)	(1997)	(1995)	(1995)	(2003)	(1995)
MIN	0.00	0.08	0.05	0.43	0.11	0.17	0.00	0.01	1.27	1.59	3.20	4.14
(WY)	(1989)	(1990)	(1997)	(2001)	(1994)	(1995)	(1990)	(1993)	(1988)	(1996)	(1991)	(1992)

02293214 MEADE CANAL AT CAPE CORAL, FL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	4,391.92		3,280.43			
ANNUAL MEAN	12.0		8.96		6.50	
HIGHEST ANNUAL MEAN					15.5	2003
LOWEST ANNUAL MEAN					2.28	1993
HIGHEST DAILY MEAN	149	Aug 10	127	Aug 4	321	Jul 23, 2001
LOWEST DAILY MEAN	0.00	Jul 2	0.01	Jun 3	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.55	May 12	0.04	May 30	0.00**	
MAXIMUM PEAK FLOW			145	Aug 4	406	Jul 23, 2001
MAXIMUM PEAK STAGE			6.67	Aug 4	7.73	Jul 23, 2001
INSTANTANEOUS LOW FLOW			0.00	Jun 3	0.00**	
ANNUAL RUNOFF (AC-FT)	8,710		6,510		4,710	
10 PERCENT EXCEEDS	30		21		17	
50 PERCENT EXCEEDS	6.2		3.7		2.5	
90 PERCENT EXCEEDS	1.3		1.1		0.00	

e Estimated

** Many days during water years 1989-2003.

DISCHARGE FOR THE 2004 WATER YEAR THAT WAS UNAVAILABLE AT THE TIME OF WRD FL-04-2A PUBLICATION IS PUBLISHED IN THE 2005 WDR FL-05-2A REPORT

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.28	5.26	5.23	5.26	5.22	5.29	5.29	5.29	5.59	5.35	5.38	5.24
2	5.27	5.26	5.23	5.25	5.22	5.28	5.31	5.28	5.83	5.33	5.35	5.24
3	5.27	5.27	5.23	5.24	5.22	5.27	5.29	5.29	6.16	5.31	5.33	5.36
4	5.26	5.27	5.23	5.24	5.23	5.27	5.28	5.38	6.31	5.29	5.30	5.66
5	5.26	5.27	5.23	5.24	5.21	5.26	5.28	5.37	5.94	5.29	5.33	5.46
6	5.25	5.23	5.23	5.24	5.21	5.26	5.27	5.34	5.86	5.28	5.32	5.38
7	5.23	5.22	5.23	5.25	5.22	5.26	5.27	5.32	5.78	5.27	5.32	5.34
8	5.23	5.22	5.24	5.24	5.22	5.26	5.34	5.30	5.62	5.30	5.32	5.33
9	5.23	5.22	5.24	5.24	5.22	5.32	5.30	5.29	5.56	5.83	5.43	5.30
10	5.23	5.21	5.24	5.24	5.22	5.35	5.28	5.28	5.68	5.70	5.53	5.28
11	5.25	5.21	5.24	5.23	5.21	5.32	5.27	5.27	6.25	5.60	5.45	5.28
12	5.30	5.22	5.22	5.23	5.20	5.30	5.26	5.27	6.04	5.52	5.37	5.27
13	5.29	5.22	5.22	5.23	5.21	5.29	5.26	5.26	5.87	5.55	5.34	5.27
14	5.29	5.23	5.22	5.24	5.21	5.28	5.25	5.26	5.67	5.53	5.32	5.27
15	5.29	5.24	5.21	5.24	5.21	5.28	5.24	5.28	5.63	5.54	5.30	5.27
16	5.29	5.23	5.20	5.23	5.21	5.27	5.23	5.26	5.56	5.57	5.31	5.27
17	5.30	5.23	5.21	5.22	5.22	5.56	5.23	5.26	5.50	5.53	5.34	5.27
18	5.30	5.23	5.22	5.22	5.22	5.68	5.23	5.25	5.44	5.48	5.33	5.27
19	5.31	5.23	5.22	5.22	5.20	5.53	5.23	5.24	5.40	5.40	5.31	5.26
20	5.31	5.22	5.21	5.22	5.20	5.45	5.23	5.24	5.36	5.37	5.29	5.27
21	5.31	5.21	5.21	5.23	5.21	5.39	5.23	5.24	5.35	5.34	5.28	5.29
22	5.32	5.21	5.21	5.23	5.21	5.36	5.22	5.24	5.31	5.34	5.27	5.32
23	5.26	5.21	5.23	5.24	5.21	5.36	5.22	5.24	5.32	5.38	5.26	5.34
24	5.24	5.21	5.24	5.22	5.22	5.35	5.23	5.24	5.34	5.34	5.26	5.36
25	5.23	5.24	5.31	5.23	5.27	5.33	5.22	5.24	5.32	5.36	5.26	5.33
26	5.24	5.22	5.39	5.23	5.26	5.32	5.21	5.28	5.31	5.49	5.24	5.33
27	5.24	5.22	5.32	5.23	5.35	5.31	5.57	5.26	5.32	5.51	5.27	5.34
28	5.25	5.23	5.28	5.23	5.33	5.32	5.38	5.25	5.34	5.41	5.28	5.33
29	5.25	5.23	5.27	5.23	---	5.30	5.32	5.24	5.39	5.35	5.26	5.38
30	5.25	5.23	5.26	5.23	---	5.30	5.29	5.24	5.39	5.36	5.25	5.50
31	5.26	---	5.26	5.23	---	5.29	---	5.34	---	5.39	5.25	---
TOTAL	163.29	156.90	162.48	162.25	146.34	165.41	158.23	163.54	168.44	168.31	164.85	159.81
MEAN	5.27	5.23	5.24	5.23	5.23	5.34	5.27	5.28	5.61	5.43	5.32	5.33
MAX	5.32	5.27	5.39	5.26	5.35	5.68	5.57	5.38	6.31	5.83	5.53	5.66
MIN	5.23	5.21	5.20	5.22	5.20	5.26	5.21	5.24	5.31	5.27	5.24	5.24

02293214 MEADE CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.0	3.0	4.3	2.0	5.2	3.3	5.0	24	9.1	8.7	2.5
2	3.5	3.0	3.0	4.0	2.0	4.3	4.4	4.9	43	7.8	6.9	2.7
3	3.5	3.4	3.1	3.8	2.2	3.9	3.4	5.6	82	6.7	5.7	11
4	3.2	3.5	3.0	3.5	2.4	4.2	3.0	10	98	5.7	4.4	30
5	3.0	4.7	3.0	3.4	1.7	3.7	2.8	9.5	52	5.3	6.0	15
6	2.5	3.6	3.0	3.2	1.6	3.5	2.4	8.2	44	4.9	5.3	9.6
7	1.6	3.0	3.2	3.3	1.8	3.3	2.5	6.6	37	4.4	5.4	7.7
8	1.5	3.0	3.5	3.2	2.0	3.3	5.9	5.3	24	6.6	5.7	6.7
9	1.5	2.8	3.4	3.0	2.0	5.9	4.0	4.8	19	45	13	5.4
10	1.5	2.5	3.6	3.0	2.0	7.3	3.0	4.5	28	33	19	4.7
11	2.3	2.7	3.4	2.6	1.3	5.6	2.5	4.3	91	25	14	4.5
12	5.0	3.0	2.6	2.5	1.0	4.5	2.2	4.1	63	19	8.8	4.6
13	4.7	3.0	2.5	2.4	1.4	4.0	2.1	3.5	44	21	7.0	4.6
14	4.5	3.6	2.7	3.2	1.4	3.4	1.6	3.4	27	19	5.7	4.6
15	4.5	3.9	1.7	3.0	1.2	3.0	1.1	4.3	24	20	4.8	4.5
16	4.5	3.5	1.5	2.5	1.1	2.5	0.61	3.1	19	22	5.5	4.4
17	5.0	3.4	2.1	2.1	1.4	21	0.37	2.9	15	19	7.2	4.4
18	5.2	3.5	2.5	1.9	1.3	27	0.41	2.4	11	16	6.3	4.3
19	5.4	3.5	2.5	2.0	0.66	16	0.49	2.0	8.4	11	5.3	4.0
20	5.5	3.0	2.2	2.2	0.64	11	0.43	2.0	6.7	8.9	4.3	4.5
21	5.6	2.7	2.0	2.5	0.83	8.1	0.42	2.0	7.2	6.8	3.9	5.5
22	6.2	2.5	2.2	2.5	0.99	6.5	0.34	2.0	7.7	7.2	3.4	6.9
23	2.8	2.5	2.9	3.2	1.1	6.3	0.27	2.0	8.2	8.9	3.4	7.8
24	2.0	2.5	3.5	2.2	1.3	5.9	0.54	1.6	8.9	7.1	3.5	8.9
25	1.7	3.7	7.5	2.4	4.1	5.0	0.19	1.3	7.7	8.2	3.4	7.3
26	2.0	2.7	11	2.5	3.7	4.6	0.17	3.4	6.7	16	2.6	7.3
27	2.1	2.5	7.2	2.5	7.9	4.5	21	2.5	7.5	17	3.8	8.1
28	2.4	3.1	5.3	2.6	6.9	4.8	8.7	2.0	8.6	10	4.3	8.1
29	2.5	3.1	4.8	2.4	---	4.2	5.7	1.7	11	7.0	3.5	11
30	2.7	3.0	4.5	2.5	---	3.9	4.5	1.5	11	7.7	3.0	19
31	3.0	---	4.5	2.3	---	3.6	---	6.4	---	9.2	2.8	---
TOTAL	105.3	93.9	110.9	86.7	57.92	200.0	88.34	122.8	844.6	414.5	186.6	229.6
MEAN	3.40	3.13	3.58	2.80	2.07	6.45	2.94	3.96	28.2	13.4	6.02	7.65
MAX	6.2	4.7	11	4.3	7.9	27	21	10	98	45	19	30
MIN	1.5	2.5	1.5	1.9	0.64	2.5	0.17	1.3	6.7	4.4	2.6	2.5
AC-FT	209	186	220	172	115	397	175	244	1,680	822	370	455

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	5.59	3.49	3.82	3.83	2.67	2.75	1.78	1.92	10.6	13.7	15.5	11.0
MAX	22.5	20.7	28.8	9.98	16.3	10.6	5.06	5.05	28.2	29.0	51.0	22.9
(WY)	(2001)	(2003)	(2003)	(1999)	(1998)	(2003)	(2003)	(1997)	(2005)	(1995)	(2003)	(1995)
MIN	0.00	0.08	0.05	0.43	0.11	0.17	0.00	0.01	1.27	1.59	3.20	4.14
(WY)	(1989)	(1990)	(1997)	(2001)	(1994)	(1995)	(1990)	(1993)	(1988)	(1996)	(1991)	(1992)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	3,190.46		2,541.16			
ANNUAL MEAN	8.72		6.96		6.52	
HIGHEST ANNUAL MEAN					15.5	2003
LOWEST ANNUAL MEAN					2.28	1993
HIGHEST DAILY MEAN	127	Aug 4	98	Jun 4	321	Jul 23, 2001
LOWEST DAILY MEAN	0.01	Jun 3	0.17	Apr 26	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.04	May 30	0.34	Apr 20	0.00**	
MAXIMUM PEAK FLOW			136	Jun 3	406	Jul 23, 2001
MAXIMUM PEAK STAGE			6.60	Jun 3	7.73	Jul 23, 2001
INSTANTANEOUS LOW FLOW			0.01	Apr 26	0.00**	
ANNUAL RUNOFF (AC-FT)	6,330		5,040		4,730	
10 PERCENT EXCEEDS	21		15		17	
50 PERCENT EXCEEDS	3.5		3.8		2.6	
90 PERCENT EXCEEDS	1.5		1.7		0.00	

** Many days during water years 1989-2003.

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.

02293230 WHISKEY CREEK AT FT. MYERS, FL

LOCATION.--Lat 26°34'27", long 81°53'29", in NW ¼ NW ¼ SE ¼, sec.10, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090205, 300 ft upstream from mouth on left bank, above spillway at Whiskey Creek Drive, 1.4 mi south of Colonial Boulevard.

DRAINAGE AREA.--Approximately 9 mi sq. Information provided by Johnson Engineering, Inc. 1979.

PERIOD OF RECORD.--April 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge for all periods when the vertical gates are opened are not included. Formerly published as Whiskey Creek at Whiskey Creek Drive near Ft. Myers, Fl. Days of zero flow occurred during water years 1994, 1995 and 1997.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 6 complete water years of discharge (1995-98, 2002, 2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	3.06	3.05	3.07	3.11	3.09	3.13	3.13	3.34	3.22	3.26	3.15
2	3.08	3.06	3.05	3.08	3.10	3.09	3.20	3.12	3.31	3.19	3.23	3.14
3	3.08	3.05	3.05	3.08	3.10	3.09	3.16	3.12	3.56	3.18	3.20	3.25
4	3.08	3.05	3.05	3.07	3.10	3.09	3.14	3.12	3.42	3.18	3.19	3.27
5	3.07	3.06	3.04	3.07	3.10	3.08	3.13	3.12	3.33	3.18	3.35	3.16
6	3.07	3.04	3.04	3.07	3.10	3.08	3.13	3.11	3.26	3.18	3.22	3.14
7	3.06	3.04	3.04	3.09	3.10	3.08	3.13	3.12	3.22	3.17	3.23	3.13
8	3.06	3.04	3.05	3.09	3.11	3.08	3.18	3.12	3.24	3.24	3.39	3.12
9	3.06	3.05	3.04	3.10	3.11	3.17	3.15	3.12	3.26	3.62	3.34	3.12
10	3.07	3.04	3.04	3.10	3.11	3.14	3.15	3.12	3.43	3.37	3.25	3.11
11	3.08	3.04	3.03	3.09	3.10	3.11	3.14	3.12	---	3.35	3.22	3.10
12	3.12	3.04	3.02	3.08	3.09	3.11	3.14	3.14	---	3.32	3.22	3.10
13	3.09	3.05	3.02	3.08	3.09	3.11	3.14	3.13	---	3.28	3.24	3.09
14	3.08	3.06	3.02	3.09	3.09	3.10	3.14	3.13	---	3.27	3.21	3.08
15	3.07	3.05	3.00	3.09	3.09	3.10	3.14	3.13	3.23	3.30	3.22	3.08
16	3.07	3.05	3.00	3.08	3.09	3.10	3.15	3.12	3.21	3.31	3.18	3.08
17	3.07	3.05	3.01	3.08	3.08	3.38	3.14	3.12	3.20	3.27	3.17	3.08
18	3.07	3.05	3.02	3.08	3.08	3.24	3.14	3.11	3.20	3.25	3.17	3.08
19	3.07	3.05	3.01	3.08	3.08	3.18	3.14	3.10	3.19	3.26	3.17	3.07
20	3.08	3.05	3.00	3.08	3.08	3.16	3.14	3.08	3.20	3.24	3.16	3.07
21	3.06	3.05	3.00	3.07	3.07	3.14	3.14	3.08	3.20	3.20	3.15	3.08
22	3.06	3.05	3.01	3.07	3.07	3.14	3.14	3.09	3.21	3.19	3.17	3.09
23	3.07	3.06	3.03	3.08	3.06	3.15	3.14	3.08	3.23	3.17	3.17	3.16
24	3.06	3.06	3.05	3.07	3.06	3.14	3.13	3.09	3.22	3.17	3.17	3.19
25	3.06	3.10	3.13	3.08	3.20	3.13	3.14	3.09	3.20	3.37	3.16	3.10
26	3.06	3.07	3.11	3.08	3.09	3.13	3.14	3.09	3.20	3.31	3.16	3.09
27	3.06	3.07	3.07	3.08	3.17	3.13	3.23	3.09	3.23	3.21	3.20	3.09
28	3.06	3.07	3.07	3.08	3.11	3.19	3.13	3.09	3.26	3.26	3.19	3.21
29	3.06	3.06	3.07	3.08	---	3.14	3.12	3.09	3.37	3.22	3.17	3.21
30	3.06	3.06	3.07	3.08	---	3.14	3.12	3.08	3.27	3.30	3.16	3.17
31	3.06	---	3.08	3.09	---	3.14	---	3.15	---	3.25	3.15	---
TOTAL	95.20	91.63	94.27	95.51	86.74	97.15	94.34	96.40	---	101.03	99.47	93.81
MEAN	3.07	3.05	3.04	3.08	3.10	3.13	3.14	3.11	---	3.26	3.21	3.13
MAX	3.12	3.10	3.13	3.10	3.20	3.38	3.23	3.15	---	3.62	3.39	3.27
MIN	3.06	3.04	3.00	3.07	3.06	3.08	3.12	3.08	---	3.17	3.15	3.07

02293230 WHISKEY CREEK AT FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	2.8	2.8	5.3	8.0	6.4	8.5	8.1	55	20	35	23
2	3.3	2.7	2.6	5.6	7.2	5.8	19	6.9	42	16	28	21
3	2.9	2.2	2.5	5.4	7.5	5.7	10	6.5	e100	14	21	55
4	2.9	2.1	2.6	4.8	7.4	5.8	8.3	6.6	66	13	22	51
5	2.7	2.4	2.6	4.7	6.6	4.8	7.0	6.4	42	14	56	26
6	2.3	1.7	2.7	5.2	6.9	4.8	6.5	6.1	28	13	26	22
7	2.1	1.6	2.7	7.4	7.4	4.6	7.4	6.6	20	12	27	20
8	1.8	1.4	2.9	7.6	7.8	4.7	15	6.6	24	30	87	19
9	2.1	1.9	2.4	8.0	8.6	18	9.6	6.7	29	167	77	19
10	2.3	1.6	2.5	7.7	9.0	12	9.2	6.7	69	84	52	17
11	3.2	2.0	2.1	7.1	6.7	8.7	9.0	7.2	e246	76	45	15
12	6.5	2.1	1.7	6.3	6.2	7.9	8.7	10	e184	68	44	15
13	3.6	2.3	1.7	5.8	5.6	7.8	8.7	9.0	e38	55	46	14
14	2.9	3.2	1.5	7.1	5.8	7.5	7.9	8.8	e26	52	40	12
15	2.8	2.8	0.91	7.4	5.8	7.2	8.2	8.5	23	61	42	12
16	2.4	2.6	1.0	6.2	5.9	6.8	9.2	6.7	19	61	33	13
17	3.1	2.7	1.4	5.6	5.3	75	9.0	6.5	18	48	31	13
18	3.5	2.8	1.4	5.4	5.1	30	8.0	5.7	17	44	33	14
19	3.5	2.5	1.1	5.3	4.7	18	9.4	4.6	16	45	30	12
20	3.6	2.7	0.90	5.5	5.1	15	9.3	3.3	16	41	27	13
21	2.9	2.6	1.00	5.1	3.7	12	9.4	3.3	16	31	26	14
22	2.4	2.8	1.3	5.0	3.6	11	9.3	3.8	18	27	29	15
23	2.9	3.0	2.0	5.7	3.4	12	9.3	3.4	22	24	30	31
24	2.8	3.1	3.5	5.0	3.4	11	9.1	3.7	20	22	28	34
25	2.8	7.6	17	6.1	28	9.4	9.4	3.8	17	86	28	18
26	2.8	4.3	10	6.3	5.8	9.2	9.4	4.1	17	53	25	15
27	2.7	3.7	4.9	6.0	18	7.9	26	4.3	22	28	34	15
28	2.6	3.7	4.8	6.4	8.2	17	8.5	4.2	29	40	32	49
29	2.7	3.2	4.6	6.0	---	10	7.2	3.8	56	28	27	38
30	2.8	3.0	5.0	6.1	---	9.3	6.6	3.4	29	49	25	29
31	2.7	---	5.4	6.6	---	9.3	---	13	---	34	24	---
TOTAL	92.4	83.1	99.51	187.7	206.7	374.6	292.1	188.3	1,324	1,356	1,110	664
MEAN	2.98	2.77	3.21	6.05	7.38	12.1	9.74	6.07	44.1	43.7	35.8	22.1
MAX	6.5	7.6	17	8.0	28	75	26	13	246	167	87	55
MIN	1.8	1.4	0.90	4.7	3.4	4.6	6.5	3.3	16	12	21	12
AC-FT	183	165	197	372	410	743	579	373	2,630	2,690	2,200	1,320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	9.20	4.66	4.41	4.64	3.20	4.56	4.02	3.07	17.9	25.4	23.8	25.3
MAX	16.3	9.22	10.0	8.10	7.38	12.1	9.74	6.18	44.1	43.7	37.5	50.0
(WY)	(1997)	(2000)	(1998)	(1996)	(2005)	(2005)	(2005)	(1996)	(2005)	(2005)	(2001)	(2001)
MIN	2.98	1.41	1.52	0.88	0.72	1.00	1.35	0.71	2.21	14.4	10.7	13.4
(WY)	(2005)	(1997)	(1997)	(2001)	(2001)	(1995)	(1999)	(1994)	(1994)	(2002)	(1997)	(1994)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	5,978.41			
ANNUAL MEAN	16.4		11.8	
HIGHEST ANNUAL MEAN			16.4	2005
LOWEST ANNUAL MEAN			8.88	1997
HIGHEST DAILY MEAN	246	Jun 11	380	Sep 2, 1995
LOWEST DAILY MEAN	0.90	Dec 20	0.00**	
ANNUAL SEVEN-DAY MINIMUM	1.1	Dec 15	0.00**	
MAXIMUM PEAK FLOW	566	Jun 11	1,280	Jun 15, 1996
MAXIMUM PEAK STAGE	4.54	Jun 11	4.87	Sep 5, 2003
ANNUAL RUNOFF (AC-FT)	11,860		8,570	
10 PERCENT EXCEEDS	40		26	
50 PERCENT EXCEEDS	7.8		5.4	
90 PERCENT EXCEEDS	2.6		1.1	

e Estimated

** Many days during water years 1994, 1995, 1997.

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.

02293240 ARIES CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°36'00", long 81°59'39", in SE ¼ SW ¼ NE ¼ sec.34, T.44 S., R.23 E., Lee County, Hydrologic Unit 03090205, on right wingwall on downstream side of bridge at SW 28th Street, 0.33 mi west of Skyline Boulevard, and 4.6 mi upstream from Caloosahatchee River at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1989 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Zero flow occurs for numerous days, during most water years. Station subjected to major shifting of the stage discharge relationship based on heavy debris build up on carp grates and installation/removal of stoplogs, which are installed on top of the weir.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 16 complete water years of discharge (1990-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.33	3.15	3.17	3.27	3.16	3.37	3.29	3.50	3.70	3.35	3.59	3.35
2	3.32	3.15	3.17	3.27	3.15	3.36	3.32	3.52	3.95	3.34	3.58	3.32
3	3.31	3.15	3.18	3.27	3.14	3.34	3.31	3.53	4.25	3.32	3.58	3.34
4	3.31	3.15	3.18	3.27	3.14	3.35	3.31	3.61	4.58	3.31	3.57	3.48
5	3.31	3.16	3.17	3.27	3.13	3.35	3.31	3.51	3.97	3.31	3.55	3.41
6	3.31	3.15	3.16	3.27	3.12	3.34	3.30	3.46	3.77	3.31	3.49	3.39
7	3.31	3.15	3.16	3.28	3.12	3.34	3.31	3.42	3.71	3.31	3.55	3.36
8	3.31	3.15	3.17	3.30	3.12	3.35	3.36	3.38	3.79	3.35	3.58	3.35
9	3.32	3.15	3.19	3.30	3.12	3.41	3.37	3.36	3.86	4.05	3.63	3.34
10	3.33	3.12	3.19	3.30	3.13	3.50	3.36	3.35	4.32	3.94	3.63	3.32
11	3.34	3.11	3.17	3.26	3.12	3.49	3.35	3.34	5.15	3.77	3.61	3.31
12	3.43	3.11	3.14	3.21	3.12	3.47	3.34	3.32	4.46	3.67	3.53	3.30
13	3.41	3.11	3.12	3.20	3.12	3.46	3.34	3.32	4.12	3.84	3.49	3.30
14	3.40	3.12	3.11	3.21	3.12	3.45	3.33	3.33	3.98	4.01	3.48	3.30
15	3.39	3.13	3.10	3.22	3.12	3.44	3.32	3.35	3.99	4.35	3.48	3.29
16	3.36	3.13	3.09	3.23	3.12	3.44	3.31	3.34	3.92	4.40	3.47	3.30
17	3.35	3.13	3.10	3.24	3.13	3.81	3.30	3.33	3.84	4.25	3.47	3.32
18	3.34	3.13	3.10	3.24	3.13	3.99	3.30	3.33	3.76	4.12	3.48	3.36
19	3.34	3.14	3.10	3.23	3.13	3.76	3.30	3.32	3.71	4.02	3.50	3.34
20	3.34	3.13	3.11	3.23	3.13	3.62	3.31	3.31	3.68	3.97	3.48	3.34
21	3.34	3.13	3.11	3.24	3.13	3.56	3.31	3.30	3.64	3.84	3.47	3.36
22	3.35	3.12	3.11	3.25	3.12	3.54	3.31	3.30	3.53	3.72	3.46	3.34
23	3.35	3.12	3.13	3.27	3.12	3.54	3.31	3.31	3.50	3.68	3.65	3.42
24	3.35	3.13	3.15	3.27	3.12	3.55	3.31	3.31	3.52	3.64	4.00	3.86
25	3.33	3.19	3.23	3.27	3.18	3.52	3.31	3.30	3.51	3.73	3.73	3.62
26	3.26	3.19	3.37	3.25	3.20	3.42	3.30	3.29	3.50	4.16	3.47	3.53
27	3.21	3.18	3.31	3.21	3.34	3.37	3.94	3.29	3.45	4.09	3.47	3.51
28	3.17	3.18	3.29	3.19	3.40	3.37	3.72	3.29	3.37	3.82	3.53	3.49
29	3.17	3.18	3.28	3.18	---	3.35	3.58	3.27	3.34	3.72	3.48	3.58
30	3.15	3.17	3.27	3.17	---	3.32	3.51	3.27	3.35	3.66	3.45	3.84
31	3.14	---	3.27	3.17	---	3.30	---	3.38	---	3.61	3.41	---
TOTAL	102.68	94.31	98.40	100.54	88.18	107.48	101.04	104.24	115.22	116.66	109.86	102.37
MEAN	3.31	3.14	3.17	3.24	3.15	3.47	3.37	3.36	3.84	3.76	3.54	3.41
MAX	3.43	3.19	3.37	3.30	3.40	3.99	3.94	3.61	5.15	4.40	4.00	3.86
MIN	3.14	3.11	3.09	3.17	3.12	3.30	3.29	3.27	3.34	3.31	3.41	3.29

02293240 ARIES CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.7	5.5	8.4	8.5	22	14	29	65	14	39	16
2	9.9	7.7	5.2	8.4	7.4	21	16	31	90	12	39	13
3	7.3	7.1	5.2	8.4	6.2	19	15	33	132	9.3	40	16
4	5.1	6.9	5.5	8.4	6.0	20	13	43	182	7.4	44	29
5	4.8	7.3	4.9	8.4	5.2	19	13	31	82	6.5	46	22
6	4.8	7.3	4.2	8.7	4.8	18	13	26	54	5.6	37	20
7	4.8	6.9	4.2	9.6	4.8	18	14	23	48	14	42	17
8	4.8	6.9	4.5	11	4.2	19	18	19	58	14	45	16
9	5.2	6.0	5.3	11	4.5	25	19	17	68	92	50	15
10	5.9	4.5	5.5	16	4.9	34	18	17	138	76	49	13
11	7.3	3.6	7.6	17	4.4	32	17	16	292	69	52	12
12	14	3.6	7.3	13	4.2	30	17	15	147	58	47	12
13	13	3.6	5.3	11	3.6	29	16	14	94	75	42	12
14	12	4.0	3.9	11	3.6	28	15	15	76	93	41	11
15	10	4.5	2.9	12	3.6	26	15	17	81	139	39	11
16	8.8	4.5	1.8	12	3.8	26	13	16	74	142	38	11
17	7.9	4.2	1.7	12	4.2	71	13	15	65	117	38	14
18	7.3	4.2	2.6	11	3.8	104	13	15	58	97	39	17
19	6.9	4.6	3.6	10	3.8	76	13	14	53	84	41	15
20	6.9	4.4	4.7	9.9	3.5	56	13	13	51	79	38	16
21	7.2	3.4	5.1	9.7	3.4	46	13	12	57	79	36	17
22	8.0	3.0	3.7	10	2.9	42	14	13	46	67	34	16
23	8.0	3.0	3.1	11	2.4	40	13	14	41	56	58	24
24	7.7	3.4	2.6	11	2.4	40	13	14	41	47	98	66
25	16	7.5	6.9	11	6.0	41	13	18	39	54	67	38
26	18	7.8	17	13	7.9	33	13	19	36	109	38	30
27	13	6.5	12	14	20	27	87	18	29	100	36	26
28	9.9	6.2	10	12	25	26	54	16	19	61	42	22
29	9.0	6.2	9.2	9.6	---	23	37	13	16	50	35	30
30	7.8	5.8	8.8	9.3	---	19	29	12	15	44	29	59
31	7.3	---	8.4	9.2	---	16	---	23	---	40	24	---
TOTAL	272.6	162.3	178.2	337.0	165.0	1,046	584	591	2,247	1,910.8	1,343	636
MEAN	8.79	5.41	5.75	10.9	5.89	33.7	19.5	19.1	74.9	61.6	43.3	21.2
MAX	18	7.8	17	17	25	104	87	43	292	142	98	66
MIN	4.8	3.0	1.7	8.4	2.4	16	13	12	15	5.6	24	11
AC-FT	541	322	353	668	327	2,070	1,160	1,170	4,460	3,790	2,660	1,260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

MEAN	15.8	5.76	5.16	8.62	5.87	6.25	3.97	4.08	26.7	41.4	35.8	40.6
MAX	33.2	15.3	20.6	22.3	31.6	33.7	19.5	19.1	74.9	127	86.6	110
(WY)	(1992)	(1999)	(1998)	(1999)	(1998)	(2005)	(2005)	(2005)	(2005)	(1999)	(2004)	(2000)
MIN	2.52	0.01	0.40	1.25	0.74	0.23	0.00	0.00	0.92	7.92	6.02	13.6
(WY)	(1999)	(1997)	(1991)	(1990)	(2001)	(1997)	(1999)	(1994)	(1994)	(1994)	(1994)	(1996)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	8,356.06		9,472.9			
ANNUAL MEAN	22.8		26.0		16.7	
HIGHEST ANNUAL MEAN					27.9	1999
LOWEST ANNUAL MEAN					5.73	1990
HIGHEST DAILY MEAN	217	Aug 14	292	Jun 11	595	Jun 23, 2003
LOWEST DAILY MEAN	0.96	Apr 8	1.7	Dec 17	0.00**	
ANNUAL SEVEN-DAY MINIMUM	1.3	Apr 5	3.0	Dec 14	0.00**	
MAXIMUM PEAK FLOW			391	Jun 11	849	Jul 24, 2001
MAXIMUM PEAK STAGE			5.53	Jun 11	7.17	Jul 24, 2001
INSTANTANEOUS LOW FLOW			0.94	Dec 15	0.94	Dec 15, 2004
ANNUAL RUNOFF (AC-FT)	16,570		18,790		12,110	
10 PERCENT EXCEEDS	62		63		42	
50 PERCENT EXCEEDS	11		14		6.3	
90 PERCENT EXCEEDS	3.6		4.4		0.03	

** Many days during water years 1990, 1991, 1994-2002.

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.

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 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.07	5.00	4.99	5.07	4.96	4.64	5.07	5.08	5.35	5.13	5.25	5.03
2	5.05	4.98	4.99	5.05	4.95	4.66	5.09	5.11	5.54	5.11	5.22	5.03
3	5.01	4.98	5.00	5.05	4.92	4.68	5.07	5.12	5.88	5.07	5.15	5.03
4	4.98	4.97	4.98	5.04	4.94	4.74	5.07	5.25	5.98	5.09	5.11	5.09
5	4.97	5.00	4.96	5.04	4.91	4.76	5.07	5.22	5.51	5.10	5.26	5.09
6	4.94	4.99	4.95	5.03	4.86	4.74	5.02	5.19	5.36	5.07	5.39	5.09
7	4.91	4.96	4.95	5.03	4.80	4.77	4.99	5.14	5.32	5.04	5.36	5.06
8	4.91	4.95	4.95	5.04	4.76	4.79	5.11	5.09	5.37	5.11	5.37	5.03
9	4.90	4.94	4.95	5.04	4.69	4.88	5.08	5.08	5.39	5.75	5.40	5.05
10	4.89	4.91	4.97	5.03	4.64	5.06	5.04	5.09	5.55	5.52	5.37	5.02
11	4.90	4.89	4.97	5.00	4.64	5.08	5.04	5.06	6.09	5.38	5.32	4.97
12	5.01	4.90	4.95	4.99	4.61	5.08	5.04	5.04	5.60	5.36	5.24	4.97
13	5.02	4.92	4.95	4.98	4.55	5.04	5.01	5.05	5.44	5.56	5.20	4.98
14	5.01	4.90	4.94	5.03	4.49	5.04	4.98	5.02	5.34	5.57	5.18	4.96
15	5.02	4.93	4.93	5.05	4.44	5.05	4.99	5.03	5.32	5.59	5.17	4.92
16	5.00	4.92	4.92	5.04	4.38	5.04	4.96	5.04	5.26	5.60	5.16	4.93
17	4.98	4.92	4.94	5.02	4.33	5.39	4.90	5.04	5.22	5.41	5.13	4.92
18	4.95	4.91	4.94	5.00	4.33	5.49	4.89	5.01	5.17	5.35	5.10	4.87
19	4.94	4.93	4.93	4.99	4.32	5.29	4.91	4.95	5.14	5.30	5.11	4.86
20	4.93	4.92	4.93	4.99	4.30	5.21	4.87	4.96	5.14	5.25	5.08	4.89
21	4.95	4.89	4.94	5.01	4.25	5.18	4.81	4.94	5.15	5.20	5.05	4.94
22	5.41	4.88	4.94	5.00	4.24	5.17	4.80	4.89	5.13	5.19	5.06	4.97
23	5.20	4.85	4.94	5.02	4.21	5.16	4.76	4.90	5.14	5.16	5.13	5.18
24	5.13	4.84	5.00	5.01	4.16	5.18	4.69	4.93	5.17	5.14	5.11	5.55
25	5.09	4.91	5.11	5.00	4.24	5.17	4.66	4.90	5.14	5.39	5.09	5.26
26	5.07	4.97	5.23	5.01	4.29	5.14	4.64	4.86	5.11	5.67	5.08	5.20
27	5.05	4.97	5.14	5.02	4.45	5.11	5.29	4.85	5.13	5.41	5.10	5.20
28	5.03	4.99	5.11	5.04	4.60	5.12	5.21	4.83	5.15	5.29	5.12	5.18
29	5.03	4.99	5.08	5.02	---	5.12	5.16	4.76	5.14	5.25	5.11	5.34
30	5.03	5.00	5.08	5.01	---	5.08	5.10	4.74	5.14	5.25	5.10	5.74
31	5.01	---	5.08	4.99	---	5.06	---	4.90	---	5.28	5.06	---
TOTAL	155.39	148.11	154.74	155.64	127.26	155.92	149.32	155.07	160.37	164.59	160.58	152.35
MEAN	5.01	4.94	4.99	5.02	4.54	5.03	4.98	5.00	5.35	5.31	5.18	5.08
MAX	5.41	5.00	5.23	5.07	4.96	5.49	5.29	5.25	6.09	5.75	5.40	5.74
MIN	4.89	4.84	4.92	4.98	4.16	4.64	4.64	4.74	5.11	5.04	5.05	4.86

02293241 SAN CARLOS CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	1.5	1.1	5.2	0.07	0.00	4.1	5.6	24	7.3	8.4	0.65
2	3.8	0.56	1.2	3.9	0.00	0.00	4.8	7.0	36	5.8	6.8	0.74
3	2.2	0.53	1.6	3.9	0.00	0.00	4.2	8.0	67	3.8	3.8	0.93
4	0.83	0.14	0.57	3.4	0.00	0.00	3.8	15	73	4.6	2.1	3.7
5	0.34	1.7	0.04	3.4	0.00	0.00	3.9	13	34	5.0	12	3.5
6	0.00	1.3	0.00	3.1	0.00	0.00	1.8	12	23	3.5	18	3.5
7	0.00	0.03	0.00	3.3	0.00	0.00	0.67	8.7	20	2.1	16	1.9
8	0.00	0.00	0.00	3.6	0.00	0.00	5.8	6.0	24	6.1	17	0.79
9	0.00	0.00	0.00	3.4	0.00	0.76	4.3	5.7	25	53	19	1.6
10	0.00	0.00	0.37	2.9	0.00	4.5	2.7	5.8	37	33	17	0.32
11	0.08	0.00	0.26	1.7	0.00	5.7	2.5	4.4	84	22	14	0.00
12	2.2	0.00	0.01	1.1	0.00	5.3	2.6	3.5	41	20	9.4	0.00
13	2.6	0.00	0.00	0.69	0.00	3.7	1.0	3.9	29	35	7.5	0.00
14	2.1	0.00	0.00	3.2	0.00	3.6	0.17	2.7	21	36	6.8	0.00
15	2.6	0.00	0.00	3.8	0.00	4.1	0.34	3.2	19	38	6.0	0.00
16	1.6	0.00	0.00	3.5	0.00	3.6	0.04	3.3	15	40	5.5	0.00
17	0.73	0.00	0.00	2.5	0.00	27	0.00	3.7	13	22	3.9	0.00
18	0.02	0.00	0.00	1.8	0.00	33	0.00	2.0	10	18	3.1	0.00
19	0.00	0.00	0.00	1.1	0.00	18	0.00	0.16	8.4	14	3.7	0.00
20	0.00	0.00	0.00	0.91	0.00	13	0.00	0.06	8.1	11	2.1	0.00
21	1.8	0.00	0.00	2.1	0.00	11	0.00	0.04	8.6	7.7	0.77	0.00
22	27	0.00	0.00	1.7	0.00	10	0.00	0.00	7.8	6.9	1.1	0.00
23	12	0.00	0.00	2.6	0.00	9.3	0.00	0.00	8.3	5.6	4.9	12
24	8.2	0.00	1.7	1.9	0.00	11	0.00	0.00	9.2	4.4	3.9	35
25	6.0	0.00	7.6	1.7	0.00	9.9	0.00	0.00	7.7	24	2.9	13
26	4.9	0.35	14	1.9	0.00	8.4	0.00	0.00	6.1	45	2.7	8.9
27	3.9	0.17	8.8	2.6	0.00	6.3	21	0.00	7.2	20	3.6	8.6
28	3.2	1.1	7.1	3.6	0.00	7.2	13	0.00	8.3	12	4.8	7.6
29	3.3	1.1	5.7	2.8	---	7.1	9.6	0.00	7.6	9.4	4.5	20
30	3.1	1.4	5.4	1.9	---	5.1	6.5	0.00	7.5	9.2	4.0	52
31	2.2	---	5.5	0.99	---	3.9	---	0.61	---	11	2.3	---
TOTAL	99.80	9.88	60.95	80.19	0.07	211.46	92.82	114.37	689.8	535.4	217.57	174.73
MEAN	3.22	0.33	1.97	2.59	0.00	6.82	3.09	3.69	23.0	17.3	7.02	5.82
MAX	27	1.7	14	5.2	0.07	33	21	15	84	53	19	52
MIN	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	6.1	2.1	0.77	0.00
AC-FT	198	20	121	159	0.1	419	184	227	1,370	1,060	432	347

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	6.35	2.48	2.21	2.76	1.50	1.56	0.66	0.71	9.79	11.7	14.3	13.0
MAX	19.8	18.0	14.3	9.77	12.7	6.82	3.09	3.69	34.1	33.8	56.3	39.5
(WY)	(1996)	(2003)	(2003)	(1998)	(1998)	(2005)	(2005)	(2005)	(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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	2,204.80		2,287.04			
ANNUAL MEAN	6.02		6.27		5.68	
HIGHEST ANNUAL MEAN					13.1	2003
LOWEST ANNUAL MEAN					2.39	1997
HIGHEST DAILY MEAN	80	Aug 14	84	Jun 11	330	Jul 23, 2001
LOWEST DAILY MEAN	0.00**		0.00**		0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00**		0.00**		0.00**	
MAXIMUM PEAK FLOW			122	Sep 30	577	Jun 23, 2003
MAXIMUM PEAK STAGE			6.49	Sep 30	7.58	Jun 28, 1992
INSTANTANEOUS LOW FLOW					0.00**	
ANNUAL RUNOFF (AC-FT)	4,370		4,540		4,120	
10 PERCENT EXCEEDS	20		18		15	
50 PERCENT EXCEEDS	0.61		2.6		1.4	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

** Many days during water years 1987, 1989-2005.

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.

02293243 COURTNEY CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°34'40", long 81°59'00", in SW ¼ SE ¼ SW ¼ sec.2, T.45 S., R.23 E., Lee County, Hydrologic Unit 03090205, near left bank on upstream side of wing wall of bridge at Mohawk Parkway, 200 ft west of 5th Avenue, 1.07 mi north of West Cape Coral Parkway and 3.15 mi upstream from Caloosahatchee River at Cape Coral.

DRAINAGE AREA.--Indeterminate.

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

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. Zero flow occurs for numerous days during all water years. Station subjected to major shifting of the stage discharge relationship based on heavy debris buildup on carp grates and installation/ removal of stoplogs, which are installed on top of the weir. Removal of carp grates and stoplogs during high flow events also alters the stage discharge relationship. Discharge for the 2004 water year that was unavailable at the time of WDR FL-04-2A publication is published in the 2005 WDR FL-05-2A report.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

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	28	0.00	0.00	4.5	11	19	0.00	0.28	0.00	5.3	45	28
2	22	0.00	0.00	8.7	10	19	0.00	0.83	0.00	10	67	32
3	25	0.00	0.00	6.4	8.6	16	0.00	1.0	0.00	7.5	70	54
4	21	0.00	0.00	4.4	5.6	13	0.00	2.8	3.2	7.4	80	50
5	18	0.00	0.00	3.1	4.1	15	0.00	1.5	0.51	4.7	63	47
6	14	0.00	0.00	3.5	7.5	11	0.00	0.26	0.00	4.0	66	67
7	11	0.00	0.00	2.6	6.6	8.4	0.00	2.1	5.8	2.7	44	65
8	7.3	0.00	0.00	1.1	3.4	8.0	0.00	1.5	30	0.68	32	54
9	4.2	0.00	0.00	5.2	1.6	6.2	0.00	0.38	38	3.1	24	48
10	5.9	0.00	0.00	5.4	1.7	3.7	0.00	0.00	24	0.83	22	47
11	2.5	0.00	0.00	3.8	0.96	2.7	0.00	0.00	22	0.17	22	39
12	0.89	0.00	0.00	2.4	0.55	7.7	0.00	0.00	13	0.99	16	34
13	0.10	0.00	0.00	2.2	4.8	5.8	0.00	0.00	9.7	0.27	73	29
14	0.00	0.00	0.28	1.4	3.7	3.5	0.00	0.00	29	0.01	122	27
15	0.00	0.00	8.9	0.66	7.1	1.9	0.00	0.00	41	0.00	74	24
16	0.00	0.00	16	4.1	6.2	2.6	0.00	0.00	43	0.01	61	21
17	0.00	0.00	33	3.6	5.1	3.8	0.01	0.00	37	0.02	88	20
18	0.00	0.00	26	14	2.4	2.5	0.00	0.00	33	0.00	92	18
19	0.00	0.00	27	19	2.4	6.0	0.00	0.00	21	0.66	81	17
20	0.00	0.00	20	15	8.7	3.4	0.00	0.00	14	4.9	64	15
21	0.00	0.00	16	9.5	6.9	1.9	0.00	0.00	9.1	7.3	59	16
22	0.00	0.00	13	6.5	5.3	1.1	0.00	0.00	6.9	6.1	57	17
23	0.00	0.00	11	11	3.4	0.22	0.00	0.00	3.6	14	74	15
24	0.00	0.00	12	7.9	3.5	0.00	0.00	0.00	4.5	8.7	79	16
25	0.00	0.00	13	5.2	12	0.00	0.00	0.00	9.9	5.6	76	15
26	0.00	0.00	21	3.8	22	0.00	0.00	0.00	8.7	8.0	38	15
27	0.00	0.00	21	5.1	24	0.00	0.00	0.00	7.1	13	27	19
28	0.00	0.00	18	4.3	22	0.00	0.00	0.00	7.8	16	25	18
29	0.00	0.00	17	2.5	20	0.00	0.00	0.00	5.7	28	22	15
30	0.00	0.00	14	6.8	---	0.00	0.00	0.00	8.5	31	19	14
31	0.00	---	6.3	10	---	0.00	---	0.00	---	28	18	---
TOTAL	159.89	0.00	293.48	183.66	221.11	162.42	0.01	10.65	436.01	218.94	1,700	896
MEAN	5.16	0.00	9.47	5.92	7.62	5.24	0.00	0.34	14.5	7.06	54.8	29.9
MAX	28	0.00	33	19	24	19	0.01	2.8	43	31	122	67
MIN	0.00	0.00	0.00	0.66	0.55	0.00	0.00	0.00	0.00	0.00	16	14
AC-FT	317	0.00	582	364	439	322	0.02	21	865	434	3,370	1,780

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

MEAN	11.4	6.03	5.07	7.20	5.71	4.11	1.21	0.93	13.8	23.3	28.8	24.7
MAX	33.7	41.7	34.2	44.0	66.7	39.3	6.09	7.01	59.7	72.2	77.4	54.5
(WY)	(2001)	(2003)	(1998)	(1998)	(1998)	(1998)	(2001)	(2003)	(1999)	(1998)	(2003)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.02
(WY)	(1989)	(1989)	(1988)	(1989)	(1988)	(1989)	(1988)	(1988)	(1988)	(1994)	(1999)	(1987)

02293243 COURTNEY CANAL AT CAPE CORAL, FL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	6,954.39		4,282.17			
ANNUAL MEAN	19.1		11.7		11.2	
HIGHEST ANNUAL MEAN					28.2	1998
LOWEST ANNUAL MEAN					3.51	1988
HIGHEST DAILY MEAN	191	Jun 23	122	Aug 14	220	Jun 26, 1999
LOWEST DAILY MEAN	0.00	Apr 13	0.00	Oct 14	0.00	Nov 18, 1986
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 13	0.00	Oct 14	0.00	Nov 18, 1986
MAXIMUM PEAK FLOW			201	Aug 13	358	Sep 7, 1995
MAXIMUM PEAK STAGE			6.17	Aug 13	7.44	Sep 7, 1995
INSTANTANEOUS LOW FLOW					0.00	May 14, 2001
ANNUAL RUNOFF (AC-FT)	13,790		8,490		8,140	
10 PERCENT EXCEEDS	62		33		34	
50 PERCENT EXCEEDS	8.1		3.7		0.22	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

DISCHARGE FOR THE 2004 WATER YEAR THAT WAS UNAVAILABLE AT THE TIME OF WDR FL-04-2A PUBLICATION IS PUBLISHED IN THE 2005 WDR FL-05-2A REPORT.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.60	4.09	3.91	4.39	4.22	3.93	4.52	4.62	4.94	4.67	4.80	4.57
2	4.55	4.08	3.91	4.40	4.18	3.91	4.50	4.73	5.29	4.60	4.78	4.64
3	4.48	4.02	4.05	4.34	4.17	3.89	4.44	4.79	5.62	4.55	4.69	4.63
4	4.42	4.00	4.08	4.31	4.27	4.04	4.49	4.83	5.73	4.59	4.61	4.72
5	4.42	4.11	4.08	4.28	4.28	4.06	4.52	4.91	5.25	4.62	4.70	4.73
6	4.39	4.12	4.10	4.22	4.25	4.02	4.40	4.99	5.13	4.50	4.69	4.76
7	4.33	4.08	4.10	4.32	4.24	3.97	4.32	4.89	5.09	4.42	4.73	4.69
8	4.38	4.02	4.07	4.27	4.24	4.08	4.49	4.79	5.08	4.54	4.79	4.61
9	4.29	3.99	4.02	4.23	4.21	4.22	4.46	4.84	5.14	5.10	4.84	4.62
10	4.22	3.93	4.14	4.18	4.14	4.42	4.43	4.89	5.50	5.09	4.79	4.54
11	4.16	3.85	4.20	4.18	4.21	4.49	4.46	4.77	5.95	5.03	4.81	4.46
12	4.33	3.94	4.18	4.17	4.11	4.49	4.49	4.70	5.41	4.98	4.78	4.54
13	4.32	3.88	4.15	4.14	4.00	4.44	4.37	4.79	5.25	5.12	4.71	4.61
14	4.28	3.78	4.14	4.26	3.87	4.43	4.29	4.68	5.12	5.17	4.67	4.52
15	4.33	3.79	4.11	4.33	3.79	4.46	4.38	4.60	5.04	5.20	4.72	4.41
16	4.27	3.76	4.07	4.29	3.68	4.41	4.33	4.69	4.96	5.23	4.71	4.48
17	4.19	3.70	4.18	4.27	3.61	4.73	4.23	4.76	4.99	5.08	4.66	4.45
18	4.14	3.63	4.18	4.26	3.71	5.04	4.27	4.65	4.88	5.10	4.60	4.39
19	4.08	3.74	4.12	4.20	3.70	4.88	4.36	4.50	4.81	5.07	4.65	4.42
20	4.00	3.74	4.04	4.17	3.62	4.77	4.30	4.59	4.86	5.01	4.59	4.49
21	3.96	3.67	3.98	4.27	3.55	4.74	4.18	4.52	4.86	4.83	4.54	4.46
22	4.28	3.61	3.90	4.24	3.50	4.72	4.25	4.39	4.64	4.79	4.60	4.47
23	4.31	3.55	3.87	4.27	3.39	4.64	4.18	4.48	4.63	4.73	4.71	4.64
24	4.28	3.50	4.06	4.26	3.28	4.68	4.05	4.58	4.69	4.66	4.68	4.85
25	4.28	3.58	4.23	4.26	3.44	4.69	4.09	4.51	4.64	4.83	4.60	4.61
26	4.26	3.77	4.43	4.24	3.56	4.60	4.16	4.39	4.60	5.11	4.67	4.64
27	4.20	3.83	4.40	4.19	3.74	4.52	4.70	4.47	4.64	4.90	4.68	4.69
28	4.14	3.89	4.38	4.31	3.90	4.57	4.63	4.41	4.66	4.82	4.73	4.57
29	4.22	3.92	4.36	4.28	---	4.60	4.71	4.28	4.61	4.83	4.73	4.63
30	4.22	3.92	4.33	4.25	---	4.51	4.63	4.30	4.62	4.72	4.74	5.02
31	4.15	---	4.43	4.24	---	4.45	---	4.54	---	4.73	4.66	---
TOTAL	132.48	115.49	128.20	132.02	108.86	137.40	131.63	143.88	150.63	150.62	145.66	137.86
MEAN	4.27	3.85	4.14	4.26	3.89	4.43	4.39	4.64	5.02	4.86	4.70	4.60
MAX	4.60	4.12	4.43	4.40	4.28	5.04	4.71	4.99	5.95	5.23	4.84	5.02
MIN	3.96	3.50	3.87	4.14	3.28	3.89	4.05	4.28	4.60	4.42	4.54	4.39

02293243 COURTNEY CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	0.00	0.00	3.8	0.00	0.00	12	8.0	47	21	28	3.2
2	13	0.00	0.00	3.9	0.00	0.00	10	13	77	17	26	7.2
3	9.0	0.00	0.00	1.6	0.00	0.00	7.2	15	112	14	20	6.9
4	5.2	0.00	0.00	0.82	0.07	0.00	9.1	17	123	16	14	12
5	5.2	0.00	0.00	0.25	0.15	0.00	11	22	71	18	19	13
6	3.6	0.00	0.00	0.02	0.03	0.00	4.2	28	59	11	18	15
7	1.2	0.00	0.00	0.80	0.00	0.00	1.5	21	55	6.0	20	10
8	2.8	0.00	0.00	0.35	0.00	0.00	9.3	14	54	13	25	5.8
9	0.70	0.00	0.00	0.00	0.00	0.70	7.7	17	59	56	28	7.0
10	0.01	0.00	0.00	0.00	0.00	5.4	5.9	21	94	55	24	2.5
11	0.00	0.00	0.00	0.00	0.00	9.2	7.2	13	148	49	25	0.40
12	0.98	0.00	0.00	0.00	0.00	9.4	9.2	8.7	84	45	22	2.4
13	0.83	0.00	0.00	0.00	0.00	6.2	3.1	14	68	57	17	6.2
14	0.31	0.00	0.00	0.19	0.00	6.0	0.61	7.6	56	61	14	1.8
15	0.98	0.00	0.00	1.1	0.00	7.6	2.8	3.4	49	64	17	0.10
16	0.37	0.00	0.00	0.44	0.00	4.5	1.1	7.9	42	67	16	0.68
17	0.00	0.00	0.00	0.07	0.00	26	0.08	12	46	53	12	0.45
18	0.00	0.00	0.00	0.04	0.00	51	0.04	5.8	36	54	8.4	0.09
19	0.00	0.00	0.00	0.01	0.00	41	1.8	0.61	31	52	11	0.03
20	0.00	0.00	0.00	0.00	0.00	32	0.56	2.7	35	46	7.5	1.2
21	0.00	0.00	0.00	0.14	0.00	29	0.00	0.91	35	32	4.2	1.3
22	0.36	0.00	0.00	0.12	0.00	28	0.01	0.00	19	29	7.3	0.89
23	0.73	0.00	0.00	0.05	0.00	21	0.02	0.07	18	23	14	10
24	0.26	0.00	0.00	0.04	0.00	25	0.00	2.2	22	19	11	23
25	0.06	0.00	1.7	0.03	0.00	25	0.00	0.55	19	32	6.3	7.4
26	0.03	0.00	5.6	0.02	0.00	18	0.00	0.01	16	55	10	9.5
27	0.01	0.00	4.1	0.00	0.00	13	23	0.03	18	36	10	13
28	0.00	0.00	2.9	0.71	0.00	16	15	0.05	20	31	13	5.9
29	0.00	0.00	2.1	0.35	---	17	18	0.00	17	30	13	11
30	0.00	0.00	1.4	0.05	---	12	11	0.00	17	22	13	37
31	0.00	---	5.7	0.00	---	8.2	---	13	---	23	8.3	---
TOTAL	61.63	0.00	23.50	14.90	0.25	411.20	171.42	268.53	1,547	1,107.0	482.0	214.94
MEAN	1.99	0.00	0.76	0.48	0.01	13.3	5.71	8.66	51.6	35.7	15.5	7.16
MAX	16	0.00	5.7	3.9	0.15	51	23	28	148	67	28	37
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	6.0	4.2	0.03
AC-FT	122	0.00	47	30	0.5	816	340	533	3,070	2,200	956	426

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	10.9	5.70	4.84	6.85	5.42	4.59	1.44	1.34	15.8	23.9	28.1	23.8
MAX	33.7	41.7	34.2	44.0	66.7	39.3	6.09	8.66	59.7	72.2	77.4	54.5
(WY)	(2001)	(2003)	(1998)	(1998)	(1998)	(1998)	(2001)	(2005)	(1999)	(1998)	(2003)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.02
(WY)	(1989)	(1989)	(1988)	(1989)	(1988)	(1989)	(1988)	(1988)	(1988)	(1994)	(1999)	(1987)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1987 - 2005
ANNUAL TOTAL	3,913.93	4,302.37	
ANNUAL MEAN	10.7	11.8	11.3
HIGHEST ANNUAL MEAN			28.2 1998
LOWEST ANNUAL MEAN			3.51 1988
HIGHEST DAILY MEAN	122 Aug 14	148 Jun 11	220 Jun 26, 1999
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		207 Jun 11	358 Sep 7, 1995
MAXIMUM PEAK STAGE		6.41 Jun 11	7.44 Sep 7, 1995
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	7,760	8,530	8,160
10 PERCENT EXCEEDS	32	35	34
50 PERCENT EXCEEDS	2.6	2.5	0.31
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1987-2005.

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.

02293264 GATOR SLOUGH AT SR 765 AT CAPE CORAL, FL

LOCATION.--Lat 26°41'38", long 82°02'14" in SW ¼ NW ¼ NW ¼ sec.32, T.43 S., R.23 E., Lee County, Hydrologic Unit 03100103, 380 ft upstream from bridge on SR-765 (Burnt Store Road) in Cape Coral, 280 ft upstream from weir, and 2.9 mi north of Pine Island Road in Cape Coral, Fl.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1973-83 (annual maximum gage heights, only), May 1984 to October 5, 1997, June 2000 to current year. Prior to 1984, published as "near Pine Island." Prior to October 1, 2003, published under 264139082022100.

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Zero flow occurs for numerous days during most water years. Formerly published as, "near Ft. Myers, Fl."

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1985-97, 2001-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.71	---	---	2.48	2.48	2.47	2.65	2.70	2.88	2.96	3.09	2.72
2	2.70	---	---	2.47	2.47	2.46	2.66	2.67	3.16	2.92	2.99	2.71
3	2.69	---	---	2.47	2.47	2.47	2.65	2.64	3.37	2.89	2.93	2.85
4	---	---	---	2.47	2.47	2.46	2.64	2.69	3.56	2.87	2.89	3.31
5	---	---	---	2.47	2.47	2.47	2.63	2.75	3.54	2.86	2.86	3.13
6	---	---	---	2.47	2.47	2.47	2.63	2.75	3.45	2.82	2.88	2.97
7	---	---	---	2.48	2.46	2.46	2.62	2.73	3.22	2.80	2.86	2.85
8	---	---	---	2.48	2.46	2.46	2.64	2.69	3.02	2.80	2.87	2.81
9	---	---	---	2.48	2.46	2.49	2.64	2.65	2.96	3.45	2.88	2.77
10	---	---	---	2.47	2.46	2.49	2.63	2.64	3.05	3.61	2.93	2.74
11	---	---	---	2.47	2.46	2.48	2.62	2.64	3.36	3.53	3.02	2.70
12	---	---	---	2.47	2.45	2.48	2.63	2.75	3.38	3.48	2.96	2.68
13	---	---	---	2.47	2.45	2.49	2.62	2.71	3.39	3.33	3.02	2.67
14	---	---	---	2.50	2.45	2.49	2.61	2.68	3.27	3.22	2.94	2.65
15	---	---	---	2.49	2.45	2.49	2.61	2.69	3.12	3.14	2.90	2.63
16	---	---	---	2.49	2.45	2.49	2.59	2.67	3.02	3.16	2.85	2.61
17	---	---	---	2.48	2.44	2.79	2.58	2.64	2.92	3.11	2.84	2.59
18	---	---	---	2.48	2.45	3.01	2.58	2.62	2.87	3.18	2.83	2.59
19	---	---	---	2.48	2.45	3.00	2.57	2.60	2.84	3.08	2.85	2.58
20	---	---	---	2.48	2.43	2.90	2.58	2.60	2.82	3.04	2.82	2.58
21	---	---	---	2.49	2.42	2.83	2.57	2.59	2.81	2.99	2.80	2.58
22	---	---	---	2.49	2.43	2.77	2.58	2.59	2.81	2.96	2.82	2.61
23	---	---	2.44	2.50	2.43	2.75	2.58	2.57	2.83	2.94	2.81	2.72
24	---	---	2.46	2.49	2.43	2.74	2.57	2.57	2.85	2.91	2.83	2.74
25	---	---	2.49	2.49	2.46	2.74	2.56	2.57	2.84	2.91	2.80	2.68
26	---	---	2.49	2.49	2.46	2.74	2.57	2.58	2.83	2.91	2.76	2.65
27	---	---	2.50	2.49	2.49	2.72	2.85	2.58	2.85	2.90	2.76	2.71
28	---	---	2.49	2.49	2.49	2.69	2.79	2.55	2.86	2.97	2.78	2.79
29	---	---	2.48	2.46	---	2.69	2.73	2.55	2.91	2.98	2.78	2.80
30	---	---	2.48	2.47	---	2.66	2.70	2.55	2.99	3.01	2.76	2.77
31	---	---	2.47	2.48	---	2.65	---	2.66	---	3.12	2.74	---
TOTAL	---	---	---	76.89	68.76	81.30	78.88	81.87	91.78	94.85	88.85	82.19
MEAN	---	---	---	2.48	2.46	2.62	2.63	2.64	3.06	3.06	2.87	2.74
MAX	---	---	---	2.50	2.49	3.01	2.85	2.75	3.56	3.61	3.09	3.31
MIN	---	---	---	2.46	2.42	2.46	2.56	2.55	2.81	2.80	2.74	2.58

02293264 GATOR SLOUGH AT SR 765 AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	e1.9	e0.00	0.20	0.24	0.06	32	56	121	157	253	71
2	39	e1.1	e0.00	0.15	0.13	0.06	35	47	254	138	205	67
3	40	e1.9	e0.01	0.06	0.05	0.10	34	38	376	123	174	134
4	e36	e1.9	e0.00	0.09	0.15	0.03	30	53	498	114	154	374
5	e36	e1.1	e0.00	0.11	0.08	0.06	29	74	483	108	140	274
6	e36	e1.1	e0.00	0.09	0.06	0.07	28	73	419	95	147	191
7	e33	e1.1	e0.00	0.18	0.01	0.05	25	64	279	83	140	132
8	e33	e0.57	e0.00	0.22	0.01	0.09	30	50	170	86	143	112
9	e33	e0.25	e0.00	0.21	0.01	0.81	29	40	141	436	144	96
10	e33	e0.57	e0.00	0.14	0.01	0.72	28	37	191	543	167	84
11	e31	e0.08	e0.00	0.10	0.01	0.36	26	38	360	494	212	70
12	e42	e0.08	e0.00	0.12	0.01	0.33	28	73	379	468	183	62
13	e36	e0.25	e0.00	0.09	0.00	0.57	26	58	386	387	212	57
14	e33	e0.25	e0.00	2.1	0.00	0.57	22	45	320	325	174	52
15	e33	e0.01	e0.00	0.87	0.00	0.49	23	49	241	282	152	46
16	e31	e0.01	e0.00	0.45	0.00	0.58	18	42	187	291	131	38
17	e31	e0.00	e0.00	0.30	0.00	95	17	33	139	267	121	34
18	e28	e0.00	e0.00	0.34	0.00	181	17	27	115	304	118	35
19	e28	e0.00	e0.00	0.24	0.00	178	15	24	101	252	126	31
20	e28	e0.00	e0.00	0.34	0.00	130	17	23	91	231	116	30
21	e26	e0.00	e0.01	0.53	0.00	97	15	20	90	202	107	31
22	e26	e0.01	e0.01	0.57	0.00	74	16	21	90	186	111	39
23	e23	e0.00	0.00	0.93	0.00	65	17	18	98	179	107	77
24	e19	e0.00	0.00	0.76	0.00	61	15	16	103	164	113	85
25	e17	e0.25	1.5	0.57	0.04	61	12	15	101	161	99	61
26	e13	e0.25	1.0	0.46	0.03	60	14	18	97	162	85	50
27	e11	e0.01	0.93	0.58	1.5	54	116	16	104	158	84	74
28	e9.0	e0.08	0.48	0.84	0.44	45	93	11	108	195	92	106
29	e7.0	e0.01	0.32	0.03	---	46	70	11	133	196	92	111
30	e4.8	e0.01	0.19	0.10	---	37	58	10	173	212	84	95
31	e3.1	---	0.17	0.25	---	33	---	40	---	269	78	---
TOTAL	839.9	12.79	4.62	12.02	2.78	1,221.95	935	1,140	6,348	7,268	4,264	2,719
MEAN	27.1	0.43	0.15	0.39	0.10	39.4	31.2	36.8	212	234	138	90.6
MAX	42	1.9	1.5	2.1	1.5	181	116	74	498	543	253	374
MIN	3.1	0.00	0.00	0.03	0.00	0.03	12	10	90	83	78	30
AC-FT	1,670	25	9.2	24	5.5	2,420	1,850	2,260	12,590	14,420	8,460	5,390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	61.4	22.7	13.2	12.8	7.02	13.7	10.9	15.2	77.5	114	143	114
MAX	253	91.9	113	48.4	20.1	41.5	43.2	58.0	215	284	359	268
(WY)	(1996)	(2003)	(2003)	(2003)	(1993)	(1987)	(1987)	(1991)	(1995)	(1995)	(1997)	(2001)
MIN	17.4	0.43	0.15	0.00	0.00	0.00	0.00	0.00	0.24	9.15	55.3	23.3
(WY)	(1989)	(2005)	(2005)	(2001)	(1997)	(1997)	(2002)	(2001)	(1985)	(2000)	(1993)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	12,992.71		24,768.06			
ANNUAL MEAN	35.5		67.9		51.2	
HIGHEST ANNUAL MEAN					92.7	1995
LOWEST ANNUAL MEAN					21.7	1990
HIGHEST DAILY MEAN	485	Aug 4	543	Jul 10	1,400	Sep 14, 2001
LOWEST DAILY MEAN	0.00**		0.00**		0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00**		0.00**		0.00**	
MAXIMUM PEAK FLOW			572	Jul 10	2,550	Sep 14, 2001
MAXIMUM PEAK STAGE			3.65	Jul 10	4.61	Sep 14, 2001
INSTANTANEOUS LOW FLOW					0.00**	
ANNUAL RUNOFF (AC-FT)	25,770		49,130		37,120	
10 PERCENT EXCEEDS	118		189		133	
50 PERCENT EXCEEDS	6.8		29		16	
90 PERCENT EXCEEDS	0.01		0.00		0.18	

e Estimated

** Many days during water years 1989, 1990, 1996, 1997, 2001, 2002, 2004, 2005.

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.

02293345 SHADROE CANAL AT CAPE CORAL, FL—Continued

02293345 SHADROE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°39'07", long 82°02'22", in SE ¼ SW ¼ SW ¼ sec.8 T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, near right bank on downstream side of wingwall of bridge on Embers Parkway, 75 ft west of NW 29th Place, 0.28 mi east of State Road 765 (Burnt Store Road) and 0.3 mi upstream of weir, at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 to current year.

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 good. Zero flow occurs for numerous days, during most water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT)SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.51	2.48	2.47	2.48	2.46	2.48	2.54	2.60	2.85	2.54	2.58	2.55
2	2.50	2.48	2.47	2.48	2.45	2.47	2.57	2.59	2.85	2.53	2.57	2.54
3	2.50	2.48	2.47	2.48	2.46	2.46	2.55	2.58	2.96	2.52	2.56	2.64
4	2.49	2.48	2.47	2.48	2.46	2.47	2.53	2.62	2.93	2.52	2.55	2.81
5	2.48	2.48	2.47	2.48	2.45	2.47	2.53	2.63	2.71	2.51	2.54	2.61
6	2.48	2.47	2.47	2.48	2.45	2.47	2.52	2.59	2.65	2.51	2.54	2.58
7	2.48	2.47	2.47	2.48	2.45	2.47	2.52	2.58	2.61	2.50	2.57	2.57
8	2.48	2.46	2.47	2.48	2.44	2.47	2.58	2.57	2.61	2.54	2.55	2.57
9	2.48	2.46	2.47	2.48	2.44	2.52	2.55	2.57	2.60	3.02	2.55	2.56
10	2.48	2.46	2.47	2.47	2.44	2.54	2.54	2.57	2.82	2.94	2.54	2.56
11	2.49	2.46	2.47	2.47	2.44	2.51	2.53	2.56	3.19	2.70	2.54	2.56
12	2.55	2.46	2.46	2.47	2.42	2.51	2.53	2.56	2.83	2.64	2.55	2.55
13	2.51	2.47	2.46	2.47	2.41	2.50	2.53	2.55	2.66	2.68	2.56	2.55
14	2.50	2.47	2.46	2.50	2.41	2.50	2.52	2.54	2.61	2.70	2.55	2.55
15	2.50	2.46	2.46	2.49	2.41	2.50	2.52	2.57	2.59	2.81	2.54	2.55
16	2.49	2.45	2.45	2.48	2.41	2.50	2.51	2.56	2.57	2.82	2.54	2.55
17	2.48	2.45	2.46	2.48	2.41	2.78	2.51	2.55	2.56	2.66	2.55	2.54
18	2.48	2.46	2.46	2.47	2.42	2.70	2.51	2.53	2.55	2.64	2.54	2.54
19	2.48	2.46	2.46	2.47	2.42	2.60	2.51	2.52	2.54	2.62	2.53	2.53
20	2.49	2.46	2.46	2.47	2.41	2.58	2.51	2.51	2.53	2.61	2.52	2.52
21	2.49	2.46	2.46	2.48	2.42	2.57	2.51	2.51	2.53	2.59	2.51	2.54
22	2.49	2.46	2.46	2.48	2.42	2.56	2.51	2.53	2.53	2.58	2.56	2.57
23	2.49	2.46	2.47	2.49	2.43	2.57	2.51	2.53	2.70	2.58	2.66	2.67
24	2.48	2.46	2.48	2.47	2.43	2.58	2.50	2.52	2.67	2.57	2.74	2.80
25	2.48	2.51	2.51	2.47	2.45	2.56	2.50	2.51	2.59	2.75	2.68	2.61
26	2.48	2.48	2.54	2.47	2.46	2.56	2.49	2.51	2.57	2.79	2.59	2.58
27	2.48	2.47	2.50	2.46	2.52	2.55	2.91	2.51	2.56	2.68	2.63	2.58
28	2.47	2.49	2.49	2.46	2.50	2.55	2.64	2.51	2.55	2.77	2.63	2.63
29	2.47	2.48	2.48	2.46	---	2.55	2.59	2.51	2.54	2.63	2.57	2.67
30	2.47	2.48	2.48	2.46	---	2.54	2.57	2.51	2.54	2.59	2.56	2.77
31	2.47	---	2.48	2.46	---	2.54	---	2.67	---	2.58	2.55	---
TOTAL	77.12	74.07	76.65	76.72	68.29	78.63	76.34	79.17	80.00	82.12	79.65	77.85
MEAN	2.49	2.47	2.47	2.47	2.44	2.54	2.54	2.55	2.67	2.65	2.57	2.60
MAX	2.55	2.51	2.54	2.50	2.52	2.78	2.91	2.67	3.19	3.02	2.74	2.81
MIN	2.47	2.45	2.45	2.46	2.41	2.46	2.49	2.51	2.53	2.50	2.51	2.52

02293345 SHADROE CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	4.6	2.3	2.3	1.0	2.4	7.9	15	69	13	16	8.0
2	8.5	4.5	2.3	2.3	0.86	1.5	12	13	69	13	15	7.4
3	8.1	4.6	2.3	2.3	1.0	1.4	9.0	11	104	12	14	30
4	7.1	4.7	2.2	2.3	1.2	1.8	7.4	18	105	11	13	59
5	6.4	4.8	2.2	2.3	0.87	1.6	7.2	18	39	10	12	16
6	6.4	4.2	2.3	2.3	0.83	1.6	6.7	13	23	10	12	11
7	6.3	3.8	2.3	2.3	0.81	1.6	6.8	11	15	9.3	16	10
8	6.1	3.0	2.5	2.2	0.61	1.8	12	10	13	18	13	9.9
9	6.4	3.1	2.6	2.2	0.53	5.9	9.2	10	10	134	12	9.3
10	6.4	2.7	1.9	1.9	0.53	7.7	8.3	9.9	55	109	11	9.2
11	7.6	2.3	1.8	1.7	0.47	4.9	7.4	9.4	177	44	10	8.8
12	13	2.5	1.4	1.7	0.24	4.3	7.1	9.2	79	30	11	8.4
13	8.6	2.9	1.2	1.6	0.10	3.9	7.1	8.1	35	38	13	8.4
14	7.5	3.0	1.4	3.7	0.10	3.9	6.7	7.6	24	45	12	8.3
15	6.9	2.3	1.1	3.3	0.10	3.9	6.4	10	21	73	9.4	8.3
16	6.1	1.9	0.89	2.3	0.10	3.8	5.7	8.8	18	75	9.4	8.0
17	5.8	1.6	1.2	2.0	0.10	60	5.6	8.0	16	34	11	6.8
18	5.7	2.1	1.2	1.7	0.19	32	5.5	6.7	15	30	9.0	6.4
19	5.9	2.2	1.2	1.6	0.18	15	4.8	5.5	13	25	8.6	5.3
20	6.1	2.3	1.2	1.7	0.13	12	4.7	4.7	13	22	7.3	4.8
21	6.3	2.3	1.2	2.2	0.17	11	4.7	4.9	12	19	6.6	6.5
22	6.2	2.3	1.2	2.2	0.19	11	4.7	6.7	13	18	12	8.9
23	6.3	2.2	1.4	3.4	0.31	12	4.3	6.0	51	17	33	36
24	5.7	2.2	2.2	1.9	0.33	13	4.1	5.2	38	16	43	55
25	5.6	5.7	5.4	1.6	1.00	11	3.6	4.9	21	65	28	14
26	5.4	3.4	7.1	1.4	1.2	10	3.4	5.0	17	65	14	10
27	4.7	2.4	3.7	1.2	5.6	9.6	91	4.6	16	36	21	10
28	4.3	3.6	2.6	1.2	4.2	9.5	20	4.6	15	59	18	20
29	4.0	3.4	2.3	1.0	---	9.1	12	4.5	14	27	10	23
30	4.1	2.8	2.3	1.1	---	8.5	11	4.3	14	20	9.3	60
31	4.3	---	2.3	1.2	---	8.3	---	31	---	17	8.7	---
TOTAL	201.2	93.4	67.19	62.1	22.95	284.0	306.3	288.6	1,124	1,114.3	438.3	486.7
MEAN	6.49	3.11	2.17	2.00	0.82	9.16	10.2	9.31	37.5	35.9	14.1	16.2
MAX	13	5.7	7.1	3.7	5.6	60	91	31	177	134	43	60
MIN	4.0	1.6	0.89	1.0	0.10	1.4	3.4	4.3	10	9.3	6.6	4.8
AC-FT	399	185	133	123	46	563	608	572	2,230	2,210	869	965

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	16.0	6.76	4.79	5.58	5.21	4.28	2.85	3.62	12.0	20.8	22.1	25.5
MAX	114	27.2	28.5	19.3	38.2	13.1	10.2	14.8	53.8	63.6	68.4	75.8
(WY)	(1996)	(2003)	(2003)	(1998)	(1998)	(1998)	(2005)	(2003)	(2003)	(1995)	(1995)	(1995)
MIN	2.56	0.50	0.00	0.82	0.31	0.37	0.03	0.00	0.01	3.31	3.43	3.77
(WY)	(1989)	(1991)	(1991)	(2001)	(2001)	(1990)	(2000)	(1999)	(1988)	(1988)	(1989)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	3,984.60		4,489.04			
ANNUAL MEAN	10.9		12.3		10.6	
HIGHEST ANNUAL MEAN					24.5	2003
LOWEST ANNUAL MEAN					3.70	1990
HIGHEST DAILY MEAN	158	Aug 3	177	Jun 11	903	Jul 23, 2001
LOWEST DAILY MEAN	0.51	Jun 12	0.10	Feb 13	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.81	Jun 6	0.12	Feb 13	0.00**	
MAXIMUM PEAK FLOW			364	Sep 30	1,580	Jul 23, 2001
MAXIMUM PEAK STAGE			3.81	Sep 30	4.61	Sep 3, 1995
INSTANTANEOUS LOW FLOW					0.00**	
ANNUAL RUNOFF (AC-FT)	7,900		8,900		7,660	
10 PERCENT EXCEEDS	24		29		21	
50 PERCENT EXCEEDS	5.6		6.5		3.9	
90 PERCENT EXCEEDS	1.2		1.2		0.31	

** Many days during water years 1989-92, 1994, 1995, 1997-2001, several days in 2002.

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.

02293346 HORSESHOE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°40'41", long 82°02'26", in SW ¼ NW ¼ NW ¼ sec.5, T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, on left bank, 100 ft north of Diplomat Parkway 152 ft upstream from weir and 252 ft east of State Road 765 (Burnt Store Road) in Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 to current year.

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 fair. Gage height records for the 1998, 1999 and 2000 water years were revised based on levels run during the 2001 water year. The corrected gage heights are in the files of the U.S. Geological Survey. Extremely low flows are occasionally affected by water that is diverted from the canal during dry periods by the City of Cape Coral to supplement their dual water supply. Zero flow occurs for numerous days during most water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.73	2.55	2.48	2.52	2.47	2.52	2.71	2.77	2.98	2.95	3.01	2.77
2	2.72	2.54	2.48	2.51	2.46	2.50	2.72	2.75	3.16	2.90	2.93	2.77
3	2.71	2.55	2.50	2.49	2.47	2.50	2.71	2.73	3.38	2.86	2.86	2.95
4	2.70	2.54	2.48	2.49	2.47	2.48	2.69	2.76	3.54	2.82	2.85	3.28
5	2.70	2.54	2.48	2.51	2.47	2.48	2.69	2.79	3.26	2.80	2.86	2.95
6	2.69	2.54	2.48	2.51	2.47	2.49	2.70	2.77	3.10	2.79	2.84	2.88
7	2.69	2.54	2.49	2.51	2.45	2.48	2.70	2.75	2.98	2.79	2.83	2.86
8	2.69	2.53	2.49	2.52	2.46	2.49	2.73	2.74	2.92	2.80	2.84	2.86
9	2.69	2.52	2.49	2.51	2.45	2.55	2.71	2.72	2.90	3.43	2.86	2.81
10	2.68	2.52	2.49	2.50	2.45	2.54	2.70	2.70	3.13	3.41	2.86	2.78
11	2.70	2.51	2.49	2.50	2.44	2.53	2.70	2.68	3.63	3.23	2.89	2.76
12	2.73	2.51	2.49	2.50	2.44	2.53	2.70	2.70	3.36	3.15	2.87	2.74
13	2.71	2.51	2.47	2.49	2.43	2.53	2.69	2.69	3.26	3.15	2.87	2.73
14	2.70	2.52	2.47	2.53	2.42	2.52	2.68	2.67	3.09	3.17	2.85	2.72
15	2.70	2.50	2.47	2.52	2.42	2.53	2.68	2.69	2.99	3.16	2.83	2.71
16	2.69	2.49	2.46	2.51	2.41	2.53	2.66	2.67	2.93	3.22	2.84	2.71
17	2.69	2.48	2.46	2.51	2.42	2.75	2.65	2.66	2.88	3.07	2.82	2.71
18	2.68	2.48	2.47	2.51	2.41	2.66	2.64	2.65	2.83	3.10	2.81	2.69
19	2.68	2.48	2.47	2.49	2.41	2.69	2.61	2.62	2.81	3.09	2.82	2.69
20	2.67	2.49	2.46	2.48	2.40	2.78	2.60	2.60	2.80	3.08	2.80	2.68
21	2.67	2.48	2.46	2.48	2.40	2.79	2.60	2.59	2.80	2.97	2.78	2.68
22	2.67	2.49	2.46	2.49	2.42	2.80	2.58	2.59	2.82	2.93	2.86	2.70
23	2.66	2.48	2.47	2.49	2.41	2.80	2.57	2.57	2.91	2.91	2.87	2.80
24	2.64	2.48	2.50	2.47	2.43	2.78	2.56	2.55	2.93	2.87	2.88	2.83
25	2.63	2.52	2.53	2.47	2.48	2.77	2.55	2.54	2.85	2.97	2.87	2.76
26	2.62	2.52	2.53	2.48	2.49	2.76	2.55	2.58	2.82	3.01	2.86	2.74
27	2.61	2.49	2.51	2.48	2.53	2.74	3.10	2.56	2.81	2.89	2.86	2.76
28	2.59	2.50	2.51	2.48	2.53	2.72	2.87	2.54	2.82	2.93	2.86	2.79
29	2.58	2.49	2.51	2.47	---	2.72	2.80	2.54	2.85	2.91	2.83	2.82
30	2.57	2.50	2.51	2.46	---	2.71	2.77	2.53	2.91	2.89	2.80	2.85
31	2.56	---	2.51	2.46	---	2.72	---	2.71	---	2.97	2.78	---
TOTAL	82.75	75.29	77.07	77.34	68.51	81.39	80.62	82.41	90.45	93.22	88.39	83.78
MEAN	2.67	2.51	2.49	2.49	2.45	2.63	2.69	2.66	3.02	3.01	2.85	2.79
MAX	2.73	2.55	2.53	2.53	2.53	2.80	3.10	2.79	3.63	3.43	3.01	3.28
MIN	2.56	2.48	2.46	2.46	2.40	2.48	2.55	2.53	2.80	2.79	2.78	2.68

02293346 HORSESHOE CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	1.4	0.00	0.00	0.00	0.00	17	43	111	88	120	33
2	22	1.1	0.00	0.00	0.00	0.00	19	37	182	71	87	34
3	21	1.3	0.00	0.00	0.00	0.00	17	34	325	59	66	134
4	20	1.0	0.00	0.00	0.00	0.00	15	42	417	49	63	251
5	19	0.97	0.00	0.00	0.00	0.00	15	49	231	44	64	86
6	18	0.97	0.00	0.00	0.00	0.00	16	43	152	40	60	61
7	18	0.90	0.00	0.00	0.00	0.00	16	39	101	39	54	57
8	17	0.49	0.00	0.00	0.00	0.00	22	36	78	51	57	56
9	17	0.11	0.00	0.00	0.00	0.98	17	31	72	350	61	43
10	16	0.25	0.00	0.00	0.00	0.17	16	25	166	336	62	37
11	19	0.01	0.00	0.00	0.00	0.01	15	21	489	230	71	32
12	25	0.00	0.00	0.00	0.00	0.04	15	24	290	190	65	28
13	21	0.02	0.00	0.00	0.00	0.00	14	23	229	188	64	26
14	19	0.20	0.00	0.97	0.00	0.00	12	19	142	198	58	23
15	19	0.00	0.00	0.02	0.00	0.00	13	22	102	193	52	21
16	18	0.00	0.00	0.00	0.00	0.03	10	20	80	225	54	21
17	17	0.00	0.00	0.00	0.00	35	8.7	18	66	146	47	21
18	15	0.00	0.00	0.00	0.00	11	7.9	16	51	159	45	20
19	15	0.00	0.00	0.00	0.00	15	4.6	12	46	158	47	19
20	15	0.00	0.00	0.00	0.00	32	3.9	8.9	43	151	42	17
21	14	0.00	0.00	0.00	0.00	34	3.4	7.2	43	107	38	18
22	14	0.00	0.00	0.00	0.00	35	2.0	7.4	47	90	61	21
23	12	0.00	0.00	0.00	0.00	35	1.5	5.6	81	85	62	48
24	10	0.00	0.00	0.00	0.00	32	1.1	3.3	83	71	66	52
25	8.5	0.05	0.69	0.00	0.00	29	0.38	2.4	57	117	60	33
26	7.2	0.03	0.24	0.00	0.00	27	0.44	5.4	48	126	57	29
27	6.0	0.00	0.00	0.00	0.46	24	170	3.2	47	76	56	33
28	4.3	0.00	0.00	0.00	0.04	20	72	2.2	47	88	56	41
29	3.3	0.00	0.00	0.00	---	19	51	2.0	58	80	47	48
30	2.5	0.00	0.00	0.00	---	18	42	1.6	75	77	40	60
31	2.0	---	0.01	0.00	---	19	---	31	---	101	34	---
TOTAL	458.8	8.80	0.94	0.99	0.50	386.23	617.92	634.2	3,959	3,983	1,816	1,403
MEAN	14.8	0.29	0.03	0.03	0.02	12.5	20.6	20.5	132	128	58.6	46.8
MAX	25	1.4	0.69	0.97	0.46	35	170	49	489	350	120	251
MIN	2.0	0.00	0.00	0.00	0.00	0.00	0.38	1.6	43	39	34	17
AC-FT	910	17	1.9	2.0	1.0	766	1,230	1,260	7,850	7,900	3,600	2,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	28.4	11.5	8.72	9.81	10.8	10.2	6.41	8.18	41.1	60.1	60.1	55.1
MAX	93.0	43.3	60.5	62.4	130	72.9	27.8	43.4	132	128	134	128
(WY)	(1996)	(2003)	(1998)	(1998)	(1998)	(1998)	(1987)	(1991)	(2005)	(2005)	(1995)	(2001)
MIN	4.44	0.14	0.01	0.01	0.00	0.00	0.00	0.00	0.04	8.90	27.5	12.7
(WY)	(1990)	(2001)	(2001)	(2001)	(2001)	(2002)	(1999)	(1999)	(2001)	(2000)	(2000)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1987 - 2005
ANNUAL TOTAL	7,411.14	13,269.38	
ANNUAL MEAN	20.2	36.4	25.8
HIGHEST ANNUAL MEAN			50.1 1998
LOWEST ANNUAL MEAN			10.9 1989
HIGHEST DAILY MEAN	399 Aug 4	489 Jun 11	1,060 Aug 25, 1995
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		710 Sep 3	1,420 Aug 25, 1995
MAXIMUM PEAK STAGE		3.90 Sep 3	5.10 Aug 25, 1995
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	14,700	26,320	18,670
10 PERCENT EXCEEDS	58	87	67
50 PERCENT EXCEEDS	7.0	16	7.5
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1989, 1990, 1992, 1994-2005

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.

02293347 HERMOSA CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°40'41", long 82°02'26", in NW ¼ SW ¼ SW ¼ sec.5, T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, on right bank, 175 ft upstream of bridge on State Road 765 (Burnt Store Road) and approximately 50 ft south of NW 9th Terrace in Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 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 good. Records of daily mean gage height for the 2002 and 2003 water years were revised due to datum correction. Revised records are available in the files of the U.S. Geological Survey.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.65	2.50	2.47	2.48	2.46	2.46	2.58	2.62	2.86	2.73	2.78	2.62
2	2.64	2.50	2.47	2.47	2.45	2.46	2.62	2.60	2.96	2.69	2.73	2.62
3	2.64	2.50	2.47	2.47	2.45	2.45	2.60	2.59	3.13	2.66	2.71	2.78
4	2.63	2.50	2.47	2.47	2.46	2.46	2.59	2.62	3.24	2.64	2.70	3.08
5	2.62	2.50	2.46	2.47	2.46	2.46	2.58	2.64	2.97	2.62	2.70	2.77
6	2.61	2.50	2.46	2.47	2.45	2.46	2.58	2.62	2.84	2.62	2.70	2.71
7	2.61	2.49	2.47	2.47	2.42	2.46	2.57	2.60	2.75	2.62	2.70	2.70
8	2.61	2.49	2.47	2.47	2.19	2.46	2.62	2.58	2.71	2.67	2.69	2.71
9	2.61	2.49	2.47	2.47	1.99	2.51	2.60	2.57	2.69	3.19	2.70	2.68
10	2.60	2.49	2.47	2.47	2.03	2.51	2.60	2.56	2.87	3.16	2.70	2.66
11	2.62	2.48	2.47	2.46	2.09	2.49	2.59	2.56	3.39	2.96	2.72	2.65
12	2.67	2.47	2.46	2.46	2.14	2.48	2.57	2.56	3.11	2.90	2.73	2.63
13	2.63	2.47	2.46	2.46	2.19	2.48	2.56	2.55	3.01	2.90	2.72	2.62
14	2.62	2.48	2.46	2.49	2.23	2.48	2.56	2.54	2.87	2.96	2.69	2.62
15	2.61	2.47	2.44	2.48	2.26	2.48	2.56	2.55	2.78	2.94	2.67	2.62
16	2.61	2.46	2.43	2.47	2.29	2.48	2.55	2.54	2.75	3.01	2.69	2.62
17	2.60	2.46	2.43	2.47	2.32	2.73	2.55	2.54	2.72	2.86	2.69	2.62
18	2.60	2.46	2.43	2.46	2.35	2.60	2.55	2.53	2.69	2.87	2.67	2.62
19	2.59	2.46	2.44	2.46	2.35	2.55	2.53	2.52	2.67	2.86	2.68	2.62
20	2.59	2.47	2.43	2.46	2.36	2.60	2.52	2.51	2.66	2.87	2.67	2.61
21	2.58	2.47	2.43	2.47	2.36	2.61	2.51	2.51	2.64	2.80	2.67	2.63
22	2.58	2.47	2.43	2.47	2.38	2.61	2.51	2.52	2.67	2.76	2.75	2.66
23	2.56	2.47	2.44	2.48	2.39	2.62	2.51	2.51	2.80	2.75	2.78	2.77
24	2.54	2.47	2.47	2.47	2.39	2.63	2.50	2.50	2.79	2.73	2.80	2.82
25	2.52	2.50	2.50	2.46	2.44	2.61	2.49	2.50	2.69	2.94	2.75	2.70
26	2.52	2.49	2.50	2.46	2.46	2.61	2.50	2.50	2.67	2.87	2.71	2.67
27	2.52	2.48	2.49	2.47	2.51	2.61	2.97	2.50	2.66	2.74	2.73	2.68
28	2.52	2.49	2.48	2.47	2.49	2.60	2.72	2.50	2.66	2.78	2.70	2.72
29	2.51	2.48	2.48	2.45	---	2.60	2.63	2.50	2.67	2.75	2.66	2.75
30	2.51	2.47	2.48	2.45	---	2.59	2.60	2.49	2.70	2.73	2.63	2.81
31	2.50	---	2.47	2.46	---	2.59	---	2.64	---	2.76	2.63	---
TOTAL	80.22	74.43	76.30	76.49	65.36	78.74	77.42	79.07	84.62	87.34	83.85	80.77
MEAN	2.59	2.48	2.46	2.47	2.33	2.54	2.58	2.55	2.82	2.82	2.70	2.69
MAX	2.67	2.50	2.50	2.49	2.51	2.73	2.97	2.64	3.39	3.19	2.80	3.08
MIN	2.50	2.46	2.43	2.45	1.99	2.45	2.49	2.49	2.64	2.62	2.63	2.61

02293347 HERMOSA CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	0.04	0.00	0.00	0.00	0.00	4.3	11	66	35	35	5.4
2	17	0.03	0.00	0.00	0.00	0.00	8.4	8.0	88	26	23	5.1
3	17	0.02	0.00	0.00	0.00	0.00	6.3	7.1	158	21	16	50
4	16	0.03	0.00	0.00	0.00	0.00	4.9	13	198	17	13	113
5	15	0.22	0.00	0.00	0.00	0.00	4.4	15	98	15	12	27
6	13	0.02	0.00	0.00	0.00	0.00	4.1	11	58	14	11	16
7	13	0.00	0.00	0.00	0.00	0.00	3.8	8.3	33	14	11	14
8	13	0.00	0.00	0.00	0.00	0.00	8.9	6.4	25	24	9.8	15
9	12	0.00	0.00	0.00	0.00	1.2	5.8	4.7	21	167	11	11
10	11	0.01	0.00	0.00	0.00	0.28	5.6	3.9	63	156	12	8.3
11	15	0.00	0.00	0.00	0.00	0.00	4.8	3.8	257	90	15	5.7
12	22	0.00	0.00	0.00	0.00	0.00	3.5	4.2	151	73	17	4.0
13	16	0.00	0.00	0.00	0.00	0.00	2.7	3.6	118	74	16	3.7
14	14	0.00	0.00	0.02	0.00	0.00	2.0	2.8	77	93	11	3.2
15	13	0.00	0.00	0.00	0.00	0.00	2.1	3.7	53	87	8.5	3.2
16	12	0.00	0.00	0.00	0.00	0.00	1.8	2.7	43	107	12	3.3
17	11	0.00	0.00	0.00	0.00	36	1.5	2.1	35	63	11	3.2
18	11	0.00	0.00	0.00	0.00	8.0	2.0	1.6	30	67	9.4	2.8
19	10	0.00	0.00	0.00	0.00	2.5	0.94	0.46	26	63	12	2.0
20	9.2	0.00	0.00	0.00	0.00	6.7	0.29	0.03	23	66	9.5	1.5
21	8.4	0.00	0.00	0.00	0.00	7.4	0.02	0.02	21	49	9.6	3.4
22	8.4	0.00	0.00	0.00	0.00	7.1	0.01	0.31	26	39	25	5.9
23	5.9	0.00	0.00	0.00	0.00	8.2	0.01	0.22	57	37	31	30
24	4.2	0.00	0.00	0.00	0.00	9.7	0.00	0.01	51	32	33	34
25	2.4	0.48	0.73	0.00	0.00	7.3	0.00	0.00	28	103	23	9.1
26	2.4	0.01	0.09	0.00	0.00	7.4	0.00	0.01	24	76	15	6.3
27	2.4	0.00	0.00	0.00	0.62	7.2	94	0.01	22	39	21	7.2
28	2.0	0.00	0.00	0.00	0.00	6.0	27	0.00	22	44	16	14
29	0.53	0.00	0.00	0.00	---	5.8	13	0.00	23	36	9.5	17
30	0.41	0.00	0.00	0.00	---	5.4	9.0	0.00	30	28	6.6	36
31	0.10	---	0.00	0.00	---	5.2	---	20	---	32	5.7	---
TOTAL	317.34	0.86	0.82	0.02	0.62	131.38	221.17	133.97	1,925	1,787	470.6	460.3
MEAN	10.2	0.03	0.03	0.00	0.02	4.24	7.37	4.32	64.2	57.6	15.2	15.3
MAX	22	0.48	0.73	0.02	0.62	36	94	20	257	167	35	113
MIN	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	14	5.7	1.5
AC-FT	629	1.7	1.6	0.04	1.2	261	439	266	3,820	3,540	933	913

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	31.1	14.0	11.1	9.06	8.97	7.25	3.99	5.37	30.3	44.6	49.2	47.3
MAX	88.1	47.0	64.3	59.6	98.2	41.1	12.0	25.6	89.0	92.9	118	126
(WY)	(1996)	(1988)	(2003)	(1998)	(1998)	(1998)	(1994)	(1991)	(2003)	(1995)	(2004)	(2000)
MIN	7.51	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.28	8.93	15.2	7.21
(WY)	(1989)	(2005)	(2005)	(2005)	(2000)	(2000)	(1999)	(1999)	(1998)	(2000)	(2005)	(1987)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1987 - 2005
ANNUAL TOTAL	7,478.26	5,449.08	
ANNUAL MEAN	20.4	14.9	22.3
HIGHEST ANNUAL MEAN			39.1 1995
LOWEST ANNUAL MEAN			12.7 1990
HIGHEST DAILY MEAN	305 Aug 4	257 Jun 11	1,040 Aug 25, 1995
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		357 Jun 11	1,370 Aug 25, 1995
MAXIMUM PEAK STAGE		3.63 Jun 11	5.11 Aug 25, 1995
ANNUAL RUNOFF (AC-FT)	14,830	10,810	16,190
10 PERCENT EXCEEDS	69	38	58
50 PERCENT EXCEEDS	4.6	3.5	8.5
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1989, 1996-2005.

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.

SURFACE WATER QUALITY RECORDS
FIELD MEASUREMENTS

SURFACE WATER QUALITY RECORDS

FIELD MEASUREMENTS

Station number	Local identifier	Latitude	Longitude	Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
02282700	MIDDLE RIVER CANAL AT S-36	26 10 22 N	080 10 47 W	11-10-04	0930	649	78.0
		26 10 22 N	080 10 47 W	01-31-05	1220	647	80.0
		26 10 22 N	080 10 47 W	05-11-05	1240	595	72.0
		26 10 22 N	080 10 47 W	08-05-05	1420	605	70.0
02283200	PLANTATION RD CA AT S-33 N	26 08 05 N	080 11 42 W	11-10-04	0949	434	50.0
		26 08 05 N	080 11 42 W	01-31-05	1330	657	98.0
		26 08 05 N	080 11 42 W	05-11-05	1256	604	92.0
		26 08 05 N	080 11 42 W	08-05-05	1439	413	46.0
02285101	NORTH NEW RIVER CA AT SR7	26 05 15 N	080 12 00 W	11-10-04	1119	855	115
		26 05 15 N	080 12 00 W	01-31-05	1408	2970	780
		26 05 15 N	080 12 00 W	05-11-05	1415	586	66.0
		26 05 15 N	080 12 00 W	08-11-05	1451	675	88.0
260037080100700	HOLLYWOOD CANAL AT HOLLYWO	26 00 37 N	080 10 07 W	10-28-04	1225	3230	900
		26 00 37 N	080 10 07 W	02-04-05	1300	20600	7500
		26 00 37 N	080 10 07 W	04-13-05	1200	9570	3100
		26 00 37 N	080 10 07 W	07-06-05	1010	718	76.0
260104080101300	HOLLYWOOD CANAL AT JOHNSON	26 01 04 N	080 10 13 W	10-28-04	1250	4180	1240
		26 01 04 N	080 10 13 W	02-04-05	1315	22500	7800
		26 01 04 N	080 10 13 W	04-13-05	1310	10300	3300
		26 01 04 N	080 10 13 W	07-06-05	1020	609	62.0
260132080094900	HOLLYWOOD CANAL AT TAFT ST	26 01 32 N	080 09 49 W	10-29-04	1013	13100	4300
		26 01 32 N	080 09 49 W	02-04-04	1200	34200	12600
		26 01 32 N	080 09 49 W	04-15-05	1200	18200	6000
		26 01 32 N	080 09 49 W	07-06-05	1051	747	114
260212080112500	HOLLYWOOD CANAL AT N46 AVE	26 02 12 N	080 11 25 W	10-29-04	1121	993	235
		26 02 12 N	080 11 25 W	02-04-05	1330	1030	295
		26 02 12 N	080 11 25 W	04-15-05	1315	972	255
		26 02 12 N	080 11 25 W	07-06-05	1132	514	118
260225080095800	HOLLYWOOD CANAL AT N29 AVE	26 02 25 N	080 09 58 W	10-29-04	1104	15600	5500
		26 02 25 N	080 09 58 W	02-04-05	1150	27700	10300
		26 02 25 N	080 09 58 W	04-15-05	1100	23700	8400
		26 02 25 N	080 09 58 W	07-06-05	1120	1260	170

NATIONAL WATER-QUALITY ASSESSMENT
(NAWQA) DATA NOT AVAILABLE AT TIME OF PUBLICATION

INFORMATION ABOUT THE USGS, NAWQA-PROGRAM FOR THE FLORIDA INTEGRATED SCIENCE CENTER , IS AVAILABLE ON THE INTERNET AT http://fl.water.usgs.gov/Tampa

THIS PAGE IS INTENTIONALLY BLANK

INDEX TO INTRODUCTORY TEXT

THIS PAGE IS INTENTIONALLY BLANK

VOLUME 2A: SOUTH FLORIDA

INDEX TO INTRODUCTORY TEXT

INDEX TO INTRODUCTORY TEXT (continued)

Page

INDEX TO SURFACE WATER SITES IN THIS REPORT

THIS PAGE IS INTENTIONALLY BLANK

VOLUME 2A: SOUTH FLORIDA

INDEX TO SURFACE WATER SITES IN THIS REPORT

INDEX TO SURFACE WATER SITES IN THIS REPORT--continued

INDEX TO SURFACE WATER SITES IN THIS REPORT--continued

Page

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (×C) may be converted to degrees Fahrenheit (°F) as follows:

°F = (1.8 x °C) + 32