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Volume 2A. South Florida Surface Water

By C. Price, J. Woolverton, K. Overton

Water-Data Report FL-01-2A



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



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GALE NORTON, Secretary
U.S. GEOLOGICAL SURVEY
CHARLES G. GROAT, Director

Prepared in cooperation with the
State of Florida
and other agencies as listed
under cooperation

For additional information write to:

Subdistrict Chief
Water Resources Division
U.S. Geological Survey
9100 N.W. 36th Street
Suite 107
Miami, Florida 33178
Telephone: (305) 717-5800

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

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 M. H. Murray, J. Woolverton, E. C. Price, and S. Prinos. Lillian R. Feltman and Eleanor Seymore 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

Miami Subdistrict Office

M. Byrne	P. Mackay	R. Rodriguez
E. Debiak	L. Massey	G.C. Romero
M.J. Diamond	E. McGuire	E. Seymore
L.R. Feltman	D. Milewski	L. Soderqvist
E. Figueroa-Gibson	E. Mangual	R. Solis
S. Hammermeister	M.H. Murray	M. Stewart
N. Keppie	M.A. Oliver	R. Verdi
D. Kluesner	K.B. Overton	R. Wali
E. Kozma	J. Paulat	J. Woolverton
G. Krupp	S. Ploos	
R.B. Irvin	G. Poole	
C. Lietz	C. Price	
J. Lima	S. Prinos	

This report was prepared in cooperation with the State of Florida and with other agencies under the general supervision of Maria M. Irizarry, Subsdistrict Chief, and Carl Goodwin, District Chief, Florida.

Hydrologic data for south Florida are contained in two volumes

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

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13. ABSTRACT (Maximum 200 words) Water resources data for 2001 water year in Florida consists of continuous or daily discharge for 404 streams, periodic discharge for 15 streams, continuous or daily stage for 154 streams, periodic stage for 12 stream, peak discharge for 37 streams, and peak stage for 37 streams, continuous or daily elevations for 12 lakes, periodic elevations for 50 lakes, continuous ground-water levels for 426 wells, periodic ground-water levels for 1251 wells, quality of water data for 112 surface-water sites, and 235 wells. The data for South Florida included continuous or daily discharge for 89 streams, continuous or daily stage for 64 streams, no peak stage discharge for streams, 1 continuous elevation for lake, continuous ground-water levels for 244 wells, periodic ground-water levels for 255 wells, water quality for 32 surface-water sites, and 166 wells. The data represent the National Water Data System records collected by the U.S. Geological Survey and cooperation with local, state, and federal agencies in Florida.				
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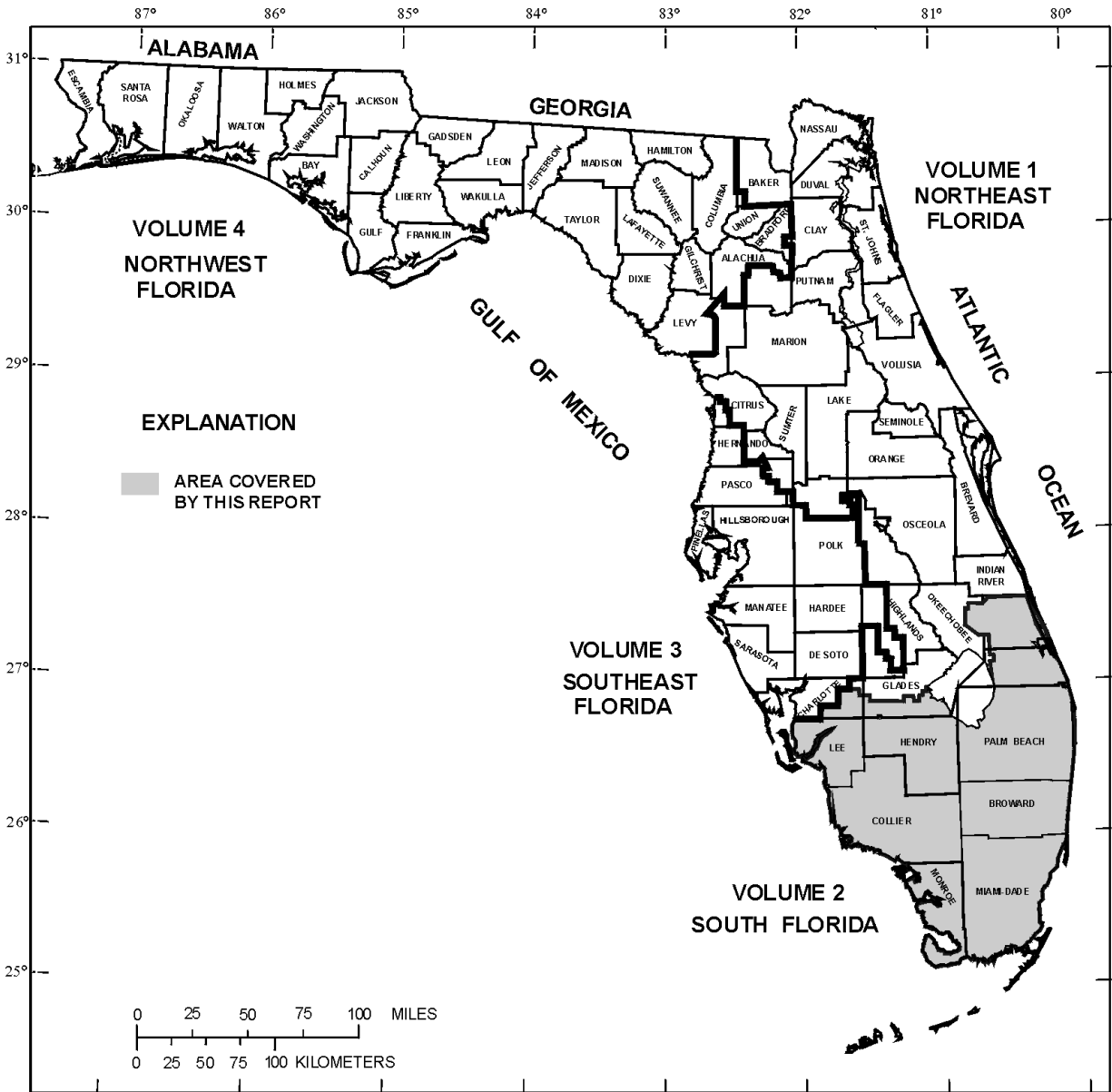


Figure 1. Geographic area covered by this report.

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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, gage heights, (q) water quality]

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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.

Station name	Station number	Period of record water years published
Airplane Prairie near Monroe, Fl (e)	.260345081053500	.1979 - 1980
Angelfish Creek near Florida City, Fl (e)	.02290757	.1971
Barnes Sound at Key Largo, Fl (e)	.02290784	.1971
Barnes Sound near Florida City, Fl (e)	.02290760	.1967 - 1968
Big Cypress Swamp at Everglades Parkway, near Sunniland, Fl (d)	.02288830	.1970 - 1971
Big Cypress Swamp at Training Airport, near Miami, Fl (d)	.02288970	.1970 - 1974
Big Cypress Swamp below Training Airport, near Miami, Fl (e)	.02288971	.1970 - 1974
Big Cypress Swamp Pinelands near monroe, Fl (e)	.255737081043200	.1979 - 1980
Big Cypress Watershed at Everglades Pky, nr Big Cypress Indian Reservation, Fl (d)	.02289033	.1970 - 1971
Billy Creek at Ft Myers, Fl (e)	.02293200	.1944 - 1955
Biscayne Bay at Coconut Grove, Miami, Fl (e) (formerly published under station number 02290755)	.02290540	.1963 - 1981
Biscayne Bay at Elliott Key, near Homestead, Fl (e)	.02290737	.1967 - 1968
Biscayne Bay at Key Biscayne, near Miami Beach, Fl (e) (formerly published under station number 02290753)	.02290543	.1964, 1967- 1968
Biscayne Bay at North Miami, Fl (e)	.02290750	.1963 - 1981
Biscayne Bay near Homestead, Fl (e) (formerly published under station number 02290760)	.02290732	.1963 - 1981
Biscayne Bay at Ragged Key No. 5 near Florida City, Fl (e)	.02290705	.1971
Biscayne Canal at Red Road, near Opa-Locka, Fl (e)	.02286320	.1963 - 1979
Biscayne Canal at North Miami, Fl (e)	.02286330	.1963
Biscayne Canal at S-28, near Miami, Fl (d)	.02286340	.1962 - 1985
Black Creek near Richmond Heights, FL (e)	.02290707	.1971 - 1979
Black Creek Canal below S-21 near Goulds, Fl (e)	.02290711	.1971
Broad River near Everglades, Fl (d) (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 (e)	.02281490	.1989 - 1993
C-2 Canal below S-4 near Deerfield Beach, Fl (e)	.02281491	.1989 - 1993
Camelot Canal at Control at Cape Coral, Fl (e)	.02293245	.1987 - 1990
Camelot Canal below Control at Cape Coral, Fl (e)	.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)	.02286962	.1970 - 1981
Canal 111 above S-197 near Florida City, Fl (d)	.251713080263300	.1984
Canal 111 at Clv.5 between S-18C and S-197 nr Homest., 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)	.265218080144300	.1980 - 1982
Canal M near Mangonia Park, Fl (d)	.02277900	.1970 - 1977
Card Sound at Angelfish Creek near Florida City, Fl (e)	.02290756	.1971
Card Sound at Model Land Canal, near Florida City, Fl (e)	.02290750	.1967 - 1981
Card Sound Canal near Florida City, Fl (d)	.02290739	.1972 - 1974
Cape Florida Channel near Key Biscayne, Fl (e)	.02290590	.1970
Ceasar Creek at Adam Key, near Florida City, Fl (e)	.02290738	.1971
Charlotte Harbor at Bokeelia, Fl (e)	.02293340	.1990 - 1993
Cocohatchee River Canal near Naples, Fl (d)	.02291400	.1966
Cocohatchee River Canal near Naples Park, Fl (d)	.02291393	.1969 - 1984

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

Station name	Station number	Period of record water years published
Comfort Canal at N.W. 29th Avenue, Miami, Fl (e) (formerly published as South Fork Miami River at N.W. 29th Avenue)	02290520	.1962 - 1970
Coral Gables Canal at Red Road, Coral Gables, Fl (e)	02290560	.1963 - 1970
Coral Gables Canal at Tamiami Canal, near Coral gables, Fl (d)	02290550	.1960 - 1963
Coral Gables Canal near South Miami, Fl (d)	02290580	.1961 - 1966
Cypress Creek Canal at S-37A, near Pompano Beach, FL (D)	02282100	.1964 - 1985
Cypress Creek near Jupiter, Fl (d)	.265816080110000	.1980 - 1982
E. Tributary N. Fork Loxahatchee River nr Hobe Sound, Fl (d)	270036080070500	.1980 - 1981
El Rio Canal near Boca Raton, Fl (d)	02281625	.1970 - 1972
gage heights only		.1973 - 1977
El Rio Canal, SW 18th Street, Boca Raton, Fl (e)	.261953080054900	.1982 - 1985
Equalizing Canal 1 near Greenacres City, Fl (e)	02281419	.1970 - 1972
Equalizing Canal 1 near Delray Beach, Fl (e)	02281425	.1970 - 1977
Equalizing Canal 3 near Greenacres City, Fl (e)	02281513	.1970 - 1977
Equalizing Canal 3 near Delray Beach, Fl (e)	02281532	.1970 - 1972
Equalizing Canal 3 near Boca Raton, Fl (e)	02281544	.1970 - 1977
Everglades 1-128S near Boynton Beach, Fl (e)	02281282	.1974 - 1975
Everglades 1-141S near Loxahatchee, Fl (e)	02281278	.1974 - 1976
Everglades 1-142S near Delray Beach, Fl (e)	02281291	.1974 - 1976
Everglades 159 south of pump station 6 near Andytown, Fl (e)	262300080263501	.1977 - 1980
Everglades 160 south of pump station near Lake Harbor, Fl (e)	261557080464301	.1977 - 1980
Everglades 201-NP, near Homestead, Fl (e)	.02290861	.1975 - 1980
Everglades 202-NP, near Miami, Fl (e)	.02290862	.1975 - 1980
Everglades 203-NP, near Homestead, Fl (e)	02290832	.1974 - 1980
(formerly published as Everglades P-5S)		
Everglades 204-NP near Homestead, Fl (e)	02290829	.1974 - 1980
(formerly published as Everglades P-145)		
Everglades 205-NP, near Miami, Fl (e)	02290868	.1975 - 1980
Everglades 206-NP, near Miami, Fl (e)	02290811	.1975 - 1980
Everglades 207 near Homestead, Fl (e)	02290810	.1963 - 1980
(formerly published as "Everglades P-37 near Homestead")		
Everglades 2-111S near Andytown, Fl (e)	02284642	.1974 - 1981
Everglades 2-112S near Margate, Fl (e)	02284644	.1974 - 1976
Everglades 3-62S near Andytown, Fl (e)	02286960	.1974 - 1979
Everglades 3-63S near Andytown, Fl (e)	02286998	.1974 - 1979
Everglades 3-64S near Miramar, Fl (e)	02286970	.1974 - 1979
Everglades 3-65S near Miami, Fl (e)	02289043	.1974 - 1980
Everglades P-33 near Homestead, Fl (e)	02290815	.1963 - 1980
Everglades P-34 near Homestead, Fl (e)	02290870	.1963 - 1980
Everglades P-35 near Homestead, Fl (e)	02290830	.1963 - 1980
Everglades P-36 near Homestead, Fl (e)	02290828	.1969 - 1980
Everglades P-38 near Homestead, Fl (e)	02290820	.1963 - 1980
Everglades P-103 near Florida City, Fl (e)	02290790	.1967 - 1969
Everglades P-104 near Florida City, Fl (e)	02290794	.1967 - 1969
Fakahatchee Slough at Janes Road near Copeland, Fl (d)	02291047	.1970 - 1972
Faka Union Canal near Copeland, Fl (d)	02291143	.1970 - 1984
Faka Union Canal near Deep Lake, Fl (d)	.260342081312500	.1978 - 1984
Faka Union Canal near Sunniland, Fl (e)	.261616081314400	.1978 - 1984
Florida Bay at Flamingo, Fl (e)	02290825	.1963 - 1980
Florida City Canal near Florida City, Fl (e)	02290735	.1963 - 1967
Garden Cove near Key Largo, Fl (e)	02290786	.1967 - 1968
Gator Hook Strand near Ochopee (e)	.254724081111300	.1979 - 1980
Golden Gate Canal at Naples, Fl (d)	02291300	.1965 - 1984
Golden Gate Canal near Naples, Fl (d)	.261148081401700	.1978 - 1984
Golden Gate Canal near Sunniland, Fl (d)	.261642081334200	.1978 - 1984
Gordon River at Naples, Fl (e)	02291280	.1972 - 1984

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

Station name	Station number	Period of record water years published
Goulds Canal near Goulds, Fl (e) (formerly published under station number 02290715)	02290711	.1963 - 1967
Grand Canal near Florida City, fl (d)	02290734	.1972 - 1974
Gum Slough near Monroe, Fl (e)	.254230081022000	.1979 - 1980
Harney River near Homestead, Fl (d) (gage heights only 1968 - 1969)	02290860	.1960 - 1967
Henderson Creek Canal near Naples, Fl (d)	02291270	.1968 - 1984
Henry Creek at Henry Creek Lock near Sherman, Fl (This station was transferred to the Altamonte Springs Office)	02275705	.1993 - 1995
Hillsboro Canal at S-39, near Deerfield Beach, Fl (e)	02281300	.1957 - 1967
Hillsboro Canal in Cons. Area No. 1 at S-6 nr Shawano, Fl (e)	02281201	.1963 - 1968
Hillsboro Canal near Deerfield Beach, Fl (d)	02281500	.1940 - 1991
Hillsboro Canal below Deerfield Locks, Deerfield Beach, Fl (e)	02281501	.1963 - 1991
Hillsboro River at Deerfield Beach, Fl (e)	02281650	.1968 - 1978
Hobe Groves Ditch, near Jupiter, Fl (d)	.265907080103000	.1980 - 1982
Hollywood Canal at Dania, Fl (d)	02286150	.1962 - 1967
Intracoastal Waterway at Barnes Point, near Florida City, Fl (e)	02290762	.1971
Intracoastal Waterway at Blue Heron Blvd. at Riveria, Beach, Fl (e)	02277960	.1971 - 1977
Intracoastal Waterway at Delray Beach, Fl (e)	02279520	.1971 - 1973
Intracoastal Waterway at Donald Ross Road, nr Juno Beach, Fl (e)	02277730	.1971 - 1973
Intracoastal Waterway at Golden Beach, Fl (e)	02281670	.1970 - 1979
Intracoastal Waterway at Hollywood, Fl (e)	02286160	.1968 - 1978
Intracoastal Waterway at Lauderdale-by-the Sea, Fl (e)	02282300	.1968 - 1978
Intracoastal Waterway at Port Everglades, at Hollywood, Fl (e)	02286143	.1968 - 1978
Intracoastal Waterway at Southern Blvd. at Palm Beach, Fl (e)	02277994	.1971 - 1973
Intracoastal Waterway at SR 706 at Jupiter, Fl (e)	02277738	1980 - 1981, 1989 - 1992
Intracoastal Waterway at SR 707 at Jupiter, Fl (e)	02277747	1980 - 1981, 1989 - 1992
L-28 Interceptor Canal South at Collier border, Fl (d,g)	.260823080524100	.1997 - 2000
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 (e)	02281468	.1989 - 1991
Lateral Canal at Seminole Road near Loxahatchee, Fl (e)	02278698	.1973 - 1977
Lateral Canal in Acme Drainage District, near Loxahatchee, Fl (e)	02281297	.1973 - 1977
Lateral Canal in Loxahatchee Groves near Loxahatchee, Fl (e)	02278732	.1973 - 1977
Lateral Canal on 130th Ave. North, near Jupiter, Fl (e) (formerly published as Lateral Canal on Hynie Lane Road)	02277470	.1973 - 1977
Lateral Canal on Jupiter Farms Road, near Jupiter, Fl (e)	02277480	.1973 - 1977
Levee 3 Canal near Clewiston, Fl (d) Revised 1978-90 in WRD-2A-96	02289030	.1970 - 1990
Levee 28 Tieback Canal, near Andytown, Fl (e)	02289027	.1970 - 1974
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 (e)	02290827	.1971 - 1980
Levee 67 Extended Canal at South End near Coopertown, Fl (e)	253735080402100	.1977 - 1980
Little River Canal at Palm Avenue, Hialeah, Fl (e)	02286350	.1963 - 1979
Little River Canal at S-27, at Miami, Fl (d)	02286380	.1960 - 1969
Lostmans River near Everglades, Fl (d)	02290920	.1962 - 1965
(period of record published in 1967 volume 2A)		
Loxahatchee River at Indiantown Road near Jupiter FL (q)	.265613080100700	.1989 - 1998
Loxahatchee River at Sunshine State Pkwy., nr Jupiter, Fl (d)	265713080095600	.1980 - 1982
Loxahatchee River near Hobe Sound, Fl (e)	.265916080083500	.1977 - 1981
M-1 Canal at Canal M near Royal Palm Beach, Fl (e)	02278760	.1975 - 1977
M-2 Canal in Royal Palm Beach Colony near Loxahatchee, Fl (e)	02277750	.1973 - 1977
Mackinac Canal at Cape Coral, FL (d,g)	02293216	.1987 - 1996

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

Station name	Station number	Period of record water years published
Manatee Bay at Canal 111, near Florida City, Fl (e)	02290782	1967 - 1969
Main Lake Outlet near Ft Myers, Fl (e)	02291736	1988 - 1989
Matlacha Pass at Indian Field Island near Matlacha, Fl (e)	02293342	1991 - 1993
Matlacha Pass at Matlacha, FL (g,g)	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 (e)	02286699	1962 - 1968
(formerly Miami Canal at S-8 (auxiliary) 02286700)		
Miami Canal above S354 and S-3, at Lake Harbor, FL (g)	02286399	1958 - 1998
(Prior to October 1988, published as Miami Canal at HGS-3 and S-3 at Lake Harbor)		
Miami Canal at broken dam, near Miami, Fl (d)	02287400	1960 - 1968
		1985 - 1989
Miami Canal at N.W. 27th Avenue, Miami, Fl (e)	02290510	1963 - 1979
Miami Canal at Palmetto Bypass near Hialeah, Fl (d)	02288200	1960 - 1981
Miami Canal at Pennsuco near Miami, Fl (d)	02287500	1963 - 1979
Miami River at Brickell Ave., Miami, Fl (d)	02290530	1961 - 1966
Middle River Canal at U.S. Highway 1, near Ft. Lauderdale, Fl (d)	02282800	1964 - 1967
Mid. Tributary N. Fork Loxahatchee R. nr Hobe Sound, Fl (d)	270028080074200	1980 - 1981
Military Canal near Homestead, Fl (e)	02290720	1963 - 1969
Model Land Canal near Florida City, Fl (e)	02290740	1963 - 1969
Model Land Canal below ML-2, near Florida City, Fl (e)	02290746	1963 - 1968
(formerly Model Land Canal at control "auxillary" 02290745)		
Monreve Ranch drainage canal near Stuart Fl (d)	02276984	1959 - 1973
(formerly published under station number 02276800)		
Mowry Canal near Homestead, Fl (d)	02290725	1970 - 1989
		gage heights only published 1963 - 1970
New River at Ft. Lauderdale, Fl (d)	02286140	1963 - 1967
North Canal near Homestead, Fl (e)	02290730	1963 - 1968
North Line Canal near Miami Springs, Fl (d)	02289900	1960 - 1963
North New River Canal below S-34, near Ft. Lauderdale, Fl (d)	02284700	956 - 1967
North New River Canal near Ft. Lauderdale, Fl (d)	02285000	1939 - 1992
North New River Canal below control near Ft. Lauderdale, Fl (e)	02285001	1962 - 1992
(formerly published as 02285000 North New River Canal (auxiliary))		
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 (e)	261205081200000	1979 - 1980
Pine Channel near Big Pine, Fl	244123081225301	1976
Pinecrest Hammocks near Monroe, Fl (e)	254635080541500	1979 - 1980
Pompano Canal at Pompano Beach, Fl (d)	02282000	1964 - 1969
(Prior to October 1948, published as Cypress Creek Canal at Pompano)		
Pompano Canal at S-38, near Pompano Beach, Fl (d)	02281700	1962 - 1967
Roberts Lake Slough near Monroe, Fl (d)	02290950	1973 - 1980
Rogers River near Everglades, Fl (d)	02290900	1962 - 1965
(period of record published in 1967 volume 2A)		
Sanibel River at Snibel, Fl (e)	02293250	1972 - 1977
Savannahs Drainage Canal at Port St Lucie, Fl (d)	02276568	1976 - 1977
Shark River near Homestead, Fl (d)	02290850	1960 - 1966
(gage heights only 1967 - 1969)		
Site 15 nr L-39 in Conserv. Area No. 2A near Shawano, FL (g)	262400080250001	1991 - 1997
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 (e)	02293288	1990 - 1992
Snake Creek Canal at S-29, 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 (e)	02290610	1963 - 1981
(formerly published under station number 02290600)		

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

Station name	Station number	Period of record water years published
Snapper Creek Canal near Coral Gables, Fl (d)	02290600	1960 - 1967
gauge 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 (e) See Comfort Canal at N.W. 29th Avenue		
South New River Canal in Conservation Area No. 3 at S-9 (e)	02285399	1963 - 1970
South New River Canal at S-9 near Davie, Fl (d)	02285400	1958 - 1970
South New River Canal at U.S. Highway 27 near Davie, Fl (e)	02285410	1975
Southwest Fork Loxahatchee River at Jupiter, Fl (e)	265635080071900	1980 - 1981
Southwest Fork Loxahatchee River at S-46 (d)	02277700	1959 - 1965
Stilt City Tidal Station at Indian Field, nr Matlacha, Fl (e)	263935082052501	1990 - 1991
Tamiami Canal at 40-mile bend, near Miami, Fl (e)	02288990	1961 - 1980
(formerly published as 02288900 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 (e)	02288780	1962 - 1980
(formerly published as 02288800 Tamiami Canal at bridge 77 (auxiliary))		
Tamiami Canal at bridge 83, near Ochopee, Fl (e)	255327081161300	1979 - 1980
Tamiami Canal at bridge 96, at Monroe Fl (e) (twice monthly)	02288860	1962 - 1980
(formerly published as 02288900 Tamiami Canal at bridge 96 (auxiliary))		
Tamiami Canal at bridge 115, near Miami, Fl (e) (twice monthly)	02288945	1962 - 1980
(formerly published as 02288900 Tamiami Canal at bridge 115 (auxiliary))		
Tamiami Canal at Red Road, Miami, Fl (e)	02290500	1963 - 1980
Tamiami Canal east of levee 30, near Miami, Fl (e)	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 (e) (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 (e)	251148080410300	1979 - 1980
Taylor Slough at Royal Palm near Homestead, Fl (e)	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 (e)	02281435	1968 - 1969
Warner Creek near Jensen Beach, Fl (d)	02277107	1976 - 1977
West Rolling Oaks Feeder Canal Near Davie, Fl (e)	02285420	1975

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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 of streams; and stage, contents, and water quality of lakes; and ground-water levels, contents, and water quality of ground-water wells. The data for south Florida include continuous or daily discharge for 89 streams, continuous or daily stage for 64 streams, continuous elevations for 1 lake, continuous ground-water levels for 244 wells, periodic ground-water levels for 255 wells, and quality-of-water data for 32 surface-water sites and 166 wells.

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 changed 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 changed to one volume presenting data on quantity and quality of surface water, and one volume presenting data on water levels and quality of ground water.

Prior to introduction of this series and for several concurrent water years concurrent with it, water-resources data for Florida were published in USGS Survey 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 above-mentioned Water-Supply Papers may be consulted in the 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).

Publications similar to this report are published annually by the USGS for all 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-2A," 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, U.S. Department of Commerce, Springfield, VA 22161. 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 (305) 717-5800.

WATER RESOURCES DATA - FLORIDA, 2001

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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 Survey are:

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

Organizations that provided data are acknowledged in station manuscripts.

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SUMMARY OF HYDROLOGIC CONDITIONS

This section summarizes important hydrologic events that occurred during the 2001 water year (October 1, 2000 to September 30, 2001) 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.

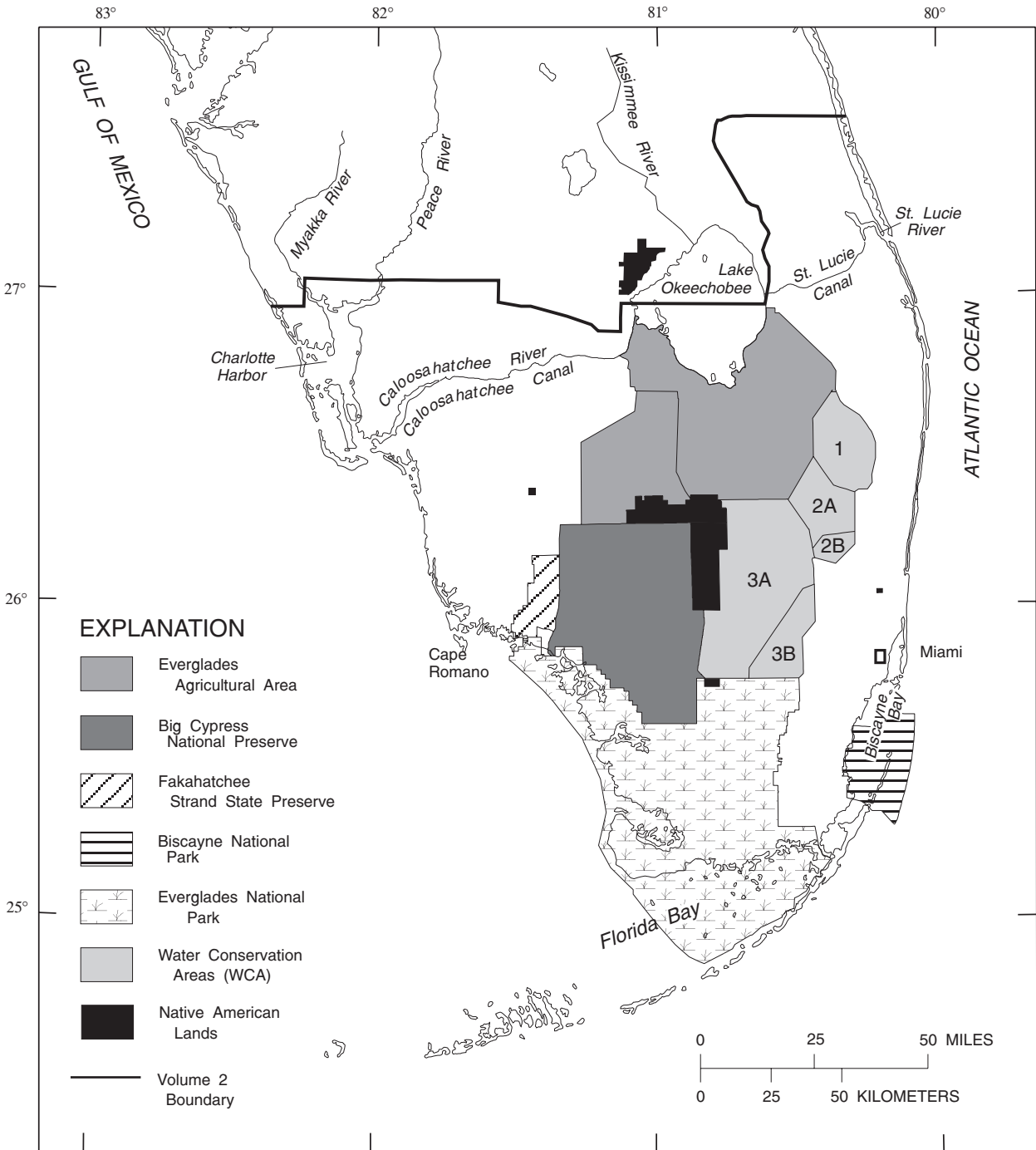


Figure 2. South Florida areas of hydrologic significance.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

During the 2001 water year, the Miami Subdistrict monitored 89 continuous discharge stations, 64 continuous stage stations, 1 lake, and collected water-quality data at 32 miscellaneous sites in cooperation with local, State, and Federal agencies.

October began with a direct hit by a poorly organized tropical disturbance (which later became Tropical Storm Leslie). About 10 to 20 inches of rain fell in areas of Miami-Dade County and extreme southeastern Broward County. In response, heavy flood control releases were made from the coastal canals as needed. After a cold frontal passage on October 9, the month became very dry; in the second half of the month, the South Florida Water Management District (SFWMD) kept the canal levels and storage areas as high as allowed to conserve the excess water from the storm. Lake Okeechobee received less than average rainfall for the month, rising in the first half and falling in the second half of the month due to dry conditions and water demands including water-supply releases to the Caloosahatchee River. All locks were open around the lake. The U.S. Army Corps of Engineers (USACE) released excess water from the St. Lucie Canal into Lake Okeechobee, but there were no releases into the St. Lucie estuary. The USACE initiated flood-control pumping from the Everglades Agricultural Area (EAA) into Lake Okeechobee due to the high rainfall. Releases ended at S-333 near the beginning of the month, and releases from the S-12 structures continued according to the rainfall regulation control plan.

November 2000 was the driest in 30 years, with rains averaging 19 percent of the monthly historical average. The one exception was Palm Beach County where a localized rain event dropped about 6 inches of water in 1 day. This caused the SFWMD to lower water levels in the canals in the area to remove excess water by releases through some coastal structures and by pumping. Because of the dry conditions, Lake Okeechobee declined about 0.5 foot (to 11.59 feet) at the end of the month. This led to the implementation of the Supply Side Management (SSM) plan for water delivery in the area. This plan limits the amount of agriculture use releases from Lake Okeechobee each week. Water-supply releases were made into the Caloosahatchee River according to the SSM plan and navigation needs. Environmental releases were made into the Caloosahatchee estuary due to increased chloride concentrations. The stages in all water-conservation areas (WCA's) decreased, resulting in more water demand from Lake Okeechobee.

December generally produced well below average rainfall, except for Miami-Dade and Broward Counties when a stalled front produced nearly 14 inches of rain in 5 hours over portions of Miami-Dade County. Due to this heavy rain, flood-control releases were made from the coastal canals. To minimize water usage from storage areas, the SFWMD released excess water in some canals into canals in need of water by operating control structures or coordinating operation with secondary drainage districts. Lake Okeechobee continued to decline until the end of the month reaching 11.21 feet. All locks around Lake Okeechobee remained open, and releases were made according to the SSM plan and navigation needs. Stages in the EAA decreased and operations focused on water conservation. Water levels in the WCA's continued to decline, though releases were made as necessary.

Drought conditions continued in January with rains averaging only 28 percent of the historical average. Lake Okeechobee continued to fall, reaching an elevation of 10.85 feet. Environmental releases were made into the Caloosahatchee River estuary to reduce chloride concentrations. The SSM plan was continued in use for the EAA and canals in the area continued to decline. Stages in the WCA's declined, and operations were designed for water conservation, although releases were made for water supply as needed. The SFWMD began to make releases into the South Dade Conveyance System from WCA 3B for water supply at the end of the month, and the SFWMD coordinated with secondary drainage districts to supply water to the coastal canals. Releases were made through the S-12 structures and S-333 as scheduled.

February was the driest month in 57 years and the driest November-February period on record back through 1927. Rains averaged 4 percent of the monthly historical average. Lake Okeechobee continued to decline, ending the month at an elevation of 10.56 feet. Water conservation stages continued to decline; with WCA 2 falling below its minimum water-supply level with WCA 2A falling below its regulation level for this time of year. Because of low WCA water levels, canals in Broward County began to decline. The water level in WCA 1 decreased rapidly due to high water demands and was near its minimum water-supply level by the end of the month. No water was released into the St. Lucie or Caloosahatchee River estuaries. In order to prevent high chloride concentrations in the Caloosahatchee Canal, the number of lockages allowed at S-79 was limited. Releases were made through the S-12 structures and S-333 as scheduled. Coastal canals gradually declined, and releases were made from WCA 3 to maintain optimum levels. No releases were made from WCA 2A; by the end of the month, canal stages in the South Dade Conveyance System declined below their water-supply trigger levels.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

March was the wettest month since September 2000. On average, the rains were 161 percent of the monthly historical average, but dry-season rains were still well below average. Lake Okeechobee continued to decline to reach 10.22 feet by the end of the month. Because of the low lake levels, some locks were not usable due to dry ground on the lake side approach. WCA's levels declined in the first half of the month, however, releases from Lake Okeechobee and the abundant rain caused the stages in WCA 1 and 2A to rise above minimum water-supply levels. No releases were made into the St. Lucie River estuary, and flood-control releases were made from the Caloosahatchee Canal into the estuary only the last 2 days of the month. The SFWMD began to operate pumping stations that released water from Lake Okeechobee into the EAA for water-supply need. The SFWMD also made flood-control releases into WCA's by gravity and pumps during the higher March rainfall event. The SFWMD Governing Board approved water-supply pumping into Lake Okeechobee (referred to as back pumping) as part of the Comprehensive Drought Management Implementation Plan. Also because of the higher rainfall event, water-supply back pumping was started on March 30th to pump the excess water in the EAA canals into Lake Okeechobee. The S-12 structures and S-333 were closed the entire month. Water-supply releases from WCA 3A were reduced to the South Dade Conveyance System because of low water levels. Canal water levels increased after the rain event, but were still below water-supply trigger levels.

April went back to a well below average month with only 23 percent of the average monthly rainfall received. An exception was Miami-Dade County, which received locally heavy rainfall at the end of the month. Average dry-season rainfall, thus far, was the least since 1971. Back pumping due to the rains in March was quickly halted, and Lake Okeechobee continued to decline and ended the month at 9.53 feet. Forward pumps were installed at S-351, S-352, and S-354 to access Lake Okeechobee water at stages below 9.5 feet. Some navigation locks remained inoperable. The SFWMD continued to implement the SSM plan. No releases were made into the St. Lucie River estuary, and very limited releases were made into the Caloosahatchee River estuary. During the last week of the month, the USACE approved deviations to water-supply plans for the WCA's because of drought conditions. Due to the heavy April rain event, the water level of WCA 1 was above minimum water-supply levels, and releases were made into coastal canals. By the end of the month the level of WCA 1 was below the minimum water-supply levels, but releases continued due to the approved deviations for the water-supply plan. WCA 2A continued to be below the minimum water-supply levels schedule and no releases were made. Only small releases were made through S-333, and the S-12 structures were closed all month. South Dade canals fluctuated with rainfall, and limited releases were made from WCA 3.

Rainfall totals for May were about average ending the driest dry period on record. Despite the normal rainfall, Lake Okeechobee continued to decline ending the month at 9.05 feet and setting a new all-time low record. There were no releases into the St. Lucie River estuary but there were only releases into the Caloosahatchee River estuary at the end of the month. Excess water from the St. Lucie River estuary was released into Lake Okeechobee. Forward pumping (pumping water out of Lake Okeechobee) continued with the temporary pumps into the EAA and WCA 1 for coastal needs. No releases were made from WCA 2A but regulatory releases continued from WCA 3A. Coastal canals continued to fluctuate with rainfall; at the end of the month with increased rainfall, some flood releases were made.

Rainfall for June was slightly below average. Water demand from Lake Okeechobee was also low, and the lake rose slightly to 9.26 feet by the end of the month. The forward pumps at S-352 were operated for only a few days, and any excess water from the St. Lucie and Caloosahatchee Canals was released into Lake Okeechobee. Pumps were operated at S-2 and S-3 to pump excess water from the EAA back into the lake. Releases were made into the Caloosahatchee River estuary. Water levels in the WCA's rose to regulatory levels, and releases were made from the WCA's without water from Lake Okeechobee. Instead of releasing water for Southern Miami-Dade County from WCA 3A, water was released through the S-12 structures and S-333 in accordance to the rainfall plan. All coastal canals except for L-8 were in their optimum ranges due to rainfall.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

In July, 151 percent of the average rainfall was received, making it the wettest month since 1941 with the highest totals recorded over the southwestern coast of Florida. Lake Okeechobee rose over 1 foot to end the month at 10.48 feet. Even with the rapid rise, the SSM plan was still implemented, but demand was very low. Water was released from the St. Lucie and Caloosahatchee Canals into the lake all month. Releases were made into the Caloosahatchee River estuary all month.

Water releases were made from the WCA's without inflow from Lake Okeechobee; during the second half of the month, water was released from WCA 1A to Lake Okeechobee. Coastal canals were at their optimum level except for L-8. Water was released into L-8 from the WCA's, and by the middle of the month Lake Okeechobee was at its optimum level. Some coastal canals made heavy flood control releases.

Much of the precipitation for August occurred during the first week because of rains associated with Tropical Storm Barry. Relatively dry conditions occurred later in the month. Lake Okeechobee rose 1.5 feet to end the month at 11.96 feet, which is still low for August. Excess water continued to be released into Lake Okeechobee from the EAA and WCA 2A. Additionally S-2 and S-3 pumped water into the lake for the entire month. Water from the Caloosahatchee and St. Lucie Canals was released into Lake Okeechobee. Flood releases were made into the Caloosahatchee River estuary all month; S-77 was closed due to rising lake levels and water was released to tide at S-79. The WCA's continued to rise to regulatory levels. Releases into the South Dade Conveyance System were made through the S-12 structures and S-333 according to the SSM plan. Heavy flood releases were made from the coastal canals, and S-197 was open at the beginning of the month for flood regulation.

Rain from Tropical Storm Gabriel and an early cold front caused September to be the wettest month since 1980 with the highest rainfall totals recorded along the southwestern coast of Florida. About 185 percent of the average rainfall was recorded this month. Lake Okeechobee continued to rise to 14.06 feet by the end of the month. Back pumping was stopped near the end of the month. Flood-control pumping at S-2 and S-3 into Lake Okeechobee became necessary due to the heavy rainfall. Water continued to be released into the lake from the St. Lucie Canal. S-77 remained closed and excess water was released to tide for the rest of the month. Flood-control releases were made into the WCA's because water levels rose all month. No releases were made from WCA 3A into the South Dade Conveyance System. Releases were made through S-12 structures and S-333 until southern trigger well G-3373 rose high enough to meet the maximum water-supply regulation schedule requirements. Water releases under Tamiami Trail were curtailed and discharge was maximized at the S-12 structures. Heavy flood control releases were made though all coastal canals and water levels were lowered to aid in drainage of secondary systems.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

The relation of period of record mean annual discharge to mean discharge for the current year for selected representative stations is given below (ft³/s, cubic feet per second; %, percent). Mean annual discharge for base period computed using only water years where discharge is complete. See station manuscript for further information about which water years were complete.

STATION NUMBER	STATION NAME	MEAN ANNUAL DISCHARGE		MEAN DISCHARGE FOR WATER YEAR 2001	
		BASE PERIOD	(ft ³ /s)	(ft ³ /s)	DEPARTURE FROM MEAN (%)
02277000	St. Lucie Canal at Lock (S-80), near Stuart, FL	1953-2001	740	35	-95

STATION NUMBER	STATION NAME	MEAN ANNUAL DISCHARGE		MEAN DISCHARGE FOR WATER YEAR 2001	
		BASE PERIOD	(ft ³ /s)	(ft ³ /s)	DEPARTURE FROM MEAN (%)
02278450	West Palm Beach Canal above S-5A, near Loxahatchee, FL	1958-2001	398	310	-22
02278500	Diversions to Water Conservation Area No 1 at S-5A and S-5A-S, near Loxahatchee, FL	1958-2001	373	284	-24
02278550	Levee 8 Canal at West Palm Beach Canal, near Loxahatchee, FL	1958-2001	140	-18.3	-113
02278600	West Palm Beach Canal below S-5A-E near Loxahatchee, FL	1956-2001	165	7.05	-96

STATION NUMBER	STATION NAME	MEAN ANNUAL DISCHARGE		MEAN DISCHARGE FOR WATER YEAR 2001	
		BASE PERIOD	(ft ³ /s)	(ft ³ /s)	DEPARTURE FROM MEAN (%)
02281200	Hillsboro Canal at S-6 near Shawano, FL	1958-81 1991-2001	227	207	-9
02284300	North New River Canal at S-7 at Terrytown, FL	1960-82 1991-2001	245	135	-45

WATER RESOURCES DATA - FLORIDA, 2001

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

The relation of period of record mean annual discharge to mean discharge for the current year for selected representative stations is given below (ft³/s, cubic feet per second; %, percent). Mean annual discharge for base period computed using only water years where discharge is complete. See station manuscript for further information about which water years were complete.

STATION NUMBER	STATION NAME	MEAN ANNUAL DISCHARGE		MEAN DISCHARGE FOR WATER YEAR 2001	
		BASE PERIOD	(ft ³ /s)	(ft ³ /s)	DEPARTURE FROM MEAN (%)
	Stations that monitor discharge from Lake Okeechobee into the Everglades Agricultural Area				
02280500	Hillsboro Canal below S-351, near South Bay, FL	1957-2001	15	68.2	355
02283498	North New River Canal at S-2 and S-351, near South Bay, FL	1968-2001	154	-198	-229
02286400	Miami Canal at S-354 and S-3, at Lake Harbor, FL	1958-2001	73.4	-77.5	-206

STATION NUMBER	STATION NAME	MEAN ANNUAL DISCHARGE		MEAN DISCHARGE FOR WATER YEAR 2001	
		BASE PERIOD	(ft ³ /s)	(ft ³ /s)	DEPARTURE FROM MEAN (%)
	Stations that monitor discharge into Big Cypress National Preserve and Everglades National Park				
02288800	Tamiami Canal Outlets, Monroe to Carnestown, FL	1960-2001	401	493	23
02288900	Tamiami Canal Outlets, Forty-Mile Bend to Monroe, FL	1964-2001	387	311	-20
02289040	Tamiami Canal Outlets, Levee 67A to 40 Mile Bend, near Miami, FL	1941-2001*	581*	408	-30
02289050	Tamiami Canal above S-333, near Miami, FL	1982-2001	238	172	-28
02289060	Tamiami Canal Outlets, Levee 30 to L-67A, near Miami, FL	1941-2001*	230*	204	-11
02291000	Barron River Canal near Everglades, FL	1952-2001	90.5	48.1	-47

* Discharge records are incomplete in the National Water Information System data base. Mean for period of record determined from discharge records in the files of the U.S. Geological Survey.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

The relation of period of record mean annual discharge to mean discharge for the current year for selected representative stations is given below (ft³/s, cubic feet per second; %, percent). Mean annual discharge for base period computed using only water years where discharge is complete. See station manuscript for further information about which water years were complete.

STATION NUMBER	STATION NAME	MEAN ANNUAL DISCHARGE		MEAN DISCHARGE FOR	DEPARTURE FROM MEAN (%)
		BASE PERIOD	(ft ³ /s)	WATER YEAR 2001	
02291500	Imperial River near Bonita Springs, FL	1940-54 1987-2001	99.7	101	1
02291524	Spring Creek Headwater near Bonita Springs, FL	1987-2001	9.17	6.74	-26
02291580	North Branch Estero River at Estero, FL	1987-2001	8.04	11.9	48
02291597	South Branch Estero River at Estero, FL	1987-2001	13	12.7	-2
02293240	Aries Canal at Cape Coral, FL	1990-2001	14.8	15.6	5
02293241	San Carlos Canal at Cape Coral, FL	1987-2001	5.1	8.03	57
02293243	Courtney Canal at Cape Coral, FL	1987-2001	10.3	15.8	53
02293345	Shadroe Canal at Cape Coral, FL	1987-2001	9.46	11.7	24
02293346	Horseshoe Canal at Cape Coral, FL	1987-2001	24.6	27.5	12
02293347	Hermosa Canal at Cape Coral, FL	1987-2001	22.4	27.3	22
264437081550100	Gator Slough at U.S. 41 near Ft. Myers, FL	1987-2001	7.15	7.3	2

WATER RESOURCES DATA - FLORIDA, 2001

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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 from Lake Okeechobee into St. Lucie Canal and then into the St. Lucie River Estuary:

02276870 St Lucie Canal at Lake Okeechobee (S-308)
02277000 St Lucie Canal at Lock, near Stuart (S-80)

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 Caloosahatchee River and then into San Carlos Bay:

02292000 Caloosahatchee Canal at Moore Haven (S-77)
02292480 Caloosahatchee Canal at Ortona Lock near La Belle (S-78)
02292900 Caloosahatchee River at S-79 near Olga

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
02283498 North New River Canal at S-2 and 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

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

02278450 West Palm Beach Canal above S-5A, near Loxahatchee
02281200 Hillsboro Canal at S-6 near Shawano
02284300 North New River Canal at S-7 at Terrytown
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

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

02278501 Water Conservation Area No. 1 below S-5 Complex, near Loxahatchee
263180080205001111 Site 7 in Water Conservation Area No. 1 near Shawano
263050080145001112 Site 8T in Water Conservation Area No. 1 near Boynton Beach
263000080120001113 Site 8C near L-40 in Water Conservation Area No. 1 nr Boynton Beach
262750080175001114 Site 9 in Water Conservation Area No. 1 near Boynton Beach
262400080250001115 Site 15 near L-39 in Water Conservation Area No. 2A near Shawano
261710080190001129 Site 19 in Water Conservation Area No. 2A near Coral Springs
262240080258001132 Site 17 near L-38, Water Conservation Area No. 2A nr Coral Springs
261117080315201135 Site 63 in Water Conservation Area No. 3A near Andytown
261023080443001138 Site 62 in Water Conservation Area No. 3A near Andytown
260810080222001139 Site 99 near L-35A in Water Conservation Area No. 2B near Sunrise
260037080303401146 Site 76 in Water Conservation Area No. 3B near Andytown
255828080401301147 Site 64 in Water Conservation Area No. 3A near Coopertown
255300080370001152 Site 69 in Water Conservation Area No. 3B near Coopertown
254848080432001154 Site 65 in Water Conservation Area No. 3A near Coopertown
255250080335001156 Site 71 in Water Conservation Area No. 3B near Coopertown

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)Surface-Water Station Functions (continued)

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)
254543080491101182 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)
02289050 Tamiami Canal above S-333, near Miami
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 USGS stations are representative of 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
251855080283400 Everglades 2B 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, Palm Beach, and Martin Counties:

02277000 St Lucie Canal at Lock, near Stuart (S-80)
02279000 West Palm Beach Canal at West Palm Beach (S-155)
02282700 Middle River Canal at S-36, near Fort Lauderdale
02283200 Plantation Road Canal at S-33, near Fort Lauderdale
02286100 South New River Canal at S-13, near Davie
02288600 Miami Canal at NW 36th Street, Miami (S-26)
02290710 Black Creek Canal at S-21, near Goulds
02292900 Caloosahatchee River at S-79 near Olga

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
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
264437081550100 Gator Slough at U.S. 41 near Ft. Myers
264139082022100 Gator Slough at SR 765 near Ft. Myers

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SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow from representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 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 Program (NAWQA); (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 can be found at <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) 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 a network of 225 precipitation chemistry monitoring 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 all data from the individual sites, can be found at <http://bqs.usgs.gov/acidrain/>.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey 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; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 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 will be 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 decision making by water-resources managers 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 to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at http://water.usgs.gov/nawqa/nawqa_home.html

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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 System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, 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 made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-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.

Numbering System For Wells and Miscellaneous Surface-Water Sites

The eight-digit downstream order station numbers are not assigned to wells and miscellaneous surface water sites. Where only random water-quality samples or discharge measurements are taken. In South Florida occasionally discharge sites are not assigned to downstream order number if located in areas where it is difficult to determine the downstream order.

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See Figure 13.)

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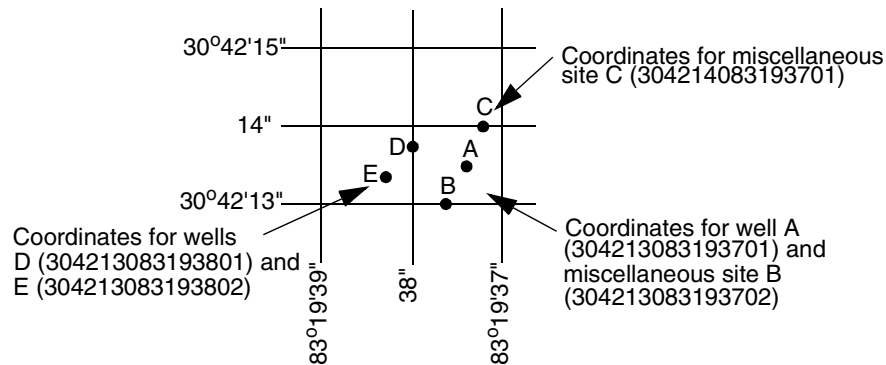


Figure 3. System for numbering wells and miscellaneous sites. (latitude and longitude)

RECORDS OF STAGE AND WATER DISCHARGE

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 data obtained at a complete-record gaging station on a stream or canal consist of a record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily mean discharges.

Records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. 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).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is

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determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This 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 set at some distance from the base gage. 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 gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined.

If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons.

For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or state manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preference.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and 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.

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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 to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate base maps available. The location of the gage 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 Measurements," 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 indicates the period for which there are published records 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 records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see GLOSSARY), 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 record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning 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 U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published 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 offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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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 skeleton stage-capacity table when daily contents are given.

Heading for AVERAGE DISCHARGE has been deleted and the information contained in this paragraph is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Daily 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 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 also is usually 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"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion 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 contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "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 figures. The designated period will be expressed as "FOR WATER YEAR ____-____, 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. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTIC" 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 record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station.

The water years for which the statistics are computed will be 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" statistics, 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 statistics 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 this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

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ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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 data 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).

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report).

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, 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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates 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

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for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of 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 generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some 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 either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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, figures 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.

In March 1989, the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Miami Subdistrict Office of the Florida District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

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RECORDS OF SURFACE-WATER QUALITY

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may 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 continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where water-quality data are collected systematically over a period of years, usually less frequently than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random 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 "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. 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.

Arrangement of Records

Water-quality records collected at a surface-water daily record station or a periodic observation 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.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the quality of the water in its natural state. To assure this, certain measurements, such as water temperature, pH, alkalinity, specific conductance, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the natural water, carefully prescribed procedures need to 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 detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapter A1, A3, and A4. These references are listed in the PUBLICATIONS ON THE TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

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 through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

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 stations equipped with water-quality monitors, the records consist of daily mean values for each constituent measured and are based upon unit values (hourly or 15-minute recordings).

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Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at 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.

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 sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were 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. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3.

These methods are consistent with ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, 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

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

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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, as appropriate, 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 under "Records of Stage and Water Discharge"; same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. 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 recording or sampling device, which may be time- or event-activated, 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 Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data- report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

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WATER-QUALITY RECORDSRemark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
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.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

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QUALITY-CONTROL DATA

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 this district 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.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by 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. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Source solution blank - a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank - a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

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.

Pump blank - a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank - a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

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.

Canister blank - a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

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Reference Samples

Reference material is a solution or material prepared by a laboratory whose 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. There are many types of replicate samples 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 sample - a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample - 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 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.

Concurrent sample - a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes

Split sample - a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

RECORDS OF GROUND-WATER LEVELS

Ground-water level data from a statewide network of observation wells are published herein. The records include data from wells equipped with water-level recorders and data from wells where water levels are measured periodically.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table.

Water-level records are obtained from direct measurements with a steel tape, pressure gage, manometer, or from the graph or punched tape of a water-level recorder. The measurements in this report are given in feet above National Geodetic Vertical Datum of 1929 or in some tables as feet below land-surface datum. Land-surface datum is a datum plane that is approximately at land surface at each well. The elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

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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-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 ± 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 ± 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 ± 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 ± 0.05 ft and uncertainty for those verified using pressure gage readings is generally considered to be about ± 0.1 ft.

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

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 of 1929). Scientific advances in determining vertical elevations have caused the development of the North American Vertical Datum of 1988 (NAVD of 88). The National Geodetic Survey (NGS) has completed an extensive releveling effort that provides elevations referenced to NAVD of 1988. Comparisons at specific benchmarks in Florida have indicated differences between NAVD of 88 and NGVD of 1929 of 0.50 ft or greater (Zilkoske, 1990). The U.S. Geological Survey is currently considering how best to utilize the newer NAVD of 1988 and yet maintain the continuity of data in south Florida.

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Water levels in wells open to highly transmissive aquifers may be affected by barometric pressure. The extent of this effect in a given well is called the barometric efficiency (BE). The BE is calculated by comparing the changes in water level at a well to the change in the ambient barometric pressure expressed as a column of water (Kruseman and Ridder, 1991). The water-level data in this publication have not been adjusted for barometric pressure effects.

Data Presentation

Each well record consists of two parts, the station description, the data table of water levels observed during the water year and possibly a graph of the water year or other selected period. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings of well description.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other 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 hourly, daily, weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft. above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water quality observation wells and may be used to acknowledge the assistance of local (non-survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. For wells equipped with recorders, only abbreviated tables are published; generally, daily maximums are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level. A hydrograph for a selected period of record may follow each water-level table.

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RECORDS OF BULK ELECTRICAL CONDUCTIVITY

Bulk conductivity is the combined electrical conductivity of all material (including pore water) within an approximately 8 to 40 inch doughnut shaped area surrounding an induction probe (McNeill and others, 1990). Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock. PVC casings do not interfere with these measurements but for those wells where a steel or galvanized iron casing extends part way down the well, the probe can not sense the materials outside of the casing. Usually, as the probe moves down the well and out of the influence of a metallic casing, a spike is created in the data. As the probe passes through different layers of rock, the different physical properties will cause conductivity values to vary. Generally, a clean sand or sandstone will produce lower conductivity values than clay or mudstone. While the properties of the rocks or well construction will remain constant from year to year, those of the porewater may change due to saline intrusion. Conductivity values from freshwater-saturated rocks are typically less than 25 mS/m, whereas conductivity values from saltwater-saturated rocks are typically greater than 67 mS/m (Hittle, 1999). Therefore, 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 are generally 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 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 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 conductivity plots 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.

In wells selected for induction logging, a water sample may be collected and analyzed as a check on the level of salinity. Because the bulk conductivity is a function of fluid conductivity, lithology, and porosity, the relationship between these logs and the chloride samples may not be as obvious as the relationship between fluid conductivity and chloride concentrations generally are. If the rock is not very porous then the change in bulk conductivity caused by changes in the salinity of the pore water may be smaller than might be expected. None the less, the long-term changes in the bulk conductivity logs are sufficient to assess upward or downward movement of the interface. To aid in interpretation of the bulk conductivity logs whenever chloride samples are collected on the same day as that log, the chloride concentration is shown on the plot of bulk conductivity.

The instrument used to collect data for this report is calibrated prior to each field session. The calibration procedure results in a calibration factor that converts raw instrument readings into calibrated values of conductivity. When data were graphed for the 2000 annual water resources data report, offsets and amplitude differentials occurred in the calibrated values of bulk conductivity for each well between successive years. Investigation revealed that the discrepancies were a function of differing calibration factors between years. Most calibration factors differed because of temperature and humidity differences during calibration procedures. Calibration procedures, adapted during the 2000 water year, are designed to minimize the influence of variable temperature and humidity. Before calibrating, the induction probe was run 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. Because of an error while calibrating the instrument for the 1998 water year, a high-end calibration parameter was used that differed from other years. The differing parameter caused a data offset at higher ends of the scale. A second factor that may have caused data offset and amplitude differentials occurred with data collected for the 2000 water year. Prior to logging for the 2000 water year, the instrument was updated with respect to firmware and software. After logging, it was found that the data had been truncated at the decimal point (see Accuracy of Bulk Conductivity).

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Accuracy of Bulk Conductivity

There are two components that affect the quality of the induction logs published in this report: (1) vertical or depth accuracy and (2) accuracy and precision of measured bulk conductivity. As indicated in the preceding section, the vertical accuracy which affects the interface position is the most critical factor in this monitoring effort. Therefore, as long as the interface is clearly indicated in the logs of bulk conductivity, the accuracy with which its depth can be determined is the primary component of interest. A quality control program sets the velocity of the probe at 12 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. Wherever possible, the data that was recorded as the probe was moved up the well was used to produce the plots for this report. Depth values between successive water years were adjusted, if needed, to coincide at explicitly identifiable conductivity peaks recorded from an upper part of the well. Depth values are interpolated to the nearest tenth of a foot. The precision of depth determinations using this reporting method should be considered to be about ± 0.1 foot.

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

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 when compared to previous 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 offsets data from the 2000 water year is often 5 mS/m lower than the data from other years, truncation of the raw data is probably 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.

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RECORDS OF GROUND-WATER QUALITY

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals 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 trends in nitrate concentration. 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 records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented 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 TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents.

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.

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 at:

<http://water.usgs.gov>

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page).

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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, 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 on the inside of the back cover.

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.

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.

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 to 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 polychlorinated 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 sub-

stitution 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 weight percent of the hydrogen substituted chlorine.

Artificial substrate is a device that is purposely 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 taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hard-board) 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 the 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")

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

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 peaks per year will be published.

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.

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

Bedload discharge (tons per day) is 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

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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" and "Sediment")

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

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 which are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (Cyanophyta) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Bulk conductivity is the combined electrical conductivity of all material (including pore water) within an approximately 8 to 40 inch doughnut shaped area surrounding an induction probe (McNeill and others, 1990). Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

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 are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used 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 (μm^3) is determined by obtaining critical cell measurements on 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 geo-

metric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } \frac{4}{3}\pi r^3 \quad \text{cone } \frac{1}{3}\pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

π is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$
From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

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

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 warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and 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 waters 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 boundaries. 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 downstream from a gaging station that physically influences 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

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regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft³/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-feet" sometimes is used synonymously with "cubic feet per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/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 are numerically 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, (ft³/s)/mi²] 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 concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Mean concentration of suspended sediment," "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 periodic sample or 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 are usually 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 UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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 sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., 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 chemical constituents, 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 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO₃) 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:

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

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.

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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")

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded 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 and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *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 are generally considered pollution sensitive, the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded 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. 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 qualitatively identified 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 (<).

Euglenoids (Euglenophyta) are a group of algae that are usually 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 semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. 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 sediments.

Fecal coliform bacteria are present in the intestine or feces of warm-blooded animals. They are often 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 intestine of warm-blooded 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")

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 not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

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 larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is 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

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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 is often 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. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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 is commonly 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 (CaCO₃).

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.co-ops.nos.noaa.gov/tideglos.html>

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

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

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 benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic index stations referred to in this report are four 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.), 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 uniformly distributed on it. (See also "Annual runoff")

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

Laboratory Reporting Level (LRL) is generally 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 non-detection 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 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 based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.]

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

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

$$I = I_0 e^{-\lambda L}$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}$$

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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 web site: <http://www.co-ops.nos.noaa.gov/tideglos.html>

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually 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.

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 interme-

diates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

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.

Methylene blue active substances (MBAS) are apparent detergents. 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, $\mu\text{g/g}$) 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, $\mu\text{g/kg}$) 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, $\mu\text{g/L}$) 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, $\mu\text{S/cm}$) 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 mg/L 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 (Timme, 1995).

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where stream-flow, 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

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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 of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly 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.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and U.S. 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 sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of the 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 (m²), 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 utilizes 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

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. 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

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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 to 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 determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

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. While 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 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually 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 are commonly 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.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic 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 [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] for phytoplankton. 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 in unenriched waters. 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 [$\text{mg O}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg O}/(\text{m}^3/\text{time})$] for phytoplankton. 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 an element 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

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cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion 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 non-exceedance 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 ($7Q_{10}$) 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 non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. 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 $7Q_{10}$.

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")

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 used to denote location along a river.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin in 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")

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. See conversion of units page (inside back cover) for identification of the datum used in this report.

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 influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

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

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.

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/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 waters, to evaluate mixing of different waters, 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

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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 (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

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

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 ft) of the bed material such as that material which is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the 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 suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter 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 the 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 sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent

currents or that exists in suspension as a colloid. (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 ft 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/day) 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 (ft³/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, 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, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

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.

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 richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

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Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical 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:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

Temperature preferences:

Cold - preferred water temperature for the species is less than 20°C or spawning temperature preference less than 16°C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm - preferred water temperatures for the species is greater than 20°C or spawning temperature preference greater than 16°C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool - intermediate between cold and warm water temperature preferences.

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 bed-load that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons 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 warm-blooded 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 mL 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.

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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 "Sediment," "Suspended sediment," "Suspended-Sediment Concentration," "Bedload," and "Bedload discharge")

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")

Trophic group:

Filter feeder - diet composed of suspended plant and/or animal material.

Herbivore - diet composed predominantly of plant material.

Invertivore - diet composed predominantly of invertebrates.

Omnivore - diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore - diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the "REMARKS" column of the Annual Data Report.

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 pathlength of UV light through a sample.

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 are often 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 (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

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

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, 2001, is called the "2001 water year."

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 are often 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")

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TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement**Section D. Water Quality**

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS-TWRI book 1, chap. D1. 1975. 65 p.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS-TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data**Section D. Surface Geophysical Methods**

- 2-D1. *Application of surface geophysics to ground-water investigations*, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS-TWRI book 2, chap. D1. 1974. 116 p.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS-TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS-TWRI book 2, chap. E1. 1971. 126 p.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS-TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS-TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics**Section A. Surface-Water Techniques**

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS-TWRI book 3, chap. A1. 1967. 30 p.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS-TWRI book 3, chap. A2. 1967. 12 p.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS-TWRI book 3, chap. A3. 1968. 60 p.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS-TWRI book 3, chap. A5. 1967. 29 p.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 p.

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- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A8. 1969. 65 p.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.:
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A10. 1984. 59 p.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 3, chap. A11. 1969. 22 p.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS-TWRI book 3, chap. A12. 1986. 34 p.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS-TWRI book 3, chap. A13. 1983. 53 p.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS-TWRI book 3, chap. A14. 1983. 46 p.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS-TWRI book 3, chap. A15. 1984. 48 p.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS-TWRI book 3, chap. A16. 1985. 52 p.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS-TWRI book 3, chap. A17. 1985. 38 p.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 p.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A19. 1990. 31 p.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS-TWRI book 3, chap. A20. 1993. 38 p.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 p.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 p.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 p.
- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 p.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 p.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS-TWRI book 3, chap. B5. 1987. 15 p.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS-TWRI book 3, chap. B6. 1987. 28 p.

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- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E.J. Wexler: USGS-TWRI book 3, chap. B7. 1992. 190 p.
- 3-B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly: USGS-TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 p.
- 3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS-TWRI book 3, chap. C2. 1999. 89 p.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS-TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation**Section A. Statistical Analysis**

- 4-A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 p.
- 4-A2. *Frequency curves*, by H.C. Riggs: USGS-TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

- 4-B1. *Low-flow investigations*, by H.C. Riggs: USGS-TWRI book 4, chap. B1. 1972. 18 p.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS-TWRI book 4, chap. B2. 1973. 20 p.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS-TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS-TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis**Section A. Water Analysis**

- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman, editors: USGS-TWRI book 5, chap. A1. 1989. 545 p.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS-TWRI book 5, chap. A2. 1971. 31 p.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS-TWRI book 5, chap. A3. 1987. 80 p.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greenson, editors: USGS-TWRI book 5, chap. A4. 1989. 363 p.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS-TWRI book 5, chap. A5. 1977. 95 p.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS-TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS-TWRI book 5, chap. C1. 1969. 58 p.

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Book 6. Modeling Techniques**Section A. Ground Water**

- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS-TWRI book 6, chap. A1. 1988. 586 p.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS-TWRI book 6, chap. A2. 1991. 68 p.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS-TWRI book 6, chap. A3. 1993. 136 p.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R.L. Cooley: USGS-TWRI book 6, chap. A4. 1992. 108 p.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L.J. Torak: USGS-TWRI book 6, chap. A5, 1993. 243 p.
- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS-TWRI book 6, chap. A5, 1996. 125 p.

Book 7. Automated Data Processing and Computations**Section C. Computer Programs**

- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS-TWRI book 7, chap. C1. 1976. 116 p.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS-TWRI book 7, chap. C2. 1978. 90 p.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS-TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation**Section A. Instruments for Measurement of Water Level**

- 8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS-TWRI book 8, chap. A1. 1968. 23 p.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS-TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations**Section A. National Field Manual for the Collection of Water-Quality Data**

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A1. 1998. 47 p.
- 9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A2. 1998. 94 p.

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- 9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A4. 1999. 156 p.
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STAGE, DISCHARGE, AND WATER QUALITY OF STREAM

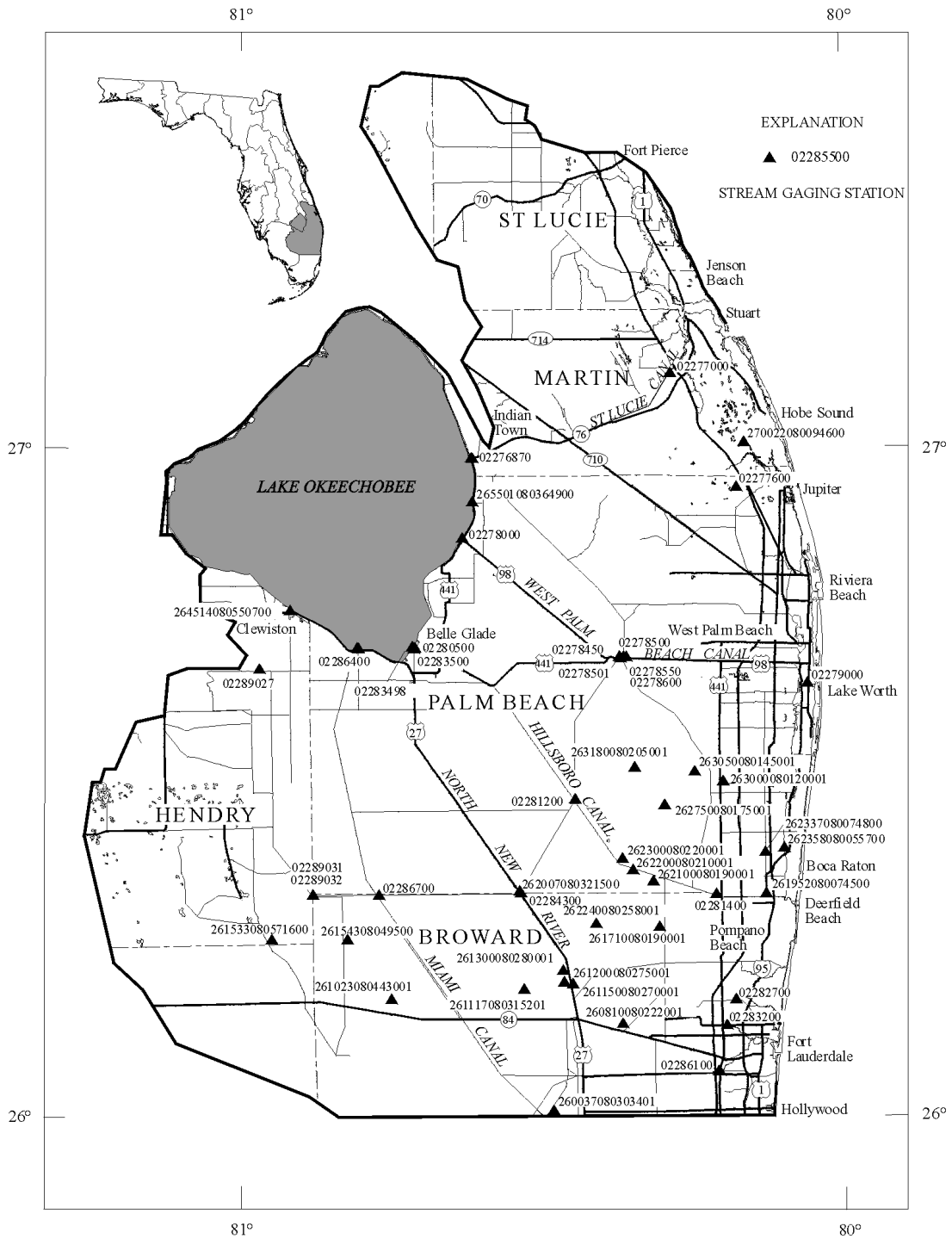


Figure 4. Location of gaging stations in the portion of the Everglades and the southeastern coastal area north of latitude 26 degrees.

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 RECORD.--WDR FL-00-2A:1999

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until October 19, 2001, when it was removed. Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter installed May 17, 2001. 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 are 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 35 complete water years of discharge (1932-52, 1982-88, 1990, 1993-1996, 1999-2000).

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, 18.23 ft Mar. 29, 1998 minimum, 8.66 ft May. 22, 2001.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 15.03 ft Sept. 30; minimum, 8.66 ft May. 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.11	12.06	11.53	10.68	10.91	10.03	10.67	9.47	9.13	9.38	10.61	12.09
2	12.04	12.05	11.55	10.84	10.84	10.01	10.42	9.54	9.24	9.42	10.73	12.25
3	12.05	12.05	11.53	10.90	10.82	9.96	10.31	9.51	9.31	9.32	10.96	12.22
4	12.35	12.04	11.46	10.84	10.75	9.89	10.04	9.61	9.30	9.38	11.26	e12.29
5	12.41	12.05	11.45	10.67	10.78	9.81	10.38	9.73	9.26	9.56	11.55	e12.22
6	12.42	12.03	11.42	10.82	10.82	9.97	10.20	9.63	9.26	9.41	11.57	12.27
7	12.46	11.99	11.36	10.87	10.75	10.01	10.07	9.46	9.34	9.33	11.54	e12.28
8	12.43	11.96	11.18	10.92	e10.69	10.02	10.20	9.38	9.40	9.36	11.55	e12.32
9	12.22	11.98	11.16	10.98	10.64	9.92	10.13	9.20	9.46	9.39	11.57	e12.44
10	12.27	12.03	11.03	10.87	10.72	10.03	10.01	9.15	9.43	9.52	11.67	e12.52
11	12.27	11.94	11.04	10.94	10.66	9.79	10.01	9.08	9.37	9.55	11.69	e12.79
12	12.24	11.88	11.09	10.92	10.66	9.94	9.95	8.99	9.38	9.64	11.71	e12.77
13	12.25	11.86	11.12	10.98	10.70	9.83	9.91	9.11	9.37	9.72	11.76	e12.91
14	12.30	11.91	11.10	10.92	10.61	9.92	9.99	9.15	9.36	9.83	11.80	13.40
15	12.29	11.79	11.15	e10.93	10.56	9.82	10.09	9.01	9.33	9.76	11.86	13.73
16	12.30	11.78	11.28	10.89	10.51	9.75	10.03	8.99	9.42	9.88	11.96	13.41
17	12.31	11.82	11.27	10.84	10.37	9.83	9.99	9.05	9.45	e9.96	11.92	13.46
18	12.30	11.74	11.37	10.70	10.36	9.97	9.75	9.05	9.43	e10.40	11.97	13.64
19	12.25	11.80	11.27	10.73	e10.31	9.89	9.56	9.01	9.31	10.42	12.00	e13.66
20	12.27	11.72	11.12	10.74	e10.30	10.06	9.53	9.21	9.28	10.79	11.99	13.72
21	12.21	11.67	11.05	10.83	e10.21	10.48	9.42	9.00	9.43	10.39	12.00	13.72
22	12.12	11.62	11.16	e10.92	10.17	10.68	9.53	8.78	9.50	10.53	12.07	13.69
23	12.08	11.62	e11.25	11.13	10.15	10.26	9.50	9.00	9.40	10.62	12.12	13.74
24	12.08	e11.57	11.27	11.20	10.24	10.11	9.42	9.19	9.39	11.17	12.13	13.86
25	12.13	11.63	11.33	11.20	10.20	10.17	9.48	9.25	9.39	11.01	12.24	13.93
26	12.17	11.64	11.30	11.09	10.13	10.07	9.55	9.25	9.36	10.62	12.24	13.93
27	12.18	11.62	e11.15	11.02	10.13	9.90	9.33	9.38	9.44	10.53	12.23	14.03
28	12.15	11.57	e11.04	11.11	e10.02	9.90	9.20	9.30	9.49	10.56	12.26	e14.11
29	12.15	11.57	11.09	11.01	---	9.89	9.33	9.26	9.67	10.67	12.08	14.24
30	12.14	11.53	10.83	10.86	---	10.30	9.29	9.24	9.46	10.64	12.12	14.40
31	12.06	---	10.81	10.91	---	10.49	---	9.28	---	10.72	12.04	---
TOTAL	379.01	354.52	347.76	338.26	294.01	310.70	295.55	286.26	281.36	311.48	365.20	396.04
MEAN	12.23	11.82	11.22	10.91	10.50	10.02	9.85	9.23	9.38	10.05	11.78	13.20
MAX	12.46	12.06	11.55	11.20	10.91	10.68	10.67	9.73	9.67	11.17	12.26	14.40
MIN	12.04	11.53	10.81	10.67	10.02	9.75	9.20	8.78	9.13	9.32	10.61	12.09

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e-212	229	192	180	32	144	e-155	e28	-16	e-471	-384	-37
2	e-149	e358	20	e-34	112	e284	e-293	e38	e-122	e-356	-940	e-82
3	e-203	202	e-52	254	e3.5	e207	e-6.9	e12	e-94	e-360	-1390	e-60
4	e-1140	220	210	e-14	52	e22	e207	e56	5.5	-218	-1000	e-297
5	e-1140	233	20	329	222	260	e14	e-121	-116	-364	-1600	e-203
6	e-700	314	e154	e26	e-32	161	e62	e-148	-132	-360	-1700	-362
7	e-950	326	e-17	e-10	168	e388	e-6.1	e55	-301	-260	-1240	e-465
8	e-645	e344	e180	272	e-17	e196	e34	e-61	-372	-148	-820	e-1150
9	e-411	e570	e-22	24	222	e455	e309	e215	-410	-42	-690	e-1090
10	e-315	452	16	176	e-38	e47	e30	e93	-442	-108	-670	e-704
11	e-298	302	144	14	e-28	e140	e435	251	-300	-170	-570	---
12	e-254	e312	16	232	192	e360	e-35	18	-236	-86	-492	---
13	e-119	e424	151	5.0	e-24	174	e557	122	-54	e-130	-374	---
14	e-157	472	e-16	e-6.0	262	e341	e38	410	-332	-208	-430	-2710
15	e-154	407	173	e177	39	5.5	e30	66	-196	-396	-245	-2290
16	e-24	e486	e-18	e-22	232	412	e485	e474	-200	-645	-503	-1290
17	124	e500	e-24	162	33	e58	e30	e110	-263	---	-369	-774
18	96	314	e152	e14	e-23	14	e240	e374	-282	---	-402	-721
19	117	298	e-10	e202	e222	38	e-19	72	-347	-655	-294	e-592
20	e-85	294	196	---	e-30	20	e370	e49	e-205	-1070	-180	-519
21	e-38	28	21	---	e250	e350	e49	e178	-280	-930	-313	-424
22	e-131	168	179	---	190	-229	e30	e51	-610	-515	-181	-371
23	126	169	e30	e-56	246	e104	e446	206	e-468	-760	-390	-274
24	134	e228	e18	e-16	164	e38	e25	e-127	e-540	-1640	-86	-200
25	72	279	42	e-11	50	e50	e567	-305	e-402	-1160	-223	-195
26	123	233	19	e-17	285	264	e.37	-252	-387	-1000	-310	-127
27	e-9.5	284	e190	e-37	195	-42	e279	e-275	-255	e-590	-81	-534
28	e-60	344	e-5.0	e.10	e350	336	e106	-172	-660	-590	-177	e-370
29	e-25	239	190	e-12	---	-5.5	e30	-144	-905	-442	3.4	-834
30	66	35	114	55	---	e-98	e242	-17	e-620	-372	-57	-906
31	42	---	126	182	---	-84	---	-152	---	-387	-3.1	---
TOTAL	-6319.5	9064	2389.0	2069.10	3329.5	4410.0	4100.37	1104	-9541.5	-14433	-16110.7	-17581
MEAN	-204	302	77.1	73.9	119	142	137	35.6	-318	-498	-520	-651
MAX	134	570	210	329	350	455	567	474	5.5	-42	3.4	-37
MIN	-1140	28	-52	-56	-38	-229	-293	-305	-905	-1640	-1700	-2710
AC-FT	-12530	17980	4740	4100	6600	8750	8130	2190	-18930	-28630	-31960	-34870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

MEAN	1650	1095	727	610	668	937	1112	638	503	684	807	1113
MAX	6480	6831	6350	5649	5453	7246	4620	4474	3949	4697	5152	6403
(WY)	1948	1948	1948	1948	1948	1983	1983	1931	1931	1947	1947	1949
MIN	-1101	-120	-138	-130	-24.1	-647	-531	-242	-1107	-618	-614	-1036
(WY)	1988	1988	1986	1986	1991	1989	1991	1991	1994	1989	1985	1989

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1931 - 2001

ANNUAL TOTAL			81355.5									
ANNUAL MEAN			222							921		
HIGHEST ANNUAL MEAN										3511		1948
LOWEST ANNUAL MEAN										-49.6		1986
HIGHEST DAILY MEAN			2860	Apr 27		570	Nov 9			8150	Feb 26	1983
LOWEST DAILY MEAN			-1170	Aug 7		-2710	Sep 14			-4280	Sep 14	1985
ANNUAL SEVEN-DAY MINIMUM			-757	Oct 4		-1270	Sep 14			-2980	Aug 7	1985
ANNUAL RUNOFF (AC-FT)			161400							667600		
10 PERCENT EXCEEDS			746			295				3640		
50 PERCENT EXCEEDS			67			-9.5				158		
90 PERCENT EXCEEDS			-299			-612				-.22		

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.

02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL

LOCATION.--Lat 27°06'39", long 80°17'06", in Hanson Grant, T.39 S., R.41 E., Martin County, Hydrologic Unit 03090202, at upstream end of the north lock wall, 6.3 mi southwest of Stuart. No section could be determined from existing maps.
 DRAINAGE AREA.--Indeterminate.
 PERIOD OF RECORD.--October 1952 to current year. Gage height records collected at same site since December 1924 are contained in files of the South Florida Water Management District and U.S. Army Corps of Engineers. Discharge published prior to October 1, 1987, provided by the U.S. Army Corps of Engineers. U.S. Geological Survey started collection of upstream and downstream stages October 1, 1987, and publication of discharge computed by the U.S. Geological Survey.
 REVISED RECORDS.--WDR FL-80-2A:1978-1979. WDR FL-96-2A:1988-1989, 1991-1996.
 GAGE.--U.S. Army Corps of Engineers owned and operated satellite data collection platform with water-stage shaft encoders for upstream and downstream stages. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to November 3, 1948, nonrecording gage at same site and at various datums. September 5, 1952, to January 1, 1955, auxiliary water-stage recorder at Arundel Bridge, 1.9 mi upstream, NGVD. U.S. Geological Survey satellite data collection platform installed January 13, 1995, was discontinued October 30, 1998. Digital water-stage recorders removed February 13, 1995.
 REMARKS.--Records are poor. Flow regulated by lock near Stuart. Leakage and lockage estimated as 35 cfs daily. No period of record extremes shown for stage since stage was not collected by U.S. Geological Survey prior to October 1, 1987.
 COOPERATION.--Stage, gate-opening record and lock operation provided by U.S. Army Corps of Engineers.
 ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 44 complete water years of discharge (1953-94, 1998-2001).
 EXTREMES UPSTREAM STAGES FOR PERIOD OF RECORD SINCE OCTOBER 1, 1987.--Maximum gage height 17.88 ft Oct. Nov. 5, 1998; minimum, 8.63 ft May 11, 2001. Historical stage records are not available in the files of the U.S. Geological Survey prior to October 1, 1987.
 EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height 15.27 ft Sept. 30; minimum, 8.63 ft May 11.
 EXTREME DOWNSTREAM STAGES SINCE OCTOBER 1, 1987.--Maximum gage height 7.29 ft Oct. 17, 1995; minimum, -1.71 ft Mar. 13, 1993.
 EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height 3.18 ft Sept. 16; minimum, -1.06 ft Mar 5.

UPSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.13	12.06	11.51	10.69	10.92	10.06	10.75	9.41	9.25	9.55	10.70	12.10
2	12.02	12.03	11.55	10.82	10.85	10.01	10.39	9.45	9.37	9.51	11.05	12.26
3	12.05	12.06	11.56	10.87	10.77	9.99	10.28	9.42	9.42	9.44	11.48	12.23
4	12.57	12.05	11.43	10.90	10.76	9.96	10.29	9.54	9.37	9.46	11.58	12.35
5	12.58	12.09	11.44	10.67	10.77	9.96	10.30	9.69	9.37	9.78	12.15	12.25
6	12.51	12.04	11.42	10.88	10.79	10.10	10.09	9.56	9.36	9.60	12.16	12.33
7	12.57	11.99	11.36	10.94	10.68	10.04	10.00	9.35	9.50	9.42	11.84	12.39
8	12.50	11.95	11.17	10.98	10.60	10.04	10.16	9.26	9.60	9.46	11.69	12.55
9	12.24	11.99	11.13	11.05	10.58	9.95	10.07	9.10	9.70	9.50	11.70	12.64
10	12.24	12.08	11.02	10.84	10.70	10.01	9.98	9.09	9.69	9.67	11.84	12.60
11	12.26	11.96	11.01	10.94	10.61	9.84	9.94	8.93	9.55	9.75	11.76	12.98
12	12.19	11.88	11.13	10.99	10.60	9.88	9.93	8.94	9.58	9.83	11.74	13.34
13	12.22	11.85	11.08	11.01	10.66	9.98	9.86	9.11	9.50	9.92	11.83	13.66
14	12.29	11.96	11.10	10.95	10.57	9.89	10.02	9.07	9.54	10.01	11.87	14.39
15	12.31	11.77	11.11	10.91	10.56	9.88	10.15	8.99	9.43	9.95	11.91	14.60
16	12.32	11.76	11.29	10.88	10.49	9.76	10.04	8.99	9.53	10.20	12.05	13.71
17	12.33	11.87	11.36	10.84	10.44	9.81	10.05	9.14	9.58	10.16	11.96	13.58
18	12.32	11.71	11.40	10.75	10.26	9.89	---	9.03	9.57	10.58	12.03	13.79
19	12.25	11.86	11.37	10.73	10.19	9.84	---	9.08	9.47	10.67	12.05	13.77
20	12.28	11.73	11.12	10.80	10.23	10.23	9.38	9.25	9.37	11.26	12.05	13.81
21	12.18	11.71	11.08	10.84	10.15	10.58	9.32	8.98	9.55	10.75	12.06	---
22	12.07	11.62	11.16	10.95	10.17	10.78	9.40	8.86	9.85	10.71	12.11	---
23	12.00	11.61	11.17	11.23	10.05	10.26	9.34	9.04	9.66	10.96	12.13	---
24	11.99	11.50	11.24	11.25	10.16	10.11	9.40	9.25	9.58	11.86	12.13	13.93
25	12.09	11.65	11.24	11.24	10.16	10.23	9.40	9.43	9.55	11.37	12.27	14.02
26	12.17	11.66	11.23	11.07	10.08	10.05	9.50	9.40	9.48	10.90	12.28	13.98
27	12.20	11.63	11.13	11.04	10.10	9.85	9.19	9.53	9.49	10.68	12.22	---
28	12.17	11.57	11.17	11.09	10.05	9.75	9.12	9.41	9.88	10.66	12.25	---
29	12.15	11.55	11.14	10.98	---	9.85	9.24	9.39	10.12	10.76	12.08	14.42
30	12.15	11.52	10.87	10.89	---	10.31	9.15	9.35	9.73	10.72	12.11	14.57
31	12.06	---	10.81	10.91	---	10.63	---	9.39	---	10.80	12.05	---
TOTAL	379.41	354.71	347.80	338.93	292.95	311.52	274.74	286.43	286.64	317.89	369.13	332.25
MEAN	12.24	11.82	11.22	10.93	10.46	10.05	9.81	9.24	9.55	10.25	11.91	13.29
MAX	12.58	12.09	11.56	11.25	10.92	10.78	10.75	9.69	10.12	11.86	12.28	14.60
MIN	11.99	11.50	10.81	10.67	10.05	9.75	9.12	8.86	9.25	9.42	10.70	12.10

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.81	1.22	.58	.18	-.35	.13	.04	.57	.37	.35	.71	.27
2	1.88	1.25	.48	.11	-.33	.22	.21	.81	.31	.36	1.57	.32
3	1.65	1.21	.73	.32	.04	.06	.08	.66	.11	.31	1.30	.47
4	1.28	1.25	1.19	.46	.07	-.17	-.10	.71	-.02	.20	.96	.48
5	1.04	1.29	1.47	.39	.14	-.29	.16	.81	-.14	.26	.76	.54
6	1.20	1.38	1.43	.22	.12	.15	.40	.92	-.21	.17	.59	.57
7	.99	1.17	1.20	.27	.07	.61	.26	.99	-.16	.03	.59	.67
8	1.23	1.08	1.04	.22	.00	.83	.07	1.17	-.14	.07	.68	.91
9	2.03	1.05	.87	.20	-.03	.71	-.01	1.09	.01	.21	.70	.89
10	2.20	.94	.81	.48	-.18	.77	-.01	.93	.15	.24	.62	.72
11	1.81	1.19	.81	.48	-.18	.86	.07	.83	.23	.33	.45	.58
12	1.76	1.42	.66	.24	.00	.59	-.04	.53	.16	.33	.29	.95
13	1.67	1.26	.61	.59	.11	.14	-.10	.47	.07	.17	.20	1.32
14	1.51	.98	.40	.89	.10	.03	-.07	.44	.01	.37	.24	1.57
15	1.49	1.01	.34	.68	.01	.11	.25	.59	-.05	.90	.32	1.23
16	1.50	1.06	.37	.45	-.15	-.02	.38	.46	-.07	.85	.49	2.05
17	1.43	.81	.21	.31	-.14	.00	.59	.59	-.10	.62	.46	2.17
18	1.45	.88	.27	.33	.30	.31	.65	.78	-.07	.59	.55	1.81
19	1.39	.92	.32	.27	.53	.62	.64	.80	.06	.58	.62	1.66
20	1.31	1.16	.34	-.02	.28	.61	.29	.79	.12	.48	.47	1.40
21	1.41	1.35	.43	-.08	.13	.44	.18	.73	.20	.69	.44	e1.27
22	1.47	1.18	.34	.14	.14	.41	.06	.52	.21	.91	.51	e1.15
23	1.67	.91	.64	.32	.14	.43	-.01	.39	.21	1.02	.51	e1.14
24	2.01	.82	.70	.77	.33	.36	-.10	.70	.20	.82	.46	1.09
25	2.09	.70	.96	.51	.26	.18	-.10	.69	.33	.48	.45	.91
26	1.97	.51	1.01	.55	.08	.19	.17	.38	.39	.38	.61	.84
27	1.90	.60	.57	.47	.11	.36	.46	.36	.31	.36	.85	e.94
28	1.75	.55	.35	.27	.06	.45	.44	.35	.45	.29	.66	e1.10
29	1.37	.52	.56	.18	---	.47	.40	.25	.57	.37	.48	1.32
30	1.21	.56	.71	-.09	---	.24	.47	.14	.51	.53	.37	1.87
31	1.33	---	.45	-.28	---	-.12	---	.22	---	.53	.30	---
TOTAL	48.81	30.23	20.85	9.83	1.66	9.68	5.73	19.67	4.02	13.80	18.21	32.21
MEAN	1.57	1.01	.67	.32	.06	.31	.19	.63	.13	.45	.59	1.07
MAX	2.20	1.42	1.47	.89	.53	.86	.65	1.17	.57	1.02	1.57	2.17
MIN	.99	.51	.21	-.28	-.35	-.29	-.10	.14	-.21	.03	.20	.27

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	35	35	35	35	35	35	35	35	35	35	35
2	35	35	35	35	35	35	35	35	35	35	35	35
3	35	35	35	35	35	35	35	35	35	35	35	35
4	35	35	35	35	35	35	35	35	35	35	35	35
5	35	35	35	35	35	35	35	35	35	35	35	35
6	35	35	35	35	35	35	35	35	35	35	35	35
7	35	35	35	35	35	35	35	35	35	35	35	35
8	35	35	35	35	35	35	35	35	35	35	35	35
9	35	35	35	35	35	35	35	35	35	35	35	35
10	35	35	35	35	35	35	35	35	35	35	35	35
11	35	35	35	35	35	35	35	35	35	35	35	35
12	35	35	35	35	35	35	35	35	35	35	35	35
13	35	35	35	35	35	35	35	35	35	35	35	35
14	35	35	35	35	35	35	35	35	35	35	35	35
15	35	35	35	35	35	35	35	35	35	35	35	35
16	35	35	35	35	35	35	35	35	35	35	35	35
17	35	35	35	35	35	35	35	35	35	35	35	35
18	35	35	35	35	35	35	35	35	35	35	35	35
19	35	35	35	35	35	35	35	35	35	35	35	35
20	35	35	35	35	35	35	35	35	35	35	35	35
21	35	35	35	35	35	35	35	35	35	35	35	35
22	35	35	35	35	35	35	35	35	35	35	35	35
23	35	35	35	35	35	35	35	35	35	35	35	35
24	35	35	35	35	35	35	35	35	35	35	35	35
25	35	35	35	35	35	35	35	35	35	35	35	35
26	35	35	35	35	35	35	35	35	35	35	35	35
27	35	35	35	35	35	35	35	35	35	35	35	35
28	35	35	35	35	35	35	35	35	35	35	35	35
29	35	35	35	35	---	35	35	35	35	35	35	35
30	35	35	35	35	---	35	35	35	35	35	35	35
31	35	---	35	35	---	35	---	35	---	35	35	---
TOTAL	1085	1050	1085	1085	980	1085	1050	1085	1050	1085	1085	1050
MEAN	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
MAX	35	35	35	35	35	35	35	35	35	35	35	35
MIN	35	35	35	35	35	35	35	35	35	35	35	35
AC-FT	2150	2080	2150	2150	1940	2150	2080	2150	2080	2150	2150	2080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001, BY WATER YEAR (WY)

MEAN	1078	951	540	480	523	719	780	390	544	774	1134	882
MAX	9325	8315	8293	3445	5986	7453	6887	5322	5162	6598	6331	7711
(WY)	1954	1954	1954	1954	1958	1983	1970	1958	1954	1968	1959	1953
MIN	10.0	10.0	10.0	10.0	10.0	10.0	10.0	4.90	4.27	10.0	10.0	10.0
(WY)	1956	1955	1953	1953	1953	1953	1953	1976	1976	1953	1955	1955

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1953 - 2001

ANNUAL TOTAL	86020	12775	
ANNUAL MEAN	235	35.0	740
HIGHEST ANNUAL MEAN			4152
LOWEST ANNUAL MEAN			10.0
HIGHEST DAILY MEAN	2570	Apr 29	35
LOWEST DAILY MEAN	35	Jan 5	35
ANNUAL SEVEN-DAY MINIMUM	35	Feb 1	35
ANNUAL RUNOFF (AC-FT)	170600		25340
10 PERCENT EXCEEDS	670		35
50 PERCENT EXCEEDS	35		35
90 PERCENT EXCEEDS	35		35

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL

LOCATION.--Lat 27°00'57", long 80°09'10", in SE ¼ SE ¼ SE ¼ 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.--Water-stage and collector tube rain gage recorders. 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.--Estimated record are good. Discharge below 5 cfs are fair - poor. Discharge from 5 - 150 cfs are good. Discharge above 150 cfs are fair - poor.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 16 complete water years of discharge (1981, 1985-88, 1990, 1992-2001).

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height 7.18 ft (estimated) Aug. 2; minimum 1.49 ft May 19, 20.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.96	2.95	2.09	2.04	1.81	1.64	e2.03	1.59	1.76	3.25	4.49	3.00
2	1.95	2.91	2.07	2.01	1.80	1.64	e1.99	1.62	1.80	3.12	e6.25	2.90
3	2.29	2.85	2.05	1.99	1.84	1.63	e1.95	1.59	1.80	3.00	e6.70	2.84
4	5.32	2.80	2.03	1.99	1.91	1.62	1.92	1.61	1.79	2.91	6.29	2.76
5	5.40	2.72	2.03	1.97	1.89	1.61	1.89	1.59	1.76	2.85	6.34	2.69
6	5.07	2.65	2.02	1.96	1.87	1.61	1.85	1.57	1.72	2.76	6.33	2.83
7	4.94	2.59	2.06	1.94	1.85	1.61	1.82	1.55	1.70	2.70	6.08	2.96
8	4.72	2.55	2.12	1.92	1.84	1.60	1.78	1.55	1.68	2.60	5.91	2.94
9	4.54	2.51	2.07	1.94	1.82	1.60	1.75	1.55	1.76	2.51	5.79	2.96
10	4.39	2.47	2.04	1.93	1.81	1.61	1.71	1.55	1.81	2.49	5.69	2.95
11	4.24	2.43	2.15	1.91	1.80	1.60	1.68	1.53	1.90	2.77	5.60	3.05
12	4.10	2.38	2.22	1.90	1.78	1.60	1.67	1.53	1.90	2.96	5.51	5.07
13	3.95	2.33	2.24	1.90	1.77	1.59	1.66	1.53	1.87	2.98	5.41	5.99
14	3.80	2.28	2.23	1.89	1.77	1.59	1.65	1.53	1.84	3.33	5.30	6.37
15	3.66	2.24	2.22	1.88	1.75	1.59	1.64	1.52	1.82	4.34	5.17	5.99
16	3.53	2.20	2.19	1.87	1.74	1.59	1.62	1.52	1.79	4.21	5.03	5.80
17	3.40	2.17	2.17	1.86	1.74	1.59	1.62	1.52	1.77	4.13	4.88	5.71
18	3.26	2.15	2.14	1.85	1.72	1.66	1.61	1.51	1.74	4.24	4.74	5.63
19	3.15	2.13	2.12	1.84	1.71	1.87	1.59	1.51	1.71	4.12	4.59	5.55
20	3.04	2.14	2.11	1.84	1.70	1.92	1.58	1.51	1.69	3.91	4.45	5.45
21	3.13	2.14	2.10	1.85	1.69	1.86	1.57	1.51	1.73	4.06	4.40	5.33
22	3.16	2.13	2.08	1.89	1.69	1.84	1.57	e1.54	1.89	4.63	4.63	5.19
23	3.11	2.11	2.07	1.94	1.69	1.81	1.57	e1.58	1.93	4.90	4.51	5.03
24	3.11	2.09	2.06	1.91	1.68	1.79	1.56	e1.58	1.90	5.58	4.30	4.89
25	3.11	2.16	2.05	1.89	1.67	1.77	1.55	e1.58	1.91	5.26	4.09	4.87
26	3.07	2.17	2.04	1.88	1.67	1.75	1.56	e1.60	1.87	5.08	3.89	5.20
27	3.02	2.16	2.03	1.87	1.65	1.74	1.55	e1.58	1.94	4.92	3.72	5.44
28	2.94	2.13	2.04	1.85	1.64	1.72	1.54	e1.58	2.84	4.74	3.56	5.54
29	2.89	2.12	2.10	1.84	---	1.74	1.55	e1.66	3.41	4.65	3.40	5.95
30	2.85	2.10	2.08	1.83	---	2.02	1.58	1.73	3.40	4.65	3.26	6.10
31	2.93	---	2.06	1.82	---	2.04	---	1.69	---	4.54	3.12	---
TOTAL	110.03	70.76	65.08	59.00	49.30	52.85	50.61	48.61	58.43	118.19	153.43	136.98
MEAN	3.55	2.36	2.10	1.90	1.76	1.70	1.69	1.57	1.95	3.81	4.95	4.57
MAX	5.40	2.95	2.24	2.04	1.91	2.04	2.03	1.73	3.41	5.58	6.70	6.37
MIN	1.95	2.09	2.02	1.82	1.64	1.59	1.54	1.51	1.68	2.49	3.12	2.69

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	9.2	1.6	1.3	.65	.28	e1.3	.23	.71	15	55	11
2	1.0	8.7	1.5	1.2	.63	.28	e1.2	.27	.82	13	e262	9.6
3	3.8	8.0	1.4	1.2	.73	.27	e1.0	.23	.81	11	e297	8.8
4	115	7.3	1.3	1.2	.92	.25	.93	.25	.81	9.4	224	7.8
5	103	6.4	1.3	1.1	.85	.25	.85	.23	.74	8.6	232	7.0
6	76	5.6	1.3	1.1	.80	.24	.76	.21	.62	7.6	231	8.8
7	70	5.0	1.5	.99	.76	.24	.68	.19	.54	6.9	193	10
8	59	4.6	1.7	.95	.73	.23	.59	.19	.50	5.8	170	10
9	51	4.3	1.5	1.0	.69	.23	.50	.19	.71	4.9	155	10
10	44	4.0	1.3	.96	.65	.23	.43	.19	.85	4.8	144	10
11	39	3.7	1.9	.92	.63	.23	.37	.18	1.1	7.8	134	12
12	34	3.4	2.2	.90	.59	.23	.34	.17	1.1	10	125	102
13	30	3.0	2.3	.88	.56	.22	.33	.17	1.0	10	115	181
14	25	2.6	2.2	.85	.55	.21	.30	.18	.94	19	104	238
15	22	2.4	2.2	.82	.51	.22	.29	.18	.90	47	92	179
16	19	2.2	2.0	.79	.48	.21	.26	.17	.81	42	81	155
17	16	2.0	1.9	.77	.47	.22	.25	.17	.75	39	73	143
18	14	1.9	1.8	.75	.44	.33	.23	.17	.67	43	65	134
19	12	1.8	1.7	.73	.41	.86	.22	.17	.58	39	58	123
20	10	1.9	1.6	.74	.39	.96	.21	.17	.52	32	52	112
21	12	1.9	1.6	.74	.38	.77	.20	.17	.63	39	50	100
22	12	1.8	1.5	.86	.38	.72	.20	e.19	1.2	61	60	88
23	11	1.7	1.5	1.0	.38	.66	.19	e.23	1.2	85	55	77
24	11	1.6	1.4	.92	.36	.59	.19	e.25	1.1	135	46	70
25	11	1.9	1.4	.87	.34	.55	.18	e.26	1.1	102	38	69
26	11	2.0	1.4	.82	.33	.50	.18	e.28	1.0	86	31	89
27	10	1.9	1.3	.80	.31	.49	.18	e.26	1.3	76	26	110
28	9.1	1.8	1.4	.76	.29	.44	.18	e.25	9.9	66	22	120
29	8.4	1.7	1.6	.73	---	.49	.19	e.46	18	62	19	168
30	7.9	1.6	1.5	.70	---	1.3	.22	.61	18	62	16	189
31	8.9	---	1.4	.68	---	1.3	---	.51	---	57	13	---
TOTAL	857.2	105.9	50.2	28.03	15.21	14.00	12.95	7.38	68.91	1206.8	3238	2552.0
MEAN	27.7	3.53	1.62	.90	.54	.45	.43	.24	2.30	38.9	104	85.1
MAX	115	9.2	2.3	1.3	.92	1.3	1.3	.61	18	135	297	238
MIN	1.0	1.6	1.3	.68	.29	.21	.18	.17	.50	4.8	13	7.0
AC-FT	1700	210	100	56	30	28	26	15	137	2390	6420	5060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	44.8	24.6	14.0	9.89	8.66	11.0	6.05	4.17	7.14	13.2	26.3	30.0
MAX	233	124	69.5	43.7	52.8	50.1	29.0	16.8	41.9	42.4	104	85.1
(WY)	1996	1995	1995	1993	1993	1996	1997	1998	1997	1996	2001	2001
MIN	.78	.88	.29	.55	.54	.31	.13	.076	.14	.27	.25	1.08
(WY)	1989	1989	1982	1982	2001	1985	1981	1981	1981	1990	1990	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1980 - 2001

ANNUAL TOTAL	1367.33	8156.58	
ANNUAL MEAN	3.74	22.3	18.3
HIGHEST ANNUAL MEAN			39.9
LOWEST ANNUAL MEAN			.99
HIGHEST DAILY MEAN	115	297	1230
LOWEST DAILY MEAN	.21	.17	.01
ANNUAL SEVEN-DAY MINIMUM	.22	.17	.05
MAXIMUM PEAK FLOW		309	1800
MAXIMUM PEAK STAGE		8.70	11.00
INSTANTANEOUS LOW FLOW		.16	.00
ANNUAL RUNOFF (AC-FT)	2710	16180	13270
10 PERCENT EXCEEDS	5.6	83	48
50 PERCENT EXCEEDS	1.4	1.3	3.9
90 PERCENT EXCEEDS	.41	.23	.36

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

LOCATION.--Lat 26°56'20", long 80°10'31", in NE ¼ SE ¼ NE ¼ 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 Floridás Turnpike and 5.2 mi west of Jupiter.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good to fair above 40 cfs, and fair to poor below 40 cfs. 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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 29 complete water years of discharge (1972-90,1992-2001).

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, 14.05 ft Aug. 2; minimum, 7.55 ft May 16, 17, 18.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.94	11.99	10.97	10.80	9.56	9.07	10.27	10.09	10.89	11.49	11.95	11.97
2	10.92	11.62	10.95	10.65	9.59	9.04	10.39	10.03	10.93	11.50	13.11	11.84
3	11.07	11.22	10.94	10.29	9.64	8.99	10.46	9.92	10.88	11.58	13.41	11.68
4	12.72	11.17	10.86	10.19	9.68	9.01	10.53	9.82	10.86	11.43	12.71	11.71
5	12.71	11.15	10.81	10.16	9.69	9.02	10.60	9.74	10.85	11.38	13.14	11.59
6	11.86	11.23	10.80	10.13	9.69	9.03	10.66	9.66	10.83	11.38	12.38	11.58
7	11.98	11.22	10.78	9.99	9.75	9.02	10.75	9.54	10.82	11.37	12.13	12.45
8	11.98	11.13	10.77	9.77	9.75	9.00	10.83	9.37	10.81	11.37	12.10	12.55
9	11.98	11.09	10.76	9.63	9.66	9.00	10.79	9.29	10.81	11.36	11.87	11.86
10	11.98	11.06	10.75	9.51	9.62	8.99	10.69	9.34	10.76	11.46	11.37	11.86
11	12.00	11.05	10.86	9.44	9.64	8.98	10.61	9.33	10.85	11.65	11.32	11.70
12	11.99	11.05	10.94	9.47	9.65	8.94	10.54	8.48	10.85	11.66	11.59	12.52
13	11.98	11.05	10.93	9.49	9.64	8.83	10.47	7.82	10.82	11.63	11.79	13.71
14	11.97	11.04	10.92	9.46	9.62	8.79	10.41	7.69	10.81	11.65	11.83	13.53
15	e12.00	11.02	10.93	9.37	9.57	8.82	10.36	7.65	10.80	11.76	11.68	12.67
16	e12.01	11.02	10.93	9.32	9.54	8.87	10.33	7.59	10.80	11.77	11.65	12.28
17	e11.89	11.00	10.92	9.32	9.51	8.91	10.34	7.55	10.82	11.87	11.70	12.39
18	e11.51	10.98	10.92	9.38	9.47	9.16	10.37	7.58	10.82	11.97	11.83	12.61
19	e11.82	10.96	10.90	9.43	9.48	9.53	10.37	7.62	10.80	11.83	11.82	12.59
20	e11.63	10.95	10.89	9.63	9.48	9.94	10.36	7.64	10.79	11.68	11.88	12.61
21	e11.48	10.94	10.88	9.76	9.45	9.88	10.35	7.65	10.79	11.66	12.07	12.62
22	e11.65	10.93	10.88	9.83	9.44	9.81	10.34	7.81	10.87	11.66	12.24	12.61
23	e11.58	10.91	10.89	9.92	9.45	9.72	10.31	8.11	10.90	11.84	12.13	12.62
24	e11.45	10.89	10.88	9.86	9.41	9.67	10.25	8.28	10.89	12.62	12.18	12.64
25	e11.30	10.93	10.86	9.82	9.28	9.64	10.25	9.76	10.90	11.90	12.38	12.65
26	e11.27	10.97	10.85	9.78	9.20	9.65	10.27	10.78	10.89	11.95	12.33	12.65
27	e11.26	10.99	10.83	9.71	9.14	9.67	10.24	11.06	10.94	11.91	12.10	12.66
28	e11.24	10.98	10.84	9.66	9.11	9.70	10.21	11.08	11.41	11.78	12.25	12.57
29	e11.22	11.02	10.85	9.56	---	9.71	10.17	10.92	11.51	12.00	12.34	12.96
30	e11.12	11.00	10.83	9.50	---	10.00	10.12	10.90	11.56	11.95	12.34	13.25
31	e11.78	---	10.81	9.50	---	10.17	---	10.89	---	11.94	12.16	---
TOTAL	362.29	332.56	336.93	302.33	266.71	288.56	312.64	282.99	327.26	363.00	375.78	372.93
MEAN	11.69	11.09	10.87	9.75	9.53	9.31	10.42	9.13	10.91	11.71	12.12	12.43
MAX	12.72	11.99	10.97	10.80	9.75	10.17	10.83	11.08	11.56	12.62	13.41	13.71
MIN	10.92	10.89	10.75	9.32	9.11	8.79	10.12	7.55	10.76	11.36	11.32	11.58

e Estimated

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	169	60	52	19	13	28	12	40	104	157	170
2	59	122	59	44	19	13	31	11	43	106	404	153
3	70	80	58	33	20	12	34	8.3	39	113	452	133
4	300	75	52	31	21	12	37	7.1	37	99	297	136
5	290	73	49	30	21	13	41	7.4	36	94	389	123
6	151	81	49	30	21	13	45	7.9	35	94	234	122
7	168	80	48	28	22	13	49	8.1	33	93	193	245
8	168	72	47	24	22	12	54	8.4	33	93	188	265
9	169	68	47	22	21	12	51	11	32	93	157	155
10	169	67	47	21	20	12	44	17	30	102	101	156
11	171	66	53	20	21	12	38	22	36	120	96	136
12	170	66	58	20	21	12	31	17	36	121	123	273
13	168	65	58	20	20	10	26	5.5	34	119	147	531
14	167	65	57	20	20	10	23	3.4	32	121	152	481
15	e171	64	58	18	20	10	20	3.0	32	133	133	288
16	e173	63	58	17	19	11	18	2.3	32	134	130	216
17	e155	62	58	17	19	11	18	2.0	33	146	136	237
18	e108	60	58	18	18	14	20	2.3	34	160	151	275
19	e145	59	57	19	19	16	20	2.7	32	142	149	272
20	e122	59	56	21	19	21	19	2.9	31	124	158	275
21	e105	58	55	23	18	20	19	2.9	31	122	184	277
22	e124	56	55	24	18	18	18	5.8	38	122	211	276
23	e115	56	56	25	18	16	17	13	41	147	193	277
24	e101	55	55	24	18	15	13	14	40	263	202	282
25	e87	57	54	23	16	14	14	28	40	152	233	283
26	e85	60	54	23	15	14	14	47	39	156	224	283
27	e84	61	53	22	14	15	14	61	44	151	190	286
28	e82	61	54	21	14	15	14	60	95	135	212	268
29	e80	64	55	19	---	16	13	43	107	163	227	350
30	e73	62	54	18	---	22	12	41	111	156	226	412
31	e140	---	53	18	---	25	---	40	---	155	198	---
TOTAL	4230	2106	1685	745	533	442	795	517.0	1276	4033	6247	7636
MEAN	136	70.2	54.4	24.0	19.0	14.3	26.5	16.7	42.5	130	202	255
MAX	300	169	60	52	22	25	54	61	111	263	452	531
MIN	59	55	47	17	14	10	12	2.0	30	93	96	122
AC-FT	8390	4180	3340	1480	1060	877	1580	1030	2530	8000	12390	15150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	131	110	74.4	74.3	69.4	62.1	47.8	43.4	71.9	86.1	99.0	120
MAX	349	277	253	305	295	190	178	150	238	223	212	255
(WY)	1996	1993	1995	1993	1993	1993	1993	1972	1994	1996	1995	2001
MIN	17.2	21.9	15.4	5.90	1.75	10.6	5.88	5.80	9.92	16.2	25.1	26.6
(WY)	1973	1973	1989	1989	1989	1975	1999	1974	1989	1990	1975	1972

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1971 - 2001
ANNUAL TOTAL	18590.6	30245.0	
ANNUAL MEAN	50.8	82.9	82.7
HIGHEST ANNUAL MEAN			172
LOWEST ANNUAL MEAN			24.2
HIGHEST DAILY MEAN	300	531	2150
LOWEST DAILY MEAN	5.8	2.0	.00
ANNUAL SEVEN-DAY MINIMUM	7.4	2.6	.16
MAXIMUM PEAK FLOW		633	2660
MAXIMUM PEAK STAGE		14.05	16.39
INSTANTANEOUS LOW FLOW		.06	.00
ANNUAL RUNOFF (AC-FT)	36870	59990	59930
10 PERCENT EXCEEDS	81	200	171
50 PERCENT EXCEEDS	44	53	61
90 PERCENT EXCEEDS	15	13	15

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.

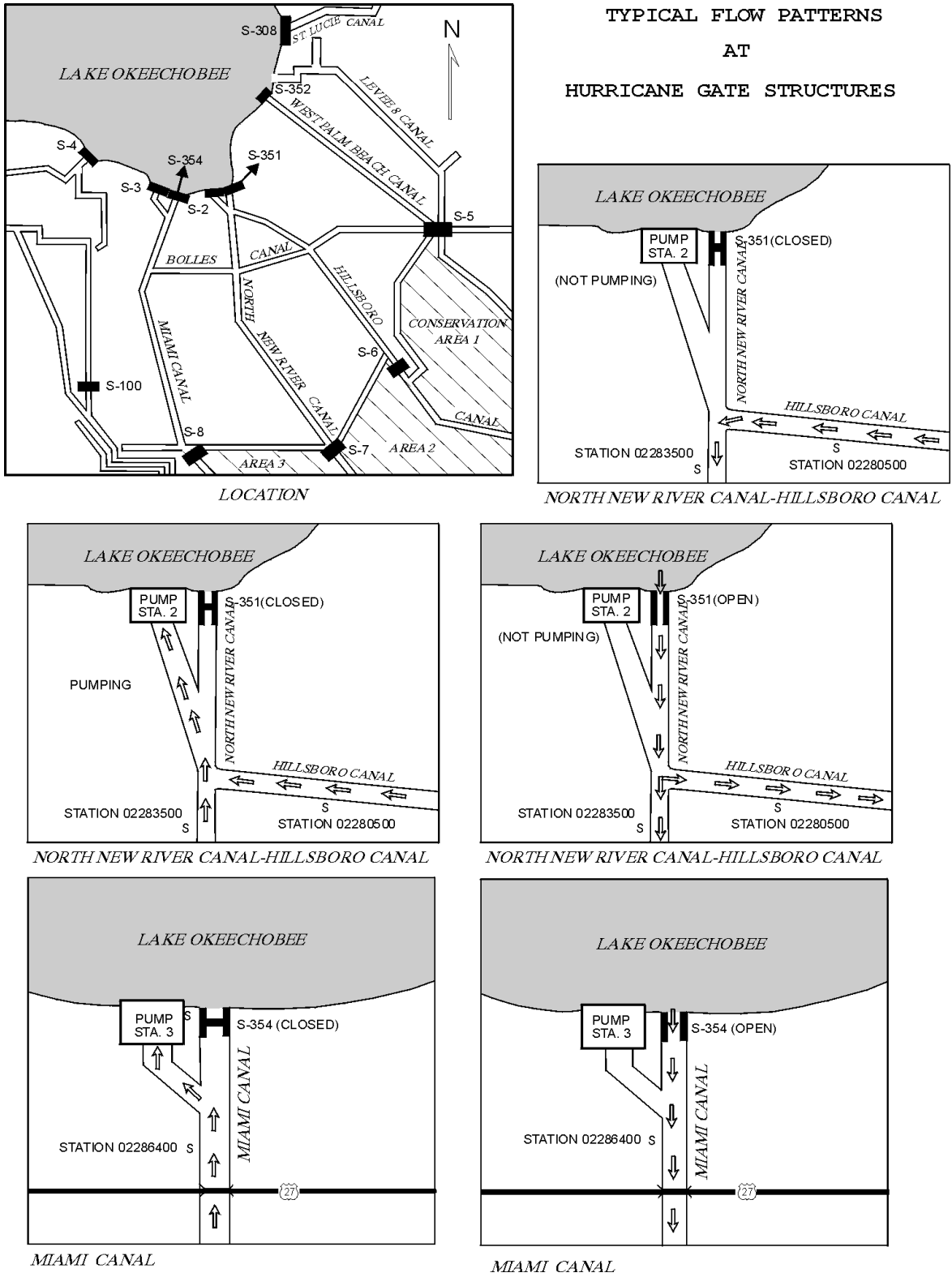


Figure 5. Typical flow patterns at Lake Okeechobee Control Structure.

02278000 WEST PALM BEACH CANAL AT S-352, AT CANAL POINT, FL

LOCATION.--Lat 26°51'05", long 80°37'55", in NE ¼ 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.--Records are fair except for estimated daily discharges, which are poor. 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 57 complete water years of discharge (1941-89, 1992-97, 1999-2000).

EXTREME LAKE STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.48 ft Mar. 9, 1998; minimum observed, 8.33 ft May 22, 2001. EXTREME LAKE STAGES FOR CURRENT YEAR.--Maximum gage height, 14.43 ft Sept. 30; minimum, 8.33 ft May 22.

EXTREME CANAL STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.70 ft Oct. 12, 1947; minimum, 6.90 ft observed, Oct. 28, 1981.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 12.90 ft Oct. 5; minimum 7.51 ft May 3.

LAKE
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.13	12.06	11.51	11.11	10.86	10.51	10.47	9.40	9.08	9.12	10.39	11.94
2	12.02	12.04	11.51	11.11	10.85	10.43	10.28	9.37	9.07	9.12	10.49	11.93
3	11.94	12.06	11.59	11.10	10.88	10.41	10.13	9.30	9.11	9.07	10.74	11.94
4	12.12	12.03	11.57	11.20	10.87	10.46	10.20	9.30	9.06	9.16	10.92	11.93
5	12.26	12.01	11.53	11.05	10.89	11.01	10.15	9.36	9.02	9.19	11.02	11.95
6	12.31	11.96	11.43	11.03	10.82	10.86	10.06	9.37	9.05	9.18	11.15	11.96
7	12.38	11.91	11.44	11.01	10.74	10.56	10.09	9.35	9.06	9.15	11.23	12.02
8	12.41	11.87	11.37	10.97	10.72	10.36	10.09	9.25	9.12	9.20	11.29	12.08
9	12.56	11.87	11.38	11.19	10.69	10.16	10.03	e9.20	9.18	9.28	11.35	12.16
10	12.32	11.91	11.38	11.06	10.75	10.15	9.96	e9.14	9.18	9.32	11.41	12.28
11	12.32	11.92	11.32	10.96	10.75	10.19	9.91	e9.08	9.11	9.30	11.45	12.39
12	12.29	11.84	11.39	10.97	10.66	10.09	9.86	e9.04	9.12	9.28	11.47	12.44
13	12.28	11.76	11.33	11.04	10.70	10.19	9.91	e9.01	9.14	e9.28	11.52	12.63
14	12.31	11.79	e11.37	10.97	10.63	10.11	10.01	e9.05	9.10	e9.25	11.57	12.78
15	12.32	11.81	11.30	10.93	10.69	10.10	10.05	e8.97	9.09	e9.61	11.68	13.29
16	12.31	11.69	11.31	10.94	10.62	10.07	10.07	e8.87	9.09	e9.67	11.66	13.18
17	12.28	11.70	11.49	10.90	10.74	10.08	9.99	e8.90	9.11	9.68	11.64	13.24
18	12.27	11.68	11.35	10.92	10.66	10.08	9.98	8.94	9.06	9.77	11.67	13.32
19	12.23	11.67	11.49	10.86	10.46	10.04	9.67	8.81	8.97	9.86	11.66	13.40
20	12.23	11.78	11.37	11.14	10.51	10.45	9.58	8.83	8.97	9.93	11.72	13.49
21	12.19	11.88	11.28	11.09	10.52	10.57	9.62	8.73	9.07	9.97	11.74	13.56
22	12.15	11.71	11.23	11.22	10.53	10.42	9.57	8.76	9.08	10.00	11.88	13.62
23	12.14	11.56	11.24	11.28	10.52	10.21	9.47	8.82	9.10	9.99	11.90	13.67
24	12.13	11.47	11.26	10.99	10.43	10.18	9.47	8.87	9.10	10.11	11.92	13.74
25	12.16	11.54	11.23	11.02	10.44	10.22	9.53	8.94	9.14	10.18	11.94	13.78
26	12.18	11.59	11.14	10.93	10.44	10.19	9.53	9.03	9.10	10.23	11.97	13.83
27	12.20	11.62	11.10	10.89	10.42	10.14	9.34	9.10	9.06	10.31	11.94	13.88
28	12.13	11.56	11.25	10.88	10.51	10.03	9.29	9.08	9.13	10.37	11.92	13.94
29	12.11	11.54	11.30	10.81	---	10.07	9.21	8.98	9.16	10.42	11.90	14.06
30	12.11	11.57	11.44	10.86	---	10.11	9.26	8.93	9.13	10.46	11.90	14.19
31	12.06	---	11.23	10.84	---	10.33	---	9.03	---	10.46	11.90	---
TOTAL	378.85	353.40	352.13	341.27	298.30	318.78	294.78	280.81	272.76	299.92	356.94	388.62
MEAN	12.22	11.78	11.36	11.01	10.65	10.28	9.83	9.06	9.09	9.67	11.51	12.95
MAX	12.56	12.06	11.59	11.28	10.89	11.01	10.47	9.40	9.18	10.46	11.97	14.19
MIN	11.94	11.47	11.10	10.81	10.42	10.03	9.21	8.73	8.97	9.07	10.39	11.93

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278000 WEST PALM BEACH CANAL AT S-352, AT CANAL POINT, FL

CANAL
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.92	11.28	10.67	10.54	10.37	9.26	10.44	8.58	9.62	10.43	9.94	10.77
2	10.72	11.20	10.64	10.47	10.45	9.16	10.54	7.95	10.25	10.27	10.08	10.70
3	9.40	11.17	10.51	10.49	10.32	8.78	10.70	8.09	10.47	10.11	11.17	10.66
4	10.81	11.31	10.57	10.26	10.22	8.69	10.58	8.81	9.68	10.06	10.98	10.74
5	12.52	11.39	10.36	10.21	10.32	9.13	10.36	9.45	9.26	10.39	11.32	11.13
6	11.48	11.18	10.59	10.27	10.24	8.55	9.94	9.84	9.58	10.71	11.51	11.19
7	10.38	10.89	10.28	10.47	10.30	8.94	9.63	9.02	9.84	10.38	11.36	10.06
8	9.54	11.02	10.54	10.57	9.94	8.41	9.52	8.51	10.30	10.16	11.44	10.43
9	9.47	10.91	10.23	10.41	10.10	9.81	9.59	8.44	10.55	10.05	11.32	10.91
10	9.19	10.97	10.18	10.56	9.97	9.95	10.18	9.04	10.39	10.69	11.37	10.02
11	9.49	11.20	10.49	10.41	9.82	10.02	10.34	8.76	10.26	10.30	11.49	9.06
12	10.33	11.15	10.35	10.45	10.04	9.93	10.44	8.24	10.39	9.80	11.37	9.35
13	10.37	11.03	10.55	10.24	9.87	10.02	10.59	8.48	10.45	10.36	11.51	9.54
14	9.84	11.00	e10.35	10.17	10.07	9.91	10.32	9.11	10.35	9.40	11.55	10.17
15	9.44	11.07	10.60	10.16	9.73	9.92	10.01	9.27	10.26	10.86	11.19	10.00
16	10.14	11.00	10.40	9.95	9.85	9.87	9.53	8.94	10.34	9.51	10.81	9.09
17	10.60	11.04	10.22	10.20	9.64	9.82	10.01	8.85	10.32	9.50	10.65	9.59
18	10.73	11.06	10.51	9.99	9.46	9.10	9.86	9.50	9.86	9.39	10.42	10.93
19	10.97	11.05	10.35	10.18	9.76	9.52	9.80	9.74	9.86	9.52	10.23	10.67
20	11.22	11.17	10.91	10.02	9.66	10.65	9.35	9.94	10.31	9.94	10.09	10.10
21	11.36	11.11	10.61	10.00	9.80	10.89	8.47	9.73	9.89	10.48	10.29	10.37
22	11.32	10.97	10.41	10.32	9.77	11.13	8.62	8.93	10.08	10.51	10.88	10.63
23	11.25	10.97	10.06	10.79	9.51	11.33	9.15	8.83	10.34	10.84	10.76	10.75
24	11.24	10.98	9.84	10.85	9.18	11.18	9.65	9.31	10.56	10.45	10.32	10.44
25	11.38	11.02	9.69	10.69	9.11	11.06	9.51	9.06	10.81	9.73	10.31	10.34
26	11.12	10.71	9.94	10.62	9.43	10.63	9.44	8.91	10.70	9.55	10.58	10.86
27	11.02	10.69	10.33	10.51	9.41	10.40	9.26	8.97	10.43	9.37	10.67	11.23
28	11.19	10.87	10.25	10.55	9.30	10.14	9.57	8.85	10.50	9.43	10.59	9.65
29	11.20	10.93	10.59	10.50	---	10.50	9.82	8.58	9.68	11.04	10.41	10.16
30	11.16	10.62	10.60	10.44	---	11.26	9.61	9.37	10.64	11.22	10.65	10.55
31	11.47	---	10.59	10.47	---	10.43	---	9.89	---	10.72	10.85	---
TOTAL	331.27	330.96	322.21	321.76	275.64	308.39	294.83	278.99	305.97	315.17	336.11	310.09
MEAN	10.69	11.03	10.39	10.38	9.84	9.95	9.83	9.00	10.20	10.17	10.84	10.34
MAX	12.52	11.39	10.91	10.85	10.45	11.33	10.70	9.94	10.81	11.22	11.55	11.23
MIN	9.19	10.62	9.69	9.95	9.11	8.41	8.47	7.95	9.26	9.37	9.94	9.06

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278000 WEST PALM BEACH CANAL AT S-352, AT CANAL POINT, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	231	152	.00	205	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	205	325	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	198	.00	.00	.00	258	.00	116	.00	.00
4	.00	.00	378	.00	.00	.00	.00	400	.00	.00	.00	.00
5	-66	.00	.00	183	226	367	.00	339	.00	.00	.00	.00
6	.00	22	438	.00	.00	.00	.00	172	.00	.00	.00	.00
7	.00	292	.00	.00	258	321	.00	76	.00	.00	.00	.00
8	.00	343	414	189	.00	1.3	.00	92	.00	.00	.00	.00
9	.00	450	.00	.00	254	787	280	215	.00	.00	.00	.00
10	.00	573	.00	234	.00	605	400	400	.00	.00	.00	.00
11	.00	547	423	.00	.00	532	400	.00	.00	25	.00	.00
12	.00	490	.00	138	277	522	400	.00	.00	.00	.00	.00
13	.00	484	316	.00	.00	543	400	136	.00	.00	.00	.00
14	.00	546	e.00	.00	286	576	118	400	.00	.00	.00	.00
15	.00	561	413	147	.00	542	.00	400	.00	.00	.00	.00
16	.00	586	.00	.00	263	587	218	400	.00	.00	.00	.00
17	27	621	.00	234	.00	433	400	400	.00	.00	.00	.00
18	.00	596	478	.00	.00	.00	400	400	13	.00	.00	84
19	.00	591	274	243	289	151	400	400	229	.00	.00	.00
20	.00	560	554	.00	.00	.00	213	400	215	.00	.00	.00
21	.00	433	117	.00	269	.00	.00	400	.00	.00	.00	.00
22	.00	510	385	209	270	.00	.00	372	.00	.00	.00	.00
23	.00	511	.00	.00	278	.00	---	400	.00	.00	.00	.00
24	.00	548	.00	.00	.00	.00	400	252	.00	.00	.00	.00
25	.00	270	.00	.00	.00	.00	400	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	330	.00	400	.00	.00	.00	.00	.00
27	.00	210	468	.00	270	.00	400	.00	.00	.00	.00	.00
28	.00	344	.00	.00	334	-4.2	400	.00	.00	.00	.00	.00
29	.00	314	496	238	---	.00	400	232	.00	.00	.00	.00
30	.00	.00	287	.00	---	.00	177	400	.00	.00	.00	.00
31	.00	---	123	212	---	.00	---	128	---	.00	.00	---
TOTAL	-39.00	10402.00	5795.00	2377.00	3809.00	6493.10	6206.00	7072.00	457.00	141.00	0.00	84.00
MEAN	-1.26	347	187	76.7	136	209	214	228	15.2	4.55	.000	2.80
MAX	27	621	554	243	334	787	400	400	229	116	.00	84
MIN	-66	.00	.00	.00	.00	-4.2	.00	.00	.00	.00	.00	.00
AC-FT	-77	20630	11490	4710	7560	12880	12310	14030	906	280	.00	167

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

MEAN	81.8	168	218	206	220	231	315	295	99.1	32.0	75.9	4.54
MAX	513	470	700	685	637	610	840	743	703	706	1156	1183
(WY)	1998	1996	1996	1960	1949	1949	1999	1965	1998	1992	1959	1959
MIN	-350	-247	-77.0	-13.6	-80.6	-21.2	-99.6	-170	-1130	-939	-528	-813
(WY)	1951	1964	1964	1941	1941	1982	1962	1976	1942	1947	1953	1945

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1940 - 2001

ANNUAL TOTAL	88583.00											
ANNUAL MEAN	242									164		
HIGHEST ANNUAL MEAN										374		1961
LOWEST ANNUAL MEAN										-20.8		1962
HIGHEST DAILY MEAN				931	May 4		787	Mar 9		1610		Oct 2 1959
LOWEST DAILY MEAN				-66	Oct 5		-66	Oct 5		-1760		Jun 15 1942
ANNUAL SEVEN-DAY MINIMUM				-9.4	Sep 29		-9.4	Oct 1		-1640		Jun 11 1942
ANNUAL RUNOFF (AC-FT)				175700						118800		
10 PERCENT EXCEEDS				714			400			536		
50 PERCENT EXCEEDS				52			.00			40		
90 PERCENT EXCEEDS				.00			.00			.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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

LOCATION.--Lat 26°55'01", long 80°36'49", in SE ¼ 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 are poor. 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 17 complete water years of discharge (1977-89, 1995, 1997-99).

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, 15.13 ft Sept. 30; minimum, 8.57 ft May 21 (estimated).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.17	12.59	11.64	11.18	10.92	10.59	---	e9.25	e9.19	e9.67	e11.65	12.52
2	12.11	12.53	11.62	11.14	10.88	10.57	---	e9.06	e9.19	e9.69	e11.87	12.51
3	12.25	12.52	11.64	11.15	10.87	10.53	---	e9.08	e9.20	e9.57	---	12.49
4	12.70	12.46	11.63	11.22	10.89	10.53	---	e9.11	e9.14	e9.48	---	12.49
5	13.09	12.46	e11.56	11.14	10.90	10.90	e9.23	e9.15	e9.12	e9.44	---	12.55
6	13.21	12.43	11.54	11.10	10.86	10.78	e10.22	e9.10	e9.22	e9.47	---	12.58
7	13.31	12.10	11.54	11.07	10.81	10.58	e10.23	e9.04	e9.17	e9.51	---	12.65
8	13.21	12.01	11.51	11.05	10.77	10.47	e10.23	e8.97	e9.31	e9.49	12.58	e12.68
9	13.08	11.99	11.51	11.15	10.77	10.42	e10.24	e8.93	e9.26	e9.50	12.57	e12.82
10	12.99	12.06	11.51	11.05	10.81	10.37	e10.19	e8.92	e9.29	e9.60	12.50	12.99
11	12.85	12.03	11.49	11.05	10.81	10.37	e10.16	e8.87	e9.24	e9.71	12.45	13.05
12	12.84	11.93	11.54	11.06	10.78	10.35	e10.11	e8.95	e9.25	e9.83	12.40	13.09
13	12.83	11.92	11.50	11.06	10.77	e10.38	e10.15	e8.97	e9.38	e9.97	12.48	e13.32
14	12.83	11.94	e11.52	11.02	10.74	e10.24	e10.18	e8.85	e9.31	e10.01	12.52	e13.82
15	12.82	11.91	11.46	11.00	10.76	e10.30	e10.17	e8.78	e9.28	e10.04	12.55	14.40
16	12.80	11.86	11.48	e11.03	10.74	e10.31	e10.24	e8.91	e9.29	e10.24	12.56	14.22
17	12.80	11.86	11.62	11.01	10.79	e10.23	e10.17	e8.92	e9.30	e10.35	12.48	14.22
18	12.77	11.82	11.52	11.01	10.66	e10.14	e10.07	e8.85	e9.26	e10.51	12.44	14.17
19	12.74	11.86	11.57	10.99	10.58	e10.15	e9.86	e8.76	e9.22	e10.65	12.43	14.23
20	12.77	11.86	11.48	11.16	10.60	e10.48	e9.77	e8.76	e9.35	e10.87	12.52	14.17
21	12.70	11.83	11.41	11.08	10.63	e10.65	e9.74	e8.59	e9.32	e11.08	12.53	14.17
22	12.63	11.71	11.35	11.19	10.64	e10.45	e9.69	e8.68	e9.34	e11.28	12.59	14.16
23	12.61	11.65	11.31	11.24	10.59	e10.28	e9.68	e8.81	e9.31	e11.39	12.59	14.13
24	12.59	11.63	11.33	11.03	10.52	e10.24	e9.65	e8.73	e9.33	e11.60	12.52	14.22
25	12.64	11.70	11.28	11.05	10.53	e10.28	e9.70	e8.71	e9.51	e11.55	12.60	14.25
26	12.69	11.72	11.25	10.98	10.56	e10.23	e9.65	e8.85	e9.39	e11.69	12.57	14.35
27	12.69	11.72	11.23	e10.97	10.55	e10.19	e9.50	e8.88	e9.42	e11.59	12.56	14.47
28	12.58	11.69	11.35	10.95	10.58	e10.09	e9.54	e8.84	e9.41	e11.59	12.52	e14.44
29	12.57	e11.67	11.34	10.95	---	e10.16	e9.46	e8.88	e9.78	e11.54	12.52	e14.57
30	12.59	11.67	11.42	10.96	---	e10.33	e9.46	e8.89	e9.73	e11.52	12.51	14.93
31	12.52	---	11.27	10.95	---	e10.53	---	e9.02	---	e11.67	12.51	---
TOTAL	394.98	359.13	355.42	342.99	300.31	322.12	257.29	276.11	279.51	324.10	324.02	408.66
MEAN	12.74	11.97	11.47	11.06	10.73	10.39	9.90	8.91	9.32	10.45	12.46	13.62
MAX	13.31	12.59	11.64	11.24	10.92	10.90	10.24	9.25	9.78	11.69	12.60	14.93
MIN	12.11	11.63	11.23	10.95	10.52	10.09	9.23	8.59	9.12	9.44	11.65	12.49

e Estimated

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-12	-580	-79	-8.2	1.8	22	---	---	---	---	e-546	-445
2	-56	-539	-50	-7.6	13	10	---	---	---	---	e-641	-445
3	-310	-515	-32	4.4	1.2	-7.1	---	---	---	---	---	-436
4	-629	-475	-42	12	-4.5	9.6	---	---	---	---	---	e-446
5	-886	-486	e-39	-3.1	e-10	92	---	---	---	---	---	e-478
6	-903	-484	-23	22	e-22	64	e-42	---	---	---	---	-484
7	-929	-155	-52	16	e.04	37	e-25	---	---	---	---	-521
8	-822	-71	-30	21	.54	9.6	e-19	---	---	---	-826	e-497
9	-706	-23	-58	41	5.4	33	e-25	---	---	---	-803	e-535
10	-715	-35	-56	24	9.3	20	e-20	---	---	---	-751	-620
11	-596	-35	-48	-31	e-25	11	e-39	---	---	---	-697	-608
12	-609	-20	-83	-6.7	e-32	-31	e-34	---	---	---	-649	-621
13	-607	-59	-81	12	e-49	e8.7	e-32	---	---	---	-686	e-710
14	-565	-32	e-102	10	e-9.1	e30	e-16	---	---	---	-692	e-881
15	-551	-54	-58	6.6	-5.7	---	e-.40	---	---	---	-667	e-870
16	-537	-75	-95	e-29	1.5	---	e-6.9	---	---	e-257	-687	-869
17	-550	-57	-61	-20	24	e-11	e-21	---	---	e-277	-637	-837
18	-533	-66	-72	-23	-3.6	e-23	e-20	---	---	e-283	-585	-746
19	-538	-93	-23	-24	-21	e-13	e-21	---	---	e-278	-586	-720
20	-570	-62	-58	21	-26	e50	---	---	---	e-338	-617	-603
21	-545	-11	-92	-7.9	-3.1	e-.36	---	---	---	e-382	-599	-549
22	-528	-8.5	-50	17	-2.9	e-14	---	---	---	e-442	-572	-492
23	-521	-25	-56	52	24	e-11	---	---	---	e-483	-553	e-421
24	-522	-80	-53	20	-10	e-.11	---	---	---	e-582	-486	e-448
25	-540	-108	-62	9.4	-9.8	e15	---	---	---	e-569	-529	e-421
26	-571	-105	-59	-5.0	14	e13	---	---	---	e-634	-502	-472
27	-571	-80	-14	e-9.4	6.0	e-29	---	---	---	e-610	-508	-554
28	-507	-94	-14	-8.6	50	e-23	---	---	---	e-599	-478	e-462
29	-509	e-79	29	-40	---	e-28	---	---	---	e-566	-480	e-551
30	-534	-72	23	-34	---	e-140	---	---	---	e-532	-471	-742
31	-507	---	-24	-33	---	e-85	---	---	---	e-584	-456	---
TOTAL	-17479	-4578.5	-1514	-2.1	-82.92	9.33	-321.30	---	---	-7416	-15704	-17484
MEAN	-564	-153	-48.8	-.068	-2.96	.32	-22.9	---	---	-464	-604	-583
MAX	-12	-8.5	29	52	50	92	-.40	---	---	-257	-456	-421
MIN	-929	-580	-102	-40	-49	-140	-42	---	---	-634	-826	-881
AC-FT	-34670	-9080	-3000	-4.2	-164	19	-637	---	---	-14710	-31150	-34680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

MEAN	-98.6	-22.8	54.4	57.8	40.8	40.8	96.9	126	-24.0	-104	-124	-142
MAX	365	192	359	365	318	200	393	349	227	111	160	84.9
(WY)	1989	1989	1989	2000	1989	1985	1987	1987	1987	1979	1977	1999
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1976 - 2001

ANNUAL TOTAL	-11526.21		
ANNUAL MEAN	-31.5	.33	
HIGHEST ANNUAL MEAN		125	1989
LOWEST ANNUAL MEAN		-126	1997
HIGHEST DAILY MEAN	494	Mar 2	92
LOWEST DAILY MEAN	-929	Oct 7	-929
ANNUAL SEVEN-DAY MINIMUM	-799	Oct 4	-805
ANNUAL RUNOFF (AC-FT)	-22860		238
10 PERCENT EXCEEDS	307		12
50 PERCENT EXCEEDS	-22		-58
90 PERCENT EXCEEDS	-420		-630
			.00
			-253

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 platforms with water-stage shaft encoders for Levee 8 Canal and West Palm Beach Canal. 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 1981, all gages at datum 0.24 ft higher.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. 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, about the site. 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 44 complete water years of discharge (1958-2001).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	-228	.00	.00	.00	101	270	5.5	.00	.00	1370	.00
2	1540	-420	.00	.00	.00	28	.00	.00	e9.2	.00	2700	.00
3	1450	-444	.00	.00	.00	.00	.00	5.2	e26	-84	4150	.00
4	3040	-507	.00	.00	.00	.00	.00	.00	-16	-160	3470	.00
5	4350	-368	.00	.00	.00	48	.00	.00	.00	-46	2520	.00
6	4500	-81	.00	.00	.00	.00	.00	.00	.00	.00	2680	211
7	3900	.00	.00	.00	.00	.00	.00	.00	.00	.00	2190	676
8	3170	.00	.00	.00	.00	.00	.00	.00	e300	.00	1200	.00
9	2500	.00	.00	.00	.00	35	.00	.00	-132	5.3	1250	1050
10	1970	.00	.00	.00	.00	243	.00	.00	-152	214	533	2580
11	960	.00	.00	.00	.00	260	.00	26	-156	1580	.00	1800
12	742	.00	.00	.00	.00	153	.00	.00	-139	763	.00	1770
13	906	.00	.00	.00	.00	226	.00	.00	-139	1430	.00	2010
14	696	.00	.00	.00	.00	109	.00	.00	-151	507	.00	2560
15	327	.00	.00	.00	.00	258	.00	.00	-149	328	.00	2720
16	.00	.00	.00	.00	.00	114	.00	.00	-150	2110	.00	1210
17	.00	.00	.00	.00	.00	255	.00	.00	-151	1550	.00	623
18	-116	.00	.00	.00	.00	132	.00	13	-68	1630	.00	510
19	-217	.00	-72	.00	.00	.00	.00	115	.00	1070	.00	500
20	-215	.00	-43	.00	.00	e49	.00	229	.00	276	.00	422
21	-208	.00	6.7	.00	.00	-43	.00	.00	.00	296	.00	.00
22	-207	.00	.00	.00	172	.00	.00	.00	-.20	451	250	.00
23	-208	.00	.00	.00	.00	e40	.00	.00	.00	2260	654	.00
24	-208	.00	.00	.00	.00	e65	.00	.00	e14	3590	530	751
25	-97	.00	.00	.00	.00	.00	.00	.00	e311	2900	.00	616
26	.00	.00	.00	.00	.00	.00	16	.00	247	2030	.00	199
27	-66	.00	.00	.00	163	.00	.00	.00	52	1890	.00	2350
28	-308	.00	.00	.00	.00	.00	.00	.00	e891	517	.00	2240
29	-310	.00	.00	.00	---	.00	222	.00	e595	.00	.00	2780
30	-378	.00	.00	.00	---	e1050	.00	.00	.00	525	.00	3680
31	-492	---	.00	.00	---	859	---	.00	---	954	.00	---
TOTAL	27643.00	-2048.00	-108.30	0.00	335.00	3982.00	508.00	393.70	1042.00	26586.30	23497.00	31258.00
MEAN	892	-68.3	-3.49	.000	12.0	128	16.9	12.7	34.7	858	758	1042
MAX	4500	.00	6.7	.00	172	1050	270	229	891	3590	4150	3680
MIN	-492	-507	-72	.00	.00	-43	.00	.00	-156	-160	.00	.00
AC-FT	54830	-4060	-215	.00	664	7900	1010	781	2070	52730	46610	62000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

MEAN	484	258	217	323	264	298	235	285	494	530	632	750
MAX	1713	1381	907	2149	1321	1588	840	1174	1865	1309	1894	2040
(WY)	2000	1988	1995	1958	1983	1970	1960	1976	1968	1988	1959	1959
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

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1958 - 2001

ANNUAL TOTAL	122877.30	113088.70	
ANNUAL MEAN	336	310	398
HIGHEST ANNUAL MEAN			716
LOWEST ANNUAL MEAN			150
HIGHEST DAILY MEAN	4500	Oct 6	4500 Oct 6
LOWEST DAILY MEAN	-507	Nov 4	-507 Nov 4
ANNUAL SEVEN-DAY MINIMUM	-405	Oct 30	-405 Oct 30
ANNUAL RUNOFF (AC-FT)	243700	224300	288400
10 PERCENT EXCEEDS	772	1300	1340
50 PERCENT EXCEEDS	.00	.00	114
90 PERCENT EXCEEDS	.00	-6.5	-61

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.

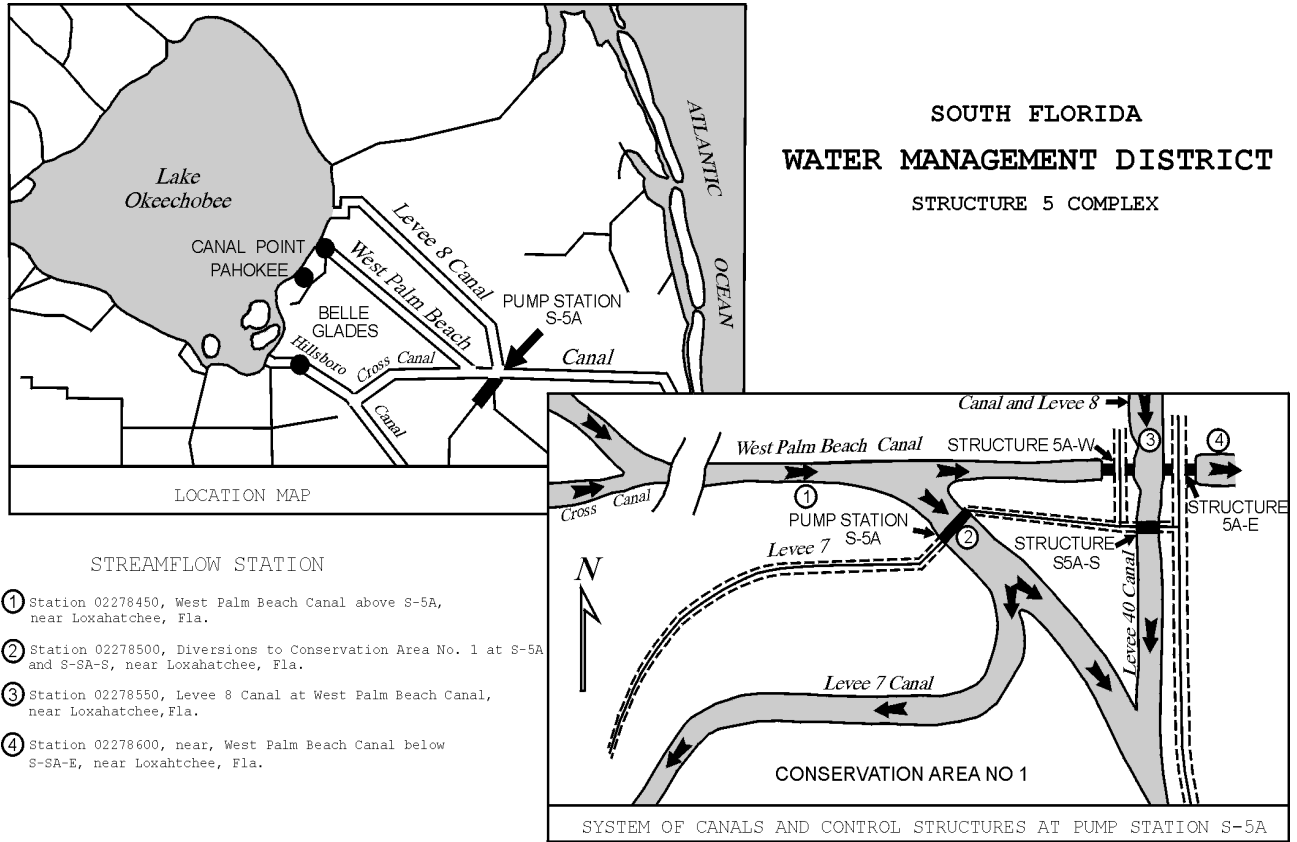


Figure 6. South Florida Water Management District, Structure 5 Complex.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'00", long 80°22'10", in SW ¼ 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 platforms with water-stage shaft encoders for Levee 8 Canal and West Palm Beach Canal. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). 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 1981, all gages at datum 0.24 ft higher.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. 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.

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 44 complete water years of discharge (1958-2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.26 ft present datum, Oct. 3, 1957; minimum, 6.86 ft Oct. 28, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.14 ft Oct. 5; minimum, 7.36 ft May 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.80	11.45	10.69	10.65	10.46	9.10	10.58	8.69	9.80	10.50	9.67	10.87
2	9.93	11.37	10.78	10.63	10.50	8.94	10.65	8.01	10.39	10.33	9.14	10.81
3	9.08	11.36	10.71	10.56	10.45	8.86	10.75	7.74	10.60	10.11	9.11	10.79
4	9.93	11.48	10.53	10.50	10.36	8.82	10.68	8.35	9.79	10.18	9.62	10.87
5	11.21	11.55	10.56	10.27	10.38	9.08	10.44	9.09	9.39	10.50	10.99	11.26
6	9.66	11.28	10.49	10.44	10.35	8.97	9.98	9.77	9.65	10.83	11.11	11.26
7	9.16	10.91	10.42	10.62	10.26	8.86	9.66	9.04	9.96	10.49	10.88	10.00
8	9.07	10.97	10.37	10.65	10.00	8.57	9.57	8.46	10.30	10.28	11.41	10.55
9	9.19	10.84	10.32	10.68	10.02	9.07	9.37	8.25	10.67	10.19	11.20	10.79
10	9.11	10.83	10.28	10.62	10.06	9.43	9.83	8.59	10.52	10.82	11.42	9.34
11	9.51	11.06	10.26	10.52	9.90	9.60	9.98	8.57	10.37	9.98	11.60	8.82
12	10.26	11.06	10.47	10.54	9.89	9.43	10.07	8.32	10.42	9.91	11.48	8.89
13	10.26	10.91	10.47	10.45	9.93	9.61	10.33	8.42	10.53	10.06	11.64	8.87
14	9.78	10.84	10.43	10.33	9.93	9.46	10.33	8.66	10.48	9.53	11.66	8.99
15	9.54	10.89	10.44	10.21	9.79	9.45	10.15	8.73	10.38	10.84	11.33	8.89
16	10.30	10.78	10.45	10.06	9.71	9.42	9.50	8.69	10.47	9.22	10.92	9.01
17	10.76	10.82	10.40	10.18	9.77	9.46	9.76	8.45	10.45	9.20	10.76	9.64
18	10.94	10.81	10.32	10.11	9.58	9.17	9.69	9.09	10.00	9.14	10.52	10.86
19	11.15	10.89	10.44	10.12	9.58	9.48	9.50	9.35	9.80	9.48	10.33	10.59
20	11.37	11.05	10.75	10.22	9.70	10.81	9.19	9.57	10.20	10.04	10.20	10.09
21	11.49	11.15	10.73	10.20	9.68	11.05	8.52	9.34	10.00	10.59	10.41	10.48
22	11.46	10.92	10.37	10.46	9.58	11.35	8.66	8.60	10.16	10.55	10.96	10.75
23	11.40	10.83	10.19	11.11	9.38	11.46	8.84	8.52	10.47	10.07	10.69	10.87
24	11.41	10.80	9.99	11.02	9.18	11.30	9.27	9.13	10.70	9.22	10.17	10.22
25	11.53	11.03	9.84	10.89	9.12	11.16	9.23	9.15	10.83	8.93	10.45	10.28
26	11.28	10.87	10.04	10.75	9.22	10.80	9.10	9.03	10.76	9.23	10.74	10.94
27	11.20	10.82	10.11	10.65	9.15	10.53	8.93	9.09	10.51	9.10	10.79	10.21
28	11.35	10.89	10.39	10.65	9.10	10.23	9.14	8.97	e10.54	9.57	10.71	8.92
29	11.34	10.94	10.50	10.43	---	10.51	9.39	8.44	e9.67	11.17	10.54	8.98
30	11.34	10.77	10.72	10.53	---	10.94	9.50	9.09	10.70	11.22	10.76	8.83
31	11.63	---	10.75	10.47	---	10.37	---	9.89	---	10.51	10.93	---
TOTAL	326.44	330.17	323.21	325.52	275.03	305.29	290.59	273.09	308.51	311.79	332.14	301.67
MEAN	10.53	11.01	10.43	10.50	9.82	9.85	9.69	8.81	10.28	10.06	10.71	10.06
MAX	11.63	11.55	10.78	11.11	10.50	11.46	10.75	9.89	10.83	11.22	11.66	11.26
MIN	9.07	10.77	9.84	10.06	9.10	8.57	8.52	7.74	9.39	8.93	9.11	8.82

e Estimated

02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	-482	221	-53	-3.5	52	270	5.5	-35	-2.6	1370	-350
2	1540	-586	.00	-36	-26	-32	-9.2	-16	-27	.00	2700	-346
3	1450	-577	.00	-57	-7.1	-52	-26	-19	.00	.00	4150	-351
4	3040	-657	.00	-42	-12	15	-11	-5.4	-33	.00	3470	-343
5	4350	-595	.00	-86	-38	85	.00	.00	-40	-8.0	2520	-358
6	4500	-184	-30	-20	-47	.00	.00	.00	-16	.00	2680	-144
7	3900	-45	.00	-23	-62	-18	.00	.00	-27	.00	2190	349
8	3170	-6.5	-48	-42	-63	-30	.00	.00	285	.00	1200	-304
9	2500	364	.00	-15	-42	-52	.00	-20	.00	5.3	1250	750
10	1970	368	.00	.00	-34	197	.00	-14	.00	214	533	2430
11	960	372	-63	.00	-25	188	.00	9.6	.00	1580	.00	1660
12	529	369	.00	.00	-58	45	.00	.00	.00	763	.00	1680
13	720	372	-35	.00	.00	173	.00	.00	.00	1430	-66	2010
14	385	373	-.90	-5.3	-42	19	.00	.00	.00	507	-121	2600
15	41	374	-27	-26	-64	180	.00	.00	.00	328	-144	2970
16	-287	364	-4.1	-44	-46	50	.00	.00	.00	2110	-164	1310
17	-340	364	.00	.00	-26	136	.00	.00	.00	1550	-201	666
18	-389	362	.00	-15	-45	86	.00	13	-24	1630	-278	510
19	-540	353	-64	-70	-76	-32	-28	115	-29	1070	-282	500
20	-500	363	-90	-56	-69	-26	-50	229	-4.9	320	-289	422
21	-476	358	-23	.00	-69	.00	-51	.00	-15	493	-286	.00
22	-474	370	.00	.00	133	.00	-23	.00	-9.7	659	-.20	.00
23	-461	354	.00	.00	-50	.00	-54	.00	-2.4	2360	440	.00
24	-465	349	.00	-40	-134	.00	-12	.00	-4.8	3590	260	751
25	-420	352	.00	-14	-133	.00	-19	.00	269	2900	-329	616
26	-370	334	.00	-39	-131	.00	7.6	.00	255	2030	-317	199
27	-421	353	-44	-35	80	.00	.00	.00	82	1890	-320	2350
28	-624	373	-14	-58	-74	-44	-17	-4.3	e895	517	-332	2240
29	-628	375	-36	-92	---	-44	222	.00	e557	.00	-339	2780
30	-638	371	-4.1	-65	---	e1040	.00	-23	-90	525	-342	3680
31	-713	---	.00	-53	---	839	---	-66	---	954	-351	---
TOTAL	21931	4854.5	-262.10	-986.30	-1163.60	2775.00	199.40	204.40	1985.20	27414.70	18601.80	28277.00
MEAN	707	162	-8.45	-31.8	-41.6	89.5	6.65	6.59	66.2	884	600	943
MAX	4500	375	221	.00	133	1040	270	229	895	3590	4150	3680
MIN	-713	-657	-90	-92	-134	-52	-54	-66	-90	-8.0	-351	-358
AC-FT	43500	9630	-520	-1960	-2310	5500	396	405	3940	54380	36900	56090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

MEAN	593	242	135	246	168	217	136	240	509	513	628	836
MAX	2528	1719	1063	2605	1478	1992	820	1440	2750	1592	1728	2637
(WY)	1996	1988	1995	1958	1983	1970	1991	1984	1968	1968	1974	1960
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001	
ANNUAL TOTAL	116220.10		103831.00			
ANNUAL MEAN	318		284		373	
HIGHEST ANNUAL MEAN					660	
LOWEST ANNUAL MEAN					111	
HIGHEST DAILY MEAN					7040	
LOWEST DAILY MEAN	4500	Oct 6	4500	Oct 6	7040	Mar 28 1970
ANNUAL SEVEN-DAY MINIMUM	-713	Oct 31	-713	Oct 31	-2200	Apr 27 1982
ANNUAL RUNOFF (AC-FT)	-612	Oct 29	-612	Oct 29	-1570	Nov 23 1991
10 PERCENT EXCEEDS	230500		205900		270100	
50 PERCENT EXCEEDS	776		1330		1480	
90 PERCENT EXCEEDS	172		.00		.00	
	-238		-284		-75	

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278501 CONSERVATION AREA NO. 1 BELOW S-5 COMPLEX, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'00", long 80°22'10", in SW $\frac{1}{4}$ 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 1981, at datum 0.24 ft higher.

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, 18.93 ft Oct. 18 1999; minimum, 8.26 ft present datum, Apr. 20, 24, 1956.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 18.47 ft Oct. 5; minimum, 10.26 ft June 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.56	16.27	13.14	15.92	15.36	13.95	14.12	12.78	12.88	13.59	16.30	16.21
2	16.95	16.05	16.17	15.90	15.40	14.54	13.54	11.55	13.30	13.22	16.99	16.19
3	17.01	16.01	16.29	15.86	15.43	11.98	11.85	11.75	14.03	12.89	17.50	16.16
4	17.87	16.00	16.27	15.83	15.39	10.56	10.68	11.80	13.67	12.55	17.56	16.15
5	18.22	16.01	16.25	15.83	15.30	11.78	10.50	11.52	13.80	12.02	17.59	16.13
6	18.10	15.88	16.26	15.85	15.17	12.38	10.64	11.54	13.85	12.39	17.82	16.19
7	18.01	15.43	16.26	15.86	14.78	11.74	10.61	11.64	14.19	12.90	16.19	16.33
8	17.91	13.51	16.24	15.87	15.31	11.78	10.51	11.64	14.06	12.88	15.50	16.24
9	17.84	12.13	16.25	15.78	15.32	13.13	10.46	11.61	12.01	12.78	16.06	16.42
10	17.73	12.26	16.25	15.75	15.30	13.84	10.43	12.14	12.15	13.37	16.17	16.67
11	16.76	12.23	16.27	15.81	15.28	14.16	10.73	12.65	12.13	15.07	15.98	16.58
12	16.66	12.07	16.25	15.81	15.22	14.02	13.01	12.42	12.04	13.74	15.88	16.59
13	16.46	12.15	16.23	15.74	15.22	14.14	12.78	12.18	11.96	14.83	16.18	16.62
14	16.27	12.08	16.24	15.76	15.15	13.93	12.35	11.92	11.90	13.92	16.55	16.87
15	16.07	12.18	16.21	15.76	15.04	14.26	11.97	11.87	11.82	14.06	16.50	17.03
16	16.06	12.12	16.22	15.75	14.98	14.01	11.65	11.51	11.74	15.64	16.46	16.51
17	16.22	12.11	16.17	15.74	14.89	14.26	11.38	11.13	11.68	14.76	16.43	16.51
18	16.13	12.22	16.16	15.54	14.77	14.29	11.16	11.26	11.18	14.87	16.38	15.49
19	16.37	12.20	16.12	14.91	14.69	13.98	11.14	12.39	10.63	14.97	16.36	15.08
20	16.41	12.20	16.05	14.99	14.63	14.66	12.56	13.16	10.61	15.13	16.35	14.89
21	16.20	12.07	16.09	15.44	14.55	14.72	12.51	12.78	10.78	15.76	16.36	14.82
22	16.11	11.95	16.09	15.59	15.37	14.59	12.88	12.24	10.81	15.93	16.44	14.99
23	16.10	12.16	16.07	15.62	15.58	14.65	12.53	11.83	10.59	16.46	16.49	15.02
24	16.10	12.18	16.05	15.52	14.18	14.64	12.86	11.60	10.76	16.75	16.43	15.87
25	16.14	12.12	16.04	15.40	14.11	14.62	13.22	11.44	12.07	16.43	16.34	16.05
26	16.29	12.27	16.05	15.38	13.27	14.57	13.40	11.39	12.75	16.72	16.30	16.11
27	16.25	12.17	15.86	15.35	12.87	14.53	12.85	11.22	12.99	17.15	16.30	16.98
28	16.07	12.08	16.02	15.39	12.14	14.36	11.56	10.96	14.26	16.55	16.30	16.60
29	16.07	12.02	15.98	15.12	---	14.40	13.52	10.63	13.75	16.47	16.29	17.11
30	16.13	12.04	15.91	14.98	---	15.10	13.45	10.64	13.95	16.48	16.27	17.42
31	16.14	---	15.91	14.99	---	14.74	---	11.35	---	16.26	16.24	---
TOTAL	517.21	392.17	497.37	483.04	414.70	428.31	360.85	364.54	372.34	456.54	510.51	485.83
MEAN	16.68	13.07	16.04	15.58	14.81	13.82	12.03	11.76	12.41	14.73	16.47	16.19
MAX	18.22	16.27	16.29	15.92	15.58	15.10	14.12	13.16	14.26	17.15	17.82	17.42
MIN	16.06	11.95	13.14	14.91	12.14	10.56	10.43	10.63	10.59	12.02	15.50	14.82

02278550 LEVEE 8 CANAL AT WEST PALM BEACH CANAL NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°21'35", in SE ¼ 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 current year.

REVISED RECORDS.--WDR FL-84-2A:1982, (revised maximum negative discharge).

GAGE.--Satellite data collection platforms with water-stage shaft encoders for Levee 8 Canal and West Palm Beach Canal west of Levee 8 Canal, Moscad RF Data/Telemetry system operated by South Florida Water Management District for West Palm Beach Canal east of Levee 8 Canal, electronic data logger for Conservation area. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark).

REMARKS.--Records fair, except estimated daily discharges, which are poor. 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. Prior to October 1981, all gages at datum 0.24 ft higher. 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.--Gate-opening record and supplemental stage record provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 41 complete water years of discharge (1958-89, 1991-92, 1994-98, 2000-01).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.58 ft present datum, Oct. 18, 1995, from flood mark; minimum, 8.29 ft present datum, Mar. 17, 1969.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.99 ft Aug. 6; minimum, 9.43 ft May 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.13	16.07	12.02	11.40	10.81	10.66	10.43	9.98	10.37	12.86	16.05	15.42
2	12.24	15.76	11.89	11.34	10.78	10.65	10.22	9.90	10.43	12.56	16.39	15.41
3	13.31	15.65	11.98	11.42	10.78	10.58	10.16	9.89	10.44	12.24	17.13	15.36
4	15.03	15.63	11.95	11.42	10.84	10.56	10.19	9.87	10.43	10.85	17.46	15.39
5	16.64	15.70	11.92	11.36	10.78	10.51	10.50	9.83	10.46	10.88	17.61	15.52
6	16.94	15.18	11.86	11.14	10.85	10.48	10.50	10.12	10.44	12.11	17.83	15.67
7	16.75	12.74	11.85	11.08	10.82	10.42	10.30	10.14	10.44	12.34	17.03	15.76
8	16.37	12.24	11.85	11.04	10.84	10.40	10.21	9.69	10.33	11.99	16.21	15.63
9	16.27	12.24	11.78	11.15	10.78	10.38	10.30	9.63	10.72	11.80	16.27	15.78
10	15.95	12.37	11.74	11.03	10.83	10.37	10.29	9.67	10.59	12.34	16.17	15.90
11	15.58	12.34	11.86	11.28	10.81	10.36	10.28	9.69	10.45	13.11	15.94	15.67
12	15.90	12.18	11.98	11.27	10.78	10.39	10.35	9.75	10.47	13.40	15.63	15.90
13	15.86	12.26	11.90	11.15	10.82	10.35	10.45	9.66	10.58	13.66	15.50	16.00
14	15.69	12.19	12.06	11.13	10.77	10.34	10.48	9.53	10.55	13.68	15.76	16.63
15	15.68	12.30	11.89	11.19	10.85	10.45	10.56	9.48	10.45	13.72	15.71	16.73
16	15.66	12.23	11.94	11.26	10.63	10.36	10.67	9.63	10.53	14.04	15.76	16.73
17	15.72	12.21	12.12	11.18	10.84	10.42	10.66	9.88	10.51	14.10	15.67	16.72
18	15.62	12.32	12.06	11.19	10.83	10.36	10.62	10.04	10.38	14.17	15.87	16.45
19	15.76	12.30	11.94	11.10	10.84	10.18	10.06	10.21	10.45	14.51	15.84	16.17
20	15.88	12.30	12.14	11.24	10.89	10.32	9.88	10.40	10.40	14.87	15.81	15.84
21	15.72	12.17	12.07	11.30	10.86	10.90	9.94	10.36	10.36	15.82	15.81	15.56
22	15.64	12.06	11.83	11.38	10.79	10.58	9.92	10.27	10.31	15.96	15.69	15.46
23	15.65	12.26	11.73	11.18	10.54	10.31	9.93	10.29	10.38	16.15	15.41	15.14
24	15.65	12.28	11.77	11.05	10.58	10.38	9.93	10.34	10.42	16.39	15.45	15.07
25	15.76	12.22	11.78	11.19	10.57	10.04	9.92	10.28	10.75	16.68	15.64	15.28
26	16.00	12.36	11.56	11.12	10.72	10.20	9.90	9.97	10.84	16.77	15.65	15.46
27	15.87	12.27	11.48	11.14	10.56	9.91	9.89	9.74	10.61	16.79	15.60	15.76
28	15.52	12.20	11.47	11.08	10.52	10.01	9.92	9.68	11.71	16.68	15.59	15.21
29	15.57	12.13	11.52	11.15	---	10.17	10.29	9.94	13.24	16.33	15.54	15.66
30	15.68	12.15	11.62	11.11	---	e10.16	10.39	10.14	13.40	16.11	15.51	16.64
31	15.70	---	11.51	11.08	---	10.30	---	10.49	---	16.09	15.45	---
TOTAL	481.74	388.31	367.07	347.15	301.31	321.50	307.14	308.49	321.44	439.00	496.98	473.92
MEAN	15.54	12.94	11.84	11.20	10.76	10.37	10.24	9.95	10.71	14.16	16.03	15.80
MAX	16.94	16.07	12.14	11.42	10.89	10.90	10.67	10.49	13.40	16.79	17.83	16.73
MIN	12.13	12.06	11.47	11.03	10.52	9.91	9.88	9.48	10.31	10.85	15.41	15.07

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278550 LEVEE 8 CANAL AT WEST PALM BEACH CANAL NEAR LOXAHATCHEE, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	-254	221	-53	-3.5	-49	.00	.00	-35	-2.6	.00	-350
2	.00	-166	.00	-36	-26	-60	-9.2	-16	e-36	.00	.00	-346
3	.00	-133	.00	-57	-7.1	-52	-26	-25	e-26	84	.00	-351
4	e-38	-150	.00	-42	-12	15	-11	-5.4	-17	160	.00	-343
5	.00	-227	.00	-86	-38	37	.00	.00	-40	38	.00	-358
6	.00	-103	-30	-20	-47	.00	.00	.00	-16	.00	99	-355
7	.00	-45	.00	-23	-62	11	.00	.00	-27	.00	396	-326
8	.00	-6.5	-48	-42	-63	22	.00	.00	e-15	.00	288	-304
9	.00	364	.00	-15	-42	-37	.00	-20	132	.00	132	-303
10	.00	368	.00	.00	-34	3.9	.00	-14	152	.00	93	-151
11	.00	372	-63	.00	-25	-22	.00	-17	156	.00	.00	-140
12	-213	369	.00	.00	-58	-58	.00	.00	139	.00	.00	-84
13	-183	372	-35	.00	.00	-3.4	.00	.00	139	.00	-66	.00
14	-311	373	-.90	-5.3	-42	-40	.00	.00	151	.00	-121	34
15	-285	374	-27	-26	-64	-27	.00	.00	150	.00	-130	250
16	-287	364	-4.1	-44	-46	-13	.00	.00	150	.00	-164	98
17	-340	364	.00	.00	-26	-84	.00	.00	151	5.2	-201	43
18	-273	362	.00	-15	-45	-46	.00	.00	44	.10	-278	.00
19	-320	353	7.9	-70	-76	-32	-28	.00	-29	.00	-282	.00
20	-285	363	-46	-56	-69	e-75	-50	.00	-4.9	44	-289	68
21	-268	358	-30	.00	-69	43	-51	.00	-15	196	-286	.00
22	-267	370	.00	.00	-40	.00	-23	.00	-9.5	208	-250	.00
23	-253	354	.00	.00	-19	e-40	-54	.00	-2.4	97	-211	.00
24	-257	349	.00	-40	-71	e-65	-12	.00	e-19	.00	-269	.00
25	-323	352	.00	-14	-71	.00	-19	.00	e-42	.00	-329	.00
26	-370	334	.00	-39	-76	.00	-7.9	.00	8.6	.00	-317	.00
27	-355	353	-44	-35	-37	.00	.00	.00	30	.00	-320	181
28	-316	373	-14	-58	-48	-44	-17	-4.3	e-57	.00	-332	366
29	-318	375	-36	-92	---	-44	.00	.00	e-38	.00	-339	139
30	-260	371	-4.1	-65	---	e-6.7	.00	-23	-90	.00	-342	82
31	-221	---	.00	-53	---	-20	---	-66	---	.00	-351	---
TOTAL	-5743.00	6902.5	-153.20	-986.30	-1216.60	-686.20	-308.10	-190.70	883.8	829.70	-3869.00	-2150.00
MEAN	-185	230	-4.94	-31.8	-43.5	-22.1	-10.3	-6.15	29.5	26.8	-125	-71.7
MAX	.00	375	221	.00	.00	43	.00	.00	156	208	396	366
MIN	-370	-254	-63	-92	-76	-84	-54	-66	-90	-2.6	-351	-358
AC-FT	-11390	13690	-304	-1960	-2410	-1360	-611	-378	1750	1650	-7670	-4260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

	251	128	71.1	122	64.9	104	90.4	87.2	117	164	171	243
MEAN	251	128	71.1	122	64.9	104	90.4	87.2	117	164	171	243
MAX	1169	691	616	820	503	714	648	728	896	1048	856	937
(WY)	1996	1960	1995	1958	1983	1970	1970	1984	1968	1992	1986	1960
MIN	-218	-838	-565	-139	-486	-193	-175	-208	-330	-286	-151	-509
(WY)	1977	1992	1992	1976	1999	1977	1974	1992	1989	1982	1977	1981

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1958 - 2001

ANNUAL TOTAL		14701.70		-6687.10								
ANNUAL MEAN		40.2		-18.3						140		
HIGHEST ANNUAL MEAN										453		1970
LOWEST ANNUAL MEAN										-76.7		1977
HIGHEST DAILY MEAN				562	Mar 2		396	Aug 7		3130		Oct 23 1995
LOWEST DAILY MEAN				-438	Aug 29		-370	Oct 26		-2540		Apr 27 1982
ANNUAL SEVEN-DAY MINIMUM				-314	Oct 24		-351	Aug 31		-1700		Nov 27 1991
ANNUAL RUNOFF (AC-FT)				29160			-13260			101100		
10 PERCENT EXCEEDS				356			150			436		
50 PERCENT EXCEEDS				.00			-.90			69		
90 PERCENT EXCEEDS				-172			-258			-111		

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.

02278600 WEST PALM BEACH CANAL BELOW S-5A-E, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°21'50", in SE ¼ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, near left bank, 350 ft downstream from control structure 5A-E, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1955 to current year. Monthly discharge only for September 1955, published in WSP 1724. Records of gage heights prior to October 1961, are available in files of the U.S. Geological Survey.

GAGE.--Satellite data collection platform with water-stage shaft encoder for Levee 8 Canal, South Florida Water Management District CR 10 RFdata/telemetry system for West Palm Beach Canal east of Levee 8 Canal. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). Auxiliary water-stage recorder on West Palm Beach Canal 100 ft east from S-5A-E discontinued on January 14, 1999. Prior to October 1981 all gages at datum 0.24 ft higher.

REMARKS.--Records fair. Normal flow to east regulated at S-5A-E for irrigation and drainage. Flow diverted upstream from station through S-5A-S and by pumpage at S-5A. Flow materially affected by regulation of Cross Canal 1.5 mi upstream and gate structure S-352, 20 mi upstream. Negative figures indicate flow to the west. Discharge computed from relations between discharge, head, and gate openings at S-5A-E. Acoustic velocity meter installed May 1, 1991, along with satellite data collection platform. Acoustic velocity meter removed September 30, 1993. No discharge was computed using the acoustic velocity meter record. Starting in water year 2001, negative discharge is considered estimated, due to updated information provided to the U.S. Geological Survey, (USGS), about the site. Prior negative discharges are not marked estimated in the files or databases of USGS.

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

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 43 complete water years of discharge (1956-89, 1991-92, 1994-98, 2000-01).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 17.34 ft present datum, Oct. 16, 1999; minimum, 6.24 ft present datum, Sept. 9, 1965.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 15.78 ft Oct. 4; minimum, 7.08 ft May 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.29	8.60	8.67	8.68	8.17	8.06	8.69	7.80	8.77	9.50	9.85	8.38
2	8.72	8.64	8.69	8.69	8.11	8.03	8.70	7.89	8.64	8.90	11.39	8.48
3	9.44	8.70	8.68	8.66	8.11	8.03	8.67	7.85	8.74	8.53	13.48	8.38
4	14.46	8.61	8.67	8.69	8.11	8.02	8.59	8.04	8.59	8.62	12.69	8.43
5	15.33	8.54	8.67	8.47	8.08	7.92	8.57	7.91	8.71	8.49	11.87	8.55
6	13.80	8.53	8.69	8.43	8.14	7.78	8.51	7.82	8.62	8.31	11.25	8.75
7	12.42	8.52	8.67	8.41	8.15	7.81	8.48	7.71	8.72	8.50	11.95	8.88
8	11.12	8.49	8.64	8.38	8.17	7.84	8.42	7.54	8.72	8.35	11.35	8.92
9	10.31	8.44	8.61	8.39	8.19	7.82	8.34	7.45	8.72	8.97	10.46	8.95
10	9.74	8.41	8.64	8.39	8.26	7.82	8.25	7.39	8.66	9.36	9.75	9.50
11	9.43	8.44	9.65	8.49	8.31	7.84	8.13	7.45	8.69	9.58	9.37	10.52
12	9.33	8.48	8.23	8.52	8.35	7.85	8.02	7.46	8.84	9.42	9.35	10.54
13	9.10	8.52	8.27	8.47	8.37	7.77	7.92	7.49	8.89	9.77	9.05	12.21
14	8.52	8.53	8.17	8.45	8.34	7.81	7.82	7.49	8.85	9.54	8.96	13.99
15	8.74	8.55	8.75	8.46	8.24	7.77	7.76	7.47	8.76	9.48	8.65	13.07
16	8.53	8.58	8.72	8.42	8.17	7.74	7.68	7.27	8.82	9.63	8.56	11.54
17	8.70	8.57	8.67	8.38	8.15	7.80	7.75	7.17	8.78	9.93	8.71	9.83
18	8.78	8.62	8.72	8.32	8.19	7.94	7.74	7.18	8.75	11.56	8.60	9.36
19	8.79	8.64	8.66	8.30	8.28	8.97	7.76	7.19	8.72	11.26	8.52	8.99
20	8.75	8.63	8.67	8.40	8.26	9.30	7.78	7.22	8.62	10.10	8.66	8.83
21	8.80	8.63	8.73	8.50	8.15	8.82	7.82	7.24	8.63	10.67	8.81	8.86
22	8.64	8.62	8.74	8.60	8.07	8.71	7.89	7.27	8.79	11.06	8.98	8.65
23	8.72	8.60	8.75	8.59	8.08	8.63	7.85	7.44	9.07	11.58	9.21	8.76
24	8.74	8.63	8.72	8.49	8.20	8.73	7.79	7.79	9.20	14.58	8.93	8.60
25	8.71	9.79	8.76	8.39	8.21	8.75	7.71	8.06	9.33	13.27	8.74	9.12
26	8.79	8.74	8.80	8.35	8.16	8.70	7.63	8.29	9.31	12.11	8.61	11.03
27	8.73	8.31	8.66	8.26	8.07	8.67	7.55	8.40	9.28	11.12	8.53	12.16
28	8.67	8.47	8.68	8.26	8.13	8.67	7.65	8.56	11.76	9.83	8.50	11.95
29	8.73	8.68	8.57	8.32	---	8.80	7.70	8.72	11.07	9.66	8.45	13.12
30	8.73	8.72	8.54	8.33	---	9.10	7.75	8.75	9.67	9.82	8.27	13.07
31	8.68	---	8.58	8.26	---	8.73	---	8.76	---	9.83	8.38	---
TOTAL	298.24	258.23	268.67	261.75	229.22	256.23	240.92	240.07	270.72	311.33	297.88	301.42
MEAN	9.62	8.61	8.67	8.44	8.19	8.27	8.03	7.74	9.02	10.04	9.61	10.05
MAX	15.33	9.79	9.65	8.69	8.37	9.30	8.70	8.76	11.76	14.58	13.48	13.99
MIN	8.29	8.31	8.17	8.26	8.07	7.74	7.55	7.17	8.59	8.31	8.27	8.38

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL

LOCATION.--Lat 26°38'40", long 80°03'22", in NW ¼ sec.15, T.44 S., R.34 E., Palm Beach County, Hydrologic Unit 03090202, on left bank in concrete control house north of control structure, 200 ft downstream from bridge on U.S. Highway 1, and 4.9 mi south of courthouse in West Palm Beach.

DRAINAGE AREA.--Indeterminate.

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

REVISED RECORDS.--WDR FL-91-2A:1986-89.

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

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

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

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 54 complete water years of discharge (1941-84, 1986-90, 1993-94, 1998-99, 2001).

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

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 9.27 ft Nov 25; minimum, 6.89 ft Mar. 20.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.88 ft Sept. 16; minimum, -1.75 ft Feb. 8.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.04	8.51	8.60	8.62	8.08	8.03	8.63	7.67	8.62	8.03	7.99	8.18
2	7.84	8.55	8.65	8.66	8.04	7.99	8.61	7.72	8.45	8.01	7.24	8.23
3	7.27	8.63	8.64	8.62	8.04	7.97	8.58	7.73	8.55	8.05	7.33	8.17
4	7.18	8.56	8.65	8.65	8.05	7.99	8.53	7.89	8.44	8.04	7.21	8.19
5	7.24	8.50	8.66	8.45	8.04	8.01	8.47	7.82	8.65	8.11	7.26	8.18
6	7.17	8.46	8.64	8.40	8.04	7.87	8.40	7.71	8.55	8.03	7.33	8.18
7	7.16	8.45	8.65	8.37	8.05	7.81	8.37	7.60	8.63	8.12	7.40	8.19
8	7.30	8.41	8.62	8.35	8.05	7.78	8.31	7.46	8.61	8.09	7.80	8.01
9	7.24	8.39	8.56	8.41	8.06	7.78	8.23	7.35	8.56	8.09	7.98	7.89
10	7.71	8.39	8.55	8.36	8.16	7.77	8.16	7.33	8.52	8.04	8.02	7.71
11	8.01	8.43	8.03	8.43	8.22	7.77	8.05	7.36	8.58	8.10	8.12	7.31
12	8.15	8.45	7.88	8.51	8.23	7.76	7.95	7.38	8.49	7.95	8.13	7.32
13	7.98	8.47	7.95	8.46	8.25	7.77	7.87	7.40	8.21	7.93	8.09	7.39
14	7.95	8.50	7.98	8.41	8.24	7.74	7.80	7.40	8.61	8.02	8.10	7.91
15	8.21	8.51	8.60	8.39	8.14	7.71	7.74	7.39	8.64	7.99	8.02	7.22
16	8.20	8.52	8.58	8.36	8.07	7.68	7.68	7.29	8.69	8.05	8.13	7.18
17	8.55	8.55	8.59	8.30	8.09	7.74	7.73	7.18	8.64	8.11	8.19	7.23
18	8.58	8.57	8.67	8.25	8.10	7.86	7.74	7.16	8.62	8.05	8.14	7.71
19	8.61	8.60	8.62	8.21	8.12	7.80	7.71	7.16	8.60	8.06	7.98	7.99
20	8.61	8.61	8.62	8.37	8.14	8.01	7.70	7.17	8.53	8.04	8.12	8.10
21	8.52	8.61	8.69	8.47	8.06	8.63	7.71	7.17	8.52	8.14	8.21	8.08
22	8.50	8.59	8.67	8.57	8.01	8.63	7.74	7.21	8.55	8.03	8.02	8.19
23	8.55	8.56	8.67	8.60	7.98	8.55	7.74	7.39	8.46	7.94	8.09	8.27
24	8.57	8.53	8.64	8.49	8.01	8.67	7.74	7.71	8.48	7.27	8.17	8.07
25	8.49	8.66	8.68	8.38	8.04	8.72	7.69	8.00	8.62	7.20	8.22	8.05
26	8.64	7.81	8.65	8.28	8.03	8.68	7.59	8.20	8.47	7.22	8.12	8.02
27	8.62	8.16	8.53	8.21	7.98	8.61	7.48	8.33	8.34	7.26	8.05	7.23
28	8.57	8.39	8.58	8.18	8.08	8.56	7.54	8.48	7.31	7.59	8.17	7.27
29	8.63	8.61	8.49	8.18	---	8.60	7.59	8.64	7.17	8.00	8.14	7.26
30	8.62	8.66	8.53	8.23	---	8.61	7.61	8.68	7.72	8.16	7.94	7.24
31	8.57	---	8.55	8.18	---	8.64	---	8.68	---	8.17	8.10	---
TOTAL	251.28	254.64	264.42	260.35	226.40	251.74	238.69	237.66	252.83	245.89	245.81	233.97
MEAN	8.11	8.49	8.53	8.40	8.09	8.12	7.96	7.67	8.43	7.93	7.93	7.80
MAX	8.64	8.66	8.69	8.66	8.25	8.72	8.63	8.68	8.69	8.17	8.22	8.27
MIN	7.16	7.81	7.88	8.18	7.98	7.68	7.48	7.16	7.17	7.20	7.21	7.18

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.58	1.19	.58	.41	-.01	.35	.12	.56	.42	.40	.80	.66
2	1.60	1.18	.51	.40	-.10	.34	.05	.75	.44	.44	.94	.65
3	1.51	1.07	.68	.40	.02	.26	.04	.75	.33	.42	1.05	.70
4	1.36	1.15	1.05	.55	.02	.18	.05	.84	.15	.29	.95	.50
5	1.12	1.31	1.40	.53	.00	.15	.30	.84	-.06	.28	.68	.57
6	1.23	1.35	1.46	.46	.06	.35	.33	.84	-.18	.32	.46	.66
7	1.19	1.13	1.28	.52	.10	.54	.17	.85	-.19	.43	.43	.91
8	1.25	1.17	1.09	.46	-.02	.69	.04	.82	-.17	.46	.55	1.02
9	1.67	1.20	.93	.24	-.07	.61	.16	.74	-.05	.54	.65	.88
10	1.73	1.14	.91	.37	-.11	.71	.29	.71	.05	.57	.64	.71
11	1.59	1.20	1.00	.39	-.03	.62	.34	.68	.01	.57	.51	.62
12	1.64	1.27	.70	.36	.03	.43	.25	.58	.16	.52	.29	.87
13	1.60	1.15	.69	.60	-.07	.18	.12	.59	.23	.42	.29	1.31
14	1.39	.96	.47	.71	-.03	.02	.26	.58	.27	.58	.45	1.41
15	1.35	.96	.44	.59	.01	.17	.49	.62	.05	.75	.65	1.22
16	1.38	.96	.60	.46	-.09	.09	.63	.59	-.01	.72	.87	1.61
17	1.43	.88	.42	.41	.06	-.04	.63	.66	-.05	.59	.74	1.72
18	1.42	.81	.35	.42	.14	.12	.59	.71	-.11	.57	.72	1.64
19	1.40	.85	.41	.34	.38	.53	.48	.72	-.02	.65	.60	1.46
20	1.33	.98	.34	.07	.17	.56	.32	.72	.10	.63	.46	1.23
21	1.33	1.12	.50	-.09	.23	.48	.25	.68	.21	.72	.52	1.23
22	1.37	.98	.38	.12	.40	.44	.15	.76	.39	.75	.55	1.12
23	1.51	.84	.58	.29	.43	.48	.16	.92	.49	.66	.42	1.08
24	1.65	.81	.69	.53	.38	.40	.09	.78	.40	.64	.39	1.02
25	1.78	1.01	.85	.43	.22	.29	.06	.43	.35	.39	.46	.98
26	1.77	.72	.74	.37	.16	.31	.11	.31	.31	.32	.52	.85
27	1.67	.61	.60	.39	.21	.24	.19	.25	.35	.31	.80	1.01
28	1.59	.55	.58	.23	.29	.23	.38	.32	.59	.28	.75	1.16
29	1.40	.64	.65	.24	---	.25	.38	.42	.62	.41	.51	1.63
30	1.14	.55	.55	.04	---	.12	.46	.49	.51	.53	.61	1.90
31	1.12	---	.49	-.02	---	-.03	---	.47	---	.62	.66	---
TOTAL	45.10	29.74	21.92	11.22	2.78	10.07	7.89	19.98	5.59	15.78	18.92	32.33
MEAN	1.45	.99	.71	.36	.10	.32	.26	.64	.19	.51	.61	1.08
MAX	1.78	1.35	1.46	.71	.43	.71	.63	.92	.62	.75	1.05	1.90
MIN	1.12	.55	.34	-.09	-.11	-.04	.04	.25	-.19	.28	.29	.50

EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

LOCATION.--Lat 26°45'14", long 80°55'07", in NW ¼ 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 September 1979, October 1979 to September 1981 (gage heights only), October 1982 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 are poor. 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 10 complete water years of discharge (1977-79, 1983-87, 1990, 1994).

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.--Maximum gage height, 14.80 ft Sept. 30; minimum, 8.73 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.30	12.24	11.76	11.26	10.86	10.43	10.25	9.80	9.07	e9.32	10.85	11.95
2	12.30	12.21	11.61	11.28	10.92	10.40	10.38	9.67	9.07	9.32	11.07	12.01
3	12.18	12.17	11.66	11.36	11.18	10.30	10.40	9.74	9.12	9.34	10.98	11.99
4	11.96	12.16	11.96	11.21	11.04	10.22	10.31	9.89	9.15	9.22	11.04	12.00
5	12.18	12.07	11.82	11.09	11.01	10.27	10.31	9.90	9.15	9.25	11.09	12.01
6	12.30	12.02	11.71	10.95	10.95	10.32	10.39	9.91	9.21	9.24	11.25	11.99
7	12.38	11.99	11.56	11.00	10.91	10.39	10.35	9.77	9.21	9.24	11.43	12.02
8	12.53	11.99	11.50	10.93	10.96	10.35	e10.29	9.81	9.24	9.24	11.40	12.10
9	13.02	11.93	11.46	11.03	10.94	10.28	10.23	9.59	9.28	9.21	11.40	e12.16
10	12.92	11.85	11.47	11.29	10.86	10.22	10.17	9.48	9.30	9.16	11.44	e12.30
11	12.63	11.99	11.45	11.08	10.85	10.31	10.13	9.43	9.16	9.23	11.50	e12.45
12	12.61	12.02	11.41	10.95	10.86	10.23	10.09	9.39	9.15	9.32	11.56	12.64
13	12.58	11.92	11.44	11.05	e10.84	10.08	10.06	9.32	9.09	9.37	11.58	12.81
14	12.46	11.77	11.45	11.07	e10.82	10.05	10.02	9.20	9.18	9.48	11.59	12.56
15	12.49	11.98	11.46	10.99	e10.75	10.08	10.01	9.16	9.17	9.84	11.67	12.80
16	12.44	11.96	11.42	10.99	10.68	10.02	9.96	9.01	9.16	9.93	11.71	13.25
17	12.33	11.71	11.31	10.98	10.60	10.06	9.95	9.05	9.10	9.94	11.70	13.35
18	12.31	11.81	11.44	10.95	10.94	10.31	10.23	9.03	9.13	9.99	11.74	13.40
19	12.32	e11.72	11.32	10.86	11.03	10.46	10.13	8.99	9.26	10.07	11.74	13.45
20	12.31	e11.94	11.41	10.82	10.82	10.31	9.85	8.98	9.23	10.07	11.75	13.53
21	12.34	12.26	11.39	11.19	10.70	e10.18	9.91	8.93	9.14	10.04	11.82	13.60
22	12.44	12.14	11.34	11.21	10.66	10.18	9.98	8.88	9.11	9.95	11.93	13.68
23	12.54	11.83	11.53	11.00	10.65	10.25	9.81	8.83	9.08	10.02	12.00	13.76
24	12.54	11.66	11.48	10.96	10.68	10.28	9.70	9.14	9.14	10.39	11.98	13.71
25	12.45	11.59	11.63	10.96	10.60	10.22	9.63	8.97	9.19	10.47	11.97	13.77
26	12.35	11.58	11.42	11.07	10.55	10.21	10.02	9.04	9.37	10.50	12.08	13.87
27	12.32	11.73	11.28	10.95	10.53	10.37	9.91	9.04	9.57	10.53	12.06	13.95
28	12.27	11.75	11.09	10.95	10.44	10.53	9.69	9.10	9.52	10.57	12.00	13.94
29	12.18	11.69	11.14	10.92	---	e10.36	9.76	9.07	9.40	10.57	11.97	14.28
30	12.18	11.77	11.26	10.83	---	e10.34	9.77	9.07	9.35	10.60	11.97	14.40
31	12.23	---	11.35	10.82	---	10.26	---	9.04	---	10.64	11.92	---
TOTAL	384.39	357.45	355.53	342.00	302.63	318.27	301.69	288.23	276.30	304.06	360.19	389.73
MEAN	12.40	11.91	11.47	11.03	10.81	10.27	10.06	9.30	9.21	9.81	11.62	12.99
MAX	13.02	12.26	11.96	11.36	11.18	10.53	10.40	9.91	9.57	10.64	12.08	14.40
MIN	11.96	11.58	11.09	10.82	10.44	10.02	9.63	8.83	9.07	9.16	10.85	11.95

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-47	138	65	110	-9.8	17	-6.0	91	1.3	e1.2	11	108
2	-27	110	12	36	85	135	69	35	1.5	6.2	-18	15
3	-286	46	57	-12	-5.5	9.2	1.6	31	2.0	4.6	-209	154
4	-281	96	98	81	-6.3	-12	96	28	.71	3.0	-61	5.9
5	-463	115	23	71	e21	30	8.2	18	-1.1	18	-105	-54
6	-199	118	128	17	-.74	-4.8	157	12	-5.5	8.2	-123	-19
7	-65	306	49	41	50	113	-3.9	32	-6.7	4.3	-253	-4.3
8	2.4	258	187	13	-2.1	6.2	e-4.8	19	-5.9	-2.4	-230	.93
9	108	152	20	50	69	70	112	9.1	-11	-5.5	1.9	e-86
10	.12	115	-.21	47	-6.1	23	8.2	17	.45	5.4	-3.3	e-248
11	22	134	173	-32	3.9	-15	121	16	-8.0	9.7	-41	e-293
12	84	167	7.8	55	97	74	5.5	5.7	.76	12	13	-125
13	57	56	92	9.9	e14	-4.3	127	14	5.5	-87	.94	-389
14	77	136	1.2	-15	e49	117	5.4	17	6.9	-191	-53	-534
15	136	125	102	65	e-23	3.0	-.29	2.5	6.0	-330	10	-435
16	131	83	-40	-5.6	80	94	84	12	-9.7	-211	-5.4	-100
17	47	246	11	54	2.3	5.4	8.2	21	-3.8	5.7	4.0	-18
18	100	115	88	2.5	54	-2.9	e143	12	2.4	4.6	5.7	-33
19	73	e2.9	129	27	4.2	28	e12	-3.8	11	-8.4	4.4	7.5
20	124	e82	282	6.1	-.90	-.20	105	6.5	11	-.39	139	1.7
21	181	97	126	e49	65	e-83	46	12	13	-4.2	-2.6	.37
22	106	129	130	---	12	8.5	8.7	-14	8.9	-2.7	-143	7.4
23	119	95	-9.0	e-36	189	56	74	2.6	5.3	4.7	-10	3.5
24	180	86	24	-13	34	6.0	61	9.0	7.7	4.8	-7.6	-3.2
25	149	17	35	-1.9	-16	-8.9	97	.73	-58	-9.1	-65	9.7
26	140	-14	-11	4.5	11	70	146	2.2	-198	-5.9	21	-15
27	91	18	102	-12	-8.2	1.4	121	6.0	-274	-13	80	-300
28	31	53	-10	-1.3	86	86	28	14	13	-7.1	103	-402
29	125	68	130	24	---	e-11	6.1	2.9	8.2	-15	121	-426
30	178	60	147	-9.9	---	e-7.2	107	7.2	-1.9	-6.6	96	-397
31	219	---	213	19	---	-15	---	1.6	---	-11	162	---
TOTAL	1112.52	3209.9	2361.79	643.3	847.76	802.80	1742.91	439.23	-477.98	-817.89	-556.96	-3567.50
MEAN	35.9	107	76.2	21.4	30.3	25.9	58.1	14.2	-15.9	-26.4	-18.0	-119
MAX	219	306	282	110	189	135	157	91	13	18	162	154
MIN	-463	-14	-40	-36	-23	-83	-6.0	-14	-274	-330	-253	-534
AC-FT	2210	6370	4680	1280	1680	1590	3460	871	-948	-1620	-1100	-7080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	45.3	58.7	62.4	50.0	65.9	78.6	108	108	55.4	17.3	2.10	18.6
MAX	194	315	438	467	474	472	448	366	399	245	219	232
(WY)	1988	1986	1988	1988	1988	1988	1986	1987	1998	1984	1987	1987
MIN	-93.6	-27.6	-122	-120	-63.7	-42.3	-50.3	-92.3	-153	-96.6	-153	-119
(WY)	1994	1979	1998	1992	1992	1992	1991	1978	1999	1995	1978	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1976 - 2001

ANNUAL MEAN										59.7		
HIGHEST ANNUAL MEAN										232		1987
LOWEST ANNUAL MEAN										-30.2		1978
HIGHEST DAILY MEAN				374	May 25		306	Nov 7		740	Feb 24	1989
LOWEST DAILY MEAN				-515	Sep 18		-534	Sep 14		-1400	Jul 4	1984
ANNUAL SEVEN-DAY MINIMUM				-257	Sep 17		-303	Sep 10		-455	Jun 26	1992
ANNUAL RUNOFF (AC-FT)										43230		
10 PERCENT EXCEEDS				242			126			242		
50 PERCENT EXCEEDS				57			8.2			21		
90 PERCENT EXCEEDS				-50			-44			-77		

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02280500 HILLSBORO CANAL BELOW S-351, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°42'00", long 80°42'45", in SW ¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, acoustic 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.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. 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. Prior to April 1993 water year electromagnetic velocity meter and digital water-stage recorder. Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter installed December 1990. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

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 velocity meter.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 40 complete water years of discharge (1958-88, 1991-95, 1997-98, 2000-01).

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, 13.27 ft Sept. 29, (estimated); minimum, 7.64 ft May 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.05	11.40	10.75	10.64	10.42	8.95	10.16	8.73	10.77	10.54	10.63	10.87
2	10.74	11.34	10.74	10.69	10.43	9.20	10.62	8.04	10.68	10.22	10.75	10.92
3	9.79	11.24	10.60	10.61	10.42	8.82	10.81	7.94	10.49	10.02	10.58	11.06
4	11.68	11.26	10.60	10.50	10.28	8.68	10.55	8.22	10.38	10.09	10.61	11.10
5	11.64	11.34	10.47	10.46	10.36	9.18	10.37	9.33	10.29	10.21	10.66	11.52
6	11.33	11.41	10.54	10.56	10.30	8.77	10.00	9.88	10.36	10.48	10.61	10.80
7	11.52	11.24	10.36	10.69	10.28	8.92	9.73	9.16	10.58	10.43	10.32	10.43
8	11.73	11.13	10.56	10.73	10.03	8.48	9.60	9.09	10.79	10.21	10.39	10.71
9	12.04	11.04	10.33	10.62	10.24	9.57	9.26	9.07	10.60	10.09	10.72	10.91
10	11.59	10.95	10.26	10.48	10.09	10.00	9.91	9.04	10.39	10.74	10.83	10.84
11	10.74	11.07	10.60	10.48	9.90	10.11	10.04	8.96	10.92	11.05	10.42	10.13
12	10.54	11.04	10.52	10.49	10.25	9.90	10.35	8.91	10.61	11.18	10.87	10.29
13	11.23	10.92	10.73	10.30	10.04	9.94	10.32	8.50	10.58	11.24	10.70	10.06
14	10.91	10.90	e10.58	10.23	10.12	9.77	10.38	8.98	10.76	10.60	10.55	10.04
15	10.60	10.96	10.66	10.23	9.80	9.90	10.04	9.14	10.82	10.69	9.93	9.70
16	10.88	10.89	10.50	10.03	9.99	9.74	9.39	8.78	10.63	10.94	10.63	10.11
17	10.91	10.97	10.29	10.14	9.67	9.92	9.73	8.60	10.47	10.82	10.56	11.37
18	11.03	11.04	10.65	10.04	9.57	9.37	9.31	8.86	10.27	10.74	10.38	11.48
19	11.29	11.08	10.57	10.18	10.02	9.64	9.37	9.47	10.22	10.91	10.17	11.33
20	11.37	11.13	10.76	10.06	9.85	11.18	9.21	9.95	10.39	10.65	10.15	10.96
21	11.44	11.13	10.87	10.09	9.84	11.22	8.74	9.62	10.27	10.48	10.63	10.77
22	11.41	10.93	10.60	10.44	9.50	11.57	9.51	9.19	10.34	10.79	10.79	10.91
23	11.36	11.07	10.28	10.88	9.57	11.45	9.38	9.01	10.61	11.38	10.71	11.02
24	11.40	11.09	9.99	10.86	9.29	11.33	9.55	9.42	10.92	11.62	10.51	11.13
25	11.47	11.22	10.39	10.76	9.17	11.15	9.09	9.14	10.80	10.53	10.76	11.12
26	11.27	10.93	10.31	10.68	9.30	10.81	9.21	9.07	10.85	10.85	10.83	11.06
27	11.14	10.88	10.54	10.58	9.07	10.58	9.01	9.14	10.40	10.26	10.79	11.20
28	11.23	10.88	10.69	10.56	9.28	10.59	8.65	9.30	10.79	10.61	10.66	10.44
29	11.24	10.67	10.65	10.44	---	10.72	9.72	9.02	10.42	10.62	10.60	e11.46
30	11.26	10.62	10.64	10.50	---	e11.37	9.56	9.65	10.69	10.36	10.81	e10.59
31	11.54	---	10.71	10.46	---	10.53	---	10.04	---	10.29	10.89	---
TOTAL	347.37	331.77	326.74	324.41	277.08	311.36	291.57	281.25	317.09	329.64	328.44	324.33
MEAN	11.21	11.06	10.54	10.46	9.90	10.04	9.72	9.07	10.57	10.63	10.59	10.81
MAX	12.04	11.41	10.87	10.88	10.43	11.57	10.81	10.04	10.92	11.62	10.89	11.52
MIN	9.79	10.62	9.99	10.03	9.07	8.48	8.65	7.94	10.22	10.02	9.93	9.70

e Estimated

02280500 HILLSBORO CANAL BELOW S-351, NEAR SOUTH BAY, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	89	188	170	19	65	-154	-15	189	55	-328	51
2	83	184	35	170	142	242	105	-1.7	-157	46	-697	114
3	19	224	14	211	28	72	118	117	-149	122	-940	240
4	-538	160	214	101	40	41	-41	119	183	147	-860	73
5	-1240	158	9.4	229	195	258	-32	295	316	-23	-783	93
6	-1030	243	251	217	-9.9	96	-10	138	327	-175	-764	-243
7	-722	378	37	175	170	182	45	83	347	-18	-565	-180
8	-333	323	288	217	-4.0	62	12	274	179	27	-447	-3.9
9	237	335	40	124	237	394	167	368	-95	170	-416	-507
10	269	332	39	44	50	378	258	290	-71	112	-377	-433
11	251	293	321	9.2	2.1	362	295	281	382	141	-509	22
12	260	236	137	152	270	315	330	229	181	-153	-346	70
13	181	234	314	.40	88	332	288	133	101	-112	-413	-54
14	313	282	e149	13	224	322	230	313	120	5.8	-466	-523
15	332	298	305	101	57	336	37	308	312	-373	-471	-520
16	356	296	64	7.7	246	319	158	306	197	-450	-184	176
17	247	362	54	106	78	325	269	243	105	40	-159	305
18	264	384	349	30	-9.3	107	170	225	204	141	-137	276
19	281	363	298	157	295	134	234	301	297	-38	-131	330
20	188	302	299	20	96	173	173	326	272	91	24	369
21	87	239	222	12	195	286	77	296	218	-111	134	260
22	77	258	292	177	43	283	306	315	245	4.8	-317	212
23	70	345	124	33	209	27	294	348	203	-325	-348	196
24	129	339	97	-63	41	99	297	291	176	-842	-70	79
25	59	266	328	24	34	117	211	80	-81	-586	157	101
26	98	139	154	3.8	168	139	269	110	-74	-485	137	20
27	119	118	365	49	26	136	226	124	17	-697	25	-440
28	132	192	287	-41	227	204	31	225	-145	-304	-22	-164
29	139	-36	318	65	---	204	292	293	16	-405	73	e-401
30	129	-51	190	48	---	e-264	82	311	15	-469	22	e-904
31	160	---	143	124	---	-497	---	129	---	-380	-43	---
TOTAL	635	7285	5925.4	2686.10	3156.9	5249	4737	6854.3	3830	-4843.4	-9221	-1385.9
MEAN	20.5	243	191	86.6	113	169	158	221	128	-156	-297	-46.2
MAX	356	384	365	229	295	394	330	368	382	170	157	369
MIN	-1240	-51	9.4	-63	-9.9	-497	-154	-15	-157	-842	-940	-904
AC-FT	1260	14450	11750	5330	6260	10410	9400	13600	7600	-9610	-18290	-2750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	-9.66	23.4	48.8	28.7	51.3	81.7	218	158	-20.4	-106	-101	-123
MAX	296	366	520	483	574	359	676	720	610	482	268	351
(WY)	1995	1974	1996	2000	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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1957 - 2001

ANNUAL TOTAL	91673.80	24908.40	
ANNUAL MEAN	250	68.2	15.0
HIGHEST ANNUAL MEAN			288
LOWEST ANNUAL MEAN			-207
HIGHEST DAILY MEAN	881	May 20	394
LOWEST DAILY MEAN	-1240	Oct 5	-1240
ANNUAL SEVEN-DAY MINIMUM	-537	Oct 2	-722
ANNUAL RUNOFF (AC-FT)	181800		49410
10 PERCENT EXCEEDS	638		314
50 PERCENT EXCEEDS	236		124
90 PERCENT EXCEEDS	-43		-338

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281200 HILLSBORO CANAL AT S-6, NEAR SHAWANO, FL

LOCATION.--Lat 26°28'18", long 80°26'46", in NE ¼ 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 (gauge heights and discharge). October 1968 to September 1981 (discharge), October 1990 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until January 30, 2002, when it was removed. Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter installed August 10, 2001. 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 Canal 351 and pump station 2 at Lake Okeechobee and by drainage and irrigation pumps upstream. Records include flow from Levee 6 Canal since March 15, 1966. 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.

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 26 complete water years of discharge (1958-81, 1998, 2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gauge height, 14.74 ft Dec. 25, 1958; minimum, 7.35 ft May 14, 1959.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gauge height, 12.64 ft Mar. 30; minimum, 7.79 ft May 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.61	11.68	10.88	10.84	10.65	9.20	e10.81	9.00	11.02	10.72	11.27	11.09
2	9.99	11.57	11.01	10.92	10.60	9.09	10.85	e8.33	11.13	10.41	11.12	11.05
3	9.20	e11.45	10.95	10.76	10.71	9.00	10.96	7.97	10.89	e10.18	11.01	11.11
4	10.65	11.50	10.74	10.82	10.56	8.93	10.83	8.37	10.37	10.23	11.10	11.24
5	12.06	11.57	10.82	10.50	10.52	9.09	10.63	9.13	10.18	10.51	10.72	11.66
6	e11.68	11.54	10.58	10.67	10.56	9.17	10.24	9.97	e10.34	10.88	10.90	11.63
7	11.34	11.16	10.66	10.86	10.35	8.93	9.91	9.35	e10.42	10.67	e10.92	10.93
8	10.95	11.15	10.51	10.83	10.26	8.76	9.81	8.88	e10.99	10.45	11.38	e10.99
9	10.70	11.04	10.56	10.95	10.18	8.88	9.36	8.67	---	10.29	11.56	12.14
10	10.26	10.97	10.49	10.76	10.30	9.39	9.80	8.72	---	10.96	11.65	e10.44
11	9.31	11.20	10.43	10.72	10.14	9.53	9.89	8.73	e10.48	11.07	11.72	9.32
12	9.99	11.23	10.71	10.68	10.11	9.41	10.03	8.71	10.62	e11.74	11.59	9.30
13	11.07	11.07	10.59	10.67	10.18	9.53	10.20	8.62	10.83	11.34	11.63	9.33
14	10.43	10.95	e10.70	10.55	10.06	9.41	10.43	8.70	10.97	10.39	11.72	9.34
15	10.25	11.06	10.56	10.42	9.99	9.40	e10.32	8.74	10.75	11.56	e11.30	9.26
16	10.52	e10.91	10.66	10.28	9.84	9.35	e9.57	8.68	10.74	10.97	e11.16	9.60
17	11.04	10.92	10.59	10.31	9.94	9.47	e9.67	8.43	10.67	e9.45	e10.92	11.20
18	11.22	10.97	e10.46	10.28	9.87	9.45	9.57	8.70	10.40	9.81	10.71	10.78
19	11.42	11.00	10.68	10.24	9.78	9.80	9.27	9.23	10.13	10.63	10.51	10.70
20	11.58	e11.23	10.69	10.40	9.97	10.73	9.19	9.67	10.38	10.63	e10.38	10.30
21	11.69	11.36	10.96	10.47	9.82	10.86	8.83	9.34	10.30	10.56	e10.70	10.75
22	11.67	11.05	10.61	10.72	9.75	11.30	9.15	8.75	10.36	10.64	11.64	11.00
23	e11.65	10.99	10.47	11.32	9.57	11.74	8.99	8.66	e10.69	11.24	11.53	11.15
24	11.65	10.98	10.25	11.24	9.41	11.56	9.28	9.18	e11.04	11.91	e10.90	11.38
25	11.75	11.27	e10.19	11.11	9.31	11.38	9.15	9.33	11.16	10.87	10.85	11.34
26	11.57	11.17	10.41	10.96	9.29	11.05	9.10	9.22	11.15	e11.78	10.99	11.31
27	11.43	11.16	10.30	10.86	9.29	10.82	9.00	9.31	10.70	12.15	11.05	10.25
28	11.48	11.10	10.64	10.83	9.17	10.65	8.82	9.28	e11.29	11.63	10.97	9.28
29	11.50	11.01	10.68	10.58	---	10.72	9.56	8.99	e10.76	11.61	10.83	10.21
30	11.51	10.98	10.86	10.71	---	e11.49	9.70	9.65	10.87	11.50	11.03	10.47
31	11.78	---	10.96	10.59	---	11.58	---	e10.29	---	11.32	11.15	---
TOTAL	341.95	335.24	329.60	331.85	280.18	309.67	292.92	278.60	299.63	338.10	344.91	318.55
MEAN	11.03	11.17	10.63	10.70	10.01	9.99	9.76	8.99	10.70	10.91	11.13	10.62
MAX	12.06	11.68	11.01	11.32	10.71	11.74	10.96	10.29	11.29	12.15	11.72	12.14
MIN	9.20	10.91	10.19	10.24	9.17	8.76	8.82	7.97	10.13	9.45	10.38	9.26

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281400 HILLSBORO CANAL NEAR MARGATE, FL

LOCATION.--Lat 26°19'48", long 80°12'45", in NW ¼ sec.36, T.47 S., R.41 E., Broward County, Hydrologic Unit 03090202, on north side of Hillsboro Road, 0.7 mi west of U.S. Highway 441, and 5.1 mi north of Margate.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

REVISED RECORDS.--WDR FL-99-2A:1998

GAGE.--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 starting 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 are fair. Flow affected by regulation downstream and upstream storage releases at control structures S-39 and S39A.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1977-89, 1996, 1998-2001).

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, 10.20 ft Sept. 29; minimum, 5.08 ft Mar. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.07	8.57	7.93	8.02	7.30	6.98	8.21	5.40	8.41	7.62	8.27	7.53
2	8.19	8.47	8.08	7.78	7.53	7.04	8.08	5.52	8.33	7.57	8.29	7.51
3	8.69	8.14	7.88	8.06	7.53	6.99	7.58	5.59	8.51	7.50	9.17	7.46
4	9.72	8.09	8.01	7.78	7.32	7.20	7.13	6.51	8.57	7.44	9.27	7.58
5	9.02	8.08	8.09	7.44	7.44	6.81	6.86	7.21	8.54	7.34	8.60	7.69
6	7.93	7.97	7.85	7.65	7.29	5.70	6.66	7.30	8.62	7.26	8.40	7.79
7	7.97	7.80	8.06	7.61	7.09	5.34	6.55	7.20	8.61	7.24	8.11	7.88
8	7.59	8.13	7.74	7.61	7.45	5.29	6.51	6.93	8.68	7.36	8.00	8.05
9	7.78	7.77	7.86	7.28	7.42	5.31	6.47	6.79	8.46	7.35	7.78	8.02
10	8.12	8.05	8.01	7.36	7.57	5.29	6.30	6.68	8.24	7.76	7.91	8.03
11	8.09	7.96	8.00	7.59	7.56	5.27	6.12	6.56	8.23	7.74	8.24	7.91
12	7.80	7.83	7.92	7.41	7.22	5.27	6.03	6.31	8.13	7.88	8.04	7.12
13	7.81	7.68	7.90	7.25	7.46	5.32	5.98	6.12	8.14	7.63	8.06	8.52
14	8.00	8.04	8.15	7.56	7.35	5.29	6.01	6.03	8.03	7.82	8.06	8.72
15	8.16	7.28	7.96	7.43	7.08	5.26	5.93	5.92	7.77	7.90	8.10	8.22
16	8.07	7.51	7.76	7.24	7.14	5.30	5.88	5.80	7.53	8.00	8.16	8.17
17	8.02	7.58	8.03	7.53	7.14	5.30	5.81	5.72	7.38	7.93	7.83	8.07
18	7.99	7.95	7.92	7.32	7.20	5.28	5.69	5.56	7.28	7.73	7.54	7.80
19	8.25	8.08	7.66	7.55	7.16	6.44	5.51	5.42	7.29	7.88	7.91	7.84
20	8.46	7.88	8.04	7.84	7.16	8.34	5.33	5.35	7.26	7.72	8.16	7.93
21	8.70	7.80	7.99	8.10	7.18	8.21	5.28	5.34	7.23	8.12	7.93	7.78
22	8.62	7.99	7.79	7.94	7.23	7.81	5.28	5.35	7.43	7.77	7.96	7.75
23	8.62	7.86	8.00	8.00	7.19	7.40	5.31	5.47	7.73	8.24	7.94	8.03
24	8.76	8.02	8.06	7.62	7.26	7.05	5.27	6.04	8.05	8.54	7.91	8.13
25	8.86	8.36	8.26	7.34	7.15	6.79	5.35	6.65	8.70	8.20	8.12	8.01
26	8.63	8.02	7.87	7.57	7.23	6.59	5.36	7.71	8.80	8.37	8.18	7.94
27	8.75	7.86	7.73	7.48	7.32	6.39	e5.26	8.34	8.43	8.20	8.10	8.09
28	8.75	8.00	7.96	7.43	7.18	6.34	e5.27	8.59	7.74	7.74	7.96	7.87
29	8.79	8.06	7.93	7.44	---	6.40	5.25	8.70	7.70	8.10	7.69	9.20
30	8.87	7.85	7.98	7.30	---	8.24	5.28	8.64	7.60	8.01	7.83	9.27
31	8.61	---	8.08	7.48	---	8.11	---	8.54	---	7.98	7.61	---
TOTAL	259.69	238.68	246.50	235.01	204.15	198.35	181.55	203.29	241.94	241.94	251.13	239.91
MEAN	8.38	7.96	7.95	7.58	7.29	6.40	6.05	6.56	8.05	7.80	8.10	8.00
MAX	9.72	8.57	8.26	8.10	7.57	8.34	8.21	8.70	8.80	8.54	9.27	9.27
MIN	7.59	7.28	7.66	7.24	7.08	5.26	5.25	5.34	7.23	7.24	7.54	7.12

e Estimated

02281400 HILLSBORO CANAL NEAR MARGATE, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	91	126	68	94	147	41	53	34	55	224	46
2	143	75	88	81	103	159	62	48	35	53	608	42
3	427	77	84	90	86	164	57	42	29	56	886	48
4	1070	67	100	112	80	107	53	52	39	66	906	57
5	925	74	77	106	85	83	51	46	25	69	742	42
6	786	86	95	68	129	75	48	40	29	73	784	38
7	743	73	87	61	173	66	44	41	44	79	382	39
8	496	81	90	65	123	64	45	47	96	73	285	51
9	247	117	104	140	80	67	50	36	60	73	e213	135
10	214	94	155	125	97	64	59	35	64	62	187	127
11	253	77	182	70	70	63	52	42	101	71	235	257
12	188	72	112	68	76	53	44	42	63	93	178	250
13	222	117	87	67	71	73	44	37	82	85	240	467
14	173	116	74	86	125	62	53	39	59	84	111	624
15	120	141	66	67	138	73	53	43	72	103	120	365
16	131	169	72	81	134	69	62	50	73	50	130	259
17	130	134	82	89	146	55	60	55	71	118	153	163
18	103	117	74	80	152	51	56	48	58	105	125	243
19	85	109	132	98	141	65	46	42	50	225	68	134
20	86	61	134	72	151	187	49	43	64	149	114	109
21	96	61	61	58	168	59	42	36	55	198	201	106
22	103	91	88	52	128	72	53	42	50	214	196	75
23	73	86	93	52	126	68	38	54	40	261	239	53
24	93	79	81	60	130	67	44	68	49	488	77	67
25	106	298	73	68	133	67	56	53	121	369	69	194
26	105	291	63	81	123	76	52	59	49	376	62	93
27	62	97	143	74	112	71	e48	34	116	343	100	379
28	72	77	127	91	105	59	e48	31	189	223	176	541
29	67	88	123	83	---	54	48	57	70	112	55	573
30	81	84	172	89	---	e-7.0	36	43	62	171	110	992
31	107	---	121	89	---	38	---	25	---	67	51	---
TOTAL	7772	3200	3166	2491	3279	2371.0	1494	1383	1949	4564	8027	6569
MEAN	251	107	102	80.4	117	76.5	49.8	44.6	65.0	147	259	219
MAX	1070	298	182	140	173	187	62	68	189	488	906	992
MIN	62	61	61	52	70	-7.0	36	25	25	50	51	38
AC-FT	15420	6350	6280	4940	6500	4700	2960	2740	3870	9050	15920	13030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	195	212	216	250	217	194	185	137	184	205	226	222														
MAX	719	671	738	541	634	708	458	452	460	624	630	518														
(WY)	2000	2000	2000	1998	1998	1998	1983	2000	1982	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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR
ANNUAL TOTAL		77190		46265.0										
ANNUAL MEAN		211		127										
HIGHEST ANNUAL MEAN														
LOWEST ANNUAL MEAN														
HIGHEST DAILY MEAN														
LOWEST DAILY MEAN														
ANNUAL SEVEN-DAY MINIMUM														
ANNUAL RUNOFF (AC-FT)														
10 PERCENT EXCEEDS														
50 PERCENT EXCEEDS														
90 PERCENT EXCEEDS														

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°10'22", long 80°10'47", in NW ¼ 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. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1, 1993, both upstream and downstream gage heights at datum, 0.214 ft higher. Discharge not affected by the change in datum. Electromagnetic velocity meter and deflection vane recorder at same site prior to October 1, 1985.

REMARKS.--Records fair except for estimated daily discharges, which are poor. 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.

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 33 complete water years of discharge (1962-90, 1998-2001).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.38 ft Dec. 27, 1958; minimum, -0.53 ft June 28, 1958.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 5.41 ft Dec 10; minimum, 1.59 ft Sept. 15.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 4.07 ft Oct. 3; minimum, -0.96 ft Feb. 6.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.25	4.84	5.04	4.83	4.64	4.10	4.42	3.52	4.42	4.65	4.59	4.80
2	4.19	4.83	5.05	4.82	4.63	4.07	4.35	3.50	4.47	4.60	3.17	4.78
3	3.82	4.83	5.06	4.82	4.61	4.05	4.31	3.74	4.56	4.52	3.02	4.82
4	3.62	4.83	5.06	4.83	4.60	4.04	4.26	4.41	4.52	4.46	3.08	4.84
5	3.11	4.82	5.05	4.83	4.60	4.12	4.21	4.41	4.56	4.38	3.39	4.74
6	3.22	4.78	5.03	4.82	4.56	4.08	4.16	4.37	4.55	4.32	4.13	4.82
7	4.02	4.74	5.05	4.82	4.53	4.02	4.14	4.33	4.51	4.26	4.66	4.53
8	4.78	4.72	5.05	4.81	4.50	3.98	4.08	4.29	4.49	4.22	4.48	4.41
9	4.80	4.75	5.02	4.80	4.48	3.96	4.04	4.23	4.50	4.27	4.38	4.78
10	4.75	4.79	4.95	4.76	4.48	3.96	4.00	4.18	4.52	4.36	4.27	4.69
11	4.66	4.81	4.30	4.75	4.47	3.93	3.94	4.13	4.66	4.46	4.17	4.19
12	4.74	4.82	4.92	4.75	4.48	3.91	3.88	4.08	4.63	4.50	4.26	2.97
13	4.65	4.82	5.06	4.74	4.52	3.92	3.87	4.02	4.55	4.52	4.65	2.89
14	4.56	4.85	5.10	4.73	4.53	3.88	3.87	3.97	4.45	4.51	4.80	2.65
15	4.81	4.86	5.11	4.71	4.51	3.84	3.82	3.91	4.36	4.63	4.87	2.35
16	4.81	4.84	5.10	4.69	4.48	3.81	3.77	3.86	4.46	4.61	4.40	3.66
17	4.78	4.86	5.09	4.67	4.46	3.82	3.72	3.81	4.55	4.34	4.22	4.03
18	4.49	4.86	5.05	4.66	4.39	3.94	3.66	3.75	4.48	4.68	4.56	4.82
19	4.32	4.87	5.02	4.65	4.32	4.23	3.59	3.69	4.34	4.64	4.67	4.82
20	4.27	4.88	4.96	4.72	4.31	4.58	3.54	3.64	4.25	4.23	4.72	4.58
21	4.54	4.87	4.93	4.76	4.29	4.52	3.51	3.61	4.24	4.33	4.80	4.41
22	4.65	4.84	4.93	4.79	4.27	4.48	3.48	3.61	4.22	4.49	4.87	4.27
23	4.71	4.82	4.92	4.82	4.24	4.42	3.48	4.02	4.26	4.51	4.87	4.37
24	4.77	4.82	4.96	4.79	4.19	4.37	3.49	4.81	4.28	4.25	4.89	4.73
25	4.81	4.98	4.97	4.77	4.17	4.32	3.50	4.84	4.40	4.41	4.90	4.87
26	4.83	5.06	4.95	4.73	4.15	4.28	3.48	4.65	4.45	4.59	4.89	4.47
27	4.84	5.06	4.96	4.73	4.14	4.22	3.44	4.68	4.45	4.25	4.88	3.69
28	4.84	5.03	4.98	4.70	4.12	4.15	3.40	4.63	4.58	4.40	4.87	3.67
29	4.85	5.03	4.91	4.69	---	4.12	3.43	4.58	4.72	4.31	4.87	3.26
30	4.85	5.04	4.87	4.69	---	4.44	3.42	4.51	4.70	4.19	4.86	2.86
31	4.84	---	4.84	4.67	---	4.42	---	4.45	---	4.19	4.83	---
TOTAL	139.18	145.95	154.29	147.35	123.67	127.98	114.26	128.23	134.13	137.08	138.02	124.77
MEAN	4.49	4.86	4.98	4.75	4.42	4.13	3.81	4.14	4.47	4.42	4.45	4.16
MAX	4.85	5.06	5.11	4.83	4.64	4.58	4.42	4.84	4.72	4.68	4.90	4.87
MIN	3.11	4.72	4.30	4.65	4.12	3.81	3.40	3.50	4.22	4.19	3.02	2.35

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.03	1.61	1.00	.83	.44	.72	.55	1.08	e1.06	.89	1.15	1.12
2	2.05	1.55	.97	.81	.30	.74	.48	1.33	e1.14	.94	2.36	1.15
3	3.21	1.47	1.03	.83	.36	.70	.50	1.48	e.92	.88	2.33	1.19
4	3.53	1.54	1.12	.92	.41	.60	.57	1.50	e.79	.80	2.09	1.13
5	2.78	1.70	1.44	.98	.33	.49	.73	1.43	e.62	.87	1.67	1.12
6	2.32	1.76	1.75	.96	.38	.63	.76	1.38	e.48	.93	1.12	1.01
7	1.97	1.54	1.62	.96	.53	.77	.65	1.39	e.47	.95	.99	1.34
8	1.81	1.65	1.54	.95	.49	.96	.60	1.33	e.45	1.03	1.12	1.60
9	2.02	1.69	1.38	.73	.51	1.06	.68	e1.28	e.58	1.12	1.14	1.49
10	2.38	1.64	1.71	.69	.43	1.08	.82	e1.26	e.67	1.12	1.12	1.37
11	2.28	1.65	1.92	.74	.41	1.03	.96	e1.26	e.78	1.11	1.10	1.45
12	2.21	1.62	1.24	.80	.47	.88	.91	e1.21	e.76	1.06	1.05	2.12
13	2.24	1.52	1.20	1.00	.40	.65	.74	e1.21	e.70	.95	.97	2.73
14	2.11	1.40	1.05	.98	.29	.51	.77	e1.13	e.76	1.00	1.11	2.60
15	1.92	1.37	1.05	.96	.40	.61	.92	e1.18	e.68	1.14	1.20	2.29
16	1.90	1.39	1.16	.89	.46	.50	1.02	e1.14	e.69	1.12	1.45	1.89
17	1.96	1.35	.96	.84	.63	.41	1.05	e1.16	e.60	1.01	1.31	2.06
18	2.01	1.29	.91	.89	.65	.50	.88	e1.11	e.72	.91	1.10	1.90
19	1.99	1.31	.85	.79	.86	.93	.89	e1.16	e.73	1.12	1.09	1.91
20	1.94	1.21	.70	.51	.64	.95	.89	e1.34	.74	1.24	.98	1.90
21	1.80	1.22	.83	.29	.71	.85	.83	e1.46	.76	1.36	.99	1.88
22	1.87	1.26	.85	.39	.87	.84	.68	e1.33	.87	1.39	1.01	1.72
23	1.90	1.30	1.06	.43	.85	.97	.70	e1.49	.94	1.40	.93	1.59
24	1.98	1.30	1.12	.63	.87	.98	.57	e1.35	.93	1.41	.83	1.49
25	2.13	1.31	1.14	.68	.78	.85	.53	e1.12	.97	1.15	.76	1.37
26	2.18	1.15	1.12	.75	.73	.77	.53	e1.11	.97	1.45	.79	1.32
27	2.08	1.02	1.05	.81	.69	.69	.58	e1.00	.89	1.25	.85	1.60
28	1.93	.98	1.10	.71	.77	.74	.78	e1.01	.96	.99	.84	1.78
29	1.85	1.02	1.08	.77	---	.82	.84	e1.11	1.02	1.08	1.02	2.95
30	1.59	.97	.92	.64	---	.63	1.00	e1.03	.99	1.06	1.10	2.82
31	1.51	---	.80	.55	---	.48	---	e1.03	---	1.04	1.12	---
TOTAL	65.48	41.79	35.67	23.71	15.66	23.34	22.41	38.40	23.64	33.77	36.69	51.89
MEAN	2.11	1.39	1.15	.76	.56	.75	.75	1.24	.79	1.09	1.18	1.73
MAX	3.53	1.76	1.92	1.00	.87	1.08	1.05	1.50	1.14	1.45	2.36	2.95
MIN	1.51	.97	.70	.29	.29	.41	.48	1.00	.45	.80	.76	1.01

e Estimated

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

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

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorders upstream and downstream and gate-opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

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

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 31 complete water years of discharge (1963-86, 1988-89, 1993, 1998-2001).

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

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 4.56 ft Oct. 3; minimum, 1.64 ft Sept. 16.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 4.25 ft Oct. 3; minimum, -1.12 ft Feb. 6.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.13	3.37	3.29	3.38	3.30	2.89	3.89	2.64	3.65	3.98	3.63	3.25
2	3.16	3.33	3.28	3.36	3.32	2.89	3.83	2.63	3.72	3.86	3.14	3.24
3	3.84	3.29	3.27	3.35	3.32	2.87	3.76	2.80	3.84	3.79	2.54	3.31
4	3.07	3.26	3.25	3.31	3.32	2.83	3.70	3.91	3.77	3.75	2.56	3.32
5	2.74	3.23	3.23	3.30	3.32	2.94	3.61	3.95	3.75	3.67	2.52	3.29
6	3.32	3.19	3.21	3.28	3.29	2.93	3.54	3.93	3.71	3.60	3.06	3.29
7	3.78	3.15	3.24	3.30	3.27	2.89	3.51	3.88	3.65	3.53	3.98	3.26
8	3.81	3.11	3.22	3.32	3.24	2.79	3.45	3.83	3.59	3.48	3.84	3.32
9	3.86	3.10	3.23	3.33	3.22	2.72	3.40	3.76	3.53	3.51	3.69	3.72
10	3.90	3.09	3.61	3.32	3.21	2.72	3.36	3.71	3.53	3.57	3.70	3.62
11	3.93	3.07	3.93	3.31	3.19	2.69	3.31	3.64	3.73	3.62	3.70	3.71
12	3.95	3.04	3.97	3.32	3.17	2.67	3.27	3.58	3.69	3.68	3.73	3.02
13	3.87	3.02	3.94	3.32	3.15	2.68	3.23	3.52	3.62	3.66	3.72	2.71
14	3.92	3.02	3.89	3.31	3.13	2.67	3.20	3.45	3.55	3.68	3.74	2.59
15	3.97	3.04	3.83	3.30	3.11	2.65	3.17	3.39	3.47	3.70	3.75	2.72
16	3.97	3.03	3.76	3.29	3.10	2.64	3.13	3.33	3.55	3.65	3.78	3.11
17	3.95	3.04	3.72	3.28	3.11	2.66	3.10	3.26	3.69	3.73	3.77	3.62
18	3.92	3.04	3.65	3.27	3.09	2.99	3.06	3.19	3.64	3.71	3.74	3.67
19	3.87	3.04	3.59	3.26	3.03	3.42	3.02	3.11	3.57	3.68	3.70	3.75
20	3.83	3.05	3.52	3.24	3.00	3.87	2.98	3.07	3.50	3.78	3.66	3.76
21	3.79	3.06	3.47	3.15	2.99	3.92	2.93	3.01	3.48	3.70	3.63	3.74
22	3.74	3.04	3.43	3.08	2.98	3.93	2.87	2.96	3.49	3.67	3.60	3.69
23	3.69	3.03	3.40	3.15	2.98	3.96	2.84	3.28	3.50	3.63	3.58	3.62
24	3.66	3.01	3.42	3.23	2.95	3.92	2.81	3.89	3.55	3.63	3.57	3.58
25	3.63	3.19	3.40	3.28	2.93	3.87	2.78	3.92	3.66	3.69	3.56	3.53
26	3.60	3.32	3.33	3.31	2.91	3.82	2.74	3.94	3.70	3.47	3.54	3.29
27	3.56	3.34	3.34	3.32	2.91	3.75	2.72	3.92	3.71	3.67	3.52	2.64
28	3.53	3.34	3.39	3.32	2.88	3.67	2.67	3.87	3.85	3.70	3.48	2.61
29	3.49	3.33	3.42	3.31	---	3.63	2.62	3.83	3.93	3.73	3.40	3.06
30	3.45	3.32	3.42	3.32	---	3.80	2.58	3.77	3.96	3.75	3.30	2.73
31	3.41	---	3.40	3.32	---	3.88	---	3.71	---	3.78	3.25	---
MEAN	3.66	3.15	3.49	3.29	3.12	3.21	3.17	3.51	3.65	3.68	3.50	3.29
MAX	3.97	3.37	3.97	3.38	3.32	3.96	3.89	3.95	3.96	3.98	3.98	3.76
MIN	2.74	3.01	3.21	3.08	2.88	2.64	2.58	2.63	3.47	3.47	2.52	2.59

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.73	1.44	.84	.67	.28	.59	.47	.98	.84	.75	1.20	1.07
2	1.77	1.37	.82	.66	.15	.60	.40	1.24	.88	.84	2.14	1.11
3	2.85	1.31	.86	.70	.21	.56	.42	1.45	.68	.77	1.90	1.15
4	2.83	1.37	.97	.78	.28	.44	.49	1.33	.56	.69	1.69	1.10
5	1.97	1.51	1.28	.83	.21	.32	.65	1.28	.39	.77	1.51	1.01
6	1.74	1.57	1.57	.82	.26	.47	.67	1.22	.25	.81	1.11	.94
7	1.75	1.36	1.46	.83	.40	.61	.56	1.23	.24	.83	.85	1.18
8	1.68	1.47	1.40	.82	.37	.81	.52	1.16	.22	.90	.98	1.82
9	1.84	1.53	1.25	.58	.39	.91	.60	1.09	.35	.99	.97	1.41
10	2.19	1.49	1.37	.55	.31	.93	.73	1.05	.45	.97	.95	1.28
11	2.07	1.49	1.28	.60	.27	.88	.86	1.04	.56	1.00	.93	1.13
12	2.03	1.47	1.09	.66	.32	.73	.81	.99	.53	.95	.94	1.70
13	2.00	1.37	1.05	.84	.26	.48	.64	.99	.47	.84	.97	2.41
14	1.87	1.25	.91	.81	.15	.38	.67	.92	.52	.88	1.09	2.23
15	1.79	1.22	.90	.78	.27	.48	.82	.96	.46	1.03	1.15	1.78
16	1.71	1.23	1.00	.72	.33	.39	.92	.92	.46	.97	1.24	1.66
17	1.74	1.18	.80	.67	.50	.31	.95	.94	.41	.83	1.13	1.86
18	1.70	1.12	.75	.73	.53	.41	.80	.89	.52	.91	1.08	1.87
19	1.69	1.13	.68	.62	.73	1.19	.80	.95	.54	1.03	1.08	1.80
20	1.67	1.04	.55	.35	.52	.92	.80	1.14	.58	1.00	.97	e1.72
21	1.64	1.06	.69	.14	.60	.80	.75	1.24	.61	1.18	.96	e1.70
22	1.72	1.11	.71	.24	.75	.78	.59	1.12	.71	1.19	.95	e1.55
23	1.76	1.15	.93	.28	.73	.89	.61	1.26	.77	1.17	.88	e1.50
24	1.83	1.15	.99	.49	.75	.91	.48	1.15	.77	1.07	.78	e1.46
25	1.99	1.14	.99	.55	.66	.77	.44	.96	.81	.93	.71	e1.35
26	2.03	1.00	.98	.61	.61	.69	.44	.83	.80	1.16	.74	e1.24
27	1.94	.87	.90	.67	.57	.62	.49	.78	.72	.84	.81	e1.36
28	1.77	.83	.96	.57	.63	.67	.69	.78	.83	.77	.81	e1.66
29	1.69	.87	.93	.61	---	.72	.74	.88	.89	.86	1.00	e2.85
30	1.43	.82	.77	.47	---	.57	.90	.80	.86	.81	1.09	e2.41
31	1.36	---	.64	.38	---	.38	---	.80	---	.87	1.09	---
TOTAL	57.78	36.92	30.32	19.03	12.04	20.21	19.71	32.37	17.68	28.61	33.70	47.31
MEAN	1.86	1.23	.98	.61	.43	.65	.66	1.04	.59	.92	1.09	1.58
MAX	2.85	1.57	1.57	.84	.75	1.19	.95	1.45	.89	1.19	2.14	2.85
MIN	1.36	.82	.55	.14	.15	.31	.40	.78	.22	.69	.71	.94

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283498 NORTH NEW RIVER CANAL AT S-2 AND S-351, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°42'00", long 80°42'55", in SW ¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, at pump station 2 and gate structure S-351, 500 ft upstream from Hillsboro Canal, and 2.7 mi north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1957 to September 1967 (gage heights only), October 1967 to current year.

REVISED RECORDS.--WDR FL-77-2A:1974; WDR FL-93-2A:1989, 1992.

GAGE.--Satellite data collection platform with water-stage shaft encoders for lake and canal stages in pump station 2; potentiometer-gage recorders on hydraulic ram of each gate, and pump tachometer. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to January 18, 1965, water-stage recorder at site 1,600 ft downstream at same datum. Electromagnetic velocity meter and digital recorder in lock chamber installed in 1981 water year were removed October 1986. Prior to September 8, 1988, digital lake water-stage recorder in control house of lock. Prior to February 21, 1992, digital lake and canal water-stage recorders, and A-35 graphic recorder.

REMARKS.--Records are fair except for estimated daily discharges, which are poor. Flow regulated by gates and pump station at Lake Okeechobee. Discharge is summation of S-351 flow, S-2 pumpage and siphoning. 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 No. 2 (negative figures indicate flow reversed) and by gravity flow through gates during periods of negative head. Discharge computed from relations between head, gate openings, pump tachometer, submergence, and discharge coefficient. Lake stage published under 02283498. Formerly published as North New River Canal at S-2 and HGS-4, near South Bay. Records of gage heights prior to October 1967 are available in files of the U.S. Geological Survey. Extreme stages for period of record for lake gage height are not listed because of the unavailability of historical files.

COOPERATION.--Lake and canal stages, S-2 pump record and S-351 gate-operation record provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 34 water years of discharge (1968-2001).

EXTREME CANAL STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.09 ft Sept. 28, 1962; minimum, 6.98 ft Oct. 28, 1981.

EXTREME LAKE STAGES FOR CURRENT YEAR.-- Maximum gage height, 14.73 ft Sept. 30; minimum, 8.72 ft (estimated) May 31.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 13.29 ft Sept. 29; minimum, 7.64 ft (estimated) May 3.

LAKE
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.32	12.21	11.72	11.29	10.88	10.56	10.54	e9.80	e9.05	e9.34	10.55	11.92
2	12.17	12.18	11.62	11.38	11.01	10.46	10.57	e9.67	e9.05	9.43	10.70	11.96
3	11.94	12.24	11.89	11.37	11.23	10.30	10.18	e9.74	e9.10	9.45	10.78	11.97
4	12.00	12.18	12.04	11.42	11.02	10.30	10.24	e9.89	e9.13	9.43	10.89	11.97
5	12.32	12.07	11.92	11.14	11.08	10.99	10.32	e9.90	e9.13	9.48	10.95	11.98
6	12.35	11.99	11.67	11.02	10.96	10.96	10.21	e9.91	e9.19	9.46	11.12	11.99
7	12.46	11.93	11.59	11.08	10.88	10.77	10.17	e9.77	e9.19	9.45	11.33	12.00
8	12.60	11.91	11.50	10.97	10.86	10.44	10.15	e9.81	e9.22	9.48	11.34	12.08
9	13.50	11.88	11.45	11.39	10.79	10.26	e10.10	e9.59	e9.26	9.53	11.31	12.17
10	12.68	11.95	11.45	11.45	10.83	10.28	e10.05	e9.48	e9.28	9.50	11.34	12.28
11	12.61	12.15	11.39	11.05	10.86	10.30	e10.00	e9.43	e9.14	9.38	11.41	12.41
12	12.62	12.03	11.43	11.00	10.76	10.11	e9.94	e9.39	e9.13	9.40	11.46	12.54
13	12.53	11.84	11.39	11.25	10.77	10.11	e10.10	e9.32	e9.07	9.52	11.53	12.76
14	12.48	11.80	11.42	11.10	10.70	10.19	e10.06	e9.20	e9.16	9.59	11.51	12.59
15	12.57	12.17	11.41	11.02	10.69	10.10	10.06	e9.16	e9.15	9.69	11.62	13.04
16	12.49	11.82	11.31	11.02	10.59	10.05	e10.10	e9.01	e9.14	9.68	11.62	13.27
17	12.37	11.74	11.51	10.99	10.73	10.23	e10.13	e9.05	e9.08	9.79	11.58	13.34
18	12.38	11.86	11.54	10.95	11.12	10.41	10.61	e9.03	e9.11	9.88	11.62	13.37
19	12.35	11.66	11.57	10.75	10.67	10.23	e10.10	e8.99	e9.24	9.97	11.62	13.43
20	12.33	12.12	11.61	11.14	10.61	10.32	e9.83	e8.98	e9.21	10.15	11.74	13.52
21	12.33	12.60	11.45	11.48	10.64	10.41	e9.90	e8.93	e9.12	10.03	11.80	13.59
22	12.38	12.20	11.43	11.53	10.64	10.53	e9.97	e8.88	e9.09	9.92	11.90	13.66
23	12.48	11.77	11.57	11.41	10.69	10.35	e9.80	e8.83	e9.06	9.80	11.96	13.73
24	12.46	11.57	11.60	11.09	10.50	10.27	e9.69	e9.14	e9.12	9.95	11.95	13.72
25	12.41	11.58	11.64	11.12	10.44	10.24	e9.61	e8.97	e9.17	10.09	11.95	13.77
26	12.38	11.67	11.29	11.12	10.54	10.29	e9.95	e9.04	e9.35	10.16	12.07	13.88
27	12.41	11.83	11.20	10.97	10.50	10.47	e9.76	e9.04	e9.55	10.08	12.04	13.94
28	12.29	11.78	11.12	10.97	10.51	e10.25	e9.54	e9.10	e9.50	10.22	11.97	13.93
29	12.20	11.71	11.45	10.84	---	e10.17	e9.60	e9.07	e9.38	10.28	11.93	14.23
30	12.22	11.86	11.70	10.80	---	10.26	e9.62	e9.05	e9.33	10.31	11.91	14.41
31	12.22	---	11.56	10.84	---	10.29	---	e9.02	---	10.40	11.89	---
TOTAL	384.85	358.30	357.44	344.95	301.50	320.90	300.90	288.19	275.70	302.84	357.39	389.45
MEAN	12.41	11.94	11.53	11.13	10.77	10.35	10.03	9.30	9.19	9.77	11.53	12.98
MAX	13.50	12.60	12.04	11.53	11.23	10.99	10.61	9.91	9.55	10.40	12.07	14.41
MIN	11.94	11.57	11.12	10.75	10.44	10.05	9.54	8.83	9.05	9.34	10.55	11.92

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283498 NORTH NEW RIVER CANAL AT S-2 AND S-351, NEAR SOUTH BAY, FL

CANAL
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.05	11.38	10.73	10.62	10.41	8.94	10.14	8.72	10.76	10.52	10.55	10.83
2	10.73	11.33	10.71	10.68	10.43	9.21	10.61	8.03	10.64	10.19	10.65	10.89
3	9.78	11.23	10.57	10.60	10.41	8.81	10.79	7.95	10.46	10.00	10.46	11.02
4	11.64	11.24	10.58	10.48	10.27	8.68	10.51	8.22	10.37	10.07	10.52	11.07
5	11.50	11.32	10.44	10.44	10.36	9.19	10.35	9.34	10.28	10.18	10.56	11.49
6	11.24	11.38	10.52	10.53	10.30	8.77	9.97	9.88	10.35	10.46	10.52	10.73
7	11.46	11.22	10.34	10.67	10.28	8.93	9.70	9.16	10.57	10.41	10.26	10.38
8	11.71	11.12	10.53	10.72	10.02	8.47	9.58	9.10	10.77	10.19	10.33	10.68
9	12.04	11.01	10.30	10.60	10.24	9.60	9.23	9.09	10.56	10.08	10.67	10.85
10	11.58	10.93	10.22	10.45	10.09	9.99	9.90	9.05	10.35	10.73	10.77	10.79
11	10.73	11.05	10.57	10.45	9.90	10.09	10.02	8.97	10.92	11.03	10.35	10.08
12	10.54	11.01	10.49	10.47	10.25	9.87	10.34	8.92	10.58	11.18	10.84	10.25
13	11.23	10.90	10.71	10.27	10.02	9.92	10.30	8.50	10.55	11.23	10.64	9.98
14	10.89	10.88	10.54	10.20	10.09	9.75	10.36	9.00	10.74	10.58	10.50	9.93
15	10.58	10.94	10.64	10.20	9.79	9.87	10.01	9.15	10.81	10.66	9.87	9.63
16	10.86	10.87	10.46	10.00	9.97	9.72	9.37	8.79	10.61	10.91	10.59	10.09
17	10.89	10.96	10.25	10.11	9.67	9.90	9.72	8.60	10.44	10.81	10.52	11.34
18	11.01	11.03	10.64	10.00	9.57	9.34	9.29	8.87	10.25	10.73	10.34	11.45
19	11.27	11.06	10.55	10.15	10.02	9.63	9.38	9.49	10.21	10.91	10.14	11.30
20	11.35	11.12	10.75	10.03	9.84	11.18	9.21	9.95	10.37	10.65	10.11	10.93
21	11.41	11.12	10.87	10.06	9.83	11.23	8.75	9.62	10.25	10.45	10.59	10.73
22	11.38	10.92	10.58	10.43	9.50	11.57	9.53	9.20	10.32	10.78	10.72	10.87
23	11.34	11.08	10.25	10.87	9.57	11.44	9.39	9.02	10.59	11.36	10.66	10.99
24	11.38	11.09	9.96	10.83	9.28	11.32	9.56	9.43	10.91	11.56	10.47	11.10
25	11.44	11.21	10.38	10.74	9.16	11.13	9.09	9.13	10.78	10.46	10.73	11.08
26	11.24	10.90	10.28	10.67	9.29	10.79	9.24	9.07	10.81	10.80	10.79	11.03
27	11.12	10.86	10.53	10.59	9.06	10.57	9.02	9.14	10.38	10.17	10.76	11.16
28	11.21	10.86	10.67	10.56	9.27	10.58	8.66	9.30	10.77	10.58	10.62	10.40
29	11.22	10.64	10.63	10.44	---	10.70	9.75	9.03	10.40	10.55	10.56	11.45
30	11.24	10.59	10.63	10.49	---	11.31	9.56	9.65	10.67	10.29	10.76	10.55
31	11.52	---	10.69	10.45	---	10.47	---	10.03	---	10.21	10.85	---
TOTAL	346.58	331.25	326.01	323.80	276.89	310.97	291.33	281.40	316.47	328.73	326.70	323.07
MEAN	11.18	11.04	10.52	10.45	9.89	10.03	9.71	9.08	10.55	10.60	10.54	10.77
MAX	12.04	11.38	10.87	10.87	10.43	11.57	10.79	10.03	10.92	11.56	10.85	11.49
MIN	9.78	10.59	9.96	10.00	9.06	8.47	8.66	7.95	10.21	10.00	9.87	9.63

02283500 NORTH NEW RIVER CANAL BELOW S-351, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°41'50", long 80°42'50", in SW ¼ 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 RECORD.--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 velocity meter. 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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 41 complete water years of discharge (1958-95,1997-98, 2000).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.09 ft Sept. 28, 1962; minimum, 6.98 ft observed Oct. 28, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 13.27 ft Sept. 29; minimum, 7.64 ft May 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.07	11.40	10.75	10.64	10.42	8.94	10.15	8.72	10.78	10.53	10.59	10.85
2	10.75	11.34	10.73	10.69	10.44	9.21	10.63	8.03	10.66	10.21	10.69	10.91
3	9.80	11.25	10.58	e10.58	10.42	8.81	10.81	7.95	10.48	10.02	10.50	11.04
4	11.66	11.26	10.60	e10.43	10.28	8.68	10.54	8.22	10.39	10.09	10.54	11.08
5	11.57	11.34	10.46	e10.46	10.37	9.19	10.37	9.34	10.29	10.20	10.59	11.50
6	11.29	11.40	10.55	e10.58	10.30	8.77	9.99	9.88	10.37	10.48	10.55	10.76
7	11.51	11.24	10.35	10.68	10.28	8.93	9.72	9.16	10.59	10.43	10.27	10.40
8	11.74	11.13	10.56	10.73	10.02	8.47	9.59	9.10	10.79	10.20	10.35	10.69
9	12.06	11.03	10.32	10.61	10.26	9.60	9.26	9.09	10.58	10.09	10.68	10.87
10	11.60	10.95	10.24	10.47	10.09	10.02	9.93	9.05	10.38	10.74	10.79	10.80
11	10.76	11.07	10.60	e10.47	9.90	10.13	10.04	8.97	10.93	11.05	10.37	10.11
12	10.57	11.03	10.51	e10.49	10.26	9.91	10.37	8.92	10.61	11.18	10.85	10.26
13	11.24	10.92	10.72	10.30	10.03	9.95	10.32	8.50	10.57	11.23	10.66	10.03
14	10.90	10.90	10.54	e10.25	10.12	9.78	10.38	9.00	10.76	10.59	10.51	9.98
15	10.60	10.97	10.67	e10.25	9.80	9.91	10.03	9.15	10.82	10.67	9.88	9.63
16	10.88	10.89	10.45	e10.03	9.99	9.75	9.39	8.79	10.62	10.92	10.60	10.09
17	10.90	10.98	10.26	e10.09	9.67	9.92	9.74	8.60	10.46	10.82	10.53	11.35
18	11.02	11.05	10.70	10.03	9.57	9.36	9.31	8.87	10.26	10.73	10.35	11.45
19	11.29	11.08	10.58	10.19	10.05	9.65	9.38	9.49	10.22	10.91	10.14	11.31
20	11.36	11.14	10.79	10.06	9.85	11.20	9.21	9.95	10.38	10.65	10.13	10.94
21	11.42	11.14	e10.83	10.09	9.85	11.24	8.75	9.62	10.26	10.47	10.60	10.74
22	11.39	10.93	e10.59	10.45	9.50	11.58	9.53	9.20	10.34	10.79	10.74	10.88
23	11.35	11.09	10.26	10.89	9.58	11.46	9.39	9.02	10.60	11.37	10.68	11.01
24	11.39	11.10	9.98	10.86	9.28	11.33	9.56	9.43	10.92	11.58	10.48	11.11
25	11.46	11.23	10.40	10.76	9.16	11.15	9.09	9.13	10.79	10.48	10.74	11.09
26	11.26	10.92	10.29	10.68	9.30	10.80	9.24	9.07	10.85	10.81	10.81	11.04
27	11.13	10.88	10.56	10.58	9.07	10.58	9.02	9.14	10.40	10.19	10.77	11.16
28	11.23	10.88	10.69	10.56	9.28	10.60	8.66	9.30	10.78	10.58	10.63	10.40
29	11.24	10.66	10.65	10.44	---	10.72	9.75	9.03	10.41	10.58	10.57	11.46
30	11.26	10.61	10.64	10.50	---	e11.36	9.56	9.66	10.68	10.32	10.78	10.59
31	11.54	---	10.71	10.46	---	10.51	---	10.05	---	10.25	10.87	---
TOTAL	347.24	331.81	326.56	324.30	277.14	311.51	291.71	281.43	316.97	329.16	327.24	323.53
MEAN	11.20	11.06	10.53	10.46	9.90	10.05	9.72	9.08	10.57	10.62	10.56	10.78
MAX	12.06	11.40	10.83	10.89	10.44	11.58	10.81	10.05	10.93	11.58	10.87	11.50
MIN	9.80	10.61	9.98	10.03	9.07	8.47	8.66	7.95	10.22	10.02	9.88	9.63

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283500 NORTH NEW RIVER CANAL BELOW S-351, NEAR SOUTH BAY, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-5.2	-77	294	-128	52	-17	-199	44	-454	29	-1200	-356
2	-64	-177	-46	-201	258	243	-140	28	-932	-11	-1510	-425
3	15	-193	-3.1	---	-13	-41	-73	143	-928	-164	-1420	-243
4	-1230	-161	278	---	-37	-18	17	262	-458	-199	-1070	-393
5	-2440	-184	8.0	e13	309	165	41	319	-310	78	-1000	-414
6	-2050	-202	314	---	-16	-59	77	142	-321	239	-660	-1020
7	-1460	-326	-23	-201	283	194	10	329	-336	80	-677	-805
8	-667	-272	385	-100	48	-88	39	348	-850	-26	-856	-1030
9	-215	-322	30	-88	377	554	254	266	-966	-207	-564	-1400
10	-230	-309	33	145	6.0	257	259	334	-973	-407	-1000	-1590
11	-180	-260	319	e-20	40	166	277	304	-353	-871	-1120	-1860
12	-220	-214	-89	e136	383	199	279	-59	-655	-921	-705	-1560
13	-132	-129	-18	46	-60	139	320	136	-86	-962	-924	-1770
14	-270	-156	-76	---	364	410	152	330	-113	-1050	-1160	-1730
15	-276	-97	42	---	-39	147	-74	329	-318	-1240	-1230	-1350
16	-328	-120	-18	e8.4	251	264	236	341	-174	-1370	-797	-957
17	-254	-75	-.04	---	-50	194	209	409	-91	-1470	-853	-329
18	-243	-171	84	7.3	26	-66	219	405	-219	-1530	-885	-289
19	-270	-133	-162	133	406	-18	240	329	-284	-1510	-881	-347
20	-157	39	225	18	-66	-172	186	287	-282	-1210	-659	-355
21	-97	-112	---	23	302	-300	136	328	-203	-877	-435	-260
22	-80	-35	---	94	8.8	-291	243	223	-267	-989	-922	-265
23	-51	-265	-87	-41	222	-21	283	259	-192	-1230	-661	-237
24	-90	-224	-78	36	-20	-45	318	194	-155	-1200	-541	-63
25	-48	-249	58	-2.6	-23	-111	267	-76	-258	-1190	-496	-79
26	-118	-201	-138	164	204	-161	347	-92	-504	-931	-457	-47
27	-133	-146	113	-61	-21	-153	166	-109	-301	-1260	-342	412
28	-156	-254	-277	59	251	-26	188	-213	-513	-1020	-281	170
29	-188	27	96	246	---	-72	293	111	-298	-1210	-331	-480
30	-165	-19	-158	-27	---	e-711	225	97	44	-1500	-299	-1640
31	-132	---	-112	279	---	-970	---	-156	---	-1240	-274	---
TOTAL	-11934.2	-5017	993.86	538.1	3445.8	-408	4795	5592	-11750	-25369	-24210	-20712
MEAN	-385	-167	34.3	21.5	123	-13.2	160	180	-392	-818	-781	-690
MAX	15	39	385	279	406	554	347	409	44	239	-274	412
MIN	-2440	-326	-277	-201	-66	-970	-199	-213	-973	-1530	-1510	-1860
AC-FT	-23670	-9950	1970	1070	6830	-809	9510	11090	-23310	-50320	-48020	-41080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

	MEAN	109	172	139	215	291	493	351	-17.7	-110	-96.9	-248
MAX	609	776	685	751	1141	1525	1405	1393	1073	819	401	900
(WY)	1995	1974	1996	1996	1993	1985	1993	1992	1979	1992	1974	1992
MIN	-779	-431	-309	-1487	-283	-782	-265	-668	-987	-939	-1086	-1902
(WY)	1961	1999	1995	1958	1958	1970	1958	1972	1982	1959	1981	1960

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1957 - 2001
ANNUAL MEAN			110
HIGHEST ANNUAL MEAN			501
LOWEST ANNUAL MEAN			-232
HIGHEST DAILY MEAN	1300	May 13	2920
LOWEST DAILY MEAN	-2440	Oct 5	-3460
ANNUAL SEVEN-DAY MINIMUM	-1180	Oct 4	-2720
ANNUAL RUNOFF (AC-FT)			79850
10 PERCENT EXCEEDS	740	277	697
50 PERCENT EXCEEDS	37	-92	112
90 PERCENT EXCEEDS	-262	-1020	-430

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.

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 and a tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 15 ft above National Geodetic Vertical datum of 1929. Station is one of several located in Conservation Area No. 1. Rainfall is not published, but is available in files of the U.S. Geological Survey. Gage is capable of recording water levels below land-surface datum.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.22 ft Nov. 17, 18, 1994; minimum, 14.85 ft May 22, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.57 ft Oct. 11; minimum, 14.85 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.57	17.16	16.63	16.34	16.18	15.87	15.85	15.18	15.81	15.85	16.49	16.55
2	16.59	17.14	16.62	16.33	16.17	15.86	15.83	15.17	15.88	15.82	16.63	16.54
3	16.74	e17.11	16.61	16.32	16.16	15.85	15.81	15.18	15.89	15.80	16.75	16.51
4	17.11	17.08	16.59	16.31	16.15	15.84	15.79	15.48	15.88	15.79	16.80	16.50
5	17.25	17.06	16.58	16.30	16.14	15.83	15.77	15.50	15.86	15.80	16.85	16.52
6	17.35	17.03	16.57	16.30	16.13	15.81	15.76	15.48	15.86	15.78	16.91	16.52
7	17.43	17.01	16.56	16.29	16.12	15.79	15.74	15.45	15.89	15.77	16.92	16.52
8	17.52	16.98	16.55	16.29	16.11	15.77	15.72	15.43	15.91	15.75	16.90	16.55
9	17.55	16.96	16.54	16.28	16.10	15.76	15.70	15.40	15.88	15.76	16.88	16.61
10	17.56	16.94	16.54	16.26	16.09	15.75	15.68	15.37	15.86	15.82	16.85	16.59
11	17.57	16.92	16.55	16.26	16.08	15.74	15.66	15.33	15.83	15.87	16.84	16.61
12	17.56	16.90	16.53	16.26	16.07	15.73	15.64	15.29	15.84	15.88	16.85	e16.64
13	17.53	16.88	16.53	16.25	16.06	15.71	15.62	15.25	15.87	15.91	16.80	16.72
14	17.51	16.87	e16.51	16.24	16.05	15.70	15.60	15.20	15.84	15.91	16.77	e16.85
15	17.49	16.85	16.51	16.24	16.04	15.69	15.58	15.16	15.81	15.94	16.73	16.91
16	17.48	16.83	16.49	16.23	16.03	15.67	15.56	15.11	15.79	15.94	16.70	16.92
17	17.47	16.82	16.49	16.23	16.02	15.66	15.53	15.06	15.77	15.99	16.67	16.92
18	17.44	16.80	16.47	16.22	16.00	15.65	15.50	15.02	15.74	16.11	16.65	16.91
19	17.41	16.79	16.46	16.21	15.99	15.73	15.47	14.96	15.72	16.12	16.62	16.90
20	17.39	16.77	16.45	16.22	15.98	15.87	15.45	14.92	15.70	16.12	16.65	16.89
21	17.37	16.74	16.43	16.22	15.97	15.86	15.42	14.88	15.68	16.22	16.68	16.88
22	17.35	16.72	16.43	16.23	15.96	15.85	15.40	14.93	15.71	16.21	16.68	16.87
23	17.34	16.70	16.42	16.25	15.95	15.83	15.37	15.16	15.75	16.35	16.69	16.86
24	17.34	16.69	16.41	16.25	15.94	15.83	15.34	15.33	15.74	e16.53	16.68	16.85
25	17.32	16.70	16.40	16.23	15.92	15.81	15.31	15.32	15.74	16.52	16.66	16.85
26	17.31	16.70	16.39	16.22	15.91	15.80	e15.28	15.52	15.73	16.54	16.64	16.84
27	17.28	16.68	16.38	16.22	15.90	15.78	15.24	15.54	15.77	16.54	16.62	16.87
28	17.26	16.66	16.38	16.21	15.89	15.77	15.20	15.61	15.89	16.54	16.62	16.91
29	17.24	16.66	16.37	16.21	---	15.76	15.17	15.80	15.89	16.52	16.60	17.19
30	17.21	16.64	16.36	16.20	---	15.85	15.16	15.80	15.87	16.51	16.59	17.23
31	17.19	---	16.34	16.19	---	15.84	---	15.79	---	16.48	16.57	---
TOTAL	536.73	505.79	511.09	503.81	449.11	489.26	466.15	474.62	474.40	498.69	518.29	503.03
MEAN	17.31	16.86	16.49	16.25	16.04	15.78	15.54	15.31	15.81	16.09	16.72	16.77
MAX	17.57	17.16	16.63	16.34	16.18	15.87	15.85	15.80	15.91	16.54	16.92	17.23
MIN	16.57	16.64	16.34	16.19	15.89	15.65	15.16	14.88	15.68	15.75	16.49	16.50

e Estimated

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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 15 ft above National Geodetic Vertical datum of 1929. Station is one of several located in Conservation Area No. 1. Rainfall record is not published, but available in files of the U.S. Geological Survey. Gage is capable of recording water levels below land-surface datum.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.11 ft Nov. 17, 1994; minimum, 13.91 ft May 21, 22, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.53 ft Oct. 7; minimum, 13.91 ft May 21, 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.72	17.08	16.53	16.14	15.80	15.00	15.23	14.24	14.95	15.03	16.36	16.48
2	16.73	17.05	16.51	16.13	15.79	14.97	15.24	14.21	15.07	15.00	16.54	16.45
3	16.89	17.01	16.50	16.12	15.78	14.94	15.21	14.28	15.32	14.97	16.74	16.43
4	17.19	16.98	16.49	16.11	15.78	14.90	15.18	14.84	15.32	14.94	16.80	16.44
5	17.24	16.94	16.47	16.09	15.76	14.89	15.15	14.77	15.27	14.93	16.79	16.43
6	17.28	16.91	16.46	16.08	15.73	14.84	15.12	14.72	15.32	14.91	16.82	16.43
7	17.38	16.89	16.45	16.06	15.71	14.79	15.09	14.63	15.27	14.91	16.80	16.43
8	17.44	16.88	16.44	16.05	15.68	14.75	15.06	14.56	15.21	14.97	16.76	16.46
9	17.42	16.87	16.42	16.04	15.65	14.72	15.03	14.49	15.17	15.11	16.73	16.50
10	17.41	16.85	16.41	16.02	15.63	14.70	15.00	14.43	15.13	15.25	16.70	16.50
11	17.41	e16.85	16.46	16.00	15.60	14.67	14.97	14.37	15.09	15.29	16.69	16.56
12	17.41	e16.83	16.43	15.98	15.57	14.64	14.94	14.31	15.07	15.33	16.70	16.66
13	17.42	e16.80	16.41	15.98	15.56	14.62	14.91	14.26	15.05	15.39	16.68	16.82
14	17.45	e16.78	e16.40	15.97	15.53	14.59	14.88	14.21	15.02	15.44	16.66	16.99
15	17.47	16.76	16.39	15.96	15.49	14.58	14.85	14.16	15.00	15.49	16.63	16.97
16	17.47	16.73	16.37	15.94	15.45	14.56	14.82	14.11	14.96	15.53	16.61	16.92
17	17.45	16.72	16.37	15.93	15.41	14.53	14.78	14.07	14.98	15.59	16.59	16.88
18	17.43	16.70	16.36	15.92	15.37	14.52	14.73	14.03	15.01	15.71	16.57	16.86
19	17.40	16.68	16.34	15.91	15.32	15.04	14.68	14.00	14.96	15.81	16.55	16.85
20	17.37	16.66	16.32	15.93	15.27	15.68	14.64	13.97	14.92	15.86	16.54	16.85
21	17.35	16.65	16.30	15.91	15.24	15.69	14.59	13.94	14.89	15.95	16.55	16.85
22	17.32	16.62	16.29	15.92	15.21	15.65	14.55	14.16	14.90	16.05	16.60	16.83
23	17.29	16.59	16.27	15.94	15.18	15.60	14.50	14.80	14.94	16.23	16.63	16.82
24	17.28	16.55	16.26	15.94	15.16	15.54	14.45	14.99	14.96	16.44	16.62	16.81
25	17.27	16.64	16.25	15.92	15.13	15.48	14.42	14.97	14.95	16.46	16.60	16.82
26	17.26	16.63	16.23	15.90	15.10	15.42	14.46	15.03	14.91	16.53	16.58	16.83
27	17.24	16.61	16.21	15.88	15.07	15.35	14.38	14.99	14.92	16.49	16.58	16.87
28	17.21	16.59	16.20	15.87	15.04	15.28	14.33	14.99	e15.09	16.45	16.58	16.89
29	17.17	16.57	16.21	15.85	---	15.21	14.30	15.02	15.09	16.41	16.55	17.12
30	17.15	16.55	16.18	15.83	---	15.23	14.27	14.99	15.06	16.37	16.53	17.17
31	17.12	---	16.16	15.82	---	15.22	---	14.97	---	16.35	16.50	---
TOTAL	535.64	502.97	507.09	495.14	433.01	465.60	443.76	449.51	451.80	485.19	515.58	501.92
MEAN	17.28	16.77	16.36	15.97	15.46	15.02	14.79	14.50	15.06	15.65	16.63	16.73
MAX	17.47	17.08	16.53	16.14	15.80	15.69	15.24	15.03	15.32	16.53	16.82	17.17
MIN	16.72	16.55	16.16	15.82	15.04	14.52	14.27	13.94	14.89	14.91	16.36	16.43

e Estimated

26300080120001 SITE 8C NEAR L-40 IN CONSERVATION AREA 1 NEAR BOYNTON BEACH, FL

LOCATION.--Lat 26°29'57", long 80°13'20"(corrected), 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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of several located in Conservation Area No. 1. Rainfall data is not published, but available in files of the U.S. Geological Survey.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.21 ft Oct. 16, 1999; minimum, 12.02 ft May 22, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.64 ft Oct. 7, 15, 16; minimum, 12.02 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.90	17.25	16.70	16.30	15.91	14.12	15.33	13.92	14.54	15.15	16.51	16.62
2	16.91	17.21	16.67	16.28	15.89	13.97	15.33	13.89	14.69	15.12	16.70	16.60
3	17.07	17.17	16.66	16.27	15.88	13.85	15.31	13.85	14.73	15.13	16.91	16.58
4	17.36	17.14	16.65	16.27	15.88	13.77	15.30	13.98	14.70	15.13	16.95	e16.58
5	e17.40	17.11	16.64	16.23	15.85	13.88	15.27	13.89	14.61	15.16	16.95	16.58
6	17.44	17.07	16.63	16.22	15.80	13.80	15.23	13.85	14.58	15.18	16.96	e16.57
7	17.53	17.05	16.61	16.21	15.74	13.73	15.21	13.83	14.63	15.23	16.94	e16.58
8	e17.59	17.04	16.60	16.20	15.69	13.64	15.19	13.77	14.72	15.26	16.91	e16.60
9	17.58	17.03	16.58	16.18	15.66	13.56	e15.17	13.73	14.78	15.36	16.88	e16.65
10	17.56	17.02	16.57	16.15	15.63	13.59	e15.14	13.60	14.81	15.46	16.85	e16.66
11	17.56	17.01	16.60	16.14	15.60	13.81	15.10	13.30	14.81	15.51	16.83	e16.73
12	17.56	16.99	16.59	16.14	15.56	13.93	15.05	12.96	14.85	15.55	16.84	16.83
13	17.57	16.96	16.57	16.13	15.52	14.01	15.04	12.62	---	15.63	16.82	17.00
14	17.61	16.94	e16.56	16.12	15.48	14.01	15.03	e12.31	---	15.68	16.80	17.17
15	17.63	16.93	16.55	16.09	15.38	14.03	15.02	12.23	14.84	15.75	16.78	17.15
16	17.63	16.90	16.53	16.09	15.29	14.09	14.96	12.33	14.83	15.78	16.76	17.09
17	17.61	16.88	16.53	16.07	15.26	14.10	e14.87	e12.34	14.82	15.82	16.74	17.04
18	17.59	16.86	16.52	16.07	15.15	14.18	14.76	e12.24	14.79	15.93	16.72	17.03
19	17.56	16.84	16.51	16.03	15.06	14.41	14.66	e12.24	14.75	16.02	16.70	17.02
20	17.53	16.83	16.48	16.06	e14.99	15.02	14.55	e12.35	14.73	16.09	16.70	17.02
21	17.51	16.81	16.48	16.05	e14.86	15.17	14.45	12.26	14.72	16.16	16.71	17.01
22	17.47	16.78	16.47	16.07	14.84	15.21	14.35	---	14.84	16.22	16.77	17.00
23	17.45	16.74	16.46	16.11	14.76	15.19	14.25	---	14.88	16.39	16.78	16.98
24	17.44	16.71	16.45	16.07	14.61	15.16	14.16	---	14.96	16.61	16.77	16.98
25	17.43	16.78	16.45	16.05	14.49	15.14	14.09	12.86	14.98	16.61	16.75	17.00
26	17.42	16.78	16.43	16.01	14.39	15.12	14.08	13.54	14.98	16.68	16.73	17.01
27	17.41	16.77	16.38	16.00	14.31	15.07	14.05	14.03	15.04	16.64	16.74	17.05
28	17.38	16.75	16.36	15.98	14.29	15.03	13.98	14.25	15.20	16.59	e16.74	17.06
29	17.34	16.73	16.37	15.95	---	15.04	13.89	14.43	15.18	16.55	16.70	17.29
30	17.31	16.72	16.33	15.94	---	e15.13	13.87	14.50	15.17	16.52	16.67	17.34
31	17.28	---	16.31	15.92	---	15.21	---	14.52	---	16.50	16.65	---
TOTAL	540.63	507.80	512.24	499.40	427.77	445.97	442.69	373.62	415.16	491.41	520.26	506.82
MEAN	17.44	16.93	16.52	16.11	15.28	14.39	14.76	13.34	14.83	15.85	16.78	16.89
MAX	17.63	17.25	16.70	16.30	15.91	15.21	15.33	14.52	15.20	16.68	16.96	17.34
MIN	16.90	16.71	16.31	15.92	14.29	13.56	13.87	12.23	14.54	15.12	16.51	16.57

e Estimated

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 and tipping rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 15 ft above national Geodetic Vertical Datum of 1929. Station is one of several located in Conservation Area No. 1. Rainfall data is not published, but available in files of the U.S. Geological Survey. Gage is capable of recording water levels below land-surface datum.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 18.02 ft Oct. 15, 1999; minimum, 14.97 ft May 22, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.43 ft Oct. 15-17; minimum, 14.97 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.62	17.08	16.54	16.21	15.96	15.67	15.71	15.13	15.65	15.42	16.31	16.46
2	16.64	17.06	16.52	16.19	15.95	15.65	15.69	15.12	15.66	15.40	16.49	16.44
3	16.80	17.03	16.51	16.18	15.95	15.64	15.67	15.12	15.69	15.38	16.68	16.41
4	17.11	17.00	16.49	16.17	15.93	15.62	15.65	15.38	15.67	15.37	16.74	16.41
5	17.16	16.97	16.48	16.15	15.92	15.63	15.64	15.39	15.68	15.40	16.74	16.42
6	17.20	16.94	16.46	16.15	15.91	15.61	15.62	15.38	15.69	15.40	16.75	16.42
7	17.27	16.91	16.44	16.14	15.90	15.59	15.60	15.36	15.67	15.39	16.72	16.42
8	17.31	16.89	16.43	16.13	15.89	15.58	15.59	15.33	15.67	15.42	16.69	16.41
9	17.33	16.86	16.42	16.12	15.88	15.56	15.57	15.31	15.66	15.64	16.66	16.44
10	17.34	16.84	16.41	16.11	15.87	15.55	15.55	15.29	15.65	15.70	16.63	16.44
11	17.35	16.83	16.41	16.10	15.87	15.54	15.53	15.27	15.63	15.67	16.63	16.48
12	17.37	16.81	16.41	16.09	15.85	15.52	15.51	15.25	15.60	15.69	16.64	16.56
13	17.38	16.79	16.40	16.08	15.84	15.51	15.49	15.22	15.59	15.72	16.62	16.70
14	17.40	16.77	e16.39	16.08	15.84	15.49	15.48	15.20	15.57	15.70	16.61	16.88
15	17.42	16.75	16.38	16.07	15.83	15.49	15.46	15.17	15.55	15.70	16.58	16.88
16	17.43	16.73	16.37	16.06	15.81	15.48	15.44	15.15	15.53	15.69	16.56	16.84
17	17.43	16.72	16.36	16.05	15.81	15.47	15.41	15.12	15.51	15.71	16.55	16.81
18	17.40	16.70	16.34	16.04	15.79	15.46	15.39	15.09	15.49	15.82	16.53	e16.79
19	17.37	16.68	16.33	16.03	15.78	15.69	15.36	15.06	15.47	15.90	16.53	e16.79
20	17.35	16.67	16.32	16.03	15.77	15.91	15.34	15.03	15.45	15.90	16.53	e16.79
21	17.32	16.64	16.31	16.03	15.76	15.88	15.32	15.00	15.43	16.02	16.54	e16.79
22	17.31	16.62	16.30	16.04	15.75	15.85	15.30	14.99	15.43	16.02	16.63	16.79
23	17.28	16.61	16.28	16.05	15.74	15.82	15.28	15.10	15.44	16.17	16.62	16.78
24	17.27	16.59	16.28	16.04	15.72	15.80	15.26	15.30	15.44	16.38	16.59	e16.75
25	17.25	16.61	16.27	e16.03	15.71	15.77	15.24	15.45	15.45	16.39	16.57	e16.76
26	17.24	16.62	16.25	e16.02	15.70	15.76	15.22	15.64	15.43	16.45	16.55	e16.77
27	17.22	16.60	16.25	e16.00	15.69	15.74	15.20	15.64	15.42	16.42	16.55	16.79
28	17.19	16.58	16.24	e15.99	15.68	15.72	15.18	15.65	15.45	16.39	16.57	16.84
29	17.17	16.57	16.25	e15.99	---	15.70	15.16	15.71	15.46	16.36	16.54	17.11
30	17.14	16.55	16.24	15.98	---	15.73	15.15	15.69	15.44	16.32	16.51	17.13
31	17.11	---	16.22	15.97	---	15.72	---	15.67	---	16.30	16.48	---
TOTAL	534.18	503.02	507.30	498.32	443.10	485.15	463.01	474.21	466.47	491.24	514.34	500.30
MEAN	17.23	16.77	16.36	16.07	15.82	15.65	15.43	15.30	15.55	15.85	16.59	16.68
MAX	17.43	17.08	16.54	16.21	15.96	15.91	15.71	15.71	15.69	16.45	16.75	17.13
MIN	16.62	16.55	16.22	15.97	15.68	15.46	15.15	14.99	15.42	15.37	16.31	16.41

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262358080055700 E-4 CANAL AT CLINT-MOORE ROAD, BOCA RATON, FL

LOCATION.--Lat 26°23'58", long 80°05'57", in NE ¼ NE ¼ NW ¼ 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. Digital water-level recorder prior to May 24, 1999. 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, 6.04 ft Sept. 29; minimum, 4.05 ft May 20.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.80	4.52	4.45	4.36	4.28	4.18	4.45	4.18	4.31	4.48	4.88	4.51
2	4.72	4.49	4.43	4.35	4.29	4.19	4.40	4.15	4.34	4.47	5.38	4.49
3	5.12	4.47	4.40	4.34	4.28	4.18	4.40	4.19	4.36	4.46	5.64	4.49
4	5.50	4.47	4.39	4.33	4.29	4.18	4.38	4.37	4.35	4.46	5.42	4.48
5	5.25	4.45	4.37	4.33	4.28	4.20	4.36	4.31	4.36	4.45	5.30	4.46
6	5.13	4.45	4.37	4.33	4.28	4.21	4.36	4.29	4.37	4.45	5.28	4.46
7	5.04	4.44	4.39	4.32	4.28	4.20	4.35	4.28	4.38	4.43	5.12	4.53
8	4.98	4.43	4.37	4.32	4.25	4.18	4.34	4.28	4.37	4.45	5.03	4.64
9	4.98	4.42	4.37	4.31	4.26	4.20	4.34	4.26	4.41	4.47	4.97	4.66
10	4.90	4.41	4.36	4.30	4.24	4.19	4.33	4.24	4.40	4.49	4.93	4.65
11	4.87	4.39	4.65	4.31	4.22	4.20	4.31	4.26	4.42	4.53	4.88	4.64
12	4.84	4.38	4.58	4.31	4.22	4.21	4.30	4.25	4.43	4.54	4.85	4.83
13	4.81	4.38	4.56	4.30	4.24	4.21	4.30	4.24	4.41	4.53	4.82	5.31
14	4.77	4.37	4.53	4.30	4.23	4.19	4.27	4.24	4.39	4.61	4.80	5.16
15	4.73	4.36	4.52	4.30	4.22	4.18	4.26	4.23	4.38	4.75	4.78	5.04
16	4.70	4.35	4.50	4.30	4.24	4.20	4.26	4.20	4.38	4.73	4.76	4.96
17	4.68	4.33	4.48	4.30	4.22	4.20	4.26	4.15	4.38	4.71	4.74	4.91
18	4.67	4.32	4.46	4.31	4.22	4.19	4.22	4.14	4.37	4.70	4.71	4.86
19	4.64	4.31	4.45	4.32	4.24	4.34	4.21	4.12	4.37	4.67	4.69	4.80
20	4.63	4.30	4.44	4.37	4.25	4.49	4.22	4.07	4.35	4.67	4.68	4.77
21	4.63	4.29	4.42	4.35	4.25	4.42	4.21	4.10	4.34	4.69	4.68	4.74
22	4.61	4.28	4.41	4.36	4.22	4.40	4.19	4.11	4.36	4.72	4.67	4.72
23	4.59	4.28	4.41	4.36	4.21	4.39	4.22	4.28	4.38	5.00	4.65	4.70
24	4.60	4.31	4.42	4.36	4.19	4.38	4.23	4.36	4.42	5.02	4.61	4.69
25	4.59	4.56	4.42	4.33	4.18	4.36	4.21	4.35	4.48	4.90	4.59	4.66
26	4.58	4.60	4.42	4.33	4.19	4.35	4.18	4.37	4.49	5.21	4.56	4.62
27	4.56	4.56	4.41	4.33	4.21	4.34	4.18	4.36	4.49	5.00	4.59	4.79
28	4.55	4.53	4.41	4.31	4.20	4.33	4.16	4.35	4.51	4.89	4.58	4.94
29	4.53	4.50	4.40	4.33	---	4.35	4.15	4.35	4.49	4.84	4.55	5.59
30	4.53	4.48	4.38	4.34	---	4.40	4.16	4.33	4.50	4.80	4.53	5.35
31	4.52	---	4.36	4.32	---	4.37	---	4.31	---	4.77	4.53	---
TOTAL	148.05	132.43	137.53	134.13	118.68	132.41	128.21	131.72	131.99	144.89	150.20	143.45
MEAN	4.78	4.41	4.44	4.33	4.24	4.27	4.27	4.25	4.40	4.67	4.85	4.78
MAX	5.50	4.60	4.65	4.37	4.29	4.49	4.45	4.37	4.51	5.21	5.64	5.59
MIN	4.52	4.28	4.36	4.30	4.18	4.18	4.15	4.07	4.31	4.43	4.53	4.46

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262337080074800 E-3 CANAL AT 51ST STREET, BOCA RATON, FL

LOCATION.--Lat 26°23'37", long 80°07'48", in NE ¼ NE ¼ NW ¼ 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, 10.89 ft Aug. 3; minimum, 7.61 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.90	9.47	9.37	9.42	9.37	---	9.29	8.07	8.59	9.31	9.77	10.28
2	9.63	9.45	9.40	9.39	9.36	---	9.31	8.04	8.60	9.29	10.34	10.20
3	10.02	9.41	9.37	9.42	9.39	---	9.32	8.07	8.64	9.27	10.75	10.17
4	10.12	9.38	9.40	9.43	9.34	---	9.29	8.37	8.62	9.24	10.35	10.17
5	10.26	9.39	9.39	9.44	9.33	---	9.23	8.40	8.61	9.19	10.24	10.13
6	10.05	9.43	9.39	9.42	---	9.18	9.18	8.39	8.60	9.15	10.15	10.15
7	9.76	9.39	9.37	9.44	---	9.06	9.14	8.40	8.56	9.11	10.09	10.26
8	9.53	9.40	9.42	9.41	---	---	9.08	8.43	8.54	9.08	10.05	---
9	9.50	9.39	9.37	9.39	---	---	9.03	8.39	8.62	9.11	10.04	---
10	9.43	9.39	9.34	9.39	e9.21	---	8.98	8.30	8.69	9.16	10.02	---
11	9.69	9.39	9.50	9.40	9.23	---	8.92	8.24	8.73	9.19	10.01	---
12	9.77	9.38	9.58	9.41	9.24	---	8.84	8.17	8.84	9.31	10.01	---
13	9.60	9.41	9.59	9.40	9.22	---	8.80	8.09	8.80	9.33	10.01	---
14	9.54	9.38	9.57	9.41	9.23	---	8.75	8.04	8.71	9.37	10.00	---
15	9.48	9.37	9.53	9.40	9.23	---	8.69	8.01	8.66	9.62	10.00	---
16	9.43	9.37	9.49	9.39	9.26	---	8.64	7.96	8.67	9.68	9.96	---
17	9.41	9.38	9.44	9.40	9.22	---	8.61	7.90	8.71	9.65	9.92	---
18	9.54	9.38	9.40	9.39	9.24	---	8.55	7.85	8.72	9.69	9.94	---
19	9.54	9.37	9.43	9.42	9.25	---	8.48	7.80	8.73	9.63	9.92	---
20	9.53	9.36	9.43	9.41	9.22	---	8.45	7.74	8.68	9.60	9.90	---
21	9.57	9.39	9.40	9.38	9.25	---	8.41	7.70	8.62	9.81	9.95	---
22	9.58	9.44	9.38	9.35	e9.23	---	8.35	7.66	8.65	9.90	9.94	---
23	9.54	9.38	9.40	9.42	---	---	8.33	7.89	8.75	10.10	9.88	---
24	9.54	9.40	9.43	9.42	---	9.14	8.31	8.42	8.84	9.89	9.88	---
25	9.55	9.69	9.39	9.39	---	9.09	8.28	8.51	9.05	9.82	10.06	---
26	9.53	9.79	9.42	9.35	---	9.05	8.23	8.61	9.13	10.14	10.27	---
27	9.49	9.61	9.41	9.30	---	9.00	8.19	8.62	9.16	9.94	10.28	---
28	9.45	9.42	9.42	9.40	---	8.96	8.16	8.66	9.30	9.81	10.36	---
29	9.42	9.33	9.39	9.40	---	8.94	8.11	8.68	9.34	9.75	10.36	---
30	9.39	9.40	9.41	9.38	---	9.06	8.08	8.66	9.33	9.71	10.36	---
31	9.39	---	9.41	9.39	---	9.08	---	8.61	---	9.67	10.33	---
TOTAL	298.18	282.74	292.24	291.36	166.82	90.56	261.03	254.68	263.49	295.52	313.14	71.36
MEAN	9.62	9.42	9.43	9.40	9.27	9.06	8.70	8.22	8.78	9.53	10.10	10.19
MAX	10.26	9.79	9.59	9.44	9.39	9.18	9.32	8.68	9.34	10.14	10.75	10.28
MIN	9.39	9.33	9.34	9.30	9.21	8.94	8.08	7.66	8.54	9.08	9.77	10.13

e Estimated

262300080220001 HILLSBORO CANAL AT S-10-D, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°23'14", long 80°22'50", in NE ¼ 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. Tipping bucket rain gage at S-10-D upstream. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers).

REMARKS.--Land-surface datum is 1.10 ft above national Geodetic Vertical of 1929. 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. Rainfall data is not published but is available in files of the U.S. Geological Survey. Gage is capable of recording water levels below land-surface datum.

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, 17.50 ft Oct. 13, 14; minimum, dry May 11-26.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 15.35 ft Aug. 7, 8; minimum, 11.43 ft May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.77	17.07	16.49	16.08	15.70	13.92	15.16	13.77	14.34	14.98	16.32	16.46
2	16.79	17.04	16.47	16.07	15.69	13.78	15.12	13.75	14.43	14.95	16.57	16.44
3	16.94	17.02	16.46	16.05	15.68	13.66	15.11	13.70	14.51	14.94	16.73	16.42
4	17.20	16.99	16.44	16.03	15.66	13.54	15.08	13.70	14.54	14.94	16.68	16.41
5	17.18	16.95	16.43	16.00	15.65	13.57	15.06	13.65	14.51	14.99	16.68	16.41
6	17.18	16.92	16.41	15.99	15.62	13.55	15.05	13.68	14.48	15.03	16.67	16.40
7	17.23	16.89	16.39	15.99	15.59	13.50	15.02	13.64	14.45	15.04	16.66	16.40
8	17.25	16.87	16.39	15.97	15.53	13.43	14.99	13.61	14.49	15.05	16.63	16.44
9	17.29	16.84	16.38	15.96	15.50	13.35	14.96	13.54	14.57	15.08	16.60	16.49
10	17.33	16.82	16.37	15.94	15.46	13.50	14.94	13.43	14.60	15.19	16.59	16.52
11	17.37	16.80	16.37	15.93	15.42	13.71	14.91	---	14.60	15.30	16.60	16.61
12	17.45	16.79	16.36	15.91	15.39	13.77	14.87	---	14.61	15.37	16.61	16.71
13	17.47	16.77	16.36	15.91	15.36	13.79	14.84	---	14.63	15.43	16.59	16.83
14	17.48	16.74	16.34	15.89	15.29	13.81	14.80	---	14.65	15.46	16.57	16.84
15	17.47	16.73	16.34	15.89	15.18	13.88	14.77	---	14.64	15.53	16.55	16.76
16	17.46	16.71	16.32	15.87	15.10	13.88	14.74	---	14.61	15.59	16.56	16.75
17	17.42	16.67	16.30	15.86	15.04	13.96	14.62	---	14.59	15.65	16.56	16.78
18	17.39	16.66	16.29	15.84	15.00	14.03	14.58	---	14.59	15.76	16.55	16.84
19	17.37	16.63	16.27	15.81	14.94	14.03	14.51	---	14.56	15.93	16.53	16.85
20	17.34	16.63	16.25	15.82	14.83	14.58	14.43	---	14.54	16.03	16.53	16.85
21	17.32	16.62	16.23	15.83	14.73	14.96	14.35	---	14.51	16.11	16.57	16.84
22	17.31	16.59	16.23	15.83	14.64	14.93	14.25	---	14.57	16.12	16.65	16.82
23	17.29	16.56	16.23	15.81	14.57	14.93	14.15	---	14.65	16.27	16.64	16.81
24	17.28	16.54	16.22	15.82	14.47	14.92	13.96	---	14.71	16.43	16.61	16.79
25	17.26	16.53	16.21	15.81	14.35	14.91	13.88	---	14.75	16.32	16.58	16.81
26	17.23	16.54	16.20	15.80	14.20	14.89	13.89	---	14.77	16.31	16.56	16.82
27	17.21	16.54	16.19	15.79	14.14	14.88	13.88	13.76	14.80	16.31	16.55	16.81
28	17.18	16.53	16.14	15.78	14.08	14.86	13.82	14.04	14.89	16.31	16.56	16.73
29	17.15	16.51	16.14	15.75	---	14.83	13.74	14.21	14.99	16.27	16.53	16.98
30	17.13	16.51	16.12	15.73	---	14.92	13.78	14.31	14.98	16.26	16.51	17.03
31	17.10	---	16.09	15.71	---	14.98	---	14.32	---	16.29	16.48	---
TOTAL	534.84	502.01	505.43	492.47	422.81	439.25	437.26	207.11	438.56	485.24	514.02	500.65
MEAN	17.25	16.73	16.30	15.89	15.10	14.17	14.58	13.81	14.62	15.65	16.58	16.69
MAX	17.48	17.07	16.49	16.08	15.70	14.98	15.16	14.32	14.99	16.43	16.73	17.03
MIN	16.77	16.51	16.09	15.71	14.08	13.35	13.74	13.43	14.34	14.94	16.32	16.40

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262300080220001 HILLSBORO CANAL AT S-10-D, NEAR DEERFIELD BEACH, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.85	13.44	13.28	13.14	12.95	12.43	12.38	11.80	12.06	12.14	14.62	12.59
2	12.82	13.44	13.28	13.13	12.95	12.41	12.37	11.80	12.11	12.11	14.60	12.55
3	12.97	13.42	13.26	13.12	12.92	12.39	12.36	11.83	12.13	12.08	14.95	12.52
4	14.17	13.41	13.25	13.12	12.92	12.35	12.33	12.00	12.12	12.04	15.31	12.50
5	15.20	13.41	13.24	13.12	12.89	12.29	12.31	11.95	12.09	12.03	15.32	12.48
6	15.22	13.41	13.25	13.11	12.90	12.26	12.30	11.91	12.07	12.01	15.32	12.47
7	15.26	13.41	13.25	13.11	12.90	12.23	12.29	11.87	12.05	12.02	15.34	12.46
8	15.27	13.41	13.25	13.10	12.90	12.22	12.27	11.84	12.09	12.03	15.34	12.46
9	15.29	13.39	13.25	13.08	12.90	12.21	12.24	11.81	12.24	12.06	15.23	12.48
10	15.31	13.38	13.28	13.07	12.89	12.20	12.22	11.80	12.23	12.15	15.07	12.47
11	15.18	13.36	13.28	13.08	12.88	12.20	12.21	11.78	12.19	12.16	15.04	12.47
12	14.91	13.36	13.26	13.08	12.88	12.19	12.20	11.75	12.15	12.21	15.05	12.49
13	14.51	13.37	13.27	13.06	12.87	12.18	12.18	11.72	12.12	12.23	15.05	12.66
14	14.01	13.36	e13.26	13.06	12.87	12.16	12.14	11.68	12.09	12.23	15.04	14.19
15	13.84	13.34	13.26	13.06	12.85	12.15	12.12	11.65	12.07	12.26	14.66	15.03
16	13.75	13.35	13.26	13.06	12.85	12.13	12.09	11.60	12.04	12.23	14.05	15.01
17	13.71	13.35	13.22	13.06	12.82	12.11	12.07	11.57	12.02	12.26	13.61	14.65
18	13.67	13.34	13.21	13.06	12.81	12.09	12.03	11.55	12.01	12.36	13.42	13.88
19	13.65	13.34	13.20	13.06	12.80	12.17	12.02	11.52	11.99	12.38	13.28	13.65
20	13.62	13.32	13.19	13.05	12.79	12.40	12.02	11.49	11.96	12.34	13.18	13.53
21	13.60	13.30	13.20	13.01	12.78	12.37	12.00	11.48	11.95	12.36	13.14	13.46
22	13.57	13.30	13.20	13.01	12.76	12.34	11.99	11.45	12.00	12.37	13.12	13.42
23	13.54	13.32	13.20	13.00	12.74	12.32	11.97	11.60	12.11	12.57	13.02	13.40
24	13.53	13.34	13.19	13.01	12.66	12.31	11.94	11.78	12.18	13.89	12.93	13.33
25	13.51	13.34	13.18	13.00	12.60	12.29	11.91	11.77	12.24	15.20	e12.86	13.09
26	13.49	13.33	13.19	13.01	12.54	12.26	11.88	12.16	12.22	15.16	e12.79	13.01
27	13.48	13.30	13.18	13.01	12.50	12.24	11.86	12.15	12.18	15.05	e12.78	13.91
28	13.47	13.29	13.18	13.00	12.47	12.23	11.85	12.12	12.19	14.98	e12.78	15.04
29	13.47	13.28	13.16	12.99	---	12.25	11.84	12.11	12.18	14.97	e12.72	15.14
30	13.45	13.27	13.14	12.98	---	12.27	11.82	12.09	12.16	14.88	e12.67	15.17
31	13.45	---	13.13	12.96	---	12.26	---	12.06	---	14.71	12.63	---
TOTAL	433.77	400.68	409.95	404.71	358.59	379.91	363.21	365.69	363.24	399.47	434.92	401.51
MEAN	13.99	13.36	13.22	13.06	12.81	12.26	12.11	11.80	12.11	12.89	14.03	13.38
MAX	15.31	13.44	13.28	13.14	12.95	12.43	12.38	12.16	12.24	15.20	15.34	15.17
MIN	12.82	13.27	13.13	12.96	12.47	12.09	11.82	11.45	11.95	12.01	12.63	12.46

e Estimated

262200080210001 HILLSBORO CANAL AT S-10-C, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°22'16", long 80°21'00", in NW ¼ 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 bench mark).

REMARKS.--Land-surface datum is 1.0 ft above National Geodetic Vertical Datum of 1929. 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, 17.50 ft Oct. 14, 15; minimum, 11.79 ft May 22, 23.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 15.24 ft Aug. 11; minimum, 11.45 ft May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.77	17.09	16.52	16.11	15.71	13.93	e15.13	13.78	14.36	14.97	16.34	16.48
2	16.77	17.06	16.50	16.11	15.71	13.78	e15.14	13.75	14.44	e14.94	16.55	16.46
3	16.92	17.03	16.48	16.08	15.71	13.63	e15.11	13.72	14.53	e14.93	16.69	16.43
4	17.15	16.99	16.48	16.08	15.68	13.53	e15.09	13.83	14.55	14.93	16.57	16.43
5	17.07	16.96	16.47	16.03	15.67	13.64	e15.06	13.74	14.51	14.96	16.54	16.43
6	17.06	16.93	16.45	16.02	15.63	13.59	e15.04	13.71	14.48	15.00	16.55	16.42
7	17.12	16.91	16.43	16.01	15.58	13.52	e15.02	13.68	14.46	15.04	16.52	16.42
8	17.14	16.88	16.42	15.99	15.53	13.45	e14.99	13.64	14.51	15.06	16.49	16.44
9	17.17	16.86	16.40	16.00	15.50	13.33	e14.96	13.58	14.59	15.09	16.48	16.49
10	17.20	16.84	16.40	15.97	15.46	13.38	e14.94	13.46	14.62	e15.21	16.52	16.50
11	17.22	16.83	16.40	15.95	15.43	13.59	e14.92	13.18	14.61	e15.29	16.57	16.57
12	17.30	16.82	16.39	15.94	15.40	13.71	14.89	12.83	14.62	15.34	16.59	16.68
13	17.42	16.79	16.39	15.95	15.36	13.74	14.86	12.45	14.65	15.41	16.56	16.82
14	17.48	16.75	e16.37	15.92	15.30	13.80	14.84	12.15	14.66	15.46	16.55	16.82
15	17.49	16.75	16.37	15.91	15.21	13.80	14.81	12.04	14.65	15.54	16.56	16.71
16	17.48	16.72	16.35	15.90	15.14	13.86	14.78	12.11	14.63	15.57	16.58	16.71
17	17.46	16.69	16.33	15.88	15.06	13.89	14.68	12.14	14.62	15.62	16.57	16.74
18	17.43	16.67	16.32	15.86	15.02	14.00	14.62	12.05	14.60	e15.74	16.56	16.83
19	17.40	16.65	16.30	15.83	14.93	14.08	14.53	12.01	14.57	e15.88	16.55	16.84
20	17.37	16.65	16.29	15.84	14.84	14.52	14.44	12.06	14.54	e15.98	16.55	16.84
21	17.35	16.66	16.27	15.87	14.74	14.85	14.35	12.08	14.53	16.06	16.58	16.84
22	17.34	16.62	16.27	15.88	14.66	14.91	14.25	11.88	14.59	16.10	16.67	16.83
23	17.31	16.58	16.26	15.88	14.59	14.96	14.15	11.98	14.67	e16.25	16.64	16.82
24	17.31	16.56	16.26	15.87	14.47	14.95	14.00	12.46	14.73	e16.40	16.63	16.79
25	17.28	16.56	16.25	15.85	14.34	14.94	13.90	12.66	14.77	e16.30	16.60	16.81
26	17.27	16.57	16.23	15.83	14.23	14.92	13.93	13.35	14.78	16.31	16.58	16.83
27	17.23	16.58	16.20	15.81	14.13	14.91	13.90	13.82	14.81	16.29	16.58	16.80
28	17.21	16.56	16.16	15.79	14.09	14.88	13.83	14.07	14.89	16.28	16.59	16.69
29	17.18	16.55	16.17	15.77	---	14.82	13.75	14.24	14.96	16.25	16.55	16.94
30	17.15	16.55	16.15	15.73	---	14.90	13.74	e14.31	14.98	16.25	16.53	16.99
31	17.12	---	16.12	15.72	---	14.93	---	e14.33	---	16.30	16.50	---
TOTAL	534.17	502.66	506.40	493.38	423.12	438.74	437.65	405.09	438.91	484.75	513.34	500.40
MEAN	17.23	16.76	16.34	15.92	15.11	14.15	14.59	13.07	14.63	15.64	16.56	16.68
MAX	17.49	17.09	16.52	16.11	15.71	14.96	15.14	14.33	14.98	16.40	16.69	16.99
MIN	16.77	16.55	16.12	15.72	14.09	13.33	13.74	11.88	14.36	14.93	16.34	16.42

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262200080210001 HILLSBORO CANAL AT S-10-C, NEAR DEERFIELD BEACH, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.86	13.45	13.30	13.15	12.96	12.45	12.41	11.81	12.07	12.14	14.38	12.59
2	12.83	13.45	13.30	13.15	12.96	12.43	12.39	11.81	12.12	e12.10	14.37	12.55
3	12.98	13.44	13.28	13.15	12.94	12.40	12.37	11.84	12.14	e12.07	14.73	12.53
4	14.07	13.43	13.27	13.14	12.94	12.37	12.34	12.00	12.12	e12.06	15.15	12.51
5	15.04	13.42	13.27	13.14	12.92	12.33	12.32	11.96	12.10	12.05	15.20	12.47
6	15.08	13.43	13.27	13.13	12.92	12.28	12.31	11.92	12.08	12.03	15.20	12.46
7	15.13	13.42	13.27	13.12	12.92	12.26	12.29	11.88	12.06	12.04	15.21	12.46
8	15.15	13.42	13.27	13.12	12.92	12.24	12.27	11.84	12.10	12.05	15.21	12.46
9	15.17	13.41	13.27	13.10	12.91	12.22	12.25	11.82	12.25	12.08	15.20	12.48
10	15.18	13.40	13.29	13.09	12.91	12.22	12.23	11.80	12.24	e12.15	15.19	12.46
11	15.12	13.38	13.29	13.10	12.90	12.21	12.22	11.79	12.20	e12.17	e14.58	12.46
12	14.92	13.38	13.27	13.10	12.89	12.21	12.21	11.76	12.16	12.23	e14.53	12.48
13	14.53	13.39	13.28	13.08	12.88	12.19	12.19	11.73	12.13	12.25	e14.51	12.66
14	14.03	13.38	e13.27	13.07	12.88	12.17	12.16	11.69	12.10	12.25	e14.50	14.04
15	13.86	13.37	13.27	13.07	12.87	12.16	12.14	11.66	12.08	12.28	e14.31	14.86
16	13.77	13.37	13.27	13.07	12.86	12.14	12.11	11.62	12.06	12.25	e13.89	14.87
17	13.72	13.37	13.24	13.07	12.84	12.12	12.09	11.59	12.04	e12.25	e13.52	14.59
18	13.69	13.36	13.24	13.07	12.82	12.11	12.05	11.56	12.03	e12.35	e13.33	13.87
19	13.66	13.36	13.22	13.07	12.81	12.19	12.04	11.53	12.00	e12.36	e13.19	13.64
20	13.64	13.34	13.21	13.07	12.80	12.42	12.03	11.50	11.97	e12.33	e13.09	13.52
21	13.61	13.32	13.22	13.04	12.79	12.39	12.02	11.49	11.96	12.38	e13.05	13.45
22	13.59	13.32	13.22	13.04	12.78	12.36	12.00	11.47	12.02	12.39	e13.03	13.41
23	13.56	13.33	13.21	13.03	12.75	12.33	11.98	11.62	12.12	e12.57	e12.93	13.40
24	13.54	13.35	13.21	13.03	12.67	12.32	11.95	11.80	12.19	e13.44	e12.84	13.31
25	13.53	13.35	13.20	13.02	12.61	12.30	11.93	11.78	12.25	e14.46	e12.77	13.08
26	13.51	13.34	13.19	13.02	12.55	12.28	11.90	12.17	12.23	14.83	e12.71	13.00
27	13.50	13.32	13.19	13.02	12.51	12.25	11.88	12.16	12.19	14.83	e12.71	13.81
28	13.49	13.31	13.20	13.01	12.48	12.24	11.86	12.13	12.20	14.81	e12.72	14.88
29	13.48	13.30	13.18	13.00	---	12.26	11.85	e12.12	12.19	14.80	e12.66	15.03
30	13.46	13.29	13.16	12.99	---	12.28	11.82	e12.10	12.17	14.68	e12.61	15.07
31	13.46	---	13.15	12.98	---	12.28	---	e12.07	---	14.45	12.63	---
TOTAL	433.16	401.20	410.48	405.24	358.99	380.41	363.61	366.02	363.57	397.13	429.95	400.40
MEAN	13.97	13.37	13.24	13.07	12.82	12.27	12.12	11.81	12.12	12.81	13.87	13.35
MAX	15.18	13.45	13.30	13.15	12.96	12.45	12.41	12.17	12.25	14.83	15.21	15.07
MIN	12.83	13.29	13.15	12.98	12.48	12.11	11.82	11.47	11.96	12.03	12.61	12.46

e Estimated

262100080190001 HILLSBORO CANAL AT S-10-A, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°21'32", long 80°18'37", in NE ¼ 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 bench mark).

REMARKS.--Land-surface datum is 1.10 ft above National Geodetic Vertical Datum of 1929. 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, 17.78 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, 17.42 ft Oct. 15, 16; minimum, 12.03 ft May 23.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 15.01 ft Oct. 11; minimum, 11.43 ft May 22.

REVISIONS.--Revised figures of downstream stage for water year 2000 are available in the files of the U.S. Geological Survey and will not be published. These supersede those published in the water year 2000 report. Revisions were necessary due to new levels, run February 7, 2002.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.71	17.08	16.49	16.10	15.70	13.91	15.12	13.78	14.36	14.96	16.31	16.46
2	16.70	17.05	16.48	16.10	15.69	13.76	15.13	13.75	14.45	14.94	16.51	16.44
3	16.85	17.03	16.47	16.08	15.69	13.61	15.09	13.71	14.54	14.93	16.65	16.42
4	17.11	17.00	16.47	16.08	15.67	13.53	15.08	13.83	14.54	14.92	16.56	16.42
5	17.05	16.96	16.45	16.03	15.67	13.67	15.06	13.74	14.50	14.97	16.53	16.42
6	17.03	16.91	16.43	16.01	15.61	13.61	15.04	13.72	14.47	14.99	16.52	16.41
7	17.09	16.88	16.41	16.00	15.56	13.53	15.01	13.69	14.46	15.04	16.50	16.41
8	17.10	16.85	16.40	15.98	15.51	13.45	e14.98	13.65	14.53	15.06	16.47	16.43
9	17.13	16.83	16.38	15.99	15.48	13.34	e14.95	13.58	14.60	15.11	16.46	16.47
10	17.14	16.81	16.38	15.96	15.44	13.38	e14.93	13.47	14.64	15.22	16.49	16.48
11	17.15	16.81	16.38	15.94	15.41	13.58	e14.91	13.18	14.62	15.28	16.55	16.54
12	17.20	16.79	16.38	15.93	15.37	13.70	14.85	12.85	14.64	15.35	16.58	16.64
13	17.31	16.76	16.37	15.94	15.33	13.73	14.82	12.54	14.66	15.42	16.57	16.76
14	17.39	16.73	e16.36	15.91	15.28	13.79	14.82	12.27	14.67	15.46	16.56	16.79
15	17.42	16.73	16.35	15.90	15.17	13.79	14.81	12.15	14.66	15.53	16.55	16.71
16	17.42	16.69	16.33	15.88	15.08	13.85	14.78	12.17	14.64	15.56	16.56	16.70
17	17.41	16.66	16.33	15.86	15.04	13.88	14.68	12.19	14.63	15.61	16.56	16.72
18	17.39	16.65	16.32	15.85	14.99	13.99	14.62	12.14	14.60	15.72	16.54	16.80
19	17.37	16.62	16.31	15.81	14.88	14.09	14.51	12.11	14.57	15.84	16.52	16.82
20	17.35	16.62	16.29	15.84	14.80	14.55	14.42	12.13	14.55	15.92	16.52	16.82
21	17.33	16.64	16.27	15.87	14.70	14.85	14.32	12.15	14.54	16.02	16.56	16.82
22	17.32	16.60	16.26	15.88	14.64	14.93	14.22	12.06	14.60	16.06	16.64	16.82
23	17.29	16.55	16.25	15.89	14.56	14.96	14.11	12.20	14.68	16.23	16.62	16.80
24	17.28	16.51	16.25	15.86	14.42	14.94	13.98	12.51	14.75	16.38	16.60	16.78
25	17.27	16.54	16.24	15.85	14.29	14.93	13.89	12.69	14.78	16.28	16.58	16.80
26	17.25	16.55	16.21	15.82	14.20	14.91	13.92	13.37	14.78	16.28	16.56	16.81
27	17.23	16.56	16.18	15.80	14.11	14.89	13.89	13.84	14.81	16.27	16.57	16.80
28	17.20	16.54	16.14	15.78	14.08	14.84	13.82	14.07	14.91	16.26	16.57	16.69
29	17.16	16.52	16.17	15.75	---	14.79	13.76	14.24	14.97	16.23	16.53	16.92
30	17.13	16.52	16.14	15.72	---	14.88	13.74	14.32	14.97	16.23	16.50	16.98
31	17.11	---	16.12	15.71	---	14.94	---	14.34	---	16.28	16.48	---
TOTAL	532.89	501.99	506.01	493.12	422.37	438.60	437.26	406.44	439.12	484.35	512.72	499.88
MEAN	17.19	16.73	16.32	15.91	15.08	14.15	14.58	13.11	14.64	15.62	16.54	16.66
MAX	17.42	17.08	16.49	16.10	15.70	14.96	15.13	14.34	14.97	16.38	16.65	16.98
MIN	16.70	16.51	16.12	15.71	14.08	13.34	13.74	12.06	14.36	14.92	16.31	16.41

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262100080190001 HILLSBORO CANAL AT S-10-A, NEAR DEERFIELD BEACH, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.82	13.40	13.25	13.12	12.93	12.40	12.39	11.78	12.05	12.13	14.12	12.53
2	12.80	13.39	13.25	13.12	12.93	12.38	12.36	11.77	12.10	12.10	14.14	12.49
3	12.93	13.38	13.24	13.11	12.91	12.35	12.33	11.81	12.12	12.07	14.42	12.48
4	13.79	13.38	13.23	13.11	12.91	12.33	e12.32	11.97	12.09	12.06	14.85	12.46
5	14.73	13.38	13.22	13.11	12.88	12.31	12.29	11.94	12.07	12.04	14.94	12.44
6	14.84	13.37	13.22	13.10	12.86	12.26	12.27	11.89	12.05	12.02	14.94	12.42
7	14.91	13.37	13.22	13.09	12.86	12.22	e12.26	11.85	12.04	12.02	14.95	12.41
8	14.95	13.36	13.22	13.09	12.86	12.19	e12.24	11.82	12.08	12.02	14.96	12.41
9	14.98	13.35	13.22	13.08	12.85	12.17	e12.22	11.79	12.23	12.06	14.93	12.42
10	14.99	13.35	13.25	13.06	12.85	12.16	e12.20	11.78	12.22	12.15	14.78	12.41
11	14.97	13.34	13.24	13.06	12.84	12.16	e12.18	11.76	12.18	12.17	14.58	12.40
12	14.85	13.34	13.24	13.06	12.83	12.15	e12.17	11.73	12.14	12.21	14.53	12.42
13	14.48	13.34	13.24	13.05	12.82	12.14	12.16	11.70	12.11	12.23	14.51	12.61
14	13.98	13.34	e13.23	13.04	12.82	12.12	12.14	11.66	12.08	12.23	14.50	13.76
15	13.81	13.32	13.23	13.03	12.81	12.11	12.12	11.63	12.05	12.26	14.31	14.59
16	13.73	13.32	13.23	13.03	12.80	12.10	12.10	11.60	12.03	12.23	13.89	14.63
17	13.68	13.32	13.21	13.03	12.79	12.07	12.07	11.57	12.00	12.25	13.52	14.44
18	13.64	13.32	13.20	13.03	12.77	12.05	12.03	11.53	11.97	12.35	13.33	13.80
19	13.61	13.32	13.20	13.03	12.74	12.13	12.01	11.50	11.95	12.36	13.19	13.57
20	13.58	13.30	13.19	13.05	12.74	12.39	11.99	11.47	11.92	12.33	13.09	13.45
21	13.55	13.28	13.19	13.01	12.73	12.36	11.98	e11.45	11.92	12.36	13.05	13.38
22	13.53	13.28	13.19	13.02	12.73	12.32	11.96	e11.44	11.99	12.37	13.03	13.34
23	13.50	13.28	13.18	13.02	12.70	12.29	11.94	11.60	12.10	12.57	12.93	13.33
24	13.49	13.29	13.17	13.01	12.60	12.27	11.92	11.78	12.18	13.44	12.84	13.25
25	13.48	13.31	13.16	13.00	12.54	12.25	11.90	e11.76	12.26	14.46	12.77	13.03
26	13.46	13.30	13.16	12.99	12.50	12.23	11.88	12.15	12.22	14.52	12.71	12.94
27	13.45	13.28	13.16	12.99	12.46	12.20	11.85	12.14	12.19	14.55	12.71	13.57
28	13.43	13.26	13.17	12.98	12.43	12.18	11.83	12.11	12.20	14.55	12.72	14.61
29	13.42	13.26	13.16	12.96	---	12.19	11.81	12.10	12.19	14.56	12.66	14.84
30	13.42	13.25	13.14	12.96	---	12.22	11.79	12.07	12.16	14.45	12.61	14.89
31	13.41	---	13.13	12.94	---	12.23	---	12.05	---	14.19	12.57	---
TOTAL	430.21	399.78	409.34	404.28	357.49	378.93	362.71	365.20	362.89	395.31	427.08	397.32
MEAN	13.88	13.33	13.20	13.04	12.77	12.22	12.09	11.78	12.10	12.75	13.78	13.24
MAX	14.99	13.40	13.25	13.12	12.93	12.40	12.39	12.15	12.26	14.56	14.96	14.89
MIN	12.80	13.25	13.13	12.94	12.43	12.05	11.79	11.44	11.92	12.02	12.57	12.40

e Estimated

262007080321500 S-150 AT TERRYTOWN, FL

LOCATION.--Lat 26°20'07", long 80°32'15", in NW ¼ sec.27, T.47 S., R.38 E., Palm Beach County, Hydrologic Unit 03090202, 175 ft downstream of S-150, on the west side of U.S. Highway 27, 18.6 mi north of U.S. Interstate 595.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1990 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. Flow regulated by sluice gates upstream at S-150. Flow occasionally reversed during and after periods of heavy rainfall by pumpage at S-7 which may draw water through S-150 gates. Discharge computed from relations between velocity index and mean velocity.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1994-95, 1997-98, 2000).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.50 ft Nov. 2, 1999; minimum, 7.17 ft Apr. 18, 1991.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.46 ft Sept. 30; minimum, 7.61 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.98	10.68	e9.90	9.57	e9.22	8.64	8.66	7.88	8.59	8.70	10.93	10.80
2	10.00	10.66	e9.88	9.53	e9.19	8.63	8.60	7.98	8.69	e8.69	e11.10	10.76
3	e10.21	10.65	e9.84	9.51	9.15	8.64	8.61	7.97	8.73	e8.73	11.21	10.70
4	e10.54	10.63	e9.83	9.50	9.16	8.61	8.56	8.40	8.68	e8.65	11.26	10.66
5	e10.57	10.62	e9.84	9.53	9.09	8.58	8.52	8.34	8.65	8.71	11.29	10.65
6	10.60	e10.61	e9.83	9.51	9.10	8.54	8.52	8.25	8.63	8.70	11.30	10.61
7	10.70	10.60	9.82	9.50	9.08	8.52	8.49	8.11	8.65	8.69	11.31	10.59
8	10.71	10.58	9.81	9.52	9.04	8.50	8.44	8.15	8.71	8.71	11.32	10.63
9	10.71	10.55	9.79	9.43	9.04	8.53	8.41	8.07	8.70	8.78	e11.33	e10.70
10	10.73	10.50	9.82	9.46	9.04	8.48	8.40	8.03	8.65	8.83	e11.35	e10.72
11	10.73	10.44	9.91	e9.44	9.01	8.48	8.39	8.11	8.68	9.16	e11.36	10.84
12	e10.78	10.40	9.87	9.44	8.99	8.50	8.34	8.01	8.69	9.01	e11.38	10.81
13	10.97	10.37	9.89	e9.39	8.97	8.47	8.28	7.96	8.65	9.37	e11.38	10.84
14	10.90	10.35	e9.85	9.39	8.97	8.41	8.21	7.92	8.66	9.01	11.38	10.93
15	e10.83	10.29	e9.86	9.39	8.96	8.40	8.19	7.88	8.65	9.09	11.38	11.00
16	10.78	e10.29	9.86	e9.38	8.95	8.37	8.13	7.84	8.64	9.33	11.40	11.03
17	10.78	10.26	9.81	9.42	8.91	8.32	8.08	7.82	8.58	9.51	11.39	11.06
18	10.76	10.22	e9.80	e9.40	8.84	8.30	7.97	7.81	8.60	9.24	11.38	11.01
19	10.76	10.21	9.81	e9.43	e8.82	8.48	e7.95	7.77	8.53	9.70	11.37	10.97
20	10.76	e10.14	9.76	9.37	e8.81	8.79	e7.93	7.74	8.50	9.35	11.35	10.89
21	10.76	e10.08	9.74	e9.31	8.79	e9.12	e7.89	e7.68	8.51	9.53	11.28	10.83
22	10.75	10.06	e9.72	e9.35	8.79	8.96	e7.85	7.67	e8.64	9.71	11.24	10.79
23	10.74	10.05	9.69	e9.33	8.76	8.59	7.83	7.93	8.72	10.47	11.21	10.75
24	10.75	10.05	9.65	e9.33	e8.75	8.58	e7.83	8.58	e8.63	10.74	11.18	10.72
25	10.75	e10.03	9.64	e9.29	8.75	8.55	7.88	8.71	8.68	10.79	11.14	10.69
26	10.74	e10.01	9.63	9.33	8.70	8.50	7.93	8.73	8.75	10.92	11.10	10.71
27	10.73	9.96	9.66	e9.29	8.69	8.46	7.93	8.74	8.74	11.03	11.06	10.90
28	e10.72	9.98	9.70	e9.27	8.68	8.45	7.92	8.74	8.83	10.95	11.01	10.98
29	e10.71	e9.95	9.68	e9.28	---	e8.55	7.89	8.67	8.85	10.91	10.95	11.32
30	10.71	9.91	9.62	9.29	---	---	7.85	8.56	8.75	10.91	10.90	11.44
31	10.70	---	9.58	e9.25	---	8.84	---	8.57	---	10.91	10.86	---
TOTAL	330.86	309.13	303.09	291.43	250.25	256.79	245.48	252.62	259.96	296.83	348.10	325.33
MEAN	10.67	10.30	9.78	9.40	8.94	8.56	8.18	8.15	8.67	9.58	11.23	10.84
MAX	10.97	10.68	9.91	9.57	9.22	9.12	8.66	8.74	8.85	11.03	11.40	11.44
MIN	9.98	9.91	9.58	9.25	8.68	8.30	7.83	7.67	8.50	8.65	10.86	10.59

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262007080321500 S-150 AT TERRYTOWN, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	17	e10	.10	e2.5	e3.8	e13	4.8	8.0	-.65	22	12
2	---	16	e10	-.15	e.90	e4.4	e14	1.4	7.0	e-.65	e66	16
3	---	16	e8.0	-.60	1.3	e6.0	e10	1.9	2.8	e-.15	-17	12
4	---	18	e7.5	1.2	1.8	e4.4	e4.9	e1.2	1.7	e1.7	-14	e16
5	---	18	e7.5	-.05	2.3	e3.0	e3.6	e3.5	-.15	e4.4	-14	e14
6	5.5	e18	e10	-.05	2.0	e1.7	e2.7	e4.4	.85	4.8	-14	14
7	2.5	19	11	.70	1.6	e2.6	e1.4	4.5	.10	4.7	-17	12
8	.50	21	9.0	2.0	2.2	e4.5	e.40	5.5	e-.50	e2.6	-6.5	14
9	-1.0	18	8.5	.70	2.1	e4.1	e-1.4	2.6	e.45	7.0	e-7.0	e77
10	-3.5	16	12	1.2	2.0	e3.1	e-.80	-.35	e-.10	10	e8.5	e18
11	-6.0	12	15	e1.6	1.3	e2.8	e-.06	-1.5	-1.2	106	e12	18
12	e100	15	6.0	2.4	2.3	e4.0	e.29	-2.8	-1.2	14	e8.0	18
13	294	15	5.5	e.45	1.5	e2.0	e.37	.90	e-1.0	192	e13	20
14	165	14	e3.7	1.2	1.2	e2.3	e1.4	3.8	1.5	14	20	1.5
15	e91	12	e4.8	1.1	2.0	e.75	e5.5	-2.0	6.0	14	16	-12
16	56	e14	6.5	e1.8	1.7	e.90	e14	.25	5.0	128	14	-2.8
17	40	16	e1.1	2.9	-.20	e.60	e15	e3.2	e1.2	166	6.0	87
18	12	e14	e3.3	e1.4	.15	e1.9	e16	-1.7	6.0	14	4.7	70
19	16	e14	2.0	e3.0	e2.0	e3.5	e7.0	-5.5	3.2	204	1.8	73
20	22	e12	3.0	1.9	e1.4	e3.7	e5.5	-5.5	e-1.6	16	-1.4	17
21	20	e10	.90	e1.1	.85	e165	e5.5	e-6.0	.40	14	9.0	12
22	18	10	e1.8	e.85	1.5	e103	e4.7	-6.0	e1.2	18	16	11
23	17	13	1.7	e-.05	1.4	e13	e2.6	-2.6	6.0	232	13	12
24	14	16	2.2	e-.01	e2.1	e6.0	e1.1	e1.8	e8.0	-3.0	11	10
25	16	e13	1.4	e1.6	.55	e4.1	e.65	4.8	8.0	-.45	16	9.5
26	16	e9.0	4.9	1.3	.80	e11	e8.0	4.8	7.0	193	12	100
27	14	10	5.0	e1.9	3.1	e12	e6.5	6.5	3.1	262	7.5	171
28	e18	12	2.8	e2.2	e4.0	e8.0	2.5	7.5	6.5	102	5.0	-16
29	e14	e11	1.5	e2.8	---	e8.0	4.5	5.0	e2.9	18	14	e-14
30	14	10	2.5	3.1	---	---	4.8	4.6	.85	20	14	-22
31	15	---	2.2	e2.5	---	e11	---	7.0	---	14	12	---
TOTAL	970.00	429.0	171.30	40.09	46.35	401.15	153.65	46.00	82.00	1771.30	230.6	768.2
MEAN	37.3	14.3	5.53	1.29	1.66	13.4	5.12	1.48	2.73	57.1	7.44	25.6
MAX	294	21	15	3.1	4.0	165	16	7.5	8.0	262	66	171
MIN	-6.0	9.0	.90	-.60	-.20	.60	-1.4	-6.0	-1.6	-3.0	-17	-22
AC-FT	1920	851	340	80	92	796	305	91	163	3510	457	1520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	.23	4.26	26.9	67.8	106	114	178	161	107	83.9	35.9	4.92
MAX	59.1	94.6	231	284	523	514	566	602	390	408	152	91.2
(WY)	1994	1998	1997	1997	1992	1992	1992	1992	1992	2000	1998	1993
MIN	-49.0	-50.0	-50.0	-50.0	-21.1	-13.7	-15.9	-.92	-.70	-22.1	-31.6	-52.0
(WY)	1995	1995	1995	1995	1995	1995	1993	2000	1993	1992	1992	1992

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1991 - 2001

ANNUAL MEAN										54.8		
HIGHEST ANNUAL MEAN										101		1997
LOWEST ANNUAL MEAN										-6.29		1995
HIGHEST DAILY MEAN				555	Aug 7		294	Oct 13		850	Jan 16	1991
LOWEST DAILY MEAN				-25	May 11		-22	Sep 30		-108	Sep 20	1992
ANNUAL SEVEN-DAY MINIMUM				-11	May 8		-13	Aug 3		-82	Sep 16	1992
ANNUAL RUNOFF (AC-FT)										39680		
10 PERCENT EXCEEDS				404			18			390		
50 PERCENT EXCEEDS				10			4.7			1.4		
90 PERCENT EXCEEDS				-2.2			-.50			-26		

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.

02284300 NORTH NEW RIVER CANAL AT S-7, AT TERRYTOWN, FL

LOCATION.--Lat 26°20'07", long 80°32'14", in SW ¼ sec.22, T.47 S., R.38 E., Palm Beach County, Hydrologic Unit 03090202, 50 ft east of U.S. Highway 27 in Terrytown, and 25 mi south of Okeelanta.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1944 to December 1959 (weekly gage heights and periodic discharge measurements), January 1960 to 1982 (discharge), November 1990 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until September 30, 2001.

Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter installed May 23, 2001.

The acoustic velocity meter and acoustic doppler velocity meter were run in tandem for the period of May 23, 2001 to January 30, 2002. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow regulated by pumpage and operation of gate at pump station 7 and by operation of Structure 351 at Lake Okeechobee. Acoustic Velocity Meter (AVM) system began operation November 8, 1990. Discharge computed from relations between stage vs area and line velocity vs mean velocity index ratings. Positive flow is considered flow into the conservation area. The computed discharge represents pumpage and gate discharge into the conservation area. Negative discharge through gate into North New River Canal is not computed because no rating has been developed for this condition.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1961-82, 1993-1995, 1998-99, 2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.09 ft Oct. 31, 1961; minimum, 7.84 ft May 3, 4, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.31 ft July 28; minimum, 7.84 ft May 3, 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.33	11.74	10.90	e11.01	10.59	9.14	10.48	8.97	11.13	10.72	11.74	11.42
2	10.40	11.83	10.97	e11.08	10.60	9.31	10.87	8.25	11.24	10.40	10.65	11.54
3	9.63	11.81	10.89	10.98	10.69	8.95	10.98	8.11	11.10	10.27	9.54	11.53
4	10.27	11.71	10.77	10.92	10.50	8.84	10.74	8.37	10.70	10.34	9.56	11.62
5	10.34	11.72	10.76	10.80	10.54	9.38	10.57	9.51	10.51	e10.40	9.50	11.92
6	9.91	11.81	10.64	e10.93	10.50	9.09	10.16	10.09	10.63	10.67	9.66	11.71
7	9.82	11.73	10.61	10.99	10.39	9.08	9.90	9.31	10.85	10.61	10.17	11.30
8	9.83	11.61	e10.67	10.99	10.22	8.71	9.78	9.22	11.42	10.39	11.04	e11.60
9	10.01	e11.53	10.53	11.02	10.30	9.56	9.40	9.23	11.28	10.38	11.19	12.07
10	e9.57	11.46	10.44	e10.73	10.27	10.19	10.07	e9.16	10.93	e11.16	11.89	e11.88
11	9.22	11.59	10.71	10.68	10.10	10.30	10.15	9.09	11.20	e10.78	11.81	11.81
12	10.33	11.53	e10.77	e10.68	10.30	9.93	10.45	9.13	10.96	11.76	11.83	11.62
13	e11.16	11.38	11.04	10.58	10.21	10.09	10.43	8.67	10.75	11.75	11.91	11.55
14	10.97	e11.31	e10.83	10.47	10.11	9.85	10.58	9.14	11.00	11.35	11.94	10.17
15	10.73	11.45	11.00	10.41	9.96	10.04	10.24	9.25	11.06	11.40	11.69	9.89
16	11.25	e11.33	10.64	10.23	10.02	9.84	9.57	8.96	10.83	11.59	11.69	10.85
17	11.21	11.34	e10.52	10.25	9.88	10.12	9.97	8.73	10.66	11.57	e11.63	11.66
18	11.44	11.41	11.02	10.21	9.82	9.58	9.60	8.93	10.49	11.64	11.53	11.78
19	11.70	11.44	e11.01	10.24	10.05	9.86	9.55	9.61	10.45	11.63	11.38	11.64
20	11.67	11.57	e11.07	10.28	10.02	10.98	9.37	10.09	10.60	11.37	11.25	11.28
21	11.66	11.65	e11.15	10.40	9.92	10.95	8.91	9.71	10.46	11.09	11.50	11.04
22	11.65	11.38	10.90	10.74	9.70	11.71	9.69	9.29	10.55	11.47	11.94	11.17
23	e11.64	11.45	10.55	11.23	9.73	11.64	9.50	e9.13	10.83	11.44	11.65	11.28
24	e11.68	11.43	10.28	11.09	9.42	11.53	9.68	9.62	e11.16	9.98	11.40	11.31
25	11.72	11.48	10.76	11.04	9.29	11.36	9.26	9.31	11.03	10.08	11.51	11.31
26	11.52	11.17	10.55	10.90	9.40	11.06	9.42	9.28	11.21	11.26	11.55	11.22
27	11.51	11.29	10.90	10.81	9.24	10.85	9.23	9.33	e10.75	11.27	11.45	10.20
28	11.52	11.32	11.03	10.76	9.40	10.80	8.80	9.53	e11.20	11.87	11.18	9.65
29	11.52	10.89	11.02	10.54	---	10.85	9.89	9.19	e10.71	11.90	11.30	10.41
30	11.66	10.90	11.08	10.66	---	e11.63	9.73	9.86	10.85	11.97	11.36	9.63
31	11.96	---	e11.10	10.57	---	10.98	---	10.27	---	11.80	11.35	---
TOTAL	338.83	344.26	335.11	332.22	281.17	316.20	296.97	286.34	326.54	344.31	347.79	336.06
MEAN	10.93	11.48	10.81	10.72	10.04	10.20	9.90	9.24	10.88	11.11	11.22	11.20
MAX	11.96	11.83	11.15	11.23	10.69	11.71	10.98	10.27	11.42	11.97	11.94	12.07
MIN	9.22	10.89	10.28	10.21	9.24	8.71	8.80	8.11	10.45	9.98	9.50	9.63

e Estimated

261952080074500 E-3 CANAL AT SW 18TH STREET, BOCA RATON, FL

LOCATION.--Lat 26°19'52", long 80°07'45", in SE ¼ NE ¼ NW ¼ 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, 5.33 ft Aug. 24, 2000.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.56 ft Oct. 3; minimum, 7.44 ft Sept. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.72	9.44	9.29	9.39	9.31	9.16	9.25	8.08	8.56	9.26	9.59	9.31
2	9.43	9.42	9.34	9.37	9.30	9.18	9.28	8.05	8.57	9.25	10.00	9.26
3	9.57	9.38	9.31	9.39	9.34	9.10	9.27	8.06	8.63	9.23	9.92	9.25
4	8.84	9.35	9.36	9.40	9.28	9.13	9.25	8.39	8.61	9.20	9.63	9.25
5	9.98	9.36	9.35	9.40	9.28	9.19	9.20	8.42	8.59	9.15	9.79	9.22
6	9.78	9.39	9.34	9.38	9.37	9.14	9.15	8.41	8.58	9.11	9.72	9.25
7	9.50	9.35	9.32	9.39	9.35	9.00	9.11	8.39	8.53	9.06	9.56	9.38
8	9.25	9.35	9.38	9.36	9.29	8.87	9.05	8.40	8.51	9.03	9.55	9.59
9	9.21	9.33	9.32	9.36	9.21	8.78	8.99	8.36	8.57	9.07	9.65	9.66
10	9.27	9.34	9.29	9.37	9.21	8.72	8.94	8.28	8.65	9.12	9.63	9.67
11	9.64	9.36	9.44	9.36	9.20	8.66	8.87	8.23	8.67	9.16	9.60	9.39
12	9.67	9.34	9.53	9.36	9.21	8.60	8.80	8.17	8.78	9.28	9.56	8.67
13	9.50	9.38	9.54	9.36	9.19	8.58	8.76	8.09	8.75	9.31	9.52	8.50
14	9.44	9.34	9.52	9.36	9.19	8.52	8.72	8.03	8.67	9.34	9.50	8.55
15	9.39	9.35	9.49	9.36	9.19	8.47	8.67	7.99	8.62	9.56	9.53	10.33
16	9.34	9.33	9.44	9.34	9.21	8.46	8.63	7.94	8.64	9.60	9.48	10.29
17	9.34	9.34	9.40	9.35	9.19	8.43	8.59	7.88	8.68	9.56	9.48	10.15
18	9.50	9.35	9.36	9.33	9.22	8.41	8.55	7.84	8.70	9.61	9.51	9.87
19	9.49	9.33	9.39	9.35	9.22	8.61	8.48	7.78	8.71	9.56	9.48	9.47
20	9.48	9.34	9.39	9.36	9.20	9.14	8.44	7.73	8.66	9.54	9.47	9.36
21	9.52	9.38	9.36	9.35	9.23	9.19	8.40	7.68	8.60	9.75	9.51	9.58
22	9.54	9.42	9.34	9.31	9.20	9.18	8.36	7.65	8.63	9.82	9.46	9.57
23	9.50	9.34	9.38	9.38	9.19	9.15	8.33	7.87	8.73	9.86	9.39	9.54
24	9.50	9.34	9.41	9.38	9.20	9.11	8.31	8.43	8.81	9.58	9.36	9.52
25	9.51	9.58	9.37	9.34	9.22	9.05	8.28	8.50	9.00	9.66	9.33	9.51
26	9.49	9.69	9.39	9.30	9.16	9.01	8.24	8.61	9.08	9.86	9.29	9.48
27	9.45	9.52	9.36	9.25	9.21	8.98	8.21	8.62	9.12	9.68	9.34	9.55
28	9.41	9.35	9.37	9.35	9.13	8.93	8.16	8.64	9.25	9.65	9.48	9.70
29	9.37	9.26	9.35	9.32	---	8.87	8.11	8.65	9.29	9.61	9.44	9.52
30	9.35	9.33	9.38	9.29	---	9.01	8.08	8.64	9.29	9.59	9.38	9.25
31	9.35	---	9.38	9.33	---	9.04	---	8.60	---	9.56	9.35	---
TOTAL	293.33	281.38	290.89	289.94	258.50	275.67	260.48	254.41	262.48	292.62	295.50	283.64
MEAN	9.46	9.38	9.38	9.35	9.23	8.89	8.68	8.21	8.75	9.44	9.53	9.45
MAX	9.98	9.69	9.54	9.40	9.37	9.19	9.28	8.65	9.29	9.86	10.00	10.33
MIN	8.84	9.26	9.29	9.25	9.13	8.41	8.08	7.65	8.51	9.03	9.29	8.50

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.33 ft Dec. 9, 10, 1994; minimum, 10.88 ft Apr. 5-12, 1997.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 13.75 ft Oct. 13; minimum, indeterminate, well was dry Mar. 9-20, 23-31, Apr. 5 to June 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.33	12.92	12.02	11.68	11.38	11.07	11.07	---	---	11.28	e12.74	12.29
2	12.35	12.87	12.00	11.66	11.37	11.06	11.05	---	---	11.27	e12.92	12.26
3	12.56	12.82	11.98	11.64	11.36	11.05	11.02	---	11.08	11.25	e13.12	12.24
4	12.88	12.78	11.97	11.62	11.34	11.04	11.01	---	11.05	11.23	e13.22	12.21
5	12.90	12.73	11.95	11.60	11.34	11.06	---	---	11.03	11.23	e13.25	12.19
6	e13.00	12.68	11.94	11.58	11.33	11.05	---	---	11.03	11.24	e13.31	12.17
7	e13.19	12.63	11.94	11.57	11.31	11.02	---	---	11.02	11.27	e13.37	12.17
8	e13.32	12.58	11.93	11.55	11.30	11.01	---	---	11.02	11.31	13.40	12.17
9	e13.43	12.54	11.92	11.54	11.29	---	---	---	11.08	11.33	13.44	12.18
10	e13.54	12.50	11.93	11.51	11.28	---	---	---	11.10	11.34	13.47	12.17
11	13.62	12.46	11.97	11.50	11.26	---	---	---	11.10	11.36	13.50	12.22
12	13.70	12.43	11.97	11.48	11.26	---	---	---	11.11	11.38	13.49	12.25
13	13.74	12.39	11.96	11.47	11.24	---	---	---	11.11	11.40	13.43	12.44
14	13.72	12.36	11.95	11.46	11.24	---	---	---	11.10	11.40	13.38	12.52
15	13.66	12.33	11.94	11.45	11.23	---	---	---	11.10	11.43	13.31	12.52
16	13.61	12.31	11.93	11.44	11.22	---	---	---	11.09	11.45	13.23	12.54
17	13.56	12.29	11.92	11.43	11.21	---	---	---	11.12	11.45	13.14	12.62
18	13.52	12.26	11.91	11.42	11.19	---	---	---	11.11	11.49	13.03	12.71
19	13.47	12.24	11.90	11.42	11.18	---	---	---	11.10	11.53	12.92	12.75
20	13.42	12.22	11.88	11.43	11.17	---	---	---	11.09	11.56	12.85	12.76
21	13.38	12.20	11.86	11.42	11.15	11.01	---	---	11.08	11.69	12.80	12.78
22	13.32	12.17	11.84	11.42	11.14	11.00	---	---	11.10	11.82	12.72	12.78
23	13.28	12.14	11.82	11.43	11.14	---	---	---	11.14	e12.01	12.65	12.80
24	13.25	12.12	11.80	11.42	11.13	---	---	---	11.17	e12.50	12.60	12.82
25	13.22	12.11	11.80	11.42	11.11	---	---	---	11.22	e12.56	12.54	12.84
26	13.19	12.10	11.78	11.41	11.10	---	---	---	11.24	e12.63	12.49	12.84
27	13.15	12.09	11.76	11.40	11.10	---	---	---	11.25	e12.68	12.45	12.91
28	13.10	12.07	11.75	11.40	11.09	---	---	---	11.27	e12.68	12.42	13.01
29	13.06	12.05	11.74	11.39	---	---	---	---	11.29	e12.68	12.39	13.38
30	13.01	12.03	11.73	11.38	---	---	---	---	11.30	e12.68	12.35	13.54
31	12.97	---	11.70	11.38	---	---	---	---	---	e12.68	12.32	---
TOTAL	410.45	371.42	368.49	355.92	314.46	110.37	44.15	---	311.50	363.81	402.25	377.08
MEAN	13.24	12.38	11.89	11.48	11.23	11.04	11.04	---	11.12	11.74	12.98	12.57
MAX	13.74	12.92	12.02	11.68	11.38	11.07	11.07	---	11.30	12.68	13.50	13.54
MIN	12.33	12.03	11.70	11.38	11.09	11.01	11.01	---	11.02	11.23	12.32	12.17

e Estimated

261300080280001 NORTH NEW RIVER CANAL AT S-11-C, NEAR ANDYTOWN, FL

LOCATION.--Lat 26°13'43", long 80°27'37", in NE ¼ 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.

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 bench mark).

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, well was dry, Apr. 18 to May 2, May 13-23, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 13.65 ft Oct. 14; minimum, 9.64 ft May 22.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 11.76 ft Sept. 30; minimum, indeterminate, well was dry, Apr. 18 to May 2, May 13-23.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.45	12.83	11.99	11.49	11.01	10.32	10.80	9.96	10.60	11.32	11.94	12.26
2	12.47	12.76	11.98	11.46	10.99	10.29	10.80	9.96	10.66	11.31	12.12	12.25
3	12.64	12.68	11.97	11.43	10.97	10.27	10.79	9.95	10.77	11.30	12.45	12.23
4	12.91	12.62	11.96	11.39	10.94	10.24	10.77	10.17	10.84	11.28	12.36	12.21
5	13.00	12.57	11.96	11.34	10.91	10.26	10.76	10.23	10.87	11.36	12.36	12.20
6	13.06	12.51	11.96	11.31	10.89	10.23	10.75	10.24	10.91	11.35	12.40	12.20
7	13.14	12.44	11.95	11.29	10.86	10.21	10.74	10.22	10.94	11.37	12.46	12.19
8	13.20	12.38	11.94	11.25	10.83	10.18	10.72	10.20	10.98	11.40	12.52	12.19
9	13.28	12.36	11.93	11.23	10.80	10.16	10.70	10.17	11.03	11.42	12.55	12.22
10	13.38	12.36	11.98	11.22	10.77	10.13	10.67	10.13	11.09	11.44	12.55	12.24
11	13.46	12.35	12.02	11.24	10.73	10.11	10.65	10.10	11.12	11.47	12.54	12.27
12	13.55	12.32	12.00	11.24	10.69	10.09	10.62	10.06	11.13	11.47	12.54	12.32
13	13.62	12.29	11.96	11.23	10.64	10.06	10.60	10.02	11.14	11.46	12.49	12.44
14	13.64	12.26	11.96	11.22	10.60	10.04	10.58	9.98	11.14	11.47	12.44	12.43
15	13.63	12.24	11.93	11.21	10.59	10.01	10.55	9.94	11.15	11.49	12.39	12.28
16	13.60	12.23	11.92	11.20	10.58	9.98	10.51	9.90	11.14	11.51	12.33	12.26
17	13.55	12.20	11.92	11.19	10.55	9.96	10.48	9.86	11.17	11.57	12.24	12.34
18	13.50	12.18	11.86	11.18	10.53	9.94	10.44	9.82	11.19	11.65	12.14	12.55
19	13.45	12.15	11.84	11.16	10.51	9.97	10.40	9.77	11.19	11.70	12.04	12.65
20	13.40	12.14	11.80	11.16	10.48	10.28	10.37	9.73	11.18	11.74	12.10	12.72
21	13.36	12.11	11.79	11.16	10.47	10.70	10.32	9.69	11.17	11.99	12.41	12.78
22	13.32	12.08	11.78	11.17	10.46	10.78	10.29	9.66	11.19	12.06	12.46	12.82
23	13.28	12.05	11.78	11.18	10.44	10.79	10.25	9.80	11.21	12.23	12.45	12.85
24	13.25	e12.02	11.79	11.17	10.43	10.81	10.21	10.16	11.22	12.30	12.41	12.87
25	13.21	e12.00	11.76	11.15	10.41	10.75	10.16	10.32	11.24	12.05	12.37	12.89
26	13.17	e12.04	11.76	11.13	10.39	10.72	10.12	10.41	11.25	12.06	12.32	12.90
27	13.12	e12.04	11.69	11.11	10.37	10.71	10.08	10.48	11.26	12.04	12.29	12.91
28	13.06	11.99	11.64	11.10	10.34	10.69	10.04	10.53	11.29	12.02	12.32	12.70
29	13.01	11.99	11.60	11.08	---	10.67	10.00	10.55	11.32	12.00	12.31	12.72
30	12.95	12.00	11.57	11.06	---	10.76	9.97	10.57	11.32	11.97	12.29	12.77
31	12.88	---	11.53	11.04	---	10.74	---	10.59	---	11.94	12.27	---
TOTAL	409.54	368.19	367.52	347.79	298.18	320.85	314.14	313.17	332.71	361.74	382.86	374.66
MEAN	13.21	12.27	11.86	11.22	10.65	10.35	10.47	10.10	11.09	11.67	12.35	12.49
MAX	13.64	12.83	12.02	11.49	11.01	10.81	10.80	10.59	11.32	12.30	12.55	12.91
MIN	12.45	11.99	11.53	11.04	10.34	9.94	9.97	9.66	10.60	11.28	11.94	12.19

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261300080280001 NORTH NEW RIVER CANAL AT S-11-C, NEAR ANDYTOWN, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.95	10.69	9.95	9.61	9.23	8.66	8.70	---	8.60	8.70	10.97	10.71
2	9.99	10.67	9.93	9.57	9.21	8.65	8.63	---	8.70	8.74	11.12	10.67
3	10.17	10.66	9.91	9.56	9.17	8.64	8.61	8.01	8.74	8.72	11.34	10.62
4	10.47	10.65	9.90	9.56	9.18	8.62	8.58	8.44	8.68	8.67	11.43	10.59
5	10.53	10.63	9.91	9.56	9.13	8.63	8.54	8.37	8.66	8.73	11.46	10.57
6	10.59	10.62	9.88	9.55	9.11	8.60	8.53	8.29	8.64	8.72	11.49	10.55
7	10.70	10.60	9.87	9.53	9.09	8.56	8.51	8.14	8.64	8.71	11.52	10.56
8	10.72	10.57	9.85	9.54	9.06	8.53	8.46	8.18	8.71	8.73	11.54	10.55
9	10.75	10.54	9.83	9.48	9.05	8.54	8.43	8.10	8.71	8.79	11.55	10.56
10	10.77	10.48	9.86	9.50	9.05	8.50	8.42	8.06	8.66	8.84	11.56	10.61
11	10.77	10.45	9.94	9.48	9.03	8.45	8.39	8.13	8.69	9.03	11.56	10.69
12	10.77	10.41	9.90	9.47	9.00	8.44	8.34	8.04	8.70	9.02	11.57	10.71
13	10.78	10.38	9.91	9.44	8.98	8.44	8.30	---	8.66	9.03	11.58	10.76
14	10.79	10.35	9.88	9.43	8.97	8.38	8.25	---	8.68	9.02	11.57	10.92
15	10.79	10.31	9.88	9.42	8.96	8.37	8.22	---	8.67	9.11	11.58	11.05
16	10.79	10.30	9.87	9.40	8.94	8.34	8.16	---	8.65	9.14	11.59	11.06
17	10.78	10.27	9.85	9.44	8.93	8.28	8.11	---	8.59	9.21	11.55	11.00
18	10.78	10.23	9.82	9.41	8.86	8.28	---	---	8.61	9.23	11.52	10.88
19	10.78	10.22	9.84	9.42	8.83	8.43	---	---	8.55	9.33	11.49	10.84
20	10.77	10.18	9.79	9.41	8.83	8.76	---	---	8.51	9.32	11.40	10.80
21	10.77	10.14	9.76	9.36	8.81	8.73	---	---	8.52	9.49	11.26	10.76
22	10.76	10.11	9.76	9.40	8.81	8.72	---	---	8.66	9.66	11.20	10.73
23	10.75	10.09	9.72	9.38	8.78	8.57	---	---	8.73	10.02	11.20	10.69
24	10.76	e10.06	9.69	9.36	8.75	8.54	---	8.61	8.65	10.55	11.16	10.67
25	10.75	e10.05	9.68	9.33	8.75	8.52	---	8.73	8.70	10.79	11.12	10.64
26	10.75	e10.03	9.66	9.36	8.72	8.49	---	8.74	8.76	10.86	11.08	10.63
27	10.75	e10.00	9.67	9.31	8.71	8.44	---	8.76	8.76	10.91	11.01	10.76
28	10.74	10.02	9.70	9.29	8.70	8.42	---	8.75	8.85	10.92	10.91	11.12
29	10.73	9.99	9.70	9.28	---	8.51	---	8.68	8.85	10.93	10.86	11.63
30	10.72	9.96	9.66	9.28	---	8.88	---	8.57	8.75	10.93	10.83	11.74
31	10.71	---	9.62	9.25	---	8.85	---	8.59	---	10.93	10.77	---
TOTAL	330.63	309.66	304.19	292.38	250.64	264.77	143.18	151.19	260.28	294.78	350.79	324.07
MEAN	10.67	10.32	9.81	9.43	8.95	8.54	8.42	8.40	8.68	9.51	11.32	10.80
MAX	10.79	10.69	9.95	9.61	9.23	8.88	8.70	8.76	8.85	10.93	11.59	11.74
MIN	9.95	9.96	9.62	9.25	8.70	8.28	8.11	8.01	8.51	8.67	10.77	10.55

e Estimated

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 ¼ 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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

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, 13.72 ft Oct. 14 (estimated); minimum, 10.48 ft May 22, 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.45	12.96	12.03	11.71	11.44	11.01	11.47	10.82	11.51	11.62	12.69	12.32
2	12.45	12.91	12.02	11.70	11.42	10.99	11.47	10.80	11.54	11.60	12.81	12.29
3	12.58	12.86	12.01	11.68	11.41	10.96	11.45	10.83	11.57	11.57	13.03	12.27
4	12.87	12.80	11.99	11.67	11.40	10.95	11.43	11.10	11.56	11.57	13.12	12.25
5	12.95	12.75	11.98	11.66	11.38	11.03	11.41	11.10	11.55	11.61	13.16	12.23
6	13.04	12.71	11.96	11.65	11.37	10.98	11.39	11.07	11.55	11.60	13.23	12.21
7	13.23	12.66	11.96	11.64	11.34	10.94	11.38	11.03	11.56	11.61	13.31	12.24
8	13.30	12.61	11.95	11.62	11.33	10.90	11.36	10.99	11.56	11.60	13.36	12.23
9	e13.38	12.57	11.94	11.61	11.33	10.88	11.33	10.95	11.57	11.60	13.38	12.23
10	e13.47	12.53	11.95	11.60	11.33	10.87	11.31	10.90	11.60	11.63	13.39	12.23
11	13.52	12.49	11.97	11.59	11.31	10.86	11.29	10.86	11.60	11.63	13.37	12.23
12	13.60	12.46	11.97	11.58	11.30	10.84	11.28	10.82	11.60	11.63	13.35	12.26
13	e13.67	12.43	11.97	11.57	11.29	10.81	11.25	10.78	11.58	11.64	13.28	12.39
14	e13.72	12.40	11.97	11.56	11.27	10.78	11.23	10.74	11.56	11.67	13.22	12.49
15	e13.70	12.37	11.97	11.56	11.27	10.76	11.21	10.70	11.54	11.71	13.15	12.52
16	13.65	12.34	11.95	11.55	11.25	10.74	11.19	10.67	11.52	11.73	13.11	12.51
17	13.60	12.32	11.94	11.54	11.23	10.72	11.15	10.63	11.50	11.79	13.02	12.51
18	13.56	12.29	11.92	11.53	11.21	10.74	11.11	10.60	11.49	11.92	12.93	12.54
19	13.51	12.27	11.90	11.52	11.19	11.06	11.07	10.56	11.47	11.98	12.85	12.63
20	13.46	12.25	11.88	11.52	11.18	11.47	11.04	10.53	11.45	12.00	12.78	12.71
21	13.42	12.22	11.87	11.51	11.17	11.48	11.01	10.51	11.43	12.13	12.71	12.76
22	13.38	12.19	11.86	11.51	11.15	11.46	10.98	10.49	11.43	12.15	12.65	12.80
23	13.33	12.17	11.84	11.50	11.13	11.44	10.95	10.95	11.50	12.37	12.62	12.82
24	13.31	12.15	11.83	11.50	11.11	11.42	10.92	11.38	11.59	12.63	12.58	12.84
25	13.27	12.12	11.81	11.48	11.09	11.40	10.90	11.36	11.61	12.67	12.53	12.86
26	13.24	12.11	11.80	11.47	11.07	11.37	10.87	11.55	11.62	12.72	12.48	12.87
27	13.20	12.09	11.79	11.47	11.05	11.35	10.84	11.55	11.63	12.74	12.44	12.93
28	13.15	12.08	11.78	11.46	11.03	11.33	10.81	11.55	11.64	12.75	12.42	13.04
29	13.10	12.07	11.77	11.45	---	11.35	10.80	11.55	11.65	12.73	12.40	13.36
30	13.05	12.05	11.75	11.45	---	11.36	10.78	11.54	11.65	12.72	12.37	13.43
31	13.01	---	11.73	11.45	---	11.36	---	11.53	---	12.69	12.34	---
TOTAL	411.17	372.23	369.06	358.31	315.05	343.61	334.68	340.44	346.63	372.01	400.08	377.00
MEAN	13.26	12.41	11.91	11.56	11.25	11.08	11.16	10.98	11.55	12.00	12.91	12.57
MAX	13.72	12.96	12.03	11.71	11.44	11.48	11.47	11.55	11.65	12.75	13.39	13.43
MIN	12.45	12.05	11.73	11.45	11.03	10.72	10.78	10.49	11.43	11.57	12.34	12.21

e Estimated

261200080275001 NORTH NEW RIVER CANAL AT S-11-B NEAR ANDYTOWN, FL

LOCATION.--Lat 26°12'08", long 80°27'13", in NE ¼ 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 bench mark).

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. Minimum extreme value for downstream stage was estimated because the well had gone dry. Estimation was based on downstream stage at S-11-A, using the averaging technique.

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, 7.66 ft (estimated), May 22, 2001. See REMARKS.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 13.67 ft Oct. 14; minimum, 9.67 ft May 22.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 11.68 ft Sept. 30; minimum, 7.66 ft (estimated), May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.46	12.84	12.00	e11.53	11.01	10.33	10.83	9.99	10.63	11.35	11.96	12.31
2	12.48	12.77	12.00	e11.50	10.99	10.30	10.83	9.98	10.69	11.35	12.15	12.29
3	12.65	12.70	11.99	e11.46	10.97	10.27	10.82	9.98	10.80	11.33	12.46	12.27
4	12.91	12.62	11.98	11.41	10.94	10.24	10.81	10.20	10.86	11.32	12.36	12.25
5	13.00	12.57	11.97	11.36	10.92	10.27	10.80	10.26	10.90	11.39	12.35	12.24
6	13.05	12.51	11.96	11.33	10.89	10.25	10.79	10.27	10.94	11.39	12.40	12.24
7	13.12	12.44	11.95	11.30	10.86	10.22	10.77	10.25	10.96	11.41	12.46	12.24
8	13.19	12.39	11.94	11.25	10.83	10.19	10.75	10.23	11.00	11.43	12.51	12.23
9	13.27	12.37	11.93	11.24	10.80	10.16	10.73	10.19	11.06	11.45	12.55	12.25
10	13.37	12.37	11.98	11.23	10.76	10.14	10.71	10.16	11.11	11.47	12.55	12.28
11	13.46	12.36	12.01	11.24	10.73	10.12	10.68	10.12	11.14	11.49	12.54	12.31
12	13.55	12.34	12.00	11.23	10.70	10.10	10.65	10.09	11.16	11.50	12.55	12.35
13	13.62	12.31	11.97	11.23	10.65	10.07	10.63	10.05	11.17	11.49	12.50	12.48
14	13.65	12.27	11.96	11.22	10.61	10.05	10.60	10.01	11.18	11.50	12.45	12.45
15	13.64	12.26	11.93	11.21	10.60	10.02	10.57	9.97	11.18	11.52	12.40	12.31
16	13.61	12.24	11.93	11.20	10.58	9.99	10.54	9.92	11.18	11.53	12.34	12.29
17	13.56	12.21	11.93	11.19	10.56	9.97	10.51	9.88	11.20	11.59	12.25	12.37
18	13.51	12.19	11.89	11.17	10.55	9.96	10.47	9.84	11.22	11.68	12.16	12.59
19	13.46	12.17	11.86	11.16	10.52	9.98	10.43	9.80	11.23	11.72	12.06	12.68
20	13.41	12.15	11.82	11.15	10.49	10.25	10.40	9.76	11.21	11.76	12.14	12.76
21	13.36	12.14	11.80	11.16	10.49	10.66	10.35	9.72	11.21	12.01	12.46	12.82
22	13.33	12.10	11.80	11.17	10.47	10.76	10.32	9.69	11.22	12.07	12.52	12.86
23	13.28	12.07	11.80	11.18	10.45	10.78	10.28	9.82	11.24	12.25	12.52	12.89
24	13.25	12.04	11.80	11.18	10.43	10.81	10.23	10.19	11.26	12.33	12.48	12.90
25	13.22	12.02	11.78	11.15	10.41	10.77	10.19	10.35	11.27	12.08	12.43	12.92
26	13.17	12.06	11.77	11.13	10.39	10.74	10.15	10.44	11.28	12.08	12.38	12.94
27	13.12	12.06	11.72	11.11	10.37	10.73	10.11	10.50	11.29	12.07	12.35	12.94
28	13.06	12.01	11.65	11.10	10.35	10.72	10.06	10.55	11.33	12.05	12.37	12.73
29	13.01	12.00	11.62	11.08	---	10.69	10.03	10.59	11.35	12.03	12.36	12.74
30	12.96	12.01	11.59	11.05	---	10.78	10.00	10.61	11.35	12.00	12.34	12.79
31	12.88	---	11.56	11.03	---	10.77	---	10.62	---	11.97	12.31	---
TOTAL	409.61	368.59	367.89	347.95	298.32	321.09	315.04	314.03	333.62	362.61	383.66	375.72
MEAN	13.21	12.29	11.87	11.22	10.65	10.36	10.50	10.13	11.12	11.70	12.38	12.52
MAX	13.65	12.84	12.01	11.53	11.01	10.81	10.83	10.62	11.35	12.33	12.55	12.94
MIN	12.46	12.00	11.56	11.03	10.35	9.96	10.00	9.69	10.63	11.32	11.96	12.23

e Estimated

261200080275001 NORTH NEW RIVER CANAL AT S-11-B NEAR ANDYTOWN, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.96	10.67	9.92	e9.58	9.19	8.62	8.66	e7.89	8.59	8.70	10.80	10.65
2	9.99	10.65	9.90	e9.54	9.17	8.61	8.59	e7.98	8.68	8.73	10.94	10.61
3	10.18	10.64	9.88	e9.53	9.14	8.60	8.57	8.00	8.73	8.72	11.21	10.57
4	10.47	10.63	9.87	9.53	9.14	8.58	8.53	8.40	8.67	8.67	11.35	10.54
5	10.52	10.61	9.87	9.53	9.10	8.60	8.50	8.33	8.65	8.73	11.39	10.52
6	10.59	10.59	9.85	9.52	9.08	8.57	8.49	8.25	8.63	8.72	11.42	10.50
7	10.71	10.58	9.83	9.50	9.06	8.53	8.46	8.11	8.63	8.71	11.44	10.52
8	10.73	10.54	9.81	9.50	9.02	8.50	8.42	8.15	8.70	8.73	11.46	10.50
9	10.75	10.51	9.79	9.46	9.01	8.50	8.39	8.07	8.70	8.79	11.47	10.51
10	10.76	10.45	9.82	9.47	9.01	8.47	8.38	8.04	8.65	8.83	11.49	10.56
11	10.76	10.41	9.90	9.45	8.99	8.45	8.35	8.10	8.67	9.02	11.50	10.63
12	10.75	10.38	9.86	9.44	8.96	8.44	8.29	e8.03	8.68	9.01	11.51	10.66
13	10.76	10.34	9.87	9.41	8.94	8.43	8.25	e7.98	8.65	9.01	11.50	10.71
14	10.77	10.32	9.84	9.40	8.93	8.37	8.21	e7.94	8.67	9.01	11.50	10.86
15	10.77	10.28	9.84	9.39	8.92	8.36	8.19	e7.89	8.67	9.10	11.50	11.00
16	10.76	10.26	9.83	9.37	8.91	8.34	8.14	e7.87	8.66	9.12	11.52	11.00
17	10.76	10.24	9.82	9.41	8.89	8.29	8.11	e7.83	8.59	9.19	11.48	10.94
18	10.76	10.20	9.80	9.37	8.83	8.28	e8.01	e7.81	8.61	9.22	11.45	10.82
19	10.76	10.19	9.82	9.38	8.79	8.43	e7.96	e7.77	8.55	9.28	11.42	10.79
20	10.76	10.16	9.77	9.37	8.79	8.76	e7.93	e7.73	8.51	9.29	11.34	10.74
21	10.75	10.11	9.74	9.34	8.78	8.71	e7.88	e7.67	8.52	9.45	11.17	10.71
22	10.74	10.08	9.74	9.37	8.77	8.71	e7.84	e7.66	8.66	9.61	11.10	10.67
23	10.74	10.06	9.70	9.35	8.74	8.57	e7.82	e7.92	8.73	9.88	11.09	10.63
24	10.74	10.04	9.67	9.33	8.71	8.54	e7.83	8.57	8.65	10.30	11.06	10.61
25	10.74	10.03	9.66	9.30	8.70	8.52	e7.89	8.72	8.70	10.56	11.01	10.59
26	10.73	10.01	9.63	9.33	8.68	8.49	e7.96	8.73	8.76	10.63	10.97	10.58
27	10.73	9.98	9.65	9.28	8.67	8.44	e7.94	8.75	8.76	10.69	10.92	10.69
28	10.72	9.99	9.67	9.25	8.66	8.42	e7.92	8.74	8.85	10.72	10.84	11.05
29	10.71	9.96	9.67	9.24	---	8.47	e7.90	8.67	8.85	10.73	10.78	11.55
30	10.70	9.93	9.63	9.24	---	e8.83	e7.86	8.56	8.74	10.75	10.75	11.66
31	10.69	---	9.59	9.21	---	8.81	---	8.58	---	10.76	10.70	---
TOTAL	330.26	308.84	303.24	291.39	249.58	264.24	245.27	252.74	260.11	292.66	348.08	322.37
MEAN	10.65	10.29	9.78	9.40	8.91	8.52	8.18	8.15	8.67	9.44	11.23	10.75
MAX	10.77	10.67	9.92	9.58	9.19	8.83	8.66	8.75	8.85	10.76	11.52	11.66
MIN	9.96	9.93	9.59	9.21	8.66	8.28	7.82	7.66	8.51	8.67	10.70	10.50

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261117080315201 SITE 63 IN CONSERVATION AREA 3A, NEAR ANDYTOWN, FL

LOCATION.--Lat 26°11'19", long 80°31'52", in SE ¼ 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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

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, 11.31 ft Sept. 30; minimum, 7.83 ft May 21.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.98	10.68	10.08	e9.66	9.34	8.94	9.10	8.44	9.20	9.11	10.43	10.65
2	10.01	10.66	10.07	e9.65	9.33	8.92	9.11	8.42	9.22	9.09	10.61	10.62
3	10.14	10.66	10.04	9.65	9.31	8.90	9.11	8.43	9.23	9.07	10.76	10.57
4	10.39	10.65	10.02	e9.64	9.30	8.90	9.11	8.76	9.22	9.06	10.89	10.53
5	10.45	10.63	10.01	e9.63	9.29	8.97	9.11	8.74	9.21	9.05	10.95	10.50
6	10.48	10.62	10.00	e9.62	9.27	8.94	9.11	8.69	9.20	9.04	11.00	10.48
7	10.57	10.61	9.98	e9.62	9.26	8.91	9.10	8.64	9.20	9.03	11.02	10.50
8	10.61	10.58	9.97	e9.60	9.25	8.88	9.09	8.59	9.21	9.03	11.05	10.50
9	10.64	10.57	9.95	e9.60	9.24	8.85	9.07	8.53	9.21	9.07	11.06	10.50
10	10.66	10.54	9.95	e9.60	9.23	8.84	9.06	8.47	9.21	9.17	11.08	10.55
11	10.66	10.50	9.95	e9.58	9.22	8.82	9.03	8.40	9.19	9.31	11.10	10.61
12	10.67	10.48	9.94	e9.57	9.20	8.79	9.01	8.33	9.16	9.34	11.11	10.62
13	10.69	10.46	9.93	e9.56	9.19	8.77	8.98	8.27	9.14	9.36	11.11	10.66
14	10.70	10.42	9.92	e9.54	9.18	8.75	8.95	8.21	9.12	9.40	11.11	10.73
15	10.70	10.38	e9.91	e9.52	9.16	8.73	8.92	8.16	9.10	9.47	11.13	10.78
16	10.70	10.36	e9.90	e9.52	9.15	8.71	8.88	8.12	9.10	9.47	11.18	10.80
17	10.70	10.35	9.87	e9.49	9.13	8.68	8.84	8.07	9.13	9.50	11.15	10.81
18	10.70	10.32	9.86	e9.47	9.12	8.75	8.79	8.02	9.16	9.57	11.13	10.79
19	10.71	10.30	e9.85	9.45	9.10	8.88	8.75	7.96	9.18	9.56	11.11	10.76
20	10.71	10.28	e9.83	9.46	9.09	9.02	8.71	e7.92	9.16	9.58	11.10	10.73
21	10.72	10.26	9.82	9.45	9.08	9.03	8.67	7.95	9.14	9.70	11.05	10.70
22	10.71	10.24	9.81	9.45	9.06	9.03	8.64	e8.82	9.15	9.76	11.02	10.67
23	10.71	10.22	9.79	9.45	9.04	9.03	8.61	e9.07	9.17	9.95	11.03	10.64
24	10.71	10.21	9.78	9.43	9.03	9.02	8.57	e9.07	9.16	10.09	10.98	10.60
25	10.71	10.20	9.77	9.42	9.01	9.01	8.53	9.08	9.15	10.12	10.93	10.58
26	10.71	10.17	9.75	9.41	9.00	8.99	8.49	9.18	9.13	10.19	10.89	10.57
27	10.71	10.14	e9.73	9.39	8.98	8.99	8.45	9.20	9.12	10.24	10.85	10.60
28	10.70	10.13	e9.72	9.38	8.96	8.97	8.40	9.23	9.12	10.28	10.80	10.74
29	10.70	e10.11	9.71	9.38	---	8.95	8.36	9.23	9.12	10.31	10.76	11.14
30	10.70	e10.11	9.69	9.36	---	9.00	8.34	9.23	9.11	10.35	10.73	11.28
31	10.69	---	9.66	9.35	---	9.00	---	9.21	---	10.37	10.68	---
TOTAL	328.64	311.84	306.26	294.90	256.52	275.97	264.89	266.44	274.92	296.64	339.80	320.21
MEAN	10.60	10.39	9.88	9.51	9.16	8.90	8.83	8.59	9.16	9.57	10.96	10.67
MAX	10.72	10.68	10.08	9.66	9.34	9.03	9.11	9.23	9.23	10.37	11.18	11.28
MIN	9.98	10.11	9.66	9.35	8.96	8.68	8.34	7.92	9.10	9.03	10.43	10.48

e Estimated

261150080270001 NORTH NEW RIVER CANAL AT S-11-A, NEAR ANDYTOWN, FL

LOCATION.--Lat 26°10'40", long 80°26'53", in SE ¼ 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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

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.

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, 7.65 ft May 22, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 13.65 ft Oct. 14; minimum, 9.64 ft May 22, 23.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 11.66 ft Sept. 30; minimum, 7.65 ft May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.45	12.81	12.01	11.53	11.00	10.30	10.81	9.96	10.60	11.32	11.95	12.27
2	12.46	12.75	12.00	11.50	10.98	10.28	10.81	9.96	10.66	11.31	12.13	12.26
3	12.64	12.67	12.00	11.46	10.97	10.24	10.79	9.96	10.77	11.30	12.45	12.23
4	12.91	12.60	11.99	11.43	10.94	10.22	10.78	10.17	10.83	11.29	12.34	12.21
5	13.00	12.54	11.98	11.37	10.92	10.26	10.77	10.24	10.87	11.36	12.33	12.20
6	13.05	12.48	11.96	11.33	10.89	10.23	10.76	10.24	10.91	11.36	12.37	12.20
7	13.12	e12.41	11.96	11.30	10.86	10.20	10.75	10.23	10.93	11.37	12.43	12.20
8	13.18	12.36	11.95	11.26	10.83	10.18	10.73	10.20	10.97	11.40	12.49	12.20
9	13.27	e12.36	11.94	11.25	10.79	10.14	10.70	10.17	11.03	11.42	12.53	12.22
10	e13.37	12.37	11.98	11.23	10.75	10.12	10.68	10.14	11.08	11.44	12.53	12.24
11	e13.46	12.37	12.02	11.24	10.72	10.10	10.65	10.10	11.11	11.46	12.52	12.27
12	13.54	12.34	12.01	11.24	10.68	10.08	10.62	10.06	11.12	11.46	12.53	12.32
13	13.61	12.31	11.98	11.24	10.63	10.05	10.60	10.02	11.13	11.46	12.48	12.45
14	13.63	12.27	11.96	11.22	10.59	10.03	10.57	9.98	11.14	11.46	12.43	12.40
15	13.62	12.26	11.94	11.22	10.58	10.00	10.54	9.94	11.14	11.49	12.38	12.27
16	13.59	12.24	11.93	11.21	10.56	9.97	10.51	9.90	11.14	11.50	12.32	12.26
17	13.54	12.21	11.93	11.19	10.54	9.95	10.48	9.86	11.16	11.56	12.23	12.33
18	e13.49	12.19	11.90	11.17	10.53	9.94	10.45	9.81	11.19	11.64	12.14	12.55
19	13.44	12.17	11.87	11.15	10.50	9.97	10.41	9.77	11.19	11.70	12.04	12.64
20	13.38	12.16	11.83	11.16	10.48	10.22	10.37	9.73	11.18	11.73	12.11	12.72
21	13.34	12.15	11.81	11.18	10.47	10.64	10.33	9.69	11.17	11.98	12.44	12.78
22	13.30	12.11	11.81	11.18	10.45	10.74	10.29	9.66	11.19	12.03	12.49	12.83
23	13.26	12.08	11.81	11.18	10.43	10.77	10.25	9.79	11.21	12.21	12.49	12.86
24	13.23	12.04	11.81	11.17	10.41	10.79	10.20	10.16	11.22	12.30	12.45	12.86
25	13.19	12.03	11.79	11.15	10.39	10.75	10.16	10.32	11.24	12.05	12.40	12.89
26	13.15	12.06	11.77	11.13	10.37	10.72	10.13	10.41	11.25	12.05	12.35	12.91
27	13.10	12.07	11.72	11.11	10.35	10.71	10.09	10.47	11.26	12.03	12.31	12.91
28	13.04	12.02	11.66	11.09	10.33	10.70	10.04	10.52	11.30	12.02	12.33	12.71
29	12.98	12.01	11.63	11.07	---	10.65	10.00	10.55	11.32	12.00	12.33	12.72
30	12.93	12.02	11.60	11.04	---	e10.75	9.98	10.57	11.32	11.98	12.31	12.77
31	12.86	---	11.57	11.02	---	10.74	---	10.59	---	11.95	12.28	---
TOTAL	409.13	368.46	368.12	348.02	297.94	320.44	314.25	313.17	332.63	361.63	382.91	374.68
MEAN	13.20	12.28	11.87	11.23	10.64	10.34	10.48	10.10	11.09	11.67	12.35	12.49
MAX	13.63	12.81	12.02	11.53	11.00	10.79	10.81	10.59	11.32	12.30	12.53	12.91
MIN	12.45	12.01	11.57	11.02	10.33	9.94	9.98	9.66	10.60	11.29	11.95	12.20

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261150080270001 NORTH NEW RIVER CANAL AT S-11-A, NEAR ANDYTOWN, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.98	10.70	9.95	9.62	9.23	8.67	8.70	7.92	8.60	8.70	10.65	10.65
2	10.01	10.69	9.93	9.58	9.21	8.65	8.63	8.01	8.69	8.74	10.83	10.62
3	10.20	10.68	9.92	9.57	9.18	8.64	8.61	8.00	8.74	8.73	11.09	10.57
4	10.50	10.66	9.91	9.57	9.18	8.62	8.58	8.44	8.67	8.67	11.25	10.55
5	10.55	e10.64	9.91	9.57	9.14	8.64	8.55	8.38	8.65	8.73	11.30	10.53
6	10.62	e10.63	9.89	9.55	9.12	8.61	8.54	8.29	8.63	8.72	11.33	10.51
7	10.73	e10.61	9.87	9.54	9.09	8.58	8.51	8.15	8.64	8.71	11.35	10.53
8	10.76	10.58	9.85	9.53	9.06	8.55	8.46	8.19	8.71	8.73	11.37	10.51
9	10.78	e10.54	9.83	9.50	9.04	8.55	8.44	8.10	8.71	8.80	11.39	10.53
10	10.78	10.48	9.86	9.51	9.04	8.51	8.43	8.07	8.66	8.84	11.40	10.57
11	10.78	10.44	9.93	9.48	9.03	8.50	8.39	8.14	8.68	9.00	11.41	10.63
12	10.78	10.40	9.90	9.48	9.00	8.48	8.34	8.05	8.69	9.01	11.42	10.67
13	10.79	10.37	9.91	9.45	8.98	8.48	8.29	8.00	8.66	9.00	11.41	10.73
14	10.80	10.34	9.88	9.43	8.97	8.42	8.25	7.96	8.68	9.01	11.41	10.87
15	10.80	10.31	9.88	9.42	8.96	8.40	8.23	7.91	8.67	9.09	11.42	10.98
16	10.80	10.30	9.86	9.41	8.94	8.38	8.17	7.89	8.66	9.12	11.44	10.97
17	10.79	10.27	9.86	9.44	8.93	8.33	8.12	7.85	8.59	9.18	11.40	10.92
18	e10.80	10.24	9.84	9.41	8.87	8.33	8.04	7.83	8.62	9.27	11.37	10.82
19	10.80	10.22	9.85	9.41	8.84	8.47	7.99	7.79	8.55	9.28	11.35	10.79
20	10.80	10.19	9.81	9.41	8.83	8.80	7.96	7.75	8.52	9.29	11.27	10.76
21	10.79	10.15	9.78	9.37	8.82	8.74	7.91	7.69	8.53	9.41	11.12	10.72
22	10.78	10.12	9.78	9.40	8.81	8.75	7.87	7.68	8.66	9.58	11.07	10.69
23	10.77	10.09	9.74	9.39	8.78	8.61	7.85	7.94	8.73	9.80	11.07	10.65
24	10.77	10.07	9.71	9.37	8.75	8.59	7.86	8.61	8.65	10.14	11.03	10.63
25	10.77	10.06	9.69	9.34	8.75	8.56	7.92	8.73	8.70	10.35	10.98	10.61
26	10.77	10.05	9.67	9.36	8.72	8.54	7.99	8.73	8.76	10.44	10.94	10.60
27	10.77	10.02	9.68	9.32	8.71	8.49	7.97	8.75	8.76	10.49	10.89	10.71
28	10.75	10.03	9.70	9.29	8.70	8.47	7.95	8.76	8.86	10.53	10.82	11.03
29	10.74	10.00	9.71	9.28	---	8.51	7.93	8.68	8.86	10.55	10.78	11.53
30	10.73	9.97	9.67	9.27	---	e8.85	7.89	8.57	8.74	10.58	10.75	11.65
31	10.72	---	9.63	9.25	---	8.84	---	8.59	---	10.59	10.70	---
TOTAL	331.21	309.85	304.40	292.52	250.68	265.56	246.37	253.45	260.27	291.08	346.01	322.53
MEAN	10.68	10.33	9.82	9.44	8.95	8.57	8.21	8.18	8.68	9.39	11.16	10.75
MAX	10.80	10.70	9.95	9.62	9.23	8.85	8.70	8.76	8.86	10.59	11.44	11.65
MIN	9.98	9.97	9.63	9.25	8.70	8.33	7.85	7.68	8.52	8.67	10.65	10.51

e Estimated

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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

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, 12.01 ft Sept. 30, minimum, 8.79 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.32	11.47	10.80	10.46	10.28	9.38	10.45	9.40	10.28	10.16	11.36	10.99
2	11.33	11.45	10.78	10.45	10.26	9.35	10.43	9.38	10.32	10.16	11.45	10.95
3	11.41	11.41	10.76	10.44	10.24	9.30	10.40	9.48	10.32	10.16	11.50	10.93
4	11.60	11.39	10.74	10.43	10.24	9.34	10.38	10.03	10.32	10.25	11.54	10.91
5	11.67	11.35	10.72	10.42	10.23	9.64	10.36	10.04	10.31	10.44	11.55	10.89
6	11.73	11.32	10.70	10.41	10.21	9.55	10.36	9.98	10.31	10.44	11.52	10.93
7	11.80	11.31	10.70	10.40	10.20	9.47	10.36	9.91	10.30	10.44	11.51	11.00
8	11.83	11.28	10.68	10.39	10.19	9.41	10.34	9.83	10.28	10.50	11.48	10.99
9	11.86	11.27	10.66	10.38	10.18	9.35	10.32	9.75	10.27	10.60	11.47	11.06
10	11.88	11.25	10.67	10.38	10.15	9.31	10.30	9.67	10.29	10.64	11.44	11.12
11	11.91	11.22	10.68	10.37	10.13	9.27	10.28	9.59	10.27	10.71	11.42	11.15
12	11.93	11.19	10.69	10.36	10.11	9.23	10.26	9.51	10.25	10.72	11.39	11.17
13	11.94	11.17	10.72	10.36	10.09	9.18	10.24	9.43	10.23	10.73	11.37	11.21
14	11.94	11.15	10.71	10.35	10.07	9.14	10.22	9.35	10.24	10.74	11.34	11.32
15	11.94	11.13	10.69	10.35	10.03	9.10	10.20	9.27	10.23	10.78	11.32	11.38
16	11.93	11.10	10.67	10.33	10.01	9.05	10.17	9.21	10.21	10.76	11.30	11.37
17	11.91	11.07	10.66	10.33	9.98	9.01	10.13	9.12	10.19	10.78	11.27	11.36
18	11.89	11.06	10.64	10.32	9.95	9.61	10.08	9.04	10.18	10.89	11.26	11.43
19	11.86	11.03	10.62	10.31	9.89	10.15	10.02	8.97	10.16	10.94	11.24	11.47
20	11.83	11.01	10.60	10.31	9.85	10.41	9.95	8.90	10.13	10.96	11.21	11.45
21	11.80	10.99	10.59	10.33	9.82	10.41	9.88	8.84	10.10	10.98	11.20	11.44
22	11.77	10.97	10.58	10.33	9.78	e10.41	9.80	8.82	10.11	11.10	11.21	11.42
23	11.75	10.94	10.56	10.35	9.73	e10.42	9.73	9.46	10.15	11.20	11.21	11.42
24	11.73	10.92	10.56	10.34	9.66	10.39	9.67	10.25	10.17	11.35	11.18	11.42
25	11.71	10.90	10.54	10.33	9.64	10.38	9.60	10.28	10.16	11.38	11.17	11.42
26	11.68	10.89	10.53	10.32	e9.59	10.36	9.54	10.30	10.17	11.41	11.13	11.46
27	11.64	10.87	10.52	10.32	e9.52	10.34	9.48	10.29	10.17	11.42	11.10	11.58
28	11.60	10.85	10.50	10.31	e9.42	10.32	9.42	10.28	10.17	11.40	11.09	11.66
29	11.57	10.83	10.50	10.29	---	10.31	9.38	10.27	10.16	11.35	11.05	11.92
30	11.54	10.81	10.49	10.27	---	10.36	9.35	10.26	10.15	11.34	11.02	12.00
31	11.50	---	10.47	10.27	---	10.36	---	10.26	---	11.30	11.00	---
TOTAL	363.80	333.60	329.73	321.01	279.45	302.31	301.10	299.17	306.60	336.03	350.30	338.82
MEAN	11.74	11.12	10.64	10.36	9.98	9.75	10.04	9.65	10.22	10.84	11.30	11.29
MAX	11.94	11.47	10.80	10.46	10.28	10.42	10.45	10.30	10.32	11.42	11.55	12.00
MIN	11.32	10.81	10.47	10.27	9.42	9.01	9.35	8.82	10.10	10.16	11.00	10.89

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 present.

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

REMARKS.--Land-surface datum is 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.

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, 10.85 ft Nov. 7-11; minimum, 5.87 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.77	10.80	10.48	10.02	9.46	8.74	8.03	6.41	7.65	7.20	8.91	10.25
2	9.77	10.81	10.45	10.00	9.44	8.71	8.00	6.46	7.65	7.15	9.14	10.22
3	9.96	10.82	10.44	9.98	9.42	8.68	7.96	6.49	7.68	7.10	9.59	10.20
4	e10.22	10.83	10.42	9.96	9.40	8.65	7.93	6.91	7.69	7.06	9.83	10.21
5	e10.26	10.84	10.39	9.94	9.38	8.66	7.89	7.03	7.69	7.08	9.93	10.19
6	e10.27	10.84	10.37	9.92	9.35	8.64	7.85	7.06	7.71	7.02	9.97	10.21
7	10.33	10.85	10.35	9.90	9.33	8.59	7.81	7.05	7.71	6.97	10.00	10.21
8	10.33	10.85	10.33	9.88	9.30	8.56	7.77	7.03	7.69	6.92	10.01	10.21
9	10.35	10.85	10.31	9.87	9.28	8.51	7.72	6.99	7.67	6.86	10.01	10.21
10	10.35	10.85	10.37	9.84	9.26	8.48	7.67	6.96	7.64	6.85	10.03	10.20
11	10.37	10.85	10.42	9.82	9.23	8.45	7.61	6.91	7.64	6.84	10.07	10.22
12	10.39	10.84	10.41	9.80	9.21	8.42	7.55	6.85	7.69	6.79	10.13	10.25
13	10.42	10.83	10.40	9.79	9.18	8.39	7.50	6.78	7.68	6.73	10.16	10.36
14	10.43	10.83	10.38	9.76	9.16	8.35	7.45	6.71	7.64	6.69	10.20	10.41
15	10.46	10.82	10.36	9.74	9.13	8.31	7.39	6.65	7.60	6.71	10.23	10.43
16	10.48	10.79	10.34	9.73	9.11	8.27	7.33	6.60	7.56	6.77	10.26	10.43
17	10.50	10.77	10.33	9.71	9.08	8.24	7.27	6.54	7.54	6.79	10.29	10.41
18	10.53	10.75	10.30	9.68	9.06	8.20	7.19	6.48	7.50	6.82	10.29	10.38
19	10.55	10.72	10.28	9.66	9.02	8.20	7.11	6.36	7.45	6.86	10.29	10.36
20	10.58	10.71	10.26	9.67	9.00	8.27	7.04	6.19	7.39	6.89	10.30	10.34
21	10.60	10.69	10.23	9.67	8.98	8.24	6.96	6.02	7.34	7.05	10.30	10.31
22	10.62	10.65	10.21	9.65	8.95	8.21	6.88	5.92	7.36	7.37	10.30	10.29
23	10.65	10.62	10.19	9.65	8.92	8.16	6.82	6.36	7.40	7.75	10.31	10.26
24	10.67	10.59	10.18	9.62	8.89	8.12	6.75	6.97	7.38	8.24	10.32	10.25
25	10.70	10.59	10.16	9.60	8.86	8.09	6.70	7.33	7.35	8.54	10.32	10.27
26	10.72	10.58	10.14	9.57	8.84	8.05	6.64	7.48	7.31	8.71	10.32	10.26
27	10.74	10.56	10.12	9.56	8.81	8.01	6.57	7.56	7.28	8.79	10.32	10.30
28	10.75	10.54	10.10	9.54	8.78	7.96	6.51	7.61	7.26	8.84	10.32	10.35
29	10.76	10.52	10.09	9.51	---	7.91	6.46	7.65	7.26	8.85	10.30	10.65
30	10.77	10.50	10.07	9.49	---	8.03	6.36	7.66	7.24	8.87	10.30	10.73
31	10.78	---	10.04	9.48	---	8.03	---	7.66	---	8.88	10.29	---
TOTAL	324.08	322.09	318.92	302.01	255.83	258.13	218.72	212.68	225.65	229.99	313.04	309.37
MEAN	10.45	10.74	10.29	9.74	9.14	8.33	7.29	6.86	7.52	7.42	10.10	10.31
MAX	10.78	10.85	10.48	10.02	9.46	8.74	8.03	7.66	7.71	8.88	10.32	10.73
MIN	9.77	10.50	10.04	9.48	8.78	7.91	6.36	5.92	7.24	6.69	8.91	10.19

e Estimated

02286100 SOUTH NEW RIVER CANAL AT S-13, NEAR DAVIE, FL

LOCATION.--Lat 26°03'57", long 80°12'32", in SW ¼ sec.25, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, 18 ft from north bank, 150 ft upstream from pump station S-13, 300 ft west of U.S. Highway 441, and 1.5 mi east of Davie.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to current year.

REVISED RECORDS.--WDR FL-87-2A:1962-86 (maximum daily reverse flow); WDR FL-95-2A:1994; WDR FL-99-2A:1996-98.

GAGE.--Water-stage recorders upstream and downstream and gate-opening recorder. Prior to September 30, 1984, deflection vane and prior to September 30, 1985, electromagnetic velocity meter at same site. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is affected by tide and is occasionally reversed. Negative figures indicate reverse flow. Flow is regulated by pumpage and operation of gate at S-13. Flow is affected by regulation of control-structure 13A, 5 mi upstream, and by upstream withdrawals from the canal during the growing season and pumpage into the canal during high water. Discharge is computed from relation between head and gate-opening at S-13. The discharge published represents gate discharge computed by U.S. Geological Survey combined with pump discharge computed by South Florida Water Management District unless otherwise noted. The South Florida Water Management District determined that the previous rating used to compute pump discharge needed revision. The pump rating was revised during 1999. They revised their pump discharge for the water years 1995 through 1999. Prior to 1995 the accuracy of the pump discharge combined with our gate discharge can not be determined. Downstream stage is basically tidal, but at times is affected by gate operation and pumping at S-13. The downstream stage record published is the maximum and minimum tide event for each calendar day. Prior to 1998 tidal stages were published under station number 02286101.

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

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 34 complete water years of discharge (1958-86, 1988, 1990, 1999-2001).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 5.04 ft Oct. 15, 1999; minimum, -0.79 ft July 14, 1961.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.81 ft Oct. 03; minimum, 0.03 ft Sept. 13.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 4.33 ft Oct. 15, 1999; minimum, -1.97 ft Apr. 28, 1963.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.36 ft Oct. 04; minimum -1.23 ft Feb. 6.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.92	1.71	e1.54	1.55	1.62	1.89	1.95	1.90	1.59	1.54	1.58	1.64
2	1.83	1.79	e1.55	1.57	1.58	1.87	1.96	1.91	1.57	1.55	1.28	1.67
3	1.89	1.64	e1.54	1.56	1.54	1.86	1.99	1.97	1.57	1.55	.52	1.58
4	3.36	1.83	e1.57	1.51	1.61	1.86	1.99	1.91	1.57	1.55	.65	1.58
5	2.41	1.98	e1.56	1.57	1.56	1.98	1.95	1.68	1.56	1.54	.44	1.61
6	2.05	1.70	e1.59	1.58	1.58	1.99	1.99	1.65	1.56	1.56	.40	1.58
7	1.88	1.62	e1.61	1.59	1.57	1.97	1.96	1.64	1.50	1.55	.63	1.60
8	1.31	1.63	e1.63	1.58	1.57	1.95	1.98	1.63	1.60	1.55	1.51	1.61
9	.61	1.56	e1.59	1.57	1.56	1.94	2.01	1.62	1.57	1.55	1.50	1.63
10	.44	1.63	e1.66	1.57	1.77	1.95	1.99	1.61	1.59	1.55	1.31	1.59
11	.38	1.59	e1.65	1.57	1.85	1.96	1.96	1.56	1.59	1.55	.21	1.57
12	.83	1.60	e1.59	1.58	1.89	1.96	1.99	1.57	1.58	1.55	.28	.96
13	1.78	1.59	e1.57	1.57	1.92	1.97	1.99	1.60	1.59	1.54	.53	.52
14	1.76	1.61	e1.56	1.58	1.94	1.96	2.06	1.61	1.60	1.54	1.55	.23
15	1.65	1.61	e1.56	1.57	1.95	1.93	2.01	1.60	1.57	1.56	1.54	.67
16	1.56	1.60	e1.58	1.56	1.96	1.92	2.06	1.57	1.58	1.55	1.59	1.61
17	1.64	1.61	e1.54	1.57	1.97	1.91	2.10	1.55	1.56	1.54	1.54	1.66
18	1.75	1.62	e1.55	1.57	1.97	1.98	2.09	1.61	1.57	1.54	1.54	1.74
19	1.74	1.61	e1.55	1.59	1.95	1.85	2.06	1.61	1.56	1.56	1.55	1.99
20	1.73	1.58	e1.55	1.57	1.94	1.83	2.04	1.59	1.57	1.56	1.55	1.94
21	1.72	1.58	1.56	1.77	1.95	1.95	2.02	1.60	1.53	1.58	1.56	1.61
22	1.71	1.58	1.56	1.81	1.94	1.96	2.00	1.60	1.57	1.61	1.58	1.62
23	1.69	1.60	1.55	1.54	1.93	1.96	1.98	1.65	1.56	1.58	1.63	1.63
24	1.71	1.59	1.56	1.57	1.92	1.97	1.98	1.64	1.55	1.56	1.69	1.62
25	1.71	e1.62	1.55	1.57	1.91	1.97	1.96	1.62	1.56	1.56	1.61	1.60
26	1.62	e1.53	1.53	1.53	1.90	2.00	1.94	1.58	1.56	1.56	1.62	1.56
27	1.14	e1.56	1.59	1.56	1.91	2.04	1.93	1.57	1.54	1.54	1.59	1.02
28	1.69	e1.58	1.54	1.54	1.90	2.02	1.90	1.57	1.56	1.54	1.60	.17
29	1.97	e1.54	1.57	1.55	---	1.98	1.88	1.57	1.57	1.55	1.52	1.48
30	2.06	e1.55	1.52	1.52	---	1.94	1.88	1.58	1.55	1.55	1.58	1.22
31	1.60	---	1.54	1.60	---	1.94	---	1.58	---	1.55	1.58	---
TOTAL	51.14	48.84	48.61	48.94	50.66	60.26	59.60	50.95	47.01	48.16	39.26	42.51
MEAN	1.65	1.63	1.57	1.58	1.81	1.94	1.99	1.64	1.57	1.55	1.27	1.42
MAX	3.36	1.98	1.66	1.81	1.97	2.04	2.10	1.97	1.60	1.61	1.69	1.99
MIN	.38	1.53	1.52	1.51	1.54	1.83	1.88	1.55	1.50	1.54	.21	.17

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286100 SOUTH NEW RIVER CANAL AT S-13, NEAR DAVIE, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.67	1.38	.62	.41	-.05	.24	.19	.64	.57	.51	.71	.65
2	1.70	1.28	.58	.41	-.18	.27	.09	.89	.63	.55	1.36	.69
3	2.43	1.25	.62	.42	-.12	.29	.08	.95	.46	.54	1.39	.75
4	2.81	1.25	.71	.53	-.04	.27	.14	1.21	.33	.40	1.36	.72
5	2.06	1.41	1.03	.56	-.07	.17	.35	1.20	.17	.46	1.17	.62
6	1.84	1.51	1.36	.54	-.02	.29	.40	1.15	.00	.56	.94	.59
7	1.85	1.28	1.21	.54	.12	.43	.36	1.14	-.01	.55	.66	.79
8	1.76	1.36	1.15	.55	.08	.63	.26	1.08	-.05	.62	.67	1.11
9	1.89	1.30	.99	.38	.10	.74	.31	.99	.09	.73	.65	1.09
10	2.20	1.25	1.22	.27	-.10	.77	.43	.92	.16	.73	.71	.94
11	2.06	1.27	1.24	.34	-.05	.76	.55	.92	.29	.80	.73	.85
12	1.95	1.27	1.02	.41	.00	.60	.49	.84	.26	.76	.75	1.16
13	1.89	1.14	.96	.76	-.06	.35	.32	.84	.17	.58	.68	1.65
14	1.81	1.02	.81	.75	-.19	.11	.28	.73	.20	.60	.73	1.66
15	1.72	1.00	.78	.70	-.10	.07	.46	.77	.16	.73	.80	1.38
16	1.64	1.01	.86	.64	-.02	-.02	.55	.73	.13	.67	.90	1.37
17	1.64	.96	.69	.57	.15	-.10	.60	.78	.09	.51	.78	1.62
18	1.57	.89	.60	e.71	.19	.04	.45	.68	.21	.52	.73	1.64
19	1.55	.89	.55	.47	.40	.54	.45	.66	.27	.66	.75	1.53
20	1.53	.80	.34	.19	.17	.66	.50	.86	.24	.69	.63	1.48
21	1.48	.83	.45	-.17	.23	.49	.39	1.04	.31	.87	.63	1.49
22	1.56	.84	.48	-.08	.39	.45	.22	.88	.39	1.00	.61	1.30
23	1.58	.89	.70	.01	.39	.58	.23	1.01	.51	.88	.51	1.21
24	1.66	.88	.79	.20	.41	.60	.22	1.04	.53	.80	.42	1.17
25	1.81	.89	.81	.28	.32	.46	.05	.89	.60	.64	.31	1.05
26	1.89	.79	.80	.35	.29	.36	.07	.72	.61	.62	.35	.90
27	1.82	.64	.69	.47	.23	.30	.13	.63	.51	.45	.38	1.04
28	1.57	.60	.72	.40	.31	.34	.33	.61	.60	.36	.39	1.27
29	1.49	.63	.69	.43	---	.38	.39	.69	.66	.45	.60	2.09
30	1.28	.59	.55	.37	---	.28	.56	.62	.63	.40	.68	2.13
31	1.31	---	.40	.25	---	.08	---	.58	---	.48	.70	---
TOTAL	55.02	31.10	24.42	12.66	2.87	11.43	9.85	26.69	9.72	19.12	22.68	35.94
MEAN	1.77	1.04	.79	.41	.10	.37	.33	.86	.32	.62	.73	1.20
MAX	2.81	1.51	1.36	.76	.41	.77	.60	1.21	.66	1.00	1.39	2.13
MIN	1.28	.59	.34	-.17	-.19	-.10	.05	.58	-.05	.36	.31	.59

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.60 ft Oct. 15, 1999; minimum, 6.66 ft June 3, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.52 ft Sept. 29; minimum, 5.39 ft May 22, 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.59	7.68	7.49	7.39	7.31	7.10	6.99	5.86	6.69	7.06	e7.20	7.65
2	7.58	7.67	7.49	7.39	7.30	7.09	6.97	5.94	6.78	7.05	e7.37	7.64
3	7.72	7.66	7.48	7.39	7.29	7.08	6.95	6.01	6.83	7.03	e7.46	7.63
4	7.94	7.65	7.47	7.39	7.29	7.08	6.92	6.26	6.87	7.03	e7.60	7.66
5	7.94	7.64	7.47	7.39	7.28	7.12	6.90	6.21	6.90	7.04	e7.64	7.65
6	7.98	7.63	7.47	7.39	7.27	7.11	6.89	6.16	6.91	7.03	e7.63	7.65
7	8.00	7.63	7.46	7.38	7.26	7.10	6.89	6.10	6.92	7.07	7.62	7.64
8	7.98	7.62	7.46	7.38	7.26	7.09	6.86	6.05	6.96	7.12	7.61	7.64
9	7.97	7.61	7.45	7.37	7.25	7.07	6.82	6.00	6.98	7.10	7.61	7.66
10	7.95	7.61	7.47	7.37	7.25	7.07	6.79	5.94	6.97	7.10	7.62	7.70
11	7.93	7.60	7.49	7.37	7.24	7.07	6.75	5.89	6.96	7.08	7.65	7.77
12	7.91	7.59	7.49	7.36	7.23	7.05	6.72	5.84	6.97	7.08	7.67	7.80
13	7.91	7.58	7.48	7.36	7.22	7.04	6.68	5.80	7.00	7.07	7.67	7.94
14	7.89	7.57	7.47	7.35	7.21	7.02	6.64	5.75	6.98	7.07	7.68	8.03
15	7.87	7.57	7.47	7.35	7.21	7.00	6.60	5.70	6.98	7.11	7.72	8.07
16	7.85	7.56	7.46	7.35	7.21	6.98	6.56	5.66	6.96	7.11	7.75	8.05
17	7.84	7.55	7.46	7.35	7.20	e6.98	6.51	5.61	6.96	7.11	7.73	8.04
18	7.82	7.55	7.45	7.35	7.19	e7.03	6.45	5.57	6.95	7.12	7.72	8.03
19	7.81	7.55	7.45	7.34	7.18	e7.07	6.40	5.52	6.94	7.11	7.72	8.01
20	7.79	7.54	7.45	7.36	7.17	e7.14	6.33	5.49	6.94	e7.10	7.74	8.00
21	7.79	7.54	7.44	7.36	7.17	e7.10	6.27	5.44	6.93	e7.13	7.75	7.98
22	7.77	7.53	7.43	7.36	7.16	e7.07	6.22	5.41	6.95	e7.31	7.75	7.96
23	7.76	7.52	7.43	7.35	7.15	7.05	6.16	5.89	6.99	e7.26	7.76	7.94
24	7.75	7.52	7.43	7.35	7.15	7.02	6.11	6.57	7.01	e7.24	7.75	e7.93
25	7.75	7.52	7.43	7.34	7.14	7.00	6.06	6.55	7.03	e7.22	7.73	e8.01
26	7.74	7.52	7.42	7.34	7.13	6.97	6.01	6.52	7.05	e7.21	7.72	e8.00
27	7.72	7.51	7.42	7.33	7.12	6.94	5.96	6.56	7.08	e7.20	7.70	e8.05
28	7.71	7.51	7.41	7.33	7.11	6.90	5.91	6.65	7.17	e7.18	7.69	e8.10
29	7.70	7.50	7.41	7.33	---	6.87	5.87	6.63	7.11	e7.17	7.68	e8.38
30	7.69	7.49	7.41	7.32	---	7.03	5.82	6.63	7.08	e7.15	7.67	e8.43
31	7.69	---	7.40	7.31	---	7.00	---	6.64	---	e7.14	7.66	---
TOTAL	242.34	227.22	231.01	228.10	201.95	218.24	195.01	186.85	208.85	220.80	237.27	237.04
MEAN	7.82	7.57	7.45	7.36	7.21	7.04	6.50	6.03	6.96	7.12	7.65	7.90
MAX	8.00	7.68	7.49	7.39	7.31	7.14	6.99	6.65	7.17	7.31	7.76	8.43
MIN	7.58	7.49	7.40	7.31	7.11	6.87	5.82	5.41	6.69	7.03	7.20	7.63

e Estimated

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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.81 ft Nov. 02, 1999; minimum, 8.23 ft May 31, 1992.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.99 ft Sept. 30; minimum, 8.28 ft May 22, 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.04	10.48	10.14	9.85	9.52	9.15	9.17	8.72	8.95	9.16	9.85	10.39
2	10.08	10.47	10.13	9.83	9.51	9.14	9.17	8.74	e8.95	9.15	9.99	10.38
3	10.21	10.46	10.12	9.81	9.49	9.13	9.16	8.73	e8.96	9.13	10.13	10.36
4	10.40	10.45	10.11	9.81	9.48	9.11	9.14	8.75	e8.96	9.11	10.22	10.35
5	10.41	10.45	10.10	9.80	9.46	9.12	9.13	8.74	e8.94	9.14	10.25	10.35
6	10.43	10.44	10.09	9.79	9.44	9.10	9.12	8.71	e8.93	9.13	10.29	10.33
7	10.50	10.43	10.07	9.77	9.43	9.09	9.12	8.68	e8.94	9.14	10.32	10.31
8	10.50	10.41	10.07	9.77	9.41	9.08	9.10	8.65	e9.20	9.17	10.35	10.30
9	10.50	10.41	10.05	9.75	9.40	9.07	9.08	8.63	9.21	9.21	10.36	10.32
10	10.50	10.40	10.05	9.73	9.39	9.06	9.07	8.60	9.18	9.25	10.38	10.36
11	10.50	10.39	10.05	9.72	9.38	9.06	9.05	8.58	9.15	9.24	10.39	10.39
12	10.50	10.38	10.05	9.71	9.37	9.06	9.03	8.55	9.12	9.24	10.41	10.46
13	10.50	10.37	10.05	9.70	9.35	9.05	9.02	8.53	9.11	9.23	10.41	10.55
14	10.50	10.36	10.04	9.69	9.34	9.02	9.00	8.51	9.13	9.26	10.42	10.58
15	10.49	10.34	10.04	9.68	9.33	9.01	8.98	8.48	9.11	9.39	10.43	10.59
16	10.49	10.33	10.03	9.66	9.32	9.00	e8.96	8.45	9.09	9.40	10.46	10.58
17	10.49	10.32	10.03	9.65	9.31	8.99	e8.94	8.42	9.07	9.39	10.47	10.57
18	10.49	10.30	10.01	9.65	9.30	9.05	e8.92	8.38	9.05	9.38	10.48	10.58
19	10.49	10.29	10.00	9.64	9.28	9.17	e8.89	8.35	9.04	9.38	10.48	10.59
20	10.49	10.29	9.97	9.64	9.26	9.21	e8.87	8.33	9.03	9.38	10.49	10.57
21	10.50	10.26	9.97	9.64	9.25	9.20	8.86	8.30	9.01	9.39	10.49	10.56
22	10.49	10.24	9.96	9.63	9.23	9.18	8.84	8.29	9.01	9.45	10.52	10.55
23	10.49	10.22	9.94	9.61	9.22	9.16	8.82	8.52	9.05	9.57	10.54	10.53
24	10.49	10.21	9.94	9.60	9.21	9.15	8.81	8.74	9.11	9.63	10.54	10.52
25	10.50	10.20	9.93	9.58	9.20	9.14	8.79	8.73	9.13	9.65	10.53	10.52
26	10.49	10.19	9.92	9.57	9.19	9.12	8.78	8.79	9.15	9.68	10.52	10.53
27	10.49	10.18	9.91	9.56	9.18	9.11	8.76	8.97	9.16	9.70	10.50	10.55
28	10.49	10.17	9.91	9.55	9.17	9.10	8.74	8.98	9.21	9.71	10.48	10.58
29	10.49	10.15	9.90	9.54	---	9.10	8.73	8.97	9.20	9.72	10.45	10.90
30	10.49	10.14	9.88	9.54	---	9.19	8.71	8.96	9.19	9.74	10.43	10.98
31	10.48	---	9.87	9.53	---	9.19	---	8.95	---	9.76	10.41	---
TOTAL	323.91	309.73	310.33	300.00	261.42	282.31	268.76	267.73	272.34	290.88	321.99	315.13
MEAN	10.45	10.32	10.01	9.68	9.34	9.11	8.96	8.64	9.08	9.38	10.39	10.50
MAX	10.50	10.48	10.14	9.85	9.52	9.21	9.17	8.98	9.21	9.76	10.54	10.98
MIN	10.04	10.14	9.87	9.53	9.17	8.99	8.71	8.29	8.93	9.11	9.85	10.30

e Estimated

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 with tipping bucket rain gage located in the east gage shelter. 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.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME STAGES FOR EAST GAGE FOR PERIOD OF RECORD.--Maximum gage height, 10.48 ft (revised) Oct. 15, 1999; minimum, 7.22 ft (revised) June 3, 1992.

EXTREME STAGES FOR EAST GAGE FOR CURRENT YEAR.--Maximum gage height, 9.38 ft Sept. 29; minimum, 7.22 ft May 22, 23.

EXTREME STAGES FOR WEST GAGE FOR PERIOD OF RECORD.--Maximum gage height, 12.74 ft (revised) Dec. 21, 1994; minimum, 7.42 ft (revised) Apr. 27, 1999.

EXTREME STAGES FOR WEST GAGE FOR CURRENT YEAR.--Maximum gage height, 10.77 ft Sept. 30; minimum, 7.64 ft May 22.

EAST
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.67	8.82	8.63	8.54	8.39	8.23	8.17	7.66	7.85	8.06	8.33	8.56
2	8.69	8.81	8.63	8.53	8.39	8.22	8.16	7.66	7.86	e8.06	8.41	8.55
3	8.85	8.80	8.63	8.52	8.38	8.20	8.16	7.67	7.91	e8.06	8.48	8.55
4	9.07	8.79	8.62	8.52	8.38	8.20	8.15	7.77	7.92	8.07	8.53	8.55
5	9.04	8.78	8.61	8.51	8.38	8.22	8.14	7.85	7.93	8.08	8.57	8.54
6	9.03	8.77	8.61	8.51	8.38	8.21	8.13	7.84	7.92	8.07	8.59	8.54
7	9.06	8.77	8.60	8.50	8.37	8.20	8.13	7.83	7.92	8.08	8.59	8.55
8	9.04	8.76	8.60	8.50	8.36	8.19	8.11	7.80	7.93	8.08	8.58	8.57
9	9.01	8.75	8.60	8.49	8.36	8.17	8.10	7.78	7.94	8.08	8.60	8.63
10	8.99	8.75	8.60	8.49	8.36	8.17	8.09	7.74	7.94	8.09	8.61	8.69
11	8.98	8.74	8.62	8.48	8.35	8.16	8.07	7.71	7.94	8.12	8.60	8.73
12	8.96	8.73	8.62	8.48	8.35	8.14	8.05	7.68	7.94	8.13	8.62	8.76
13	8.95	8.73	8.62	8.47	8.34	8.12	8.03	7.64	7.94	8.12	8.62	8.84
14	8.94	8.72	e8.62	8.46	8.33	8.11	8.00	7.59	7.96	8.14	8.62	e8.90
15	8.93	8.71	e8.61	8.46	8.33	8.10	7.97	7.55	7.98	8.17	8.61	e8.92
16	8.92	8.70	8.60	8.46	8.32	8.08	7.94	7.51	7.98	8.17	8.62	e8.90
17	8.91	8.70	8.60	8.45	8.31	8.07	7.91	7.45	7.97	8.18	8.63	e8.88
18	8.90	8.70	8.59	8.45	8.31	8.13	7.87	7.41	7.97	8.19	8.62	8.89
19	8.90	8.69	8.58	8.44	8.30	8.16	7.84	7.37	7.97	8.18	8.62	8.90
20	8.89	8.69	8.58	8.44	8.29	8.20	7.81	7.32	7.97	8.18	8.63	8.88
21	8.88	8.68	8.57	8.44	8.29	8.19	7.77	7.28	7.98	8.22	8.63	8.86
22	8.87	8.67	8.56	8.44	8.28	8.18	7.75	7.24	7.98	8.29	8.66	8.85
23	8.86	8.66	8.56	8.44	8.28	8.18	7.72	7.45	8.01	8.29	8.68	8.83
24	8.86	8.66	8.56	8.43	8.27	8.16	7.69	7.74	8.02	8.29	8.65	8.82
25	8.86	8.66	8.55	8.42	8.26	8.15	7.67	7.76	8.03	8.28	8.64	8.83
26	8.85	8.66	8.54	8.42	8.25	8.14	7.68	7.79	8.04	8.27	8.62	8.85
27	8.84	8.66	8.54	8.42	8.24	8.13	7.69	7.84	8.04	8.27	8.61	8.93
28	8.83	8.65	e8.54	8.41	8.24	8.12	7.67	7.86	8.06	8.27	8.60	9.02
29	8.83	8.64	e8.55	8.41	---	8.11	7.66	7.85	8.07	8.27	8.59	9.29
30	8.83	8.64	8.55	8.40	---	8.17	7.64	7.84	8.07	8.27	8.58	9.34
31	8.82	---	8.54	8.40	---	8.17	---	7.85	---	8.27	8.58	---
TOTAL	276.06	261.49	266.23	262.33	233.09	252.98	237.77	237.33	239.04	253.30	266.32	263.95
MEAN	8.91	8.72	8.59	8.46	8.32	8.16	7.93	7.66	7.97	8.17	8.59	8.80
MAX	9.07	8.82	8.63	8.54	8.39	8.23	8.17	7.86	8.07	8.29	8.68	9.34
MIN	8.67	8.64	8.54	8.40	8.24	8.07	7.64	7.24	7.85	8.06	8.33	8.54

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

255300080370001 SITE 69 IN CONSERVATION AREA 3B NEAR COOPERTOWN, FL

WEST
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.80	10.08	9.87	9.61	9.24	8.70	8.70	8.02	8.48	8.69	9.67	10.03
2	9.81	10.07	9.86	9.59	9.23	8.68	8.67	8.10	8.55	e8.66	9.80	10.02
3	9.94	10.06	9.85	9.58	9.22	8.64	8.64	8.08	8.59	e8.66	9.90	10.00
4	10.12	10.05	9.84	9.58	9.20	8.63	8.62	8.35	8.57	8.66	9.98	9.99
5	10.11	10.04	9.83	9.56	9.18	8.68	8.60	8.36	8.56	8.70	10.03	9.97
6	10.13	10.04	9.82	9.54	9.17	8.66	8.59	8.31	8.55	8.70	10.07	9.98
7	10.18	10.02	9.82	9.52	9.14	8.63	8.57	8.24	8.57	8.71	10.10	9.99
8	10.18	10.01	9.81	9.51	9.12	8.60	8.53	8.24	8.63	8.70	10.12	10.00
9	10.18	10.00	9.80	9.50	9.10	8.56	8.49	8.18	8.65	8.72	10.13	10.06
10	10.18	10.00	9.81	9.49	9.08	8.55	8.48	8.13	8.63	8.75	10.15	10.10
11	10.18	10.00	e9.83	9.48	9.07	8.54	8.44	8.17	8.62	8.80	10.16	10.13
12	10.16	9.99	e9.81	9.46	9.05	8.51	8.38	8.11	8.61	8.84	10.17	10.21
13	10.16	9.98	e9.79	9.46	9.03	8.47	8.34	8.05	8.60	8.82	10.17	10.29
14	10.15	9.98	e9.81	9.45	9.01	8.45	8.30	8.01	e8.61	8.84	10.17	e10.33
15	10.15	9.96	e9.80	9.43	8.99	8.42	8.24	7.96	e8.61	8.94	10.18	e10.32
16	10.14	9.96	9.79	9.42	8.97	8.38	8.20	7.92	e8.61	8.97	10.21	e10.30
17	10.13	9.96	9.77	9.42	8.95	8.37	8.16	7.89	e8.62	8.98	10.21	e10.31
18	10.13	9.96	9.76	9.40	8.93	8.40	8.14	7.87	e8.61	9.01	10.20	10.34
19	10.13	9.95	9.75	9.38	8.91	8.50	8.08	7.83	e8.62	9.01	10.21	10.36
20	10.12	9.94	9.73	9.39	8.90	8.69	8.04	7.80	e8.62	9.04	10.22	10.33
21	10.12	9.95	9.72	9.39	8.88	8.67	8.00	7.74	e8.62	9.13	10.21	10.32
22	10.11	9.94	9.71	9.40	8.86	8.68	7.96	7.70	e8.62	9.24	10.22	10.30
23	10.11	9.93	9.71	9.39	8.84	8.65	7.93	7.89	e8.63	9.29	10.24	10.28
24	10.11	9.92	9.69	9.37	8.81	8.61	7.93	8.34	e8.64	9.35	10.21	10.28
25	10.11	9.91	9.69	9.36	8.79	8.59	7.97	8.41	8.66	9.38	10.19	10.28
26	10.11	9.91	9.68	9.35	8.77	8.57	8.09	8.43	8.66	9.41	10.17	10.28
27	10.11	9.90	9.67	9.33	8.75	8.55	8.07	8.46	8.68	9.44	10.14	10.32
28	10.10	9.89	e9.66	9.32	8.72	8.53	8.04	8.48	8.73	9.47	10.12	10.36
29	10.10	9.89	e9.66	9.29	---	8.50	8.03	8.48	8.76	9.51	10.10	10.69
30	10.10	9.88	9.64	9.27	---	8.70	8.02	8.45	8.72	9.55	10.08	10.76
31	10.09	---	9.63	9.25	---	8.73	---	8.46	---	9.57	10.05	---
TOTAL	313.25	299.17	302.61	292.49	251.91	265.84	248.25	252.46	258.63	279.54	313.58	306.93
MEAN	10.10	9.97	9.76	9.44	9.00	8.58	8.27	8.14	8.62	9.02	10.12	10.23
MAX	10.18	10.08	9.87	9.61	9.24	8.73	8.70	8.48	8.76	9.57	10.24	10.76
MIN	9.80	9.88	9.63	9.25	8.72	8.37	7.93	7.70	8.48	8.66	9.67	9.97

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 with tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Rainfall data is available in files of the U.S. Geological Survey.

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, 10.37 ft Sept. 29; minimum, 7.82 ft May 22, 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.70	e9.84	9.78	9.53	9.20	8.72	8.62	8.15	8.04	8.52	9.39	9.55
2	9.70	e9.84	9.78	9.52	e9.19	8.71	8.60	8.15	8.11	8.51	9.54	9.55
3	9.83	e9.83	9.77	9.51	e9.18	8.69	8.59	8.16	8.13	8.49	9.61	9.54
4	10.02	e9.83	9.75	9.50	e9.16	8.69	8.57	8.20	8.13	8.48	9.65	9.53
5	10.01	e9.82	9.74	9.48	9.13	8.76	8.56	8.19	8.12	8.50	9.71	9.52
6	10.00	e9.82	9.74	9.47	e9.13	8.73	8.55	8.17	8.11	8.50	9.74	9.53
7	10.01	e9.81	9.74	9.46	e9.11	8.70	8.55	8.14	8.14	8.52	9.75	9.54
8	10.01	9.79	9.73	9.45	e9.08	8.68	8.53	8.12	8.27	8.53	9.77	9.59
9	10.01	9.79	9.72	9.45	9.06	8.67	8.51	8.10	8.36	8.53	9.75	9.64
10	10.01	9.80	9.71	9.44	9.05	8.65	8.49	8.08	8.36	8.54	9.74	9.68
11	10.01	9.80	9.73	9.42	9.03	8.64	8.48	8.06	8.35	8.56	9.73	9.70
12	10.00	9.80	9.72	9.41	9.02	8.62	8.46	8.04	8.34	8.59	9.73	9.79
13	9.99	9.81	9.72	9.40	9.00	8.60	8.45	8.02	8.35	8.59	9.72	9.85
14	9.97	9.81	9.72	9.38	8.98	8.59	8.43	8.00	8.42	8.60	9.71	9.88
15	9.96	9.81	9.72	9.38	8.96	8.57	8.41	7.98	8.45	8.72	9.71	9.89
16	9.94	9.82	9.72	9.37	8.94	8.55	8.39	7.96	8.45	8.77	9.71	9.88
17	9.94	9.82	9.70	9.36	8.92	8.54	8.37	7.93	8.45	8.77	9.70	9.88
18	9.93	9.82	9.69	9.34	8.91	8.57	8.35	7.91	8.44	8.79	9.69	9.91
19	9.91	e9.82	9.67	9.33	8.89	8.60	8.32	7.89	8.45	8.80	9.68	9.93
20	9.90	e9.82	9.65	e9.32	8.87	8.66	8.31	7.87	8.43	8.86	9.69	9.93
21	9.90	e9.81	9.64	9.32	8.86	8.64	8.29	7.84	8.43	8.96	9.68	9.91
22	9.89	e9.80	9.63	9.31	8.85	8.62	8.28	7.83	8.43	9.07	9.67	9.90
23	9.88	e9.80	9.63	9.30	8.83	8.60	8.27	7.94	8.43	9.10	9.67	9.89
24	9.88	e9.79	9.63	9.29	8.81	8.59	8.25	8.05	8.43	9.13	9.66	9.89
25	9.87	e9.78	9.63	9.27	8.80	8.58	8.23	8.03	8.42	9.16	9.65	9.88
26	9.87	e9.79	9.61	9.26	8.78	8.56	8.22	8.02	8.44	9.18	9.64	9.88
27	9.87	9.79	9.60	9.25	8.76	8.55	8.20	8.01	8.46	9.19	9.63	9.93
28	9.87	9.79	9.60	9.24	8.74	8.53	8.18	8.02	8.52	9.21	9.61	9.99
29	9.87	9.79	9.59	e9.23	---	8.54	8.17	8.02	8.54	9.25	9.60	10.30
30	e9.86	9.79	9.57	9.22	---	8.63	8.17	8.01	8.54	9.29	9.59	10.35
31	e9.86	---	9.55	9.21	---	8.62	---	8.02	---	9.31	9.57	---
TOTAL	307.47	294.23	300.18	290.42	251.24	267.40	251.80	248.91	250.54	273.02	299.69	294.23
MEAN	9.92	9.81	9.68	9.37	8.97	8.63	8.39	8.03	8.35	8.81	9.67	9.81
MAX	10.02	9.84	9.78	9.53	9.20	8.76	8.62	8.20	8.54	9.31	9.77	10.35
MIN	9.70	9.78	9.55	9.21	8.74	8.53	8.17	7.83	8.04	8.48	9.39	9.52

e Estimated

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 and tipping bucket rain gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Land-surface datum is 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.

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, 8.61 ft Sept. 29; minimum, 6.04 ft May 22, 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.79	7.97	7.73	7.62	7.47	7.24	7.22	6.70	6.82	7.07	7.34	7.65
2	7.79	7.96	7.72	7.62	7.47	7.24	7.20	6.70	6.86	7.06	7.46	7.65
3	7.99	7.95	7.72	7.61	7.46	7.23	7.18	6.67	6.91	7.05	7.53	7.64
4	8.24	7.94	7.71	7.61	7.45	7.22	7.17	6.74	6.96	7.08	7.60	7.64
5	8.22	7.93	7.71	7.60	7.45	7.27	7.15	6.69	6.96	7.14	7.62	7.64
6	8.23	7.93	7.70	7.60	7.44	7.25	7.15	6.64	6.97	7.11	7.62	7.64
7	8.30	7.91	7.70	7.60	7.43	7.24	7.16	6.59	6.96	7.16	7.60	7.66
8	8.30	7.91	7.70	7.59	7.42	7.23	7.14	6.57	6.96	7.15	7.60	7.68
9	8.28	7.90	7.69	7.58	7.41	7.22	7.13	6.54	6.97	7.15	7.62	7.71
10	8.26	7.89	7.70	7.57	7.41	7.21	7.11	6.50	6.98	7.17	7.65	7.82
11	8.25	7.88	7.75	7.57	7.40	7.21	7.10	6.47	6.97	7.15	7.63	7.91
12	8.23	7.86	7.74	7.56	7.39	7.19	7.08	6.44	6.96	7.16	7.64	7.93
13	8.23	7.85	7.74	7.56	7.38	7.18	7.07	6.40	6.96	7.15	7.64	8.05
14	8.21	7.84	7.73	7.56	7.37	7.16	7.06	6.36	6.95	7.15	7.64	8.14
15	8.19	7.83	7.73	7.54	7.37	7.15	7.05	6.32	6.96	7.26	7.64	8.18
16	8.18	7.82	7.72	7.53	7.36	7.14	7.03	6.28	6.96	7.26	7.67	8.17
17	8.16	7.81	7.71	7.53	7.35	7.13	7.02	6.24	6.96	7.27	7.71	8.15
18	8.14	7.81	7.70	7.53	7.34	7.19	7.00	6.19	6.96	7.32	7.68	8.14
19	8.13	7.80	7.69	7.52	7.33	7.27	6.98	6.15	6.96	7.31	7.66	8.14
20	8.11	7.80	7.68	7.55	7.32	7.32	6.96	6.12	6.96	7.29	7.66	8.13
21	8.10	7.79	7.67	7.56	7.31	7.28	6.95	6.08	6.97	7.31	7.66	8.11
22	8.09	7.78	7.67	7.54	7.30	7.25	6.92	6.05	6.98	7.42	7.70	8.09
23	8.07	7.77	7.66	7.54	7.29	7.23	6.90	6.47	7.00	7.39	7.74	8.07
24	8.06	7.76	7.66	7.53	7.29	7.21	6.87	6.74	7.03	7.37	7.71	8.07
25	8.05	7.76	7.66	7.52	7.28	7.19	6.84	6.73	7.06	7.34	7.70	8.13
26	8.04	7.76	7.64	7.51	7.27	7.18	6.81	6.74	7.10	7.32	7.69	8.13
27	8.03	7.76	7.64	7.51	7.26	7.16	6.77	6.80	7.09	7.30	7.68	8.18
28	8.02	7.75	7.64	7.50	7.25	7.15	6.73	6.83	7.09	7.29	7.67	8.23
29	8.01	7.74	7.64	7.49	---	7.14	6.69	6.83	7.09	7.27	7.66	8.53
30	7.99	7.74	7.64	7.49	---	7.22	6.65	6.82	7.07	7.26	7.66	8.57
31	7.98	---	7.62	7.48	---	7.21	---	6.80	---	7.25	7.66	---
TOTAL	251.67	235.20	238.41	234.12	206.27	223.51	210.09	202.20	209.43	223.98	236.74	239.78
MEAN	8.12	7.84	7.69	7.55	7.37	7.21	7.00	6.52	6.98	7.23	7.64	7.99
MAX	8.30	7.97	7.75	7.62	7.47	7.32	7.22	6.83	7.10	7.42	7.74	8.57
MIN	7.79	7.74	7.62	7.48	7.25	7.13	6.65	6.05	6.82	7.05	7.34	7.64

02286200 SNAKE CREEK CANAL AT NW 67TH AVENUE, NEAR HIALEAH, FL

LOCATION.--Lat 25°57'50", long 80°18'40", in SW ¼ 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.

GAGE.--Water-stage shaft encoder and acoustic doppler velocity meter with a 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.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 26 complete years of discharge (1963-86, 1993, 2000).

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, 5.02 ft Oct. 3; minimum, 1.83 ft Aug. 31.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.45	2.35	2.33	2.28	2.18	1.98	2.38	2.15	2.20	2.35	2.18	1.92
2	2.61	2.38	2.33	2.28	2.18	1.97	2.31	2.20	2.37	2.28	2.71	2.07
3	3.53	2.31	2.32	2.27	2.17	1.94	2.27	2.31	2.24	2.38	3.08	2.12
4	4.63	2.40	2.31	2.27	2.20	1.93	2.41	2.47	2.15	2.23	3.13	2.16
5	4.23	2.32	2.29	2.26	2.32	2.03	2.25	2.38	2.08	2.17	3.02	2.20
6	4.24	2.38	2.28	2.25	2.31	2.00	2.39	2.34	2.03	2.30	3.00	2.27
7	4.18	2.40	2.29	2.25	2.30	1.96	2.11	2.41	1.97	2.41	2.84	2.34
8	4.01	2.42	2.29	2.25	2.28	1.93	2.02	2.40	1.92	2.29	2.72	2.33
9	3.80	2.41	2.30	2.24	2.27	1.92	2.16	2.36	2.06	2.26	2.62	2.21
10	3.62	2.37	2.40	2.22	2.27	1.92	2.25	2.41	2.27	2.27	2.59	2.23
11	3.54	2.37	2.44	2.21	2.26	1.93	2.26	2.41	2.31	2.34	2.61	2.00
12	3.48	2.38	2.36	2.20	2.25	1.93	2.24	2.39	2.37	2.40	2.54	2.01
13	3.17	2.38	2.45	2.21	2.22	1.91	2.23	2.36	2.18	2.26	2.48	2.47
14	2.85	2.37	2.42	2.21	2.20	1.91	2.21	2.34	2.05	2.22	2.43	2.83
15	2.73	2.36	2.39	2.21	2.19	1.89	2.19	2.32	1.96	2.39	2.32	2.53
16	2.60	2.35	2.38	2.21	2.16	1.88	2.18	2.28	1.89	2.38	2.43	2.43
17	2.51	2.34	2.31	2.20	2.15	1.89	2.14	2.24	1.90	2.35	2.36	2.58
18	2.43	2.35	2.20	2.20	2.15	1.98	2.10	2.21	2.11	2.39	2.30	2.49
19	2.35	2.36	2.12	2.20	2.12	2.13	2.06	2.17	2.15	2.39	2.37	2.32
20	2.39	2.32	2.02	2.25	2.08	2.28	2.03	2.15	2.15	2.48	2.34	2.22
21	2.47	2.17	1.97	2.26	2.07	2.22	2.00	2.12	2.18	2.56	2.33	2.24
22	2.45	2.24	1.94	2.26	2.05	2.20	1.99	2.10	2.31	2.80	2.38	2.39
23	2.44	2.26	2.01	2.25	2.04	2.21	1.97	2.22	2.34	2.58	2.27	2.43
24	2.43	2.27	2.20	2.23	2.03	2.21	1.94	2.44	2.34	2.69	2.16	2.40
25	2.39	2.35	2.28	2.22	2.02	2.20	1.97	2.51	2.38	2.70	2.08	2.43
26	2.37	2.34	2.28	2.21	2.01	2.19	2.10	2.51	2.47	2.66	2.01	2.56
27	2.33	2.19	2.28	2.20	1.99	2.19	e2.17	2.47	2.35	2.61	1.96	2.41
28	2.32	2.32	2.30	2.20	1.98	2.20	e2.13	2.42	2.29	2.54	1.92	2.40
29	2.32	2.34	2.32	2.20	---	2.19	2.10	2.36	2.33	2.46	1.92	3.30
30	2.32	2.34	2.31	2.20	---	2.24	2.09	2.29	2.45	2.38	1.92	3.20
31	2.35	---	2.29	2.19	---	2.29	---	2.30	---	2.24	1.90	---
TOTAL	91.54	70.14	70.41	69.09	60.45	63.65	64.65	72.04	65.76	74.76	74.92	71.49
MEAN	2.95	2.34	2.27	2.23	2.16	2.05	2.15	2.32	2.19	2.41	2.42	2.38
MAX	4.63	2.42	2.45	2.28	2.32	2.29	2.41	2.51	2.47	2.80	3.13	3.30
MIN	2.32	2.17	1.94	2.19	1.98	1.88	1.94	2.10	1.89	2.17	1.90	1.92

e Estimated

02286200 SNAKE CREEK CANAL AT NW 67TH AVENUE, NEAR HIALEAH, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	160	97	75	120	82	331	e-8.7	e-1.5	15	e218	e254
2	179	114	100	81	117	82	291	e-16	e-5.7	---	e343	e131
3	249	176	107	82	116	62	214	e-5.7	e-.61	---	e237	e134
4	269	83	99	80	116	96	93	43	e-.02	---	e707	e159
5	768	152	95	76	77	92	210	14	e-.67	---	e827	e168
6	930	79	89	77	91	69	90	2.6	e-5.0	---	e830	e177
7	970	89	91	87	82	59	359	e-12	1.5	---	e825	e139
8	984	58	95	80	64	62	321	e-19	e-2.2	---	e558	e237
9	867	63	78	80	83	45	139	e-21	e-12	---	e210	e336
10	862	85	238	73	113	77	86	e-22	e-11	e230	e251	e435
11	850	73	410	89	92	138	71	e-9.6	e-13	e152	e510	e573
12	817	58	387	87	88	124	69	e-5.4	e-4.3	e78	e577	e568
13	742	39	264	91	95	83	35	e-3.2	e-3.5	e158	e556	e670
14	717	51	269	96	103	113	67	e-8.4	e-.24	e292	e519	e836
15	705	67	239	97	108	96	38	e-14	e-6.0	e407	e526	e849
16	688	57	231	84	119	76	36	.12	e-9.7	e399	e423	e676
17	630	57	280	---	112	125	17	e-2.5	e-4.8	e510	e417	e542
18	602	75	311	---	76	154	29	.08	e-5.9	e543	e405	e483
19	597	46	298	---	78	142	19	e-14	e-5.4	e477	e295	e347
20	496	103	329	---	97	122	17	e-11	e-12	e366	e315	e598
21	407	200	310	---	104	137	19	e-2.3	e-4.0	e487	e313	e475
22	410	99	316	---	104	94	3.4	4.0	e-13	e699	e267	e357
23	347	92	194	---	100	89	4.0	1.8	.60	e498	e370	e307
24	327	100	87	---	89	103	6.1	e-13	e-2.1	e306	e391	e377
25	329	135	52	---	107	83	1.8	e-1.1	e-4.1	e183	e400	e422
26	296	203	64	---	124	61	e-13	e-12	e-4.5	e208	e395	e413
27	290	249	93	---	113	136	---	e-8.7	4.0	e187	e402	e626
28	262	99	104	---	70	63	e-5.4	e-.97	25	e231	e393	e665
29	257	84	77	---	---	108	e-3.0	e-.68	8.6	e277	e354	e859
30	221	104	87	130	---	240	e-9.7	2.8	e-1.6	e357	e331	e968
31	190	---	82	125	---	136	---	e-7.2	---	e194	e321	---
TOTAL	16381	3050	5573	1590	2758	3149	2535.2	-150.05	-93.10	7254	13486	13781
MEAN	528	102	180	88.3	98.5	102	87.4	-4.84	-3.10	315	435	459
MAX	984	249	410	130	124	240	359	43	25	699	830	968
MIN	123	39	52	73	64	45	-13	-22	-13	15	210	131
AC-FT	32490	6050	11050	3150	5470	6250	5030	-298	-185	14390	26750	27330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

	331	245	177	176	170	162	140	178	337	290	325	340
MEAN	331	245	177	176	170	162	140	178	337	290	325	340
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	-3.10	10.0	1.64	1.94
(WY)	1994	1994	1994	1994	1996	1996	1998	2001	2001	1993	1993	1993

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1963 - 2001

ANNUAL TOTAL	85005.5		
ANNUAL MEAN	232		269
HIGHEST ANNUAL MEAN			518
LOWEST ANNUAL MEAN			114
HIGHEST DAILY MEAN	984	Oct 8	984 Oct 8
LOWEST DAILY MEAN	9.5	Feb 13	-22 May 10
ANNUAL SEVEN-DAY MINIMUM	56	Sep 23	-13 May 7
ANNUAL RUNOFF (AC-FT)	168600		194700
10 PERCENT EXCEEDS	463		518
50 PERCENT EXCEEDS	178		182
90 PERCENT EXCEEDS	66		34

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

255026080231300 SNAPPER CREEK CANAL EXTENSION AT NW 74TH STREET, NEAR HIALEAH, FL

LOCATION.--Lat 25°50'26", long 80°23'13", in SE ¼ 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, 6.41 ft Oct. 4; minimum, 2.96 ft Apr. 25-30.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.18	4.81	4.11	4.05	3.77	3.40	3.80	3.06	3.71	3.96	4.36	4.75
2	4.35	4.76	4.11	4.03	3.76	3.37	3.74	3.14	3.90	3.91	4.68	4.73
3	5.25	4.71	4.10	4.02	3.75	3.36	3.67	3.25	3.84	3.87	4.79	4.71
4	6.35	4.67	4.08	4.04	3.76	3.35	3.62	3.81	3.77	3.83	4.94	4.70
5	6.19	4.63	4.07	4.03	3.81	3.52	3.57	3.80	3.78	3.80	5.01	4.69
6	6.10	4.58	4.04	4.01	3.79	3.47	3.54	3.72	3.77	3.78	5.07	4.74
7	6.12	4.54	4.03	3.99	3.77	3.42	3.54	3.66	3.69	3.85	5.01	4.77
8	5.95	4.51	4.02	3.96	3.74	3.39	3.51	3.60	3.65	3.86	4.96	4.82
9	5.84	4.47	4.03	3.94	3.73	3.37	3.46	3.56	3.67	3.94	4.93	4.94
10	5.76	4.43	4.33	3.90	3.72	3.37	3.42	3.53	3.65	4.06	4.92	4.91
11	5.70	4.40	4.77	3.90	3.69	3.35	3.38	3.45	3.60	4.09	4.96	4.83
12	5.66	4.37	4.61	3.89	3.67	3.31	3.35	3.41	3.58	4.13	4.98	5.06
13	5.63	4.33	4.49	3.89	3.65	3.29	3.32	3.37	3.54	4.05	4.95	5.34
14	5.58	4.30	4.41	3.88	3.64	3.26	3.30	3.32	3.51	4.02	4.94	5.38
15	5.54	4.28	4.36	3.88	3.62	3.25	3.28	3.29	3.48	4.25	4.95	5.36
16	5.47	4.26	4.32	3.87	3.61	3.20	3.25	3.26	3.46	4.22	4.93	5.29
17	5.40	4.25	4.30	3.86	3.59	3.15	3.22	3.21	3.49	4.22	4.92	5.24
18	5.35	4.23	4.25	3.85	3.56	3.34	3.17	3.17	3.46	4.39	4.89	5.20
19	5.30	4.22	4.22	3.83	3.52	3.66	3.13	3.13	3.42	4.43	4.86	5.17
20	5.26	4.19	4.19	3.93	3.51	3.69	3.10	3.10	3.38	4.40	4.84	5.14
21	5.22	4.16	4.16	3.91	3.49	3.58	3.07	3.06	3.39	4.47	4.83	5.11
22	5.18	4.11	4.14	3.87	3.48	3.50	3.04	3.04	3.66	4.70	4.88	5.08
23	5.13	4.09	4.16	3.86	3.48	3.44	3.02	3.30	3.80	4.61	4.92	5.06
24	5.12	4.08	4.17	3.83	3.47	3.40	2.99	3.81	3.84	4.62	4.89	5.03
25	5.09	4.33	4.16	3.81	3.46	3.36	3.00	3.69	3.90	4.53	4.87	5.01
26	5.05	4.35	4.14	3.80	3.45	3.32	3.07	3.64	4.02	4.46	4.85	5.01
27	5.01	4.26	4.12	3.78	3.43	3.28	3.03	3.80	4.00	4.40	4.81	5.07
28	4.98	4.20	4.09	3.77	3.41	3.24	3.01	3.85	4.03	4.34	4.81	5.17
29	4.94	4.16	4.10	3.76	---	3.22	3.00	3.78	4.01	4.29	4.81	5.79
30	4.90	4.13	4.08	3.79	---	3.62	2.99	3.72	3.99	4.24	4.80	5.83
31	4.86	---	4.07	3.78	---	3.66	---	3.68	---	4.21	4.77	---
TOTAL	166.46	130.81	130.23	120.71	101.33	105.14	98.59	107.21	110.99	129.93	151.13	151.93
MEAN	5.37	4.36	4.20	3.89	3.62	3.39	3.29	3.46	3.70	4.19	4.88	5.06
MAX	6.35	4.81	4.77	4.05	3.81	3.69	3.80	3.85	4.03	4.70	5.07	5.83
MIN	4.18	4.08	4.02	3.76	3.41	3.15	2.99	3.04	3.38	3.78	4.36	4.69

02286400 MIAMI CANAL AT S-354, AND S-3, AT LAKE HARBOR, FL

LOCATION.--Lat 26°41'42", long 80°48'25", in SE ¼ 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, FL.

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

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic 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. Satellite data collection platform and acoustic velocity meter installed September 11, 1991 to present. 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 velocity index vs. mean 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 38 complete water years of discharge (1957-89, 1993-97, 2001).

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, 12.81 ft Oct. 6; minimum, 7.45 ft May 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.60	11.04	10.51	10.35	10.32	8.86	10.10	8.14	8.66	10.52	11.07	10.29
2	10.56	10.90	10.54	10.32	10.28	8.97	10.78	7.85	e9.73	10.31	10.25	10.51
3	10.14	10.71	10.55	10.18	10.27	8.84	10.76	---	e10.62	10.06	10.57	10.22
4	11.49	10.85	10.48	9.84	10.22	8.87	10.41	---	e10.87	9.97	10.54	10.42
5	11.98	11.00	10.41	9.48	10.07	e9.23	10.27	9.06	11.01	9.98	e10.73	11.16
6	12.21	11.01	10.42	9.73	10.01	e9.07	10.07	9.74	e10.56	10.03	10.37	10.76
7	11.43	10.83	10.34	9.97	9.93	9.24	9.93	9.22	e11.00	10.30	10.61	10.41
8	11.26	10.70	10.42	10.20	9.77	9.02	9.95	9.47	11.05	10.23	10.00	10.36
9	11.13	10.70	10.41	10.10	9.82	9.05	9.78	8.89	10.12	10.00	10.37	9.93
10	10.90	10.71	10.36	9.74	9.77	8.86	10.36	9.23	10.46	10.18	e10.42	10.52
11	10.58	11.01	10.50	9.92	9.79	9.05	10.50	9.29	10.60	10.71	e10.42	10.32
12	10.28	10.73	10.50	10.22	9.85	9.28	10.59	9.49	10.65	10.85	e10.44	9.74
13	11.12	10.67	10.42	10.14	9.80	9.17	10.22	9.29	e10.44	10.76	e10.49	10.05
14	11.16	10.71	10.45	10.12	e9.77	9.13	10.25	8.90	10.59	10.40	10.47	10.10
15	10.76	10.79	10.42	10.23	e9.61	8.93	10.11	9.12	10.72	e10.93	10.45	9.96
16	10.71	10.73	10.43	10.06	9.68	9.00	9.63	8.94	10.74	e11.14	10.60	10.25
17	10.80	10.70	10.37	9.88	9.64	8.84	10.15	9.08	10.66	10.97	10.61	10.27
18	10.74	10.98	10.42	9.82	9.50	8.86	10.23	9.07	10.33	10.81	10.53	10.01
19	11.31	10.94	10.41	10.07	9.47	e9.22	10.27	8.57	10.39	11.04	10.46	10.50
20	11.54	10.80	10.53	10.02	9.39	e10.51	10.05	8.58	10.72	e10.72	10.39	10.56
21	11.60	11.00	10.84	9.94	9.39	e11.72	9.40	8.47	10.70	9.98	10.11	10.64
22	11.51	10.68	10.47	10.16	9.24	e11.96	9.36	8.86	10.63	10.57	10.32	10.85
23	11.40	10.84	10.37	10.31	9.21	11.42	9.04	9.16	10.26	10.94	10.43	10.88
24	11.50	11.01	10.24	10.31	8.99	11.36	9.43	9.29	10.57	e10.87	10.36	10.88
25	11.45	11.03	10.05	10.36	8.95	11.04	9.53	9.16	10.55	e10.63	10.39	10.99
26	11.39	10.86	10.02	10.31	8.99	10.92	9.68	8.85	10.50	e10.06	10.43	10.26
27	11.25	10.83	10.25	10.34	8.88	10.93	9.59	e8.95	10.11	e9.90	10.04	9.97
28	11.27	10.72	10.33	10.34	9.05	10.74	8.95	8.78	10.37	10.21	10.06	10.23
29	11.21	10.62	10.40	10.31	---	10.87	8.85	8.77	10.35	11.05	10.21	11.20
30	11.07	10.57	10.36	10.38	---	11.36	8.66	9.16	10.55	11.02	10.40	11.27
31	11.00	---	10.36	10.32	---	10.79	---	8.61	---	10.35	10.21	---
TOTAL	345.35	324.67	322.58	313.47	269.66	305.11	296.90	259.99	314.51	325.49	322.75	313.51
MEAN	11.14	10.82	10.41	10.11	9.63	9.84	9.90	8.97	10.48	10.50	10.41	10.45
MAX	12.21	11.04	10.84	10.38	10.32	11.96	10.78	9.74	11.05	11.14	11.07	11.27
MIN	10.14	10.57	10.02	9.48	8.88	8.84	8.66	7.85	8.66	9.90	10.00	9.74

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286400 MIAMI CANAL AT S-354, AND S-3, AT LAKE HARBOR, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	14	41	92	-14	-6.7	-246	53	-47	e-1.8	-606	-2.7
2	50	7.6	24	36	215	220	18	e.00	e-25	e8.5	-1400	e24
3	19	56	39	175	66	-7.3	-70	e163	e-14	e14	-1200	e2.8
4	-612	189	287	37	49	4.3	-18	e174	e14	-9.7	-1100	e-21
5	-1210	104	23	171	186	e219	81	364	-295	e17	e-809	-144
6	-482	56	296	40	22	e.00	51	175	e-474	e12	-758	-417
7	-903	98	44	34	221	245	e-2.6	236	e.00	e47	-1230	-256
8	-345	126	409	129	47	38	41	283	-460	e-2.3	-1290	-813
9	58	121	41	54	200	202	345	309	-344	-24	-909	-945
10	52	391	41	171	50	72	426	428	-475	e10	e-705	-1610
11	52	282	341	31	64	-25	422	423	-47	6.3	e-691	-1530
12	27	213	6.8	104	148	193	256	203	-337	-288	e-684	-1290
13	7.9	346	325	61	44	-19	304	43	e4.7	-460	e-614	-1440
14	15	332	-13	58	e181	214	166	310	e31	-471	-431	-1600
15	32	294	334	172	e.00	-11	6.1	416	e4.9	e-473	-325	-1500
16	17	232	-20	54	280	297	290	420	e.01	e-924	-231	-775
17	52	459	15	207	-18	126	441	426	e-.15	-920	-345	-1520
18	23	471	412	-1.7	47	41	460	275	e9.6	-997	-359	-1370
19	-6.6	180	97	172	124	e56	426	e27	38	-905	-333	-806
20	7.2	273	530	7.0	2.6	e-26	282	8.9	24	e-705	-263	-512
21	19	245	83	30	209	e-14	70	268	e12	-664	-204	-379
22	39	348	261	186	14	e1.4	85	405	-144	-705	-242	-.93
23	23	355	55	29	235	62	159	414	-220	-1160	-263	-1.3
24	13	274	53	134	-25	e11	444	434	e18	e-1330	-235	-37
25	21	34	138	34	-33	2.2	434	252	-196	e-1830	-247	6.9
26	15	50	45	190	205	78	440	-41	e-279	e-1870	-245	38
27	23	60	394	42	7.6	55	301	e1.8	-113	e-1500	-229	61
28	-3.1	32	-3.5	26	261	15	40	-32	-355	-417	33	20
29	-12	32	351	198	---	-13	-1.2	226	e17	-279	e-18	-436
30	-7.9	43	121	5.1	---	-477	161	264	e21	-890	e-13	-853
31	16	---	11	168	---	-824	---	e3.0	---	-499	-57	---
TOTAL	-2967.5	5717.6	4781.3	2845.4	2788.20	728.90	5811.3	6931.70	-3630.94	-17210.0	-15963	-18106.23
MEAN	-95.7	191	154	91.8	99.6	23.5	194	224	-121	-555	-515	-604
MAX	58	471	530	207	280	297	460	434	38	47	33	61
MIN	-1210	7.6	-20	-1.7	-33	-824	-246	-41	-475	-1870	-1400	-1610
AC-FT	-5890	11340	9480	5640	5530	1450	11530	13750	-7200	-34140	-31660	-35910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	
MEAN	-72.2	45.0	91.2	113	209	236	443	298	-23.5	-72.6	-104	-180									
MAX	609	420	385	634	1439	1415	1480	966	626	936	302	1191									
(WY)	1989	1974	1969	1993	1993	1966	1993	1974	1980	1992	1993	1992									
MIN	-1167	-429	-330	-849	-373	-1185	-316	-296	-897	-769	-899	-1614									
(WY)	1961	1961	1958	1958	1983	1970	1958	1972	1968	1985	1981	1960									

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1958 - 199

ANNUAL TOTAL																					
ANNUAL MEAN								-28273.27													
HIGHEST ANNUAL MEAN								-77.5													
LOWEST ANNUAL MEAN																					
HIGHEST DAILY MEAN																					
LOWEST DAILY MEAN																					
ANNUAL SEVEN-DAY MINIMUM																					
ANNUAL RUNOFF (AC-FT)																					
10 PERCENT EXCEEDS																					
50 PERCENT EXCEEDS																					
90 PERCENT EXCEEDS																					

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 ¼ 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 velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

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.

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 25 complete water years of discharge (1963-82, 1992, 1995-96, 1998, 2000).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.17 ft, Oct. 17, 1995; minimum (daily) gage height, 6.02 ft June 7, 1981.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 15.01 ft Oct. 5; minimum, 7.74 ft May 21, 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12.27	11.56	11.04	10.77	10.65	9.86	11.09	8.08	9.32	10.39	11.53	10.79
2	12.84	11.43	11.02	10.76	10.63	9.82	11.01	8.18	9.53	10.37	12.68	11.00
3	12.96	11.32	11.00	10.75	10.62	9.79	10.99	8.17	9.61	10.34	13.39	10.75
4	14.35	11.33	10.99	10.70	10.62	9.76	10.91	8.48	9.68	10.36	13.26	10.81
5	14.85	11.50	10.96	10.67	10.57	9.82	10.83	8.47	9.72	e10.43	13.26	10.92
6	14.89	11.50	10.95	10.64	10.54	9.84	10.78	8.41	9.75	10.44	12.47	e10.95
7	14.86	e11.30	10.93	10.64	10.51	9.82	10.72	8.29	9.90	10.45	11.75	10.94
8	14.73	e11.30	10.92	10.64	10.48	9.78	10.67	8.30	10.03	10.46	11.67	11.00
9	14.62	11.27	10.91	10.64	10.45	9.75	10.62	8.25	10.05	e10.47	11.61	e10.97
10	---	11.19	10.93	10.62	10.43	9.70	10.59	8.19	10.13	e10.55	11.57	e12.62
11	14.22	11.36	10.95	10.61	10.41	9.68	10.63	8.24	10.12	e10.65	11.54	13.10
12	13.16	11.36	10.97	10.61	10.47	9.67	10.64	8.16	10.13	10.68	11.50	13.24
13	12.87	11.17	11.03	10.62	10.44	9.63	10.61	8.10	10.15	11.02	11.31	e13.51
14	12.81	11.09	e11.01	10.61	10.39	9.60	10.53	8.07	10.16	10.85	11.39	e13.98
15	12.75	11.26	10.99	10.61	10.35	9.56	10.49	8.03	10.16	10.86	11.15	e13.51
16	12.65	e11.22	10.97	10.61	10.31	9.52	10.40	7.96	10.16	11.25	11.24	e12.71
17	12.69	11.11	10.95	10.59	10.27	9.48	10.33	7.94	10.18	11.38	---	e11.86
18	12.03	11.23	10.92	10.57	10.24	9.47	10.34	7.95	10.20	11.07	---	e11.82
19	11.88	11.26	10.90	10.57	10.21	9.70	10.32	7.90	10.19	11.12	---	e11.80
20	12.00	11.17	10.89	10.61	10.17	10.47	10.30	7.87	10.20	11.06	---	e11.79
21	12.03	11.21	10.92	10.64	10.14	e11.48	10.18	7.83	10.23	10.98	10.73	---
22	11.97	11.19	10.92	10.65	10.10	12.24	10.09	7.80	10.30	11.10	11.10	---
23	11.90	11.17	10.88	10.68	10.07	11.73	10.02	8.04	10.38	12.06	11.16	---
24	11.96	11.20	10.85	10.69	10.04	11.42	9.95	8.58	e10.39	12.60	11.04	---
25	11.92	11.21	10.82	10.71	10.00	11.18	9.32	8.68	10.39	11.76	11.09	12.36
26	11.87	11.19	10.80	10.70	9.96	11.07	8.29	8.70	10.37	11.50	11.08	12.38
27	11.76	11.17	10.78	10.69	9.93	11.01	8.23	8.72	10.36	11.41	e10.77	12.78
28	11.73	11.14	10.78	10.69	9.89	10.97	8.18	8.73	10.42	11.21	e10.61	13.37
29	11.67	11.10	10.78	10.68	---	10.93	8.14	8.70	10.41	11.37	10.75	14.05
30	11.60	11.07	10.78	10.66	---	e11.36	8.08	8.67	10.41	11.48	e10.92	14.47
31	11.60	---	10.78	10.65	---	11.27	---	9.06	---	11.30	10.73	---
TOTAL	383.44	337.58	338.32	330.28	288.89	319.38	303.28	256.55	303.03	340.97	311.30	317.48
MEAN	12.78	11.25	10.91	10.65	10.32	10.30	10.11	8.28	10.10	11.00	11.53	12.21
MAX	14.89	11.56	11.04	10.77	10.65	12.24	11.09	9.06	10.42	12.60	13.39	14.47
MIN	11.60	11.07	10.78	10.57	9.89	9.47	8.08	7.80	9.32	10.34	10.61	10.75

e Estimated

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°56'28", long 80°26'23", in NE ¼ 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.--Electronic data logger with water-stage shaft encoder and acoustic doppler velocity meter with phone/radio telemetry provided by South Florida Water Management District. Prior to August 23, 1999, water-stage recorder and electromagnetic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to January 20, 1968 and October 1984 to November 1988, at site 0.5 mi downstream at same datum.

REMARKS.--Records poor. Flow affected by regulation at downstream salinity-control structure S-26 and by upstream storage releases at control structures 31, 32, and 32A.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 31 complete water years of discharge (1961-84, 87, 1992-94, 1999-2001).

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, 5.68 ft Oct. 4; minimum, 2.02 ft Apr. 25.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.94	3.12	2.75	2.55	2.58	2.17	2.84	2.24	2.68	2.74	2.46	2.77
2	3.14	3.08	2.77	2.53	2.57	2.17	2.76	2.31	2.78	2.70	2.70	2.75
3	4.07	3.06	2.78	2.53	2.55	2.17	2.69	2.40	2.75	2.65	2.69	2.78
4	5.38	3.05	2.76	2.60	2.59	2.17	2.63	2.89	2.70	2.60	2.76	2.78
5	4.83	3.04	2.74	2.62	2.61	2.26	2.59	2.81	2.68	2.62	2.73	2.76
6	4.68	3.04	2.66	2.65	2.57	2.20	2.58	2.77	2.64	2.63	2.71	2.81
7	4.54	3.04	2.62	2.64	2.54	2.16	2.59	2.71	2.62	2.71	2.55	2.72
8	4.38	3.06	2.63	2.55	2.53	2.16	2.56	2.66	2.59	2.74	2.67	2.90
9	4.22	3.06	2.71	2.47	2.52	2.15	2.49	2.62	2.58	2.71	2.81	2.93
10	4.13	3.03	2.96	2.50	2.51	2.15	2.44	2.58	2.57	2.67	2.83	2.79
11	4.04	3.02	3.03	2.60	2.51	2.18	2.43	2.54	2.58	2.74	2.86	2.56
12	3.97	3.03	2.75	2.62	2.48	2.18	2.41	2.52	2.66	2.68	2.90	2.72
13	3.90	3.04	2.64	2.63	2.45	2.12	2.38	2.48	2.58	2.71	2.85	3.23
14	3.82	3.01	2.66	2.65	2.43	2.12	2.34	2.45	2.53	2.73	2.81	3.22
15	3.74	2.98	2.81	2.66	2.40	2.11	2.32	2.44	2.50	2.79	2.80	3.07
16	3.65	3.01	2.81	2.65	2.39	2.09	2.28	2.40	2.50	2.70	2.80	3.03
17	3.57	2.92	2.76	2.66	2.36	2.11	2.23	2.37	2.56	2.79	2.80	3.13
18	3.48	2.84	2.75	2.66	2.36	2.27	2.20	2.35	2.54	2.79	2.80	3.11
19	3.40	2.85	2.70	2.69	2.36	2.51	2.20	2.33	2.51	2.76	2.80	3.10
20	3.35	2.80	2.71	2.69	2.32	2.54	2.19	2.32	2.45	2.76	2.78	3.03
21	3.35	2.76	2.70	2.65	2.29	2.43	2.17	2.31	2.40	2.83	2.78	2.99
22	3.33	2.75	2.67	2.67	2.26	2.37	2.17	2.27	2.63	2.75	2.84	2.96
23	3.25	2.82	2.67	2.64	2.25	2.34	2.15	2.60	2.71	2.63	2.79	2.93
24	3.28	2.89	2.69	2.64	2.28	2.35	2.11	3.05	2.72	2.74	2.74	2.91
25	3.28	3.00	2.71	2.62	2.28	2.35	2.13	2.89	2.77	2.80	2.75	2.89
26	3.26	2.96	2.69	2.62	2.24	2.31	2.23	2.84	2.74	2.78	2.73	2.90
27	3.23	2.90	2.66	2.63	2.22	2.29	2.21	2.92	2.63	2.78	2.74	2.85
28	3.20	2.84	2.63	2.64	2.20	2.31	2.19	2.91	2.31	2.72	2.76	2.80
29	3.18	2.79	2.61	2.64	---	2.35	2.18	2.85	2.35	2.77	2.78	3.81
30	3.15	2.73	2.58	2.61	---	2.72	2.16	2.75	2.74	2.76	2.80	3.68
31	3.13	---	2.57	2.59	---	2.67	---	2.64	---	2.56	2.80	---
TOTAL	114.87	88.52	84.18	81.10	67.65	70.48	70.85	80.22	78.00	84.34	85.62	88.91
MEAN	3.71	2.95	2.72	2.62	2.42	2.27	2.36	2.59	2.60	2.72	2.76	2.96
MAX	5.38	3.12	3.03	2.69	2.61	2.72	2.84	3.05	2.78	2.83	2.90	3.81
MIN	2.94	2.73	2.57	2.47	2.20	2.09	2.11	2.24	2.31	2.56	2.46	2.56

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	82	69	76	69	46	36	26	e42	42	69	72
2	101	86	73	72	66	56	35	23	47	54	68	65
3	100	80	68	71	64	58	39	24	45	36	90	74
4	116	82	70	66	65	50	34	28	40	e33	101	98
5	77	78	70	69	64	58	32	26	39	e36	89	97
6	78	74	74	70	61	59	34	24	42	40	76	101
7	60	71	69	66	62	56	42	23	44	e31	72	106
8	60	68	71	68	59	53	34	28	36	e25	68	108
9	48	70	71	68	62	56	32	24	33	e26	70	110
10	80	80	70	64	58	51	36	24	28	e26	66	112
11	70	73	73	67	66	67	32	25	31	e27	61	125
12	74	79	73	69	73	60	32	23	34	e28	54	130
13	73	78	78	68	79	53	28	28	28	e26	62	119
14	73	71	76	69	70	56	28	25	35	e25	70	125
15	69	74	78	65	71	55	29	26	37	e29	67	124
16	68	86	77	65	68	42	29	27	42	e26	69	122
17	64	73	75	65	47	49	26	28	43	e28	58	117
18	63	69	70	65	56	40	28	26	40	e27	61	121
19	62	80	71	63	71	49	29	25	44	e28	60	120
20	81	76	70	63	70	36	28	25	54	e27	62	119
21	85	69	68	66	66	51	29	24	38	e29	57	117
22	94	73	71	66	65	50	24	22	43	e29	52	115
23	94	75	72	65	54	53	27	27	37	e30	54	116
24	102	68	71	68	68	53	27	25	33	e29	e56	116
25	96	74	70	73	69	49	23	28	39	e72	e56	111
26	97	70	67	66	59	42	25	25	40	108	e56	105
27	80	71	69	63	57	41	22	27	45	96	e56	115
28	90	69	66	63	50	45	26	28	43	77	e56	129
29	96	69	72	61	---	47	24	27	42	76	54	119
30	98	69	73	66	---	50	26	37	39	76	61	113
31	87	---	70	64	---	39	---	e33	---	66	60	---
TOTAL	2526	2237	2215	2070	1789	1570	896	811	1183	1308	2011	3321
MEAN	81.5	74.6	71.5	66.8	63.9	50.6	29.9	26.2	39.4	42.2	64.9	111
MAX	116	86	78	76	79	67	42	37	54	108	101	130
MIN	48	68	66	61	47	36	22	22	28	25	52	65
AC-FT	5010	4440	4390	4110	3550	3110	1780	1610	2350	2590	3990	6590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961
MEAN	212	218	197	200	189	169	200	161	140	150	168	189
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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1981	1981	1981	1982	1982	1980	1980	1979	1979	1980	1980	1980

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1961 - 2001

ANNUAL TOTAL	70903	21937		
ANNUAL MEAN	194	60.1	197	
HIGHEST ANNUAL MEAN			476	1970
LOWEST ANNUAL MEAN			28.4	1997
HIGHEST DAILY MEAN	588	Jan 14	130	Sep 12
LOWEST DAILY MEAN	48	Oct 9	22	Apr 27
ANNUAL SEVEN-DAY MINIMUM	65	Mar 21	24	Apr 27
ANNUAL RUNOFF (AC-FT)	140600		43510	142700
10 PERCENT EXCEEDS	563		96	333
50 PERCENT EXCEEDS	97		63	150
90 PERCENT EXCEEDS	70		27	.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.

02287497 N.W. WELLFIELD CANAL NEAR DADE BROWARD LEVEE, NEAR PENNSUCO, FL

LOCATION.--Lat 25°53'28", long 80°26'13", in NE ¼ sec.28, T.52 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, (Pennsuco quadrangle), 0.7 mi north of Pennsuco Canal, 0.9 mi east of Dade Broward Levee, 2.5 mi southwest of the Miami Canal, 3 mi east of Levee 30 Canal, and 3.5 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 velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (DERM bench mark).

REMARKS.--Records fair except for estimated discharges, which are poor. Flow is the sum of regulation from vertical control structure DERM No. 1 and from levee seepage. Flow is positive to the east.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 6 water years of complete discharge (1992, 1996-2000).

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, 6.41 ft (estimated) Oct. 4; minimum, 3.01 ft Apr. 25.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.40	5.10	4.33	4.24	3.85	3.46	3.90	3.10	3.81	4.08	4.54	4.95
2	e4.44	5.04	4.32	4.22	3.84	3.44	3.85	3.19	4.02	4.02	4.85	4.93
3	e5.25	4.99	4.31	4.21	3.82	3.42	3.76	3.29	3.94	3.98	4.95	4.91
4	e6.35	4.94	4.29	4.22	3.83	3.41	3.71	3.86	3.88	e3.95	5.12	4.90
5	e6.17	4.89	4.28	4.20	3.87	3.60	3.66	3.86	3.90	3.91	5.19	4.90
6	6.08	4.83	4.26	4.18	3.85	3.54	3.62	3.77	3.89	3.90	5.26	4.93
7	6.13	4.78	4.25	4.16	3.84	3.49	3.62	3.70	3.79	3.93	5.22	4.95
8	6.03	4.74	4.24	4.13	3.82	3.46	3.59	3.65	3.74	3.95	5.18	5.00
9	5.97	4.70	4.25	4.09	3.81	3.44	e3.56	3.61	3.76	4.05	5.15	5.12
10	5.92	4.66	4.52	4.06	3.79	3.43	3.49	3.57	3.74	4.19	5.14	5.05
11	5.88	4.62	4.89	4.05	3.76	3.42	3.46	3.50	3.70	4.24	5.18	4.94
12	5.85	4.58	4.76	4.05	3.74	3.40	3.42	3.45	3.68	4.27	5.21	5.12
13	5.83	4.55	4.67	4.03	3.72	3.37	3.39	3.42	3.64	4.18	5.17	5.39
14	5.79	4.52	e4.61	4.02	3.71	3.34	3.36	3.37	3.60	4.15	5.16	5.46
15	5.75	4.50	4.53	4.01	3.69	3.33	3.33	3.34	3.56	4.39	5.16	5.46
16	5.69	e4.50	4.49	4.00	3.67	3.29	3.31	3.30	3.54	4.37	5.14	5.41
17	5.63	4.49	4.47	3.99	3.64	3.24	3.27	3.26	3.58	4.41	5.13	5.37
18	5.58	4.47	4.43	3.97	3.61	3.45	3.22	3.22	3.55	4.56	5.10	5.33
19	5.53	4.46	4.40	3.96	3.58	3.78	3.18	3.19	3.51	4.55	5.08	e5.33
20	5.49	4.44	4.36	4.07	3.56	3.82	3.16	3.16	3.47	4.53	5.05	5.28
21	5.45	4.39	4.35	4.03	3.55	e3.71	3.13	3.11	3.49	4.60	5.04	5.24
22	5.41	4.34	4.35	3.99	3.53	3.60	3.10	3.09	3.80	4.83	5.07	5.22
23	5.37	4.33	4.38	3.97	3.53	3.54	3.08	3.42	3.93	4.75	5.10	5.20
24	5.38	4.32	4.39	3.93	3.53	3.49	3.05	3.96	e4.01	4.75	5.08	5.17
25	5.36	4.50	4.39	3.91	3.52	3.45	3.05	3.80	4.05	4.66	5.07	5.17
26	5.33	4.53	4.37	3.89	3.51	3.41	3.10	3.73	4.16	4.59	5.04	5.16
27	5.31	4.46	4.33	3.87	3.49	3.37	3.06	3.88	4.13	4.53	5.00	5.20
28	5.27	4.41	4.30	3.86	3.48	3.34	3.05	3.95	4.13	4.47	5.00	5.28
29	5.23	4.38	4.30	3.85	---	3.33	3.04	3.87	4.12	4.43	5.01	5.79
30	5.19	4.35	4.27	3.89	---	e3.74	3.04	3.79	4.10	4.39	5.00	5.83
31	5.15	---	4.26	3.87	---	3.73	---	3.74	---	4.36	4.98	---
TOTAL	172.21	137.81	136.35	124.92	103.14	107.84	100.56	109.15	114.22	133.97	157.37	155.99
MEAN	5.56	4.59	4.40	4.03	3.68	3.48	3.35	3.52	3.81	4.32	5.08	5.20
MAX	6.35	5.10	4.89	4.24	3.87	3.82	3.90	3.96	4.16	4.83	5.26	5.83
MIN	4.40	4.32	4.24	3.85	3.48	3.24	3.04	3.09	3.47	3.90	4.54	4.90

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02287497 N.W. WELLFIELD CANAL NEAR DADE BROWARD LEVEE, NEAR PENNSUCO, FL
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	175	152	142	118	95	117	81	113	115	149	154
2	---	175	151	144	117	95	112	81	120	113	153	153
3	---	174	150	143	e115	94	107	81	114	113	153	156
4	e54	171	151	144	116	94	103	99	112	e111	159	157
5	e87	167	151	141	115	110	100	95	119	112	163	160
6	124	164	e150	138	116	104	99	89	116	112	167	160
7	133	161	150	e137	114	103	98	85	109	111	170	160
8	154	160	152	137	114	101	96	83	108	113	171	e165
9	165	159	153	136	112	101	e95	81	111	124	168	e169
10	168	159	158	135	110	100	91	79	107	127	163	e146
11	173	158	141	e133	108	100	89	82	106	133	162	e137
12	177	157	148	e133	108	98	87	79	105	131	165	e129
13	176	156	148	e133	108	98	85	78	102	125	164	e130
14	e177	157	e149	131	107	96	84	77	100	124	162	143
15	177	158	147	130	105	97	84	75	98	135	161	e153
16	e177	e162	146	130	e102	99	84	74	99	135	161	e155
17	173	163	146	129	101	102	83	75	101	150	160	154
18	174	164	144	128	99	117	81	73	99	153	160	153
19	173	165	e144	125	99	123	81	e70	97	138	158	e150
20	173	167	e142	135	99	128	80	71	95	134	156	e148
21	171	167	143	e129	97	e117	79	70	103	139	155	150
22	170	e161	144	125	98	112	78	73	122	140	151	147
23	172	164	147	126	98	108	79	110	e123	136	150	150
24	179	163	150	122	97	106	78	132	124	134	154	150
25	181	152	148	121	96	103	76	117	127	131	154	152
26	183	156	148	118	96	103	75	106	125	130	154	151
27	184	160	149	117	97	100	73	109	118	130	154	149
28	183	162	147	116	96	99	74	114	117	129	150	e142
29	183	160	145	118	---	97	74	108	115	129	152	e122
30	180	152	142	122	---	e114	74	102	116	131	153	e109
31	179	---	141	118	---	103	---	100	---	132	154	---
TOTAL	4766	4869	4577	4036	2958	3217	2616	2749	3321	3970	4906	4454
MEAN	164	162	148	130	106	104	87.2	88.7	111	128	158	148
MAX	184	175	158	144	118	128	117	132	127	153	171	169
MIN	54	152	141	116	96	94	73	70	95	111	149	109
AC-FT	9450	9660	9080	8010	5870	6380	5190	5450	6590	7870	9730	8830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	179	185	181	176	176	169	174	160	158	163	186	182
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	130	141	127	128	106	87.7	74.1	60.1	94.0	121	118	132
(WY)	1993	1994	1994	1994	2001	1992	1992	1992	1991	1993	1993	1993

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1991 - 2001
ANNUAL MEAN			182
HIGHEST ANNUAL MEAN			208
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	196	Apr 15	360
LOWEST DAILY MEAN	54	Oct 4	40
ANNUAL SEVEN-DAY MINIMUM	111	Jul 1	42
ANNUAL RUNOFF (AC-FT)			131600
10 PERCENT EXCEEDS	170		223
50 PERCENT EXCEEDS	150		181
90 PERCENT EXCEEDS	126		113

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 N.W. 36th Street bridge fender at Miami, 200 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

GAGE.--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, 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 ground-water 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. Discharge computed from continuous velocity record obtained from acoustic velocity meter.

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, 4.63 ft Oct. 4; minimum, 0.47 ft Sept. 15.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.61	2.58	2.68	2.54	2.58	2.22	2.69	2.13	2.56	2.73	1.66	2.56
2	2.42	2.56	2.71	2.52	2.57	2.19	2.70	2.21	2.66	2.70	1.62	2.57
3	2.97	2.55	2.70	2.55	2.57	2.18	2.60	2.24	2.68	2.65	1.63	2.65
4	3.71	2.58	2.73	2.64	2.60	2.20	2.56	2.67	2.62	2.63	1.66	2.66
5	2.74	2.56	2.72	2.64	2.65	2.35	2.53	2.73	2.64	2.63	1.56	2.60
6	2.48	2.58	2.62	2.67	2.58	2.28	2.48	2.72	2.59	2.65	1.52	2.62
7	2.34	2.62	2.59	2.65	2.55	2.23	2.46	2.66	2.60	2.72	1.51	2.42
8	2.21	2.66	2.62	2.55	2.52	2.21	2.44	2.59	2.60	2.67	2.20	2.63
9	2.12	2.67	2.68	2.52	2.49	2.17	2.42	2.54	2.60	2.62	2.49	2.44
10	2.37	2.65	2.35	2.52	2.49	2.20	2.38	2.50	2.59	2.59	2.55	1.98
11	2.35	2.69	1.86	2.61	2.49	2.18	2.34	2.45	2.58	2.65	2.49	1.53
12	2.32	2.65	1.75	2.65	2.45	2.15	2.31	2.43	2.64	2.57	2.50	1.59
13	2.26	2.68	1.75	2.68	2.42	2.16	2.29	2.41	2.60	2.73	2.49	1.79
14	2.15	2.65	2.14	2.69	2.40	2.13	2.30	2.37	2.55	2.68	2.52	1.64
15	2.03	2.70	2.60	2.69	2.38	2.10	2.29	2.36	2.52	2.51	2.54	1.46
16	1.99	2.72	2.60	2.68	2.37	2.10	2.26	2.33	2.54	2.54	2.55	2.06
17	2.01	2.62	2.61	2.68	2.39	2.10	2.23	2.29	2.59	2.64	2.59	2.60
18	1.98	2.69	2.66	2.67	2.36	2.21	2.20	2.26	2.56	2.56	2.61	2.63
19	1.93	2.67	2.64	2.66	2.31	2.46	2.14	2.24	2.52	2.53	2.56	2.64
20	2.37	2.66	2.70	2.70	2.29	2.50	2.10	2.21	2.47	2.53	2.58	2.58
21	2.54	2.61	2.70	2.70	2.28	2.41	2.09	2.18	2.41	2.38	2.54	2.58
22	2.55	2.58	2.68	2.72	2.26	2.36	2.06	2.15	2.52	1.72	2.56	2.57
23	2.34	2.67	2.66	2.72	2.27	2.32	2.03	2.38	2.61	1.64	2.50	2.54
24	2.61	2.70	2.70	2.68	2.26	2.30	2.01	2.65	2.61	2.15	2.53	2.52
25	2.65	2.59	2.70	2.67	2.26	2.31	2.10	2.56	2.58	2.52	2.56	2.51
26	2.65	2.62	2.65	2.64	2.26	2.29	2.20	2.59	2.56	2.53	2.54	2.51
27	2.64	2.71	2.62	2.64	2.24	2.27	e2.14	2.72	2.22	2.62	2.61	2.02
28	2.54	2.66	2.62	2.63	2.24	2.22	e2.10	2.63	1.58	2.55	2.58	1.72
29	2.58	2.61	2.62	2.60	---	e2.22	2.07	2.59	2.04	2.65	2.57	2.22
30	2.56	2.61	2.60	2.59	---	e2.66	2.04	2.59	2.73	2.69	2.62	2.12
31	2.54	---	2.57	2.59	---	2.67	---	2.57	---	2.07	2.65	---
TOTAL	75.56	79.10	78.83	81.69	67.53	70.35	68.56	75.95	75.59	78.05	72.09	68.96
MEAN	2.44	2.64	2.54	2.64	2.41	2.27	2.29	2.45	2.52	2.52	2.33	2.30
MAX	3.71	2.72	2.73	2.72	2.65	2.67	2.70	2.73	2.73	2.73	2.65	2.66
MIN	1.93	2.55	1.75	2.52	2.24	2.10	2.01	2.13	1.58	1.64	1.51	1.46

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288600 MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	151	7.0	13	3.6	-4.1	---	9.3	72	13	497	149
2	318	145	6.7	9.8	2.2	10	e.00	12	80	6.1	625	138
3	894	140	18	8.4	-13	12	e.00	75	7.7	2.9	622	82
4	1610	123	5.1	11	-2.3	.29	7.3	79	20	-.81	616	62
5	1360	118	5.5	11	-2.6	5.2	5.3	30	19	7.0	673	130
6	1230	116	7.4	7.1	4.1	3.5	13	11	24	5.1	667	142
7	1120	91	.22	e.00	3.7	2.6	15	12	23	.41	602	230
8	969	82	4.2	e.00	12	2.5	11	16	14	87	278	213
9	856	76	7.0	e.00	17	8.8	7.3	14	5.7	106	263	400
10	700	95	311	5.4	14	-3.6	7.8	13	8.6	84	214	530
11	653	59	e469	9.1	5.2	13	17	14	12	88	271	568
12	614	72	392	.96	16	14	19	12	13	114	275	607
13	591	71	332	7.4	17	6.0	16	9.7	7.8	6.7	252	860
14	578	66	206	4.5	16	13	2.7	8.5	14	83	219	762
15	568	21	119	2.9	16	18	.08	6.2	11	207	203	e767
16	534	13	110	1.4	14	9.3	4.8	4.2	4.2	141	190	e525
17	499	69	97	1.5	-7.3	-4.7	7.9	4.7	e.00	84	156	e355
18	469	9.9	52	4.1	12	-.20	12	5.8	16	178	135	e329
19	463	7.1	51	15	15	9.2	15	9.9	15	225	200	323
20	295	-.88	19	13	7.5	-5.2	14	8.4	e.00	229	157	323
21	262	-.09	e.00	-.18	7.0	3.9	15	13	e34	300	211	300
22	258	5.6	e.00	5.2	10	-1.1	17	16	e127	558	270	301
23	291	10	e.00	1.2	1.8	7.0	16	21	140	555	266	297
24	207	21	e.00	-.92	14	6.9	14	58	146	344	195	292
25	202	121	e.00	4.6	15	4.6	4.6	28	192	245	164	280
26	187	76	e.00	4.4	6.7	-2.4	4.0	e.00	174	222	152	284
27	188	3.7	e.00	4.3	.61	1.6	e.00	e.00	318	138	105	523
28	207	2.4	9.6	9.5	-6.1	13	e.00	e.00	453	155	127	613
29	183	5.2	16	14	---	e.00	10	16	189	95	137	1040
30	192	5.1	11	15	---	---	16	7.6	16	50	109	883
31	182	---	13	.61	---	e2.2	---	1.9	---	317	82	---
TOTAL	16814	1774.03	2268.72	183.27	199.11	145.29	271.78	516.20	2156.00	4645.40	8933	12308
MEAN	542	59.1	73.2	5.91	7.11	4.84	9.37	16.7	71.9	150	288	410
MAX	1610	151	469	15	17	18	19	79	453	558	673	1040
MIN	134	-.88	.00	-.92	-13	-5.2	.00	.00	.00	-.81	82	62
AC-FT	33350	3520	4500	364	395	288	539	1020	4280	9210	17720	24410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

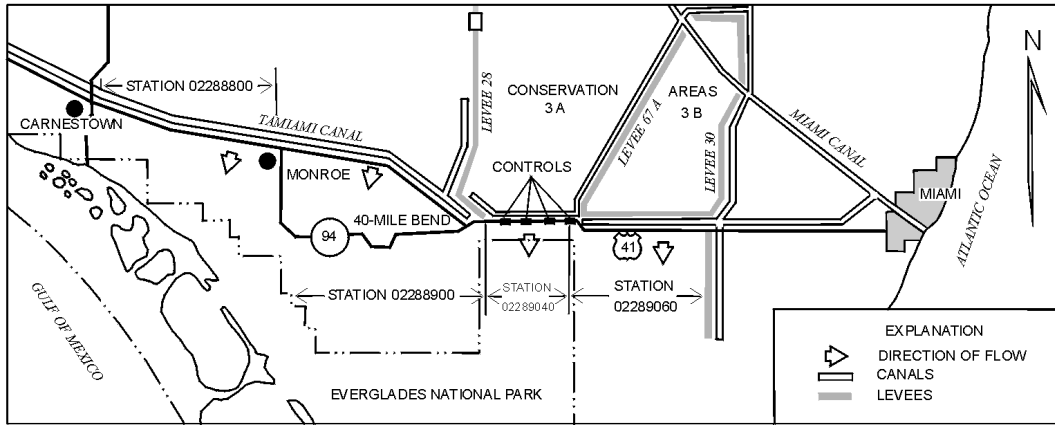
MEAN	373	276	204	188	184	147	121	127	251	259	286	362
MAX	1272	1071	1041	939	791	729	662	682	813	791	848	1146
(WY)	1961	1961	1960	1961	1961	1960	1960	1960	1968	1959	1960	1960
MIN	34.5	6.94	.000	.000	.000	-1.61	.000	-5.53	.33	4.08	2.32	76.6
(WY)	1981	1989	1982	1981	1982	1962	1974	1993	1980	1981	1987	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1959 - 2001
ANNUAL MEAN			251
HIGHEST ANNUAL MEAN			843
LOWEST ANNUAL MEAN			31.2
HIGHEST DAILY MEAN	1610 Oct 4	1610 Oct 4	1730 Oct 16 1999
LOWEST DAILY MEAN	-2.9 May 29	-13 Feb 3	-279 Jun 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00 Dec 21	-1.1 Jan 31	-69 May 26 1993
ANNUAL RUNOFF (AC-FT)			182000
10 PERCENT EXCEEDS	656	469	568
50 PERCENT EXCEEDS	149	16	170
90 PERCENT EXCEEDS	6.2	.00	.00

e Estimated

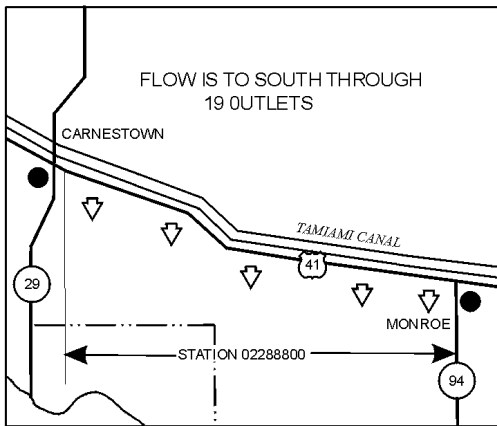
The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

TAMIAMI CANAL OUTLETS

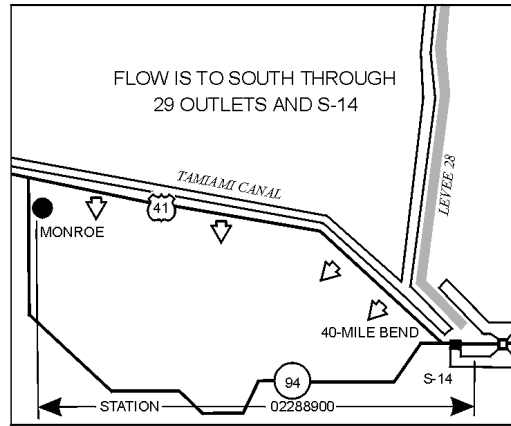


EXPLANATION

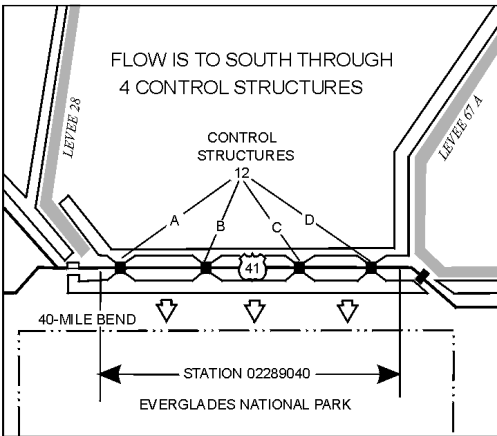
- DIRECTION OF FLOW
- CANALS
- LEVEES



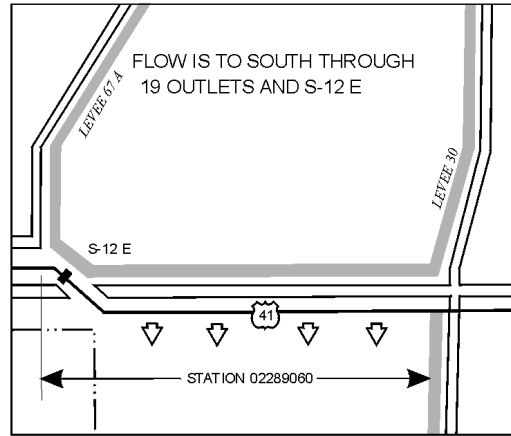
STATION 02288800 MONROE TO CARNESTOWN



STATION 02288900 40-MILE BEND TO MONROE



STATION 02289040 LEVEE 67A TO 40-MILE BEND



STATION 02289060 LEVEE 30 TO LEVEE 67A

Figure 8. 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. May 2, 1963, to February 10, 1965, at site on west bank of unnamed lateral 30 ft downstream.

REMARKS.--No estimated daily discharges. 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. Peak flow above base are not determined.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 40 complete water years of discharge (1960-94, 1996-2001).

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, 5.58 ft Oct. 4; minimum, -0.52 ft June 5-8.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.26	4.39	3.41	2.74	2.21	.83	.43	-.33	-.35	3.15	4.78	4.32
2	5.26	4.36	3.38	2.72	2.17	.78	.42	-.22	-.40	3.11	4.87	4.30
3	5.37	4.33	3.35	2.69	2.14	.74	.37	-.11	-.44	3.07	5.07	4.28
4	5.57	4.30	3.32	2.67	2.10	.73	.31	-.52	-.47	3.08	5.26	4.36
5	5.53	4.27	3.28	2.65	2.06	1.40	.34	.83	-.51	3.08	5.32	4.33
6	5.49	4.24	3.26	2.62	2.01	1.70	.98	.86	-.52	3.02	5.37	4.32
7	5.45	4.21	3.29	2.60	1.97	1.79	1.20	.82	-.52	3.06	5.32	4.31
8	5.39	4.18	3.29	2.57	1.92	1.77	1.21	.75	-.48	3.23	5.24	4.30
9	5.30	4.15	3.26	2.59	1.88	1.69	1.12	.67	-.30	3.26	5.14	4.28
10	5.17	4.12	3.26	2.57	1.83	1.63	1.00	.58	-.11	3.31	5.07	4.38
11	5.07	4.10	3.28	2.54	1.79	1.65	.89	.49	-.01	3.38	5.02	4.57
12	4.98	4.06	3.27	2.51	1.75	1.58	.79	.40	.00	3.46	4.99	4.75
13	4.90	4.02	3.25	2.49	1.69	1.46	.69	.31	.01	3.51	4.96	4.99
14	4.82	3.98	3.23	2.47	1.63	1.34	.60	.23	.55	3.57	4.93	5.33
15	4.76	3.94	3.20	2.45	1.57	1.22	.51	.15	.87	3.94	4.87	5.43
16	4.70	3.90	3.17	2.42	1.50	1.11	.42	.08	1.03	4.35	4.81	5.38
17	4.66	3.86	3.14	2.40	1.43	1.02	.34	.00	1.13	4.45	4.78	5.31
18	4.62	3.83	3.11	2.38	1.37	.93	.25	-.07	1.99	4.51	4.68	5.23
19	4.60	3.80	3.07	2.35	1.31	.85	.17	-.15	2.26	4.58	4.59	5.17
20	4.58	3.77	3.04	2.42	1.25	.99	.11	-.23	2.45	4.61	4.51	5.08
21	4.57	3.73	3.01	2.60	1.18	1.05	.06	-.30	2.90	4.54	4.47	4.99
22	4.56	3.68	2.99	2.62	1.12	1.01	.01	-.35	2.97	4.50	4.50	4.91
23	4.54	3.64	2.97	2.65	1.08	.94	-.05	-.31	2.95	4.51	4.47	4.85
24	4.54	3.61	2.95	2.62	1.03	.86	-.09	-.27	2.97	4.56	4.43	4.79
25	4.52	3.58	2.92	2.56	.99	.78	-.14	-.27	2.94	4.58	4.40	4.73
26	4.51	3.57	2.90	2.51	.95	.70	-.19	-.25	2.98	4.65	4.39	4.67
27	4.49	3.54	2.87	2.45	.91	.62	-.23	-.23	3.10	4.73	4.38	4.63
28	4.47	3.51	2.85	2.39	.87	.55	-.28	-.24	3.09	4.74	4.38	4.65
29	4.45	3.48	2.83	2.33	---	.49	-.32	-.23	3.11	4.73	4.37	5.02
30	4.43	3.45	2.80	2.28	---	.43	-.35	-.26	3.17	4.76	4.37	5.19
31	4.41	---	2.77	2.24	---	.39	---	-.31	---	4.75	4.35	---
TOTAL	150.97	117.60	96.72	78.10	43.71	33.03	10.57	2.56	36.36	122.78	148.09	142.85
MEAN	4.87	3.92	3.12	2.52	1.56	1.07	.35	.08	1.21	3.96	4.78	4.76
MAX	5.57	4.39	3.41	2.74	2.21	1.79	1.21	.86	3.17	4.76	5.37	5.43
MIN	4.41	3.45	2.77	2.24	.87	.39	-.35	-.35	-.52	3.02	4.35	4.28

02288900 TAMAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

LOCATION.--Lat 25°51'05", long 80°58'50", in SW ¼ 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, Dade County.

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.--No estimated daily discharges. Discharge 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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 340 ft³/s, 247,100 acre-ft/yr. Figures represent 60 complete water years of discharge (1964-88, 1990-97, 1999-2001). 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, 8.90 ft Sept. 29; minimum, 3.67 ft May 21, 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.51	8.15	7.78	7.52	6.94	6.03	6.56	4.23	7.07	7.78	8.67	8.31
2	8.51	8.13	7.76	7.50	6.92	5.98	6.48	4.20	7.37	7.72	8.77	8.29
3	8.63	8.12	7.75	7.47	6.89	5.92	6.37	4.17	7.83	7.67	8.85	8.27
4	8.86	8.11	7.73	7.46	6.86	5.91	6.27	4.16	7.86	7.64	8.84	8.28
5	8.83	8.09	7.71	7.44	6.84	6.57	6.23	4.14	7.82	7.65	8.82	8.25
6	8.79	8.08	7.69	7.42	6.81	6.61	6.21	4.10	7.91	7.61	8.81	8.23
7	8.76	8.07	7.69	7.39	6.79	6.54	6.14	4.07	8.00	7.72	8.76	8.22
8	8.71	8.05	7.67	7.37	6.76	6.48	6.04	4.03	7.98	7.94	8.71	8.28
9	8.67	8.04	7.66	7.36	6.73	6.42	5.93	4.00	7.96	7.93	8.67	8.42
10	8.64	8.03	7.69	7.33	6.71	6.38	5.81	3.97	7.90	7.94	8.62	8.47
11	8.60	8.02	7.74	7.30	6.68	6.37	5.69	3.95	7.83	8.00	8.58	8.52
12	8.57	8.01	7.75	7.28	6.65	6.31	5.59	3.92	7.76	8.09	8.55	8.64
13	8.53	8.00	7.79	7.26	6.62	6.24	5.49	3.89	7.69	8.07	8.51	8.63
14	8.50	7.99	7.79	7.24	6.59	6.16	5.41	3.86	7.62	8.08	8.49	8.69
15	8.47	7.97	7.78	7.22	6.56	6.09	5.33	3.83	7.55	8.14	8.51	8.71
16	8.45	7.96	7.77	7.20	6.53	6.00	5.28	3.82	7.51	8.16	8.48	8.68
17	8.42	7.95	7.76	7.18	6.50	5.91	5.21	3.78	7.50	8.17	8.46	8.67
18	8.40	7.94	7.74	7.16	6.46	6.02	5.11	3.75	7.45	8.21	8.43	8.66
19	8.37	7.93	7.73	7.14	6.45	6.43	4.93	3.72	7.41	8.23	8.41	8.66
20	8.35	7.92	7.71	7.18	6.42	6.99	4.79	3.70	7.58	8.23	8.40	8.62
21	8.33	7.90	7.70	7.21	6.38	6.93	4.70	3.69	7.94	8.34	8.40	8.60
22	8.31	7.89	7.69	7.20	6.34	6.85	4.63	3.67	7.93	8.44	8.39	8.60
23	8.29	7.87	7.67	7.20	6.30	6.78	4.58	4.52	7.94	8.72	8.39	8.56
24	8.28	7.85	7.66	7.15	6.25	6.71	4.53	5.51	7.89	8.73	8.38	8.52
25	8.28	7.85	7.64	7.11	6.21	6.64	4.48	5.62	7.85	8.71	8.37	8.49
26	8.27	7.85	7.62	7.08	6.17	6.56	4.43	5.68	7.81	8.68	8.35	8.47
27	8.25	7.84	7.60	7.05	6.16	6.49	4.38	5.67	7.83	8.66	8.33	8.51
28	8.22	7.82	7.59	7.03	6.10	6.41	4.34	5.71	7.91	8.64	8.31	8.57
29	8.21	7.81	7.59	7.01	---	6.43	4.30	5.71	7.89	8.60	8.30	8.85
30	8.19	7.80	7.57	6.99	---	6.58	4.27	5.78	7.84	8.59	8.32	8.87
31	8.17	---	7.54	6.97	---	6.58	---	6.48	---	8.57	8.33	---
TOTAL	262.37	239.04	238.56	224.42	183.62	198.32	159.51	137.33	232.43	253.66	264.21	255.54
MEAN	8.46	7.97	7.70	7.24	6.56	6.40	5.32	4.43	7.75	8.18	8.52	8.52
MAX	8.86	8.15	7.79	7.52	6.94	6.99	6.56	6.48	8.00	8.73	8.85	8.87
MIN	8.17	7.80	7.54	6.97	6.10	5.91	4.27	3.67	7.07	7.61	8.30	8.22

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288900 TAMIAAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	238	77	32	24	5.3	1.3	.00	2.4	28	1350	555
2	760	222	74	30	22	3.9	.15	.00	9.2	19	1790	536
3	1230	207	70	29	20	2.5	.00	.00	43	15	2080	494
4	2120	198	67	30	19	2.1	.00	.00	49	14	2080	511
5	2030	195	63	29	17	13	.00	.00	42	14	1990	439
6	1920	185	60	29	15	13	.00	.00	68	13	1970	383
7	1790	174	58	28	14	11	.00	.00	92	29	1820	349
8	1620	164	56	28	12	9.4	.00	.00	84	58	1650	431
9	1440	157	53	28	11	7.5	.00	.00	78	55	1490	658
10	1310	148	54	27	9.7	6.5	.00	.00	61	57	1320	764
11	1170	144	58	27	8.5	5.9	.00	.00	47	77	1190	915
12	1040	140	58	26	7.3	4.6	.00	.00	35	106	1100	1340
13	958	135	61	26	6.4	3.1	.00	.00	26	99	1000	1300
14	851	131	59	26	5.6	1.8	.00	.00	23	100	958	1560
15	787	126	57	25	4.9	.63	.00	.00	20	146	1040	1650
16	718	119	56	25	4.9	.00	.00	.00	17	168	968	1530
17	649	115	55	25	4.9	.00	.00	.00	16	176	908	1460
18	592	113	53	24	5.1	.77	.00	.00	13	210	859	1430
19	540	110	51	23	5.4	6.4	.00	.00	12	225	779	1400
20	506	107	50	27	5.5	26	.00	.00	30	229	761	1210
21	476	104	48	29	5.6	22	.00	.00	69	376	756	1120
22	441	99	46	30	5.6	17	.00	.00	67	570	740	1080
23	403	95	45	30	5.5	13	.00	.00	68	1540	734	927
24	394	93	44	29	5.4	9.1	.00	.00	56	1620	722	797
25	399	91	43	27	5.4	6.4	.00	.00	44	1500	694	705
26	369	90	41	26	5.5	4.2	.00	.00	37	1370	660	638
27	341	88	39	25	5.9	2.5	.00	.00	41	1300	610	731
28	320	85	38	25	5.7	1.1	.00	.00	58	1200	567	922
29	303	83	38	25	---	.93	.00	.00	53	1060	548	1980
30	283	80	36	25	---	2.3	.00	.00	40	1020	583	2050
31	261	---	33	25	---	1.9	---	1.7	---	933	612	---
TOTAL	26779	4036	1641	840	266.8	203.83	1.45	1.70	1300.6	14327	34329	29865
MEAN	864	135	52.9	27.1	9.53	6.58	.048	.055	43.4	462	1107	996
MAX	2120	238	77	32	24	26	1.3	1.7	92	1620	2080	2050
MIN	261	80	33	23	4.9	.00	.00	.00	2.4	13	548	349
AC-FT	53120	8010	3250	1670	529	404	2.9	3.4	2580	28420	68090	59240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	MEAN	821	463	262	201	155	139	79.4	64.8	331	569	678	800
MAX	4052	3057	3369	3062	1790	971	437	583	1707	2021	1499	2275	
(WY)	1996	1995	1995	1995	1995	1995	1983	1969	1982	1966	1966	1995	
MIN	66.6	26.4	3.80	1.54	.53	.000	.000	.000	.61	50.6	29.7	135	
(WY)	1973	1975	1991	1990	1985	1971	1971	1967	1989	1987	1987	1967	

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	83376.06		113591.38			
ANNUAL MEAN	228		311		387	
HIGHEST ANNUAL MEAN					1660	
LOWEST ANNUAL MEAN					118	
HIGHEST DAILY MEAN	2120		2120		7270	
LOWEST DAILY MEAN	.00		.00		.00	
ANNUAL SEVEN-DAY MINIMUM	.00		.00		.00	
ANNUAL RUNOFF (AC-FT)	165400		225300		280000	
10 PERCENT EXCEEDS	607		1180		1060	
50 PERCENT EXCEEDS	111		44		128	
90 PERCENT EXCEEDS	3.4		.00		.94	

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 ¼ 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.

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, 8.47 ft Sept. 29, 30; minimum, 5.21 ft May 22, 23.

REVISIONS.--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.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.59	7.77	7.46	7.32	7.13	6.42	6.27	5.59	5.76	6.81	7.13	e7.49
2	7.60	7.75	7.45	7.31	7.12	6.38	6.26	5.61	5.94	6.79	7.24	e7.48
3	7.82	7.73	7.44	7.30	7.11	6.35	6.22	5.65	6.00	6.77	7.33	e7.47
4	8.17	7.72	7.44	7.30	7.10	6.34	6.18	5.88	6.03	6.75	7.39	e7.47
5	8.16	7.70	7.43	7.29	7.10	6.42	6.16	5.88	6.05	6.79	7.42	e7.47
6	8.16	7.68	7.41	7.29	7.07	6.38	6.14	5.83	6.05	6.79	7.44	e7.47
7	8.21	7.67	7.41	7.28	7.06	6.34	6.21	5.78	6.01	6.85	7.43	e7.45
8	8.21	7.66	7.41	7.27	7.04	6.31	6.18	5.74	6.04	6.96	7.42	7.47
9	8.19	7.65	7.40	7.26	7.03	6.29	6.14	5.70	6.18	7.00	7.42	7.51
10	8.17	7.65	7.42	7.25	7.02	6.28	6.10	5.67	6.21	7.00	7.41	7.55
11	8.16	7.64	7.47	7.24	7.01	6.26	6.07	5.63	6.17	6.99	7.47	7.60
12	8.14	7.63	7.47	7.24	6.99	6.24	6.04	5.59	6.13	6.99	7.52	7.63
13	8.13	7.62	7.46	7.22	6.97	6.22	6.02	5.56	6.10	6.97	7.50	7.74
14	8.11	7.61	7.46	7.22	6.94	6.19	5.99	5.52	6.13	6.96	7.49	7.87
15	8.08	7.60	7.45	7.21	6.92	6.17	5.97	5.49	6.16	7.01	7.50	7.93
16	8.06	7.59	7.45	7.21	6.90	6.14	5.94	5.46	6.25	7.02	7.49	7.93
17	8.04	7.58	7.44	7.20	6.87	6.12	5.91	5.43	6.41	7.05	7.49	7.93
18	8.02	7.57	7.43	7.19	6.83	6.19	5.87	5.39	6.39	7.11	7.48	7.93
19	8.00	7.56	7.43	7.19	6.79	6.29	5.83	5.35	6.38	7.13	7.48	7.96
20	7.99	7.56	7.41	7.20	6.75	6.40	5.81	5.31	6.34	7.12	7.47	7.95
21	7.97	7.55	7.40	7.21	6.71	6.36	5.78	5.27	6.34	7.17	7.48	7.94
22	7.95	7.53	7.39	7.21	6.66	6.32	5.75	5.23	6.42	7.22	7.49	7.92
23	7.93	7.52	7.39	7.21	6.62	6.28	5.73	5.37	6.49	7.21	7.51	7.91
24	7.91	7.51	7.39	7.20	6.58	6.26	5.71	5.71	6.58	7.20	7.51	7.92
25	7.89	7.51	7.38	7.19	6.54	6.23	5.67	5.72	6.66	7.19	7.51	7.92
26	7.87	7.51	7.37	7.18	6.51	6.20	5.64	5.70	6.77	7.17	7.51	7.92
27	7.85	7.50	7.36	7.18	6.48	6.17	e5.62	5.70	6.78	7.15	7.50	7.97
28	7.84	7.49	7.36	7.17	6.45	6.15	e5.60	5.73	6.84	7.13	7.49	8.06
29	7.81	7.48	7.35	7.16	---	6.13	e5.58	5.74	6.84	7.11	7.49	8.39
30	7.80	7.47	7.35	7.15	---	6.22	e5.58	5.73	6.82	7.10	7.49	8.47
31	7.78	---	7.33	7.14	---	6.22	---	5.72	---	7.08	e7.49	---
TOTAL	247.61	228.01	229.81	223.99	192.30	194.27	177.97	173.68	189.27	217.59	230.99	233.72
MEAN	7.99	7.60	7.41	7.23	6.87	6.27	5.93	5.60	6.31	7.02	7.45	7.79
MAX	8.21	7.77	7.47	7.32	7.13	6.42	6.27	5.88	6.84	7.22	7.52	8.47
MIN	7.59	7.47	7.33	7.14	6.45	6.12	5.58	5.23	5.76	6.75	7.13	7.45

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261533080571600 L-28 INTERCEPTOR CANAL BELOW S-190 NEAR CLEWISTON, FL

LOCATION.--Lat 26°15'33", long 80°57'16", in SW ¼ 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 16, 1996 to current year.

GAGE.--Water-stage shaft encoder, acoustic velocity meter, and acoustic doppler velocity meter provided by the U.S. Geological Survey. 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 (R. D. Price and Assoc. bench mark).

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. Discharge computed from continuous velocity record obtained from acoustic doppler velocity meter and acoustic velocity meter. Flow is positive to the south.

COOPERATION.--Seminole Tribe of Florida.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 4 complete water years of discharge (1998-2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.80 ft Nov. 5, 1998; minimum, 9.13 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 13.78 ft Sept. 18; minimum, 9.13 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.56	11.68	11.18	10.93	11.13	10.75	10.63	9.84	9.55	11.32	11.67	11.24
2	11.52	11.61	11.18	10.91	11.11	10.73	10.64	9.83	9.56	11.26	11.81	11.22
3	11.75	11.57	11.15	10.90	11.09	10.71	10.65	9.81	9.57	11.13	11.86	11.20
4	13.01	11.69	11.12	10.88	11.10	10.69	10.62	9.84	9.58	11.09	11.96	11.31
5	13.53	11.62	11.11	10.89	11.07	10.68	10.62	9.84	9.58	11.33	11.92	11.47
6	13.53	11.57	11.12	10.88	11.07	10.65	10.70	9.82	9.61	11.22	11.83	11.41
7	13.47	11.55	11.12	10.88	11.07	10.62	10.71	9.78	9.61	11.14	11.81	11.53
8	13.30	11.56	11.13	10.88	11.06	10.61	10.69	9.74	9.66	11.15	11.75	11.70
9	13.08	11.69	11.13	10.84	11.06	10.60	10.67	9.72	9.76	11.29	11.78	11.90
10	12.83	11.53	11.14	10.87	11.05	10.58	10.66	9.67	9.79	11.37	11.79	12.05
11	12.70	11.45	11.16	10.92	11.04	10.57	10.64	9.64	9.81	11.35	11.76	12.10
12	12.61	11.43	11.15	10.94	11.04	10.58	10.63	9.59	9.81	11.38	11.73	12.21
13	12.35	11.43	11.17	10.94	11.03	10.54	10.59	9.54	9.81	11.32	11.71	12.47
14	12.32	11.41	11.16	10.97	11.02	10.51	10.55	9.51	9.97	11.29	11.71	12.80
15	12.27	11.36	11.16	10.99	11.01	10.50	10.52	9.47	10.38	11.48	11.60	12.78
16	12.11	11.37	11.16	11.01	11.00	10.47	10.48	9.43	10.36	11.50	11.60	12.68
17	12.06	11.36	11.12	11.03	10.96	10.43	10.43	9.39	10.34	11.51	11.62	12.59
18	12.04	11.34	11.10	11.04	10.94	10.41	10.35	9.35	10.33	11.52	11.48	12.53
19	12.01	11.35	11.07	11.09	10.93	10.50	10.32	9.31	10.39	11.42	11.53	12.28
20	11.99	11.30	11.04	11.07	10.91	10.63	10.29	9.26	10.81	11.37	11.51	12.42
21	11.91	11.22	11.03	11.06	10.89	10.62	10.24	9.23	10.81	11.42	11.39	12.39
22	11.87	11.23	11.02	11.08	10.87	10.61	10.21	9.19	10.77	11.46	11.55	12.18
23	11.91	11.24	11.00	11.07	10.86	10.62	10.17	9.26	10.97	11.73	11.46	12.17
24	11.87	11.27	10.99	11.09	10.86	10.62	10.13	9.39	11.23	11.90	11.36	12.01
25	11.80	11.26	10.98	11.08	10.85	10.61	10.08	9.42	11.08	11.85	11.32	12.03
26	11.88	11.25	10.99	11.10	10.81	10.59	10.02	9.43	11.24	11.82	11.29	11.99
27	11.75	11.22	10.99	11.10	10.79	10.57	9.99	9.45	11.32	11.95	11.27	11.99
28	11.81	11.22	11.00	11.11	10.77	10.57	9.95	9.47	11.34	11.80	11.25	12.17
29	11.80	11.21	10.97	11.13	---	10.57	9.91	9.48	11.42	11.73	11.25	13.08
30	11.68	11.18	10.95	11.13	---	10.63	9.86	9.49	11.23	11.72	11.28	13.23
31	11.77	---	10.94	11.13	---	10.61	---	9.52	---	11.70	11.27	---
TOTAL	380.09	342.17	343.53	340.94	307.39	328.38	311.95	295.71	309.69	355.52	359.12	363.13
MEAN	12.26	11.41	11.08	11.00	10.98	10.59	10.40	9.54	10.32	11.47	11.58	12.10
MAX	13.53	11.69	11.18	11.13	11.13	10.75	10.71	9.84	11.42	11.95	11.96	13.23
MIN	11.52	11.18	10.94	10.84	10.77	10.41	9.86	9.19	9.55	11.09	11.25	11.20

261533080571600 L-28 INTERCEPTOR CANAL BELOW S-190 NEAR CLEWISTON, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	21	-20	.97	-12	-8.9	29	4.4	-40	103	164	-28
2	63	-30	15	-15	8.1	21	-22	-35	-39	-12	231	-11
3	123	23	12	-3.5	23	-58	-52	-17	-12	-13	285	8.8
4	1660	127	5.3	-11	16	-41	-2.7	-4.5	-34	9.9	296	89
5	2050	57	4.4	10	17	-2.0	-45	7.6	-17	135	325	70
6	1970	-36	50	6.6	-4.7	3.1	-20	-18	-24	-6.5	102	123
7	1820	-57	36	-15	-17	-.83	-35	-17	-7.2	-40	212	118
8	1590	16	24	-21	-26	11	-23	-16	-11	-6.7	331	273
9	1290	5.9	-83	1.4	-14	-46	-16	-34	1.6	85	419	401
10	951	26	-29	-3.8	-20	7.8	-9.8	-22	2.1	133	364	527
11	876	21	-33	-21	-18	7.6	-36	-38	-40	-27	247	531
12	706	48	-49	-3.0	-7.6	-39	-37	-13	-32	171	20	653
13	422	-64	-29	24	-11	-36	-42	12	-9.7	26	317	940
14	420	-56	-36	.10	-28	11	16	13	87	82	281	1060
15	389	25	-23	14	-32	-39	24	-55	-14	155	220	1130
16	249	-36	-16	-25	-25	-58	20	30	-34	160	217	928
17	212	-21	5.6	-5.2	14	-12	13	1.6	-22	163	167	848
18	221	46	26	-11	-14	18	-20	-34	-8.5	137	-32	794
19	220	-65	1.4	-48	-13	-7.8	-19	-21	68	24	40	370
20	e162	-4.3	-2.0	-23	-14	20	-21	-36	11	105	213	817
21	103	-12	12	-12	-2.6	-3.9	-32	-41	-26	34	.87	516
22	92	12	6.5	-17	-3.9	14	-29	-51	-6.7	82	134	281
23	169	-32	2.7	-8.3	1.2	-2.7	-21	-14	102	305	113	270
24	93	-25	-.49	9.7	-18	-32	-25	24	21	415	89	126
25	101	-40	5.3	-1.2	-20	-12	9.6	-32	-19	316	143	337
26	156	-15	-27	-3.1	-24	14	21	-25	150	421	56	248
27	39	20	-36	-29	-5.4	8.2	-15	-4.2	45	436	28	131
28	150	38	-34	-10	10	-14	-31	-23	140	299	e24	181
29	47	17	1.3	-7.0	---	-32	-13	-27	100	292	27	1360
30	54	11	-7.4	-43	---	-26	-8.2	-25	-23	270	-74	1450
31	132	---	1.9	-11	---	17	---	-19	---	215	-37	---
TOTAL	16604	20.6	-215.49	-280.33	-240.9	-318.43	-442.1	-529.1	308.6	4468.7	4922.87	14541.8
MEAN	536	.69	-6.95	-9.04	-8.60	-10.3	-14.7	-17.1	10.3	144	159	485
MAX	2050	127	50	24	23	21	29	30	150	436	419	1450
MIN	39	-65	-83	-48	-32	-58	-52	-55	-40	-40	-74	-28
AC-FT	32930	41	-427	-556	-478	-632	-877	-1050	612	8860	9760	28840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001
MEAN	284	77.4	29.4	-3.44	2.80
MAX	536	302	164	80.6	108
(WY)	2001	1999	1998	1998	2000
MIN	42.5	.69	-49.7	-53.5	-39.2
(WY)	1998	2001	1997	2000	1997

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1997 - 2001

ANNUAL TOTAL	13941.67	38840.22	
ANNUAL MEAN	38.1	106	73.4
HIGHEST ANNUAL MEAN			106
LOWEST ANNUAL MEAN			38.6
HIGHEST DAILY MEAN	2050	Oct 5	2050
LOWEST DAILY MEAN	-135	Jan 18	-135
ANNUAL SEVEN-DAY MINIMUM	-91	Jan 17	-91
ANNUAL RUNOFF (AC-FT)	27650		53140
10 PERCENT EXCEEDS	92		216
50 PERCENT EXCEEDS	-8.2		10
90 PERCENT EXCEEDS	-63		-50

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261543080495000 L28 CANAL ABOVE S-140 NEAR CLEWISTON, FL

LOCATION.--Lat 26°15'43", long 80°49'50", in SW ¼ 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 3, 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.--No estimated daily discharge. Records are fair. Flow affected by G-89 and 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.

COOPERATION.--Seminole Tribe of Florida.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent three complete water years of discharge (1998-2000).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.06 ft Oct. 16, 1999; minimum, 8.04 ft Oct. 29, 2000.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.74 ft July 23; minimum, 8.04 ft Oct. 29.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.03	9.74	10.60	10.52	10.36	9.76	10.69	9.53	9.97	10.69	9.97	9.90
2	9.55	9.98	10.59	10.50	10.35	9.74	10.66	9.52	10.03	10.65	9.41	10.24
3	8.91	10.15	10.58	10.49	10.33	9.71	10.64	9.50	10.04	10.61	9.51	10.40
4	10.77	10.38	10.57	10.49	10.33	9.69	10.62	9.57	10.10	10.60	9.50	10.60
5	11.00	10.65	10.57	10.48	10.30	9.77	10.61	9.58	10.53	10.63	9.53	10.76
6	10.34	9.96	10.57	10.47	10.28	9.78	10.64	9.55	10.76	10.57	10.03	10.18
7	9.80	10.12	10.59	10.47	10.27	9.76	10.64	9.50	10.67	10.54	10.05	9.75
8	10.05	9.58	10.60	10.46	10.24	9.74	10.62	9.46	10.71	10.57	9.95	9.55
9	9.98	9.19	10.60	10.45	10.23	9.72	10.59	9.41	10.78	10.70	9.83	10.21
10	9.90	9.62	10.61	10.44	10.21	9.69	10.57	9.35	10.70	10.83	9.97	9.84
11	9.78	10.14	10.63	10.44	10.19	9.67	10.54	9.30	10.65	10.90	9.91	8.47
12	9.52	10.43	10.64	10.44	10.17	9.65	10.50	9.25	10.57	10.90	9.76	9.02
13	9.61	10.58	10.65	10.42	10.15	9.62	10.46	9.20	10.53	10.89	9.80	8.72
14	9.52	9.82	10.64	10.41	10.13	9.58	10.42	9.15	10.64	10.92	9.65	9.19
15	9.59	9.82	10.63	10.41	10.11	9.55	10.38	9.11	10.69	11.04	9.54	9.81
16	9.62	10.24	10.63	10.40	10.08	9.52	10.33	9.07	10.67	11.04	9.43	10.75
17	9.60	9.87	10.62	10.40	10.06	9.49	10.30	9.02	10.66	11.05	9.51	10.62
18	9.56	9.86	10.60	10.39	10.02	9.49	10.19	8.97	10.70	11.15	9.22	10.06
19	9.59	10.21	10.60	10.39	10.00	9.79	10.10	8.91	10.67	11.25	9.18	9.39
20	9.90	10.39	10.57	10.43	9.98	10.40	10.04	8.87	10.62	11.28	9.81	9.11
21	9.82	10.47	10.57	10.47	9.96	10.50	9.98	8.83	10.60	11.32	10.54	9.23
22	9.79	10.53	10.56	10.50	9.95	10.52	9.93	8.81	10.61	11.46	9.93	9.90
23	9.51	10.56	10.55	10.54	9.92	10.52	9.89	8.91	10.70	11.14	10.45	10.13
24	9.29	10.59	10.53	10.54	9.89	10.54	9.85	9.25	10.77	10.21	9.91	10.23
25	9.27	10.61	10.53	10.52	9.87	10.55	9.80	9.37	10.72	9.45	10.22	10.25
26	9.24	10.62	10.53	10.51	9.84	10.54	9.74	9.45	10.70	9.30	10.64	9.93
27	9.63	10.60	10.52	10.50	9.82	10.52	9.69	9.54	10.70	9.45	9.88	9.69
28	10.14	10.61	10.54	10.48	9.80	10.51	9.64	9.69	10.77	9.60	10.02	9.13
29	8.79	10.60	10.56	10.43	---	10.52	9.59	9.76	10.75	10.27	10.44	9.79
30	9.55	10.60	10.55	10.35	---	10.65	9.55	9.79	10.72	10.29	10.63	9.85
31	10.08	---	10.53	10.36	---	10.67	---	9.84	---	10.26	9.88	---
TOTAL	301.73	306.52	328.06	324.10	282.84	310.16	307.20	289.06	317.73	329.56	306.10	294.70
MEAN	9.73	10.22	10.58	10.45	10.10	10.01	10.24	9.32	10.59	10.63	9.87	9.82
MAX	11.00	10.65	10.65	10.54	10.36	10.67	10.69	9.84	10.78	11.46	10.64	10.76
MIN	8.79	9.19	10.52	10.35	9.80	9.49	9.55	8.81	9.97	9.30	9.18	8.47

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261543080495000 L28 CANAL ABOVE S-140 NEAR CLEWISTON, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	102	-26	-5.0	45	33	-40	-17	36	154	---	49
2	163	27	-40	-1.0	53	43	-56	-35	35	126	---	30
3	114	61	-5.8	-4.3	-8.4	19	46	-29	15	100	---	16
4	801	27	1.2	5.4	23	6.5	21	-27	51	98	236	63
5	853	26	1.4	-3.9	-13	.54	5.9	-15	89	87	186	73
6	782	107	-28	-21	-19	-6.4	-.21	-22	122	55	251	99
7	758	70	-32	5.5	-24	-18	48	-14	148	61	167	113
8	727	117	-15	41	-34	-35	50	-11	164	63	206	136
9	697	76	-22	8.7	16	10	28	-35	169	35	169	173
10	650	41	-7.3	-8.8	15	-2.8	32	-41	175	89	176	288
11	619	16	50	16	.28	45	64	-34	210	149	163	220
12	575	-17	37	27	30	31	40	-53	191	142	147	255
13	555	51	56	-7.7	42	33	55	-46	170	131	129	273
14	522	100	50	-19	38	37	4.9	-42	126	129	143	346
15	483	14	29	-22	24	43	12	-2.8	115	130	130	281
16	441	58	26	-23	23	17	12	-23	136	142	135	271
17	436	83	-13	18	9.5	33	-44	-17	134	145	122	296
18	398	-4.1	-6.9	43	4.3	1.4	-5.7	28	124	109	110	319
19	360	39	4.6	36	8.8	19	-31	15	74	104	91	273
20	327	21	5.5	10	18	19	-4.0	19	74	107	62	264
21	310	17	-9.2	-2.5	-1.1	15	-12	4.2	100	128	79	206
22	279	8.1	-2.6	7.8	13	1.6	-18	-1.3	95	135	121	215
23	269	-5.3	-4.4	-3.3	-17	-21	-12	-10	125	203	35	204
24	232	50	-1.6	-18	17	43	-5.3	-27	121	240	96	216
25	162	64	-3.6	-4.8	17	68	-8.0	1.8	135	---	26	201
26	87	52	-17	-26	38	1.4	-20	14	113	---	-1.2	204
27	83	4.3	9.6	-26	54	-66	-37	18	117	168	69	205
28	95	-22	30	-.30	54	39	-13	18	128	---	3.5	184
29	81	-14	5.1	26	---	53	-10	32	124	---	14	375
30	76	-7.6	6.4	18	---	40	-6.0	32	140	---	45	396
31	21	---	6.9	40	---	91	---	22	---	---	113	---
TOTAL	12049	1161.4	84.3	105.80	426.38	593.24	96.59	-298.1	3556	3030	3223.3	6244
MEAN	389	38.7	2.72	3.41	15.2	19.1	3.22	-9.62	119	121	115	208
MAX	853	117	56	43	54	91	64	32	210	240	251	396
MIN	21	-22	-40	-26	-34	-66	-56	-53	15	35	-1.2	16
AC-FT	23900	2300	167	210	846	1180	192	-591	7050	6010	6390	12380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001
MEAN	255	113	50.1	21.4	29.4
MAX	495	287	140	67.0	102
(WY)	2000	1999	1998	1998	1998
MIN	59.3	9.04	2.72	-3.51	-7.12
(WY)	1998	1998	2001	2000	1997

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	19807.99				
ANNUAL MEAN	54.1				88.3
HIGHEST ANNUAL MEAN					116
LOWEST ANNUAL MEAN					71.3
HIGHEST DAILY MEAN	853	Oct 5	853	Oct 5	853
LOWEST DAILY MEAN	-61	Apr 30	-66	Mar 27	-67
ANNUAL SEVEN-DAY MINIMUM	-30	Feb 20	-37	May 8	-37
ANNUAL RUNOFF (AC-FT)	39290				63950
10 PERCENT EXCEEDS	139		233		230
50 PERCENT EXCEEDS	11		36		48
90 PERCENT EXCEEDS	-26		-19		-17

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.

02289027 DRAINAGE CANAL BELOW STRUCTURE G-136, NEAR CLEWISTON, FL

LOCATION.--Lat 26°40'02", long 80°56'18", in SW ¼ sec.9, T.44 S., R.34 E., Hendry County, Hydrologic Unit 03090202, approximately 1,000 ft east of structure G-136, and approximately 6 mi south of Clewiston, FL.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May - July 1992 (gage heights only), August 1992 to current year.

REVISED RECORDS.--WDR FL-94-2A:1992, 1993.

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. Flow affected by structure activity at G-136 and by agricultural pumping. Discharge computed from continuous record of acoustic velocity and stage.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 3 complete water years of discharge (1996-97, 2000).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.88 ft Nov. 5, 1998; minimum, 9.08 ft May 21, 22, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 13.26 ft Sept. 29; minimum, 9.08 ft May 21, 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.83	11.29	10.73	10.58	10.55	9.21	10.32	9.16	9.17	10.78	11.48	10.62
2	10.85	11.13	10.75	10.55	10.48	9.28	11.00	9.15	9.92	10.58	10.98	10.84
3	10.40	10.93	10.76	10.40	10.51	9.20	10.99	9.16	10.90	10.33	11.38	10.56
4	11.80	11.06	10.68	10.06	10.43	9.19	10.61	9.17	11.18	10.21	11.47	10.75
5	12.55	11.23	10.64	9.65	10.27	9.33	10.50	9.33	11.40	10.22	---	11.53
6	12.58	11.25	10.62	9.97	10.24	e9.30	10.34	10.02	10.84	10.28	---	11.24
7	11.95	11.07	10.56	10.20	10.18	9.44	10.17	9.56	11.27	10.54	---	10.80
8	11.61	10.95	10.61	10.39	10.05	9.31	10.18	9.76	11.37	10.47	11.20	e10.99
9	11.45	10.91	10.65	10.30	10.07	9.39	9.97	9.36	10.42	10.21	11.08	10.48
10	11.17	10.87	10.60	9.95	10.01	9.24	10.55	9.42	10.80	10.38	10.91	e11.38
11	10.84	11.22	10.70	10.16	10.04	9.30	10.71	9.59	10.84	10.93	11.02	11.20
12	10.54	10.94	10.72	10.41	10.11	9.54	10.81	9.76	11.10	11.15	10.90	10.63
13	11.39	10.88	10.63	10.35	10.06	9.37	10.42	9.56	10.69	11.10	10.92	11.18
14	11.44	10.90	e10.70	10.35	10.01	9.40	10.44	9.33	10.83	10.73	10.96	11.42
15	11.04	10.99	10.64	10.45	9.84	9.23	10.28	9.34	10.97	11.26	10.84	11.26
16	10.94	10.95	10.66	10.28	9.88	9.24	9.80	9.39	10.98	11.63	10.86	11.00
17	11.06	10.86	10.55	10.10	9.83	9.20	10.29	9.28	10.90	11.52	10.80	11.32
18	10.97	11.19	10.58	10.04	9.77	9.21	10.41	9.45	10.58	11.33	10.97	10.97
19	11.56	11.15	10.57	10.28	9.76	9.47	10.48	9.16	10.63	11.51	10.89	11.03
20	11.79	11.01	10.69	10.20	9.68	10.57	10.32	9.11	10.97	11.10	10.75	11.02
21	11.85	11.21	11.06	10.16	9.64	11.79	9.67	9.09	10.94	10.41	---	11.16
22	11.77	10.88	10.67	10.32	9.47	12.14	9.66	9.12	10.88	10.94	10.77	11.28
23	11.66	11.05	10.61	10.44	9.46	11.65	9.45	9.35	10.53	11.48	---	11.35
24	11.76	11.27	10.47	10.50	9.32	11.59	9.60	9.53	10.79	11.61	---	11.33
25	11.70	11.26	10.30	10.56	9.28	11.23	9.74	9.53	10.82	11.52	---	11.43
26	11.63	11.08	10.28	10.52	9.31	11.12	9.87	9.20	10.80	10.98	---	10.71
27	11.49	11.06	10.44	10.56	9.22	11.16	9.88	9.22	10.44	10.63	---	10.34
28	11.51	10.94	10.50	10.57	9.28	11.00	9.26	9.24	10.70	10.62	---	10.66
29	11.45	10.84	10.56	10.54	---	11.09	9.20	9.18	10.62	11.35	10.56	11.81
30	11.31	10.79	10.54	10.59	---	e11.61	9.18	9.41	10.82	11.55	10.75	11.99
31	11.24	---	10.58	10.51	---	11.09	---	9.21	---	10.67	10.55	---
TOTAL	354.13	331.16	329.05	319.94	276.75	312.89	304.10	290.14	323.10	338.02	230.04	332.28
MEAN	11.42	11.04	10.61	10.32	9.88	10.09	10.14	9.36	10.77	10.90	10.95	11.08
MAX	12.58	11.29	11.06	10.59	10.55	12.14	11.00	10.02	11.40	11.63	11.48	11.99
MIN	10.40	10.79	10.28	9.65	9.22	9.19	9.18	9.09	9.17	10.21	10.55	10.34

e Estimated

02289027 DRAINAGE CANAL BELOW STRUCTURE G-136, NEAR CLEWISTON, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	14	12	12	8.9	14	13	6.7	8.8	19	26	13
2	17	14	13	11	9.8	14	13	8.5	8.5	15	48	20
3	25	14	14	12	9.6	12	13	7.9	15	11	118	19
4	45	15	11	13	14	12	16	6.8	18	13	201	16
5	82	14	13	15	11	10	9.9	6.5	15	20	---	29
6	79	13	13	14	8.7	e10	12	8.6	13	7.7	---	23
7	79	13	13	14	10	11	9.0	8.1	23	12	---	20
8	68	12	13	15	11	8.5	8.5	10	25	11	e211	e33
9	48	11	12	12	11	16	8.4	7.6	29	16	155	35
10	39	13	12	9.7	9.1	9.5	12	6.9	37	16	111	e45
11	33	8.7	13	11	11	16	14	7.9	44	29	89	57
12	23	15	14	15	10	6.2	12	6.3	81	49	78	66
13	26	13	11	12	10	16	11	8.8	51	57	62	101
14	20	15	e11	13	9.4	15	11	9.2	26	56	54	138
15	13	13	12	15	8.8	12	11	6.9	20	75	45	153
16	13	12	11	11	9.2	12	12	19	13	92	---	142
17	12	13	13	11	14	8.6	8.7	13	15	106	---	122
18	12	14	11	15	9.1	7.8	9.4	6.7	18	86	19	96
19	17	15	14	8.9	11	11	9.7	10	8.5	80	23	79
20	23	12	12	14	9.2	10	11	8.0	16	68	17	64
21	23	12	15	10	7.5	10	9.5	5.6	18	63	---	58
22	16	12	14	12	13	11	8.9	12	13	66	46	51
23	16	14	12	11	7.3	17	7.5	10	9.9	71	---	47
24	15	15	13	14	8.2	22	6.6	7.7	9.4	127	---	46
25	15	15	12	12	6.5	13	16	17	11	126	---	42
26	18	18	13	11	7.2	12	7.5	9.9	24	118	---	39
27	15	14	11	14	10	14	9.6	11	29	87	---	48
28	19	16	16	11	15	16	8.3	4.7	29	71	---	71
29	17	13	12	12	---	15	11	14	23	61	15	120
30	20	12	13	17	---	e15	7.8	5.0	21	58	14	154
31	13	---	11	10	---	17	---	9.9	---	29	14	---
TOTAL	879	404.7	390	387.6	279.5	393.6	317.3	280.2	672.1	1715.7	1346	1947
MEAN	28.4	13.5	12.6	12.5	9.98	12.7	10.6	9.04	22.4	55.3	70.8	64.9
MAX	82	18	16	17	15	22	16	19	81	127	211	154
MIN	12	8.7	11	8.9	6.5	6.2	6.6	4.7	8.5	7.7	14	13
AC-FT	1740	803	774	769	554	781	629	556	1330	3400	2670	3860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	58.0	29.6	23.6	22.7	30.3	22.0	13.6	17.7	36.9	38.7	54.1	63.1
MAX	138	113	84.1	77.3	73.6	38.2	19.6	33.9	116	81.1	131	124
(WY)	1996	1999	1995	1995	1998	1998	1997	1996	1996	1994	1997	1999
MIN	7.27	.12	.039	4.04	9.98	12.7	4.38	9.04	13.5	6.54	14.4	15.6
(WY)	1993	1993	1993	1994	2001	2001	1993	2001	1998	1993	2000	1996

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1992 - 2001

ANNUAL TOTAL	6881.5											
ANNUAL MEAN	18.8								30.2			
HIGHEST ANNUAL MEAN									42.0			1996
LOWEST ANNUAL MEAN									21.1			1993
HIGHEST DAILY MEAN				84	Sep 21		211	Aug 8	376			Oct 17 1995
LOWEST DAILY MEAN				6.6	Aug 24		4.7	May 28	.00			Sep 19 1992
ANNUAL SEVEN-DAY MINIMUM				9.0	Aug 22		7.5	Apr 30	.00			Nov 10 1992
ANNUAL RUNOFF (AC-FT)	13650								21850			
10 PERCENT EXCEEDS				28			66		92			
50 PERCENT EXCEEDS				15			13		18			
90 PERCENT EXCEEDS				11			8.5		7.3			

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289031 LEVEE 3 CANAL BELOW STRUCTURE G-155, NEAR CLEWISTON, FL

LOCATION.--Lat 26°19'48", long 80°52'48", in NW ¼ 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, FL.

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 velocity meter until January 17, 2002, when it was removed. Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter 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. 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 1 complete water year of discharge (1997).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.56 ft Nov. 8, 1998; minimum, 9.02 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.64 ft Sept. 15; minimum, 9.02 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.81	12.93	12.07	11.86	11.43	11.07	13.18	10.45	10.82	12.87	12.90	11.89
2	12.78	12.92	12.05	11.82	11.51	10.96	13.07	10.37	10.95	12.75	12.96	11.84
3	12.78	12.89	12.10	11.84	11.57	10.89	12.98	10.32	11.06	12.62	13.10	e11.89
4	13.72	12.89	12.09	11.81	11.50	10.84	12.78	10.22	11.15	12.52	13.20	e12.02
5	13.90	12.90	12.05	11.69	11.44	10.84	12.53	10.16	11.30	12.45	13.22	e12.05
6	13.78	12.87	12.06	11.71	11.38	10.80	12.41	10.21	11.57	12.37	13.24	12.11
7	13.77	12.83	12.13	11.74	11.33	10.78	12.42	10.16	12.06	12.31	13.19	e12.19
8	13.71	12.80	12.19	11.71	11.30	10.74	12.50	10.00	12.76	12.26	13.17	e12.31
9	13.65	12.73	12.25	11.77	11.26	10.64	12.41	9.88	13.15	12.26	13.12	e12.59
10	13.64	12.67	12.29	11.76	11.23	10.57	12.29	9.79	13.20	12.31	13.02	e12.98
11	13.65	12.68	12.28	11.72	11.25	10.56	12.16	9.73	13.20	12.34	12.95	e13.35
12	13.66	12.72	12.26	11.67	11.29	10.58	12.05	9.70	13.18	12.46	12.90	13.90
13	13.65	12.70	12.25	11.64	11.31	10.54	11.91	9.75	13.15	12.51	12.84	13.86
14	13.62	12.65	e12.23	11.64	11.32	10.51	11.82	9.75	13.07	12.54	e12.79	14.23
15	13.55	12.61	12.21	11.65	11.33	10.44	e11.80	9.66	13.06	12.64	12.76	14.59
16	13.48	12.58	12.20	11.64	11.34	10.30	e11.58	9.55	13.05	12.66	12.75	14.50
17	13.46	12.55	12.18	11.63	11.34	10.20	e11.33	9.60	e12.95	12.79	12.76	14.20
18	13.37	12.54	12.15	11.62	11.32	10.23	e11.03	9.33	e12.83	13.04	12.72	13.99
19	13.32	12.59	12.12	11.62	11.30	10.54	10.78	9.16	e12.70	13.17	12.65	13.88
20	13.28	12.61	12.11	11.64	11.26	10.98	10.74	9.15	12.66	13.16	12.59	13.84
21	13.22	12.56	12.10	11.64	11.31	11.51	10.78	9.39	12.70	13.06	12.59	13.76
22	13.20	12.30	12.08	11.65	11.34	12.29	10.83	9.16	12.65	13.04	12.54	13.69
23	13.21	12.20	12.04	11.67	11.30	12.95	10.79	9.19	12.64	13.14	12.52	13.56
24	13.13	12.27	12.02	11.67	11.23	13.20	10.65	9.80	12.72	13.40	12.50	13.57
25	13.11	12.31	12.01	11.66	11.20	13.21	10.55	9.88	12.70	13.56	12.46	e13.78
26	13.04	12.32	11.95	11.65	11.14	13.09	10.43	10.08	12.68	13.40	12.42	e13.69
27	12.98	12.32	11.90	11.65	11.08	12.99	10.38	10.27	12.82	13.24	12.39	13.66
28	12.99	12.17	11.90	11.63	11.08	12.86	10.38	10.44	12.94	13.14	12.33	13.69
29	12.95	12.15	11.93	11.57	---	12.82	10.45	10.54	13.01	13.02	e12.25	14.24
30	12.93	12.08	11.94	11.53	---	e12.97	10.51	10.65	12.98	12.91	12.17	14.43
31	12.96	---	11.90	11.48	---	13.14	---	10.71	---	12.85	12.03	---
TOTAL	413.30	377.34	375.04	361.98	316.69	354.04	347.52	307.05	375.71	396.79	395.03	400.28
MEAN	13.33	12.58	12.10	11.68	11.31	11.42	11.58	9.90	12.52	12.80	12.74	13.34
MAX	13.90	12.93	12.29	11.86	11.57	13.21	13.18	10.71	13.20	13.56	13.24	14.59
MIN	12.78	12.08	11.90	11.48	11.08	10.20	10.38	9.15	10.82	12.26	12.03	11.84

e Estimated

02289031 LEVEE 3 CANAL BELOW STRUCTURE G-155, NEAR CLEWISTON, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	41	19	31	1.7	55	93	5.8	16	30	40	9.4
2	45	43	27	29	21	44	54	7.5	31	23	52	5.4
3	46	45	36	35	20	37	48	9.3	13	20	76	e3.4
4	310	49	31	41	47	34	22	3.5	8.1	33	108	e15
5	382	54	34	42	35	43	12	5.1	21	12	103	e24
6	299	34	28	48	12	43	19	7.2	24	7.4	108	23
7	281	32	44	50	10	29	21	e-2.0	39	23	73	e27
8	245	21	29	42	9.3	53	27	10	93	31	82	e30
9	212	27	20	36	5.2	25	1.6	7.0	128	36	80	e31
10	207	44	18	21	5.2	53	12	3.6	132	41	64	e83
11	217	43	18	14	13	49	1.7	7.2	125	45	50	e116
12	218	44	31	28	6.9	e-7.7	13	e-1.8	108	37	24	275
13	214	34	14	29	12	42	9.9	6.5	97	47	41	412
14	205	38	e18	24	3.2	28	58	11	74	47	e41	582
15	173	32	19	19	6.0	32	e87	7.8	67	55	50	685
16	150	23	17	15	11	20	---	---	57	45	34	651
17	140	45	39	16	49	35	---	---	e48	46	13	554
18	120	33	42	35	20	5.0	e29	---	e47	78	18	482
19	119	39	41	e-5.1	15	12	6.8	---	e32	95	17	459
20	92	40	35	33	15	49	e-7.7	---	40	85	30	413
21	76	36	34	38	7.4	16	5.2	---	33	68	18	373
22	69	15	35	26	44	97	3.7	---	36	62	24	305
23	61	21	23	46	14	79	5.0	---	37	82	24	224
24	61	14	26	33	16	126	e-5.9	---	46	99	29	175
25	61	32	24	45	9.3	103	10	29	42	137	42	e144
26	56	46	14	10	3.3	80	22	42	29	137	34	e78
27	52	39	17	19	18	68	e-3.8	34	40	99	25	76
28	49	21	40	16	38	33	9.5	15	49	60	21	199
29	31	22	43	4.8	---	25	15	44	43	42	e15	612
30	41	29	40	39	---	e58	3.2	10	36	30	8.7	718
31	41	---	37	30	---	86	---	13	---	25	7.1	---
TOTAL	4329	1036	893	889.7	467.5	1451.3	571.2	274.7	1591.1	1677.4	1351.8	7784.2
MEAN	140	34.5	28.8	28.7	16.7	46.8	20.4	12.5	53.0	54.1	43.6	259
MAX	382	54	44	50	49	126	93	44	132	137	108	718
MIN	31	14	14	-5.1	1.7	-7.7	-7.7	-2.0	8.1	7.4	7.1	3.4
AC-FT	8590	2050	1770	1760	927	2880	1130	545	3160	3330	2680	15440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	256	67.9	35.9	19.5	56.7	55.9	14.4	26.2	75.7	175	235	281
MAX	594	181	189	78.8	272	351	34.0	94.2	168	605	486	491
(WY)	2000	1995	1998	1998	1998	1998	1993	1997	1994	1999	1998	1994
MIN	30.9	-2.04	-20.6	-7.67	-7.05	-11.2	-9.36	-5.17	3.43	46.3	43.6	65.4
(WY)	1993	1998	1997	1997	1999	1999	1999	1999	1993	1993	2001	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1992 - 2001

ANNUAL MEAN										114		
HIGHEST ANNUAL MEAN										114		1997
LOWEST ANNUAL MEAN										114		1997
HIGHEST DAILY MEAN				382	Oct 5		718	Sep 30		1040		Jun 25 1996
LOWEST DAILY MEAN				-8.8	Sep 7		-7.7	Mar 12		-51		Mar 24 1999
ANNUAL SEVEN-DAY MINIMUM				5.1	Aug 18		2.4	Apr 19		-33		Dec 26 1996
ANNUAL RUNOFF (AC-FT)										82270		
10 PERCENT EXCEEDS				101			127			389		
50 PERCENT EXCEEDS				28			34			34		
90 PERCENT EXCEEDS				7.0			7.4			-5.6		

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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, FL.

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 velocity meter until October 18, 2001, when it was removed. Satellite data collection platform with water-stage shaft encoder and 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 continuous record of line velocity and stage. 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 4 complete water years of discharge (1994, 1996-97, 2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.61 ft Sept. 15, 2001; minimum, 8.68 ft Sept. 19, 1998.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.61 ft Sept. 15; minimum, 9.03 ft May. 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.80	12.91	12.07	e11.84	11.41	11.05	13.17	10.43	10.80	e12.78	e12.83	e11.83
2	12.77	12.91	12.06	e11.80	11.49	10.94	13.06	10.35	10.93	12.66	e12.88	e11.78
3	e12.77	12.88	12.10	e11.83	11.55	10.87	12.96	10.30	11.05	12.55	e13.04	e11.83
4	13.78	12.88	12.09	e11.80	11.49	10.82	12.76	10.19	11.16	12.46	e13.14	e11.96
5	13.96	12.88	12.05	e11.68	11.43	10.80	12.52	10.14	11.29	12.36	e13.15	e11.99
6	13.85	12.85	12.07	e11.70	11.37	10.78	e12.40	10.19	11.56	12.28	e13.18	e12.04
7	13.84	12.82	12.13	e11.73	e11.32	10.76	e12.41	e10.12	12.05	12.23	e13.13	e12.11
8	13.76	12.78	12.19	e11.70	11.29	10.72	e12.48	e9.97	12.75	12.18	e13.10	e12.23
9	13.70	12.71	12.25	e11.76	11.24	10.61	12.39	9.80	13.14	12.17	e13.06	e12.52
10	13.68	12.65	12.29	e11.75	11.22	10.55	12.28	9.77	13.19	12.22	e12.95	e12.89
11	13.70	12.67	12.28	11.71	11.24	10.54	12.15	9.70	13.20	12.25	e12.88	e13.28
12	13.71	12.70	12.27	e11.66	11.27	10.55	12.04	9.68	13.17	12.38	e12.83	e13.86
13	13.69	12.68	12.25	11.63	11.30	10.52	11.90	9.73	13.14	12.42	e12.77	e13.82
14	13.66	12.63	e12.22	11.63	e11.32	10.49	11.80	9.67	13.05	12.44	e12.72	14.19
15	13.57	12.60	12.19	11.64	11.32	10.43	11.79	9.63	13.04	12.55	e12.68	14.57
16	13.48	e12.57	12.17	11.63	11.32	10.27	11.59	9.53	13.03	12.56	e12.67	14.48
17	13.46	12.56	12.15	11.61	11.32	10.18	11.36	9.56	12.92	12.70	e12.69	14.17
18	13.36	12.55	12.13	11.60	11.31	10.20	11.05	9.30	12.79	e12.95	e12.65	13.95
19	13.30	12.58	12.10	11.60	11.28	10.52	10.77	9.13	12.65	13.09	e12.58	13.82
20	13.27	12.59	12.08	11.62	11.25	10.96	10.71	9.12	12.61	13.07	12.53	13.78
21	13.21	12.56	12.06	11.63	11.29	e11.50	10.76	9.27	12.64	12.98	e12.53	13.70
22	13.19	12.30	12.04	11.64	11.32	12.29	10.81	9.13	12.59	12.95	e12.50	13.62
23	13.19	12.20	12.01	11.66	11.27	12.94	10.77	9.18	12.57	e13.06	e12.46	13.49
24	13.11	12.27	12.00	11.65	11.21	13.19	10.63	9.77	e12.62	e13.33	12.44	13.50
25	13.09	12.31	11.97	11.64	11.18	13.19	10.52	9.86	12.60	e13.49	12.39	13.73
26	13.02	12.32	e11.92	11.64	11.12	13.08	10.41	10.07	12.59	13.33	e12.36	e13.66
27	12.97	12.33	e11.88	11.64	11.06	12.97	10.34	10.25	12.72	e13.15	e12.33	13.64
28	12.98	12.17	e11.88	11.61	11.06	12.84	10.36	10.43	12.84	e13.05	e12.27	13.67
29	12.93	12.15	e11.91	11.55	---	12.80	10.43	10.53	12.92	e12.93	e12.19	14.23
30	12.92	12.09	e11.92	11.52	---	e12.95	10.48	10.63	12.89	e12.81	e12.11	14.46
31	12.94	---	e11.88	11.46	---	13.13	---	10.70	---	e12.76	e11.97	---
TOTAL	413.66	377.10	374.61	361.56	316.25	353.44	347.10	306.13	374.50	394.14	393.01	398.80
MEAN	13.34	12.57	12.08	11.66	11.29	11.40	11.57	9.88	12.48	12.71	12.68	13.29
MAX	13.96	12.91	12.29	11.84	11.55	13.19	13.17	10.70	13.20	13.49	13.18	14.57
MIN	12.77	12.09	11.88	11.46	11.06	10.18	10.34	9.12	10.80	12.17	11.97	11.78

e Estimated

02289032 LEVEE 4 BELOW STRUCTURE G-88, NEAR CLEWISTON, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e20	e14	e-10	e-6.8	e-1.6	e-8.8	56	-4.4	e6.1	e22	e14	e13
2	e18	e18	e.70	e3.2	e-18	e-7.1	46	8.8	e5.3	e21	e31	e22
3	e17	e15	e-7.1	e.26	e3.7	e-3.0	35	.70	e8.6	16	e48	e14
4	e251	e18	e-12	e-13	e-8.4	e-4.1	15	-3.8	e11	4.4	e73	e7.4
5	e279	e15	e-4.9	e-7.8	e-8.3	-12	e20	e7.4	e11	10	e66	e3.6
6	e247	e18	e2.6	e-3.9	e.71	-12	e16	e6.9	13	12	e75	e5.6
7	e248	e20	e-1.0	e-5.2	e1.2	-18	e25	e-29	39	5.0	e54	e12
8	e221	e13	e6.0	e-7.3	5.3	-4.4	e24	e-3.9	72	.37	e45	e-6.4
9	e184	e7.0	e9.6	e-8.6	2.4	-25	e27	e-44	96	-4.6	e36	e-3.0
10	e201	e-9.8	e11	e-4.7	.78	2.8	e31	e3.0	e97	-7.8	e21	e43
11	e212	e-1.3	e7.5	e2.4	.60	5.3	e23	e-7.8	92	-6.4	e20	e52
12	e217	e4.0	e1.3	e-13	.38	-8.6	e28	e3.0	e76	-9.2	e29	e134
13	e209	e8.3	e8.4	e-4.7	5.9	e-4.8	e8.7	e7.7	e61	-9.5	e17	e210
14	e195	e-12	e6.9	e-.22	e6.4	e-16	e-3.8	e-43	39	3.9	e7.5	320
15	e151	e-10	e6.6	e1.7	3.3	e-.60	e-24	e2.2	e46	-1.6	e-1.2	390
16	e122	e5.1	e6.2	e1.1	1.4	e-26	e-17	e-.23	e44	-6.7	e12	367
17	e114	e-11	e-8.1	e-5.0	-4.7	e.81	e-18	e-31	17	29	e28	302
18	e80	e6.5	e-9.5	e-7.3	4.7	e9.3	e-13	e-18	18	e51	e21	e244
19	e66	e-1.6	e-11	e-.76	13	e-3.3	e1.3	e-.60	19	67	e12	209
20	e58	e-2.5	e-3.6	e-8.6	7.8	e-9.3	e-10	e2.8	28	46	e7.9	187
21	e40	e-12	e-1.3	e-8.2	-1.3	e-12	e11	e-64	27	19	e4.7	173
22	e44	e-24	e-1.4	e-16	-2.6	67	15	e-7.9	11	19	e1.0	136
23	e31	e-2.3	e5.7	e-20	4.6	82	6.9	e1.2	9.1	e42	e9.6	94
24	e30	e3.4	e5.4	e-13	12	86	e6.0	e-20	e4.6	e99	6.4	72
25	e33	e-8.1	e5.5	e-8.7	10	71	e-23	e-1.3	12	e129	-8.7	63
26	e22	e-6.0	e7.7	e-4.5	e9.4	42	e-4.5	e5.4	26	113	e-6.7	e53
27	e12	e-11	e5.1	e2.2	e10	34	e-19	e4.9	28	e59	e7.5	50
28	e26	e-5.0	e-10	e4.6	e12	31	e10	e7.4	35	e51	e14	97
29	e19	e-10	e-9.0	e-3.0	---	37	14	e3.0	39	e27	e9.1	297
30	e21	e-.09	e-9.1	e-5.6	---	e38	-5.1	e12	34	e26	e13	381
31	e22	---	e-6.1	e-11	---	63	---	e9.0	---	e32	e12	---
TOTAL	3410	38.61	-7.90	-171.42	70.67	394.21	281.5	-193.53	1024.7	857.87	678.1	3942.2
MEAN	110	1.29	-.25	-5.53	2.52	12.7	9.38	-6.24	34.2	27.7	21.9	131
MAX	279	20	11	4.6	13	86	56	12	97	129	75	390
MIN	12	-24	-12	-20	-18	-26	-24	-64	4.6	-9.5	-8.7	-6.4
AC-FT	6760	77	-16	-340	140	782	558	-384	2030	1700	1350	7820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	315	84.4	88.1	66.6	32.4	13.4	-9.94	-13.6	69.5	114	67.1	252
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	24.8	-6.15	-.25	-5.53	-6.28	-30.1	-65.2	-74.7	-23.4	11.4	8.39	40.7
(WY)	1999	1998	2001	2001	1996	1999	1999	1993	2000	1993	2000	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1992 - 2001

ANNUAL TOTAL							10325.01					
ANNUAL MEAN							28.3			76.9		
HIGHEST ANNUAL MEAN										126		1996
LOWEST ANNUAL MEAN										28.3		2001
HIGHEST DAILY MEAN				279	Oct 5		390	Sep 15		995	Oct 21	1995
LOWEST DAILY MEAN				-214	May 20		-64	May 21		-214	May 20	2000
ANNUAL SEVEN-DAY MINIMUM				-70	May 27		-17	May 16		-127	May 21	1998
ANNUAL RUNOFF (AC-FT)							20480			55740		
10 PERCENT EXCEEDS				41			84			269		
50 PERCENT EXCEEDS				6.1			7.4			31		
90 PERCENT EXCEEDS				-40			-10			-25		

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. Water-stage recorder for upstream and downstream used as backup prior to August 30, 1999. Datum of gage is National Geodetic Vertical Datum of 1929. Satellite data collection platform installed April 1, 1990.

REMARKS.--Records fair, no estimated daily discharge. 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 28 complete water years of discharge (1964-65, 1971,1976,1978-2001).

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, 10.14 ft Sept. 29; minimum, 7.43 ft May 22.

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, 10.12 ft Sept. 29, 30; minimum, 6.73 ft May 19, 21, 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.72	9.63	9.77	9.53	9.15	8.58	8.55	7.88	8.35	8.59	9.39	9.32
2	9.71	9.62	9.76	9.52	9.13	8.55	8.54	7.96	8.43	8.57	9.52	9.33
3	9.79	9.62	9.76	9.51	9.12	8.51	8.51	7.96	8.47	8.57	9.56	9.30
4	9.97	9.61	9.74	9.49	9.10	8.49	8.48	8.17	8.45	8.56	9.58	9.29
5	9.99	9.60	9.73	9.47	9.10	8.58	8.46	8.22	8.43	e8.59	9.66	9.29
6	9.99	9.60	9.72	9.45	9.08	8.55	8.46	8.17	8.43	e8.59	9.70	9.33
7	10.00	9.60	9.71	9.44	9.07	8.52	8.44	8.13	8.42	e8.59	9.72	9.35
8	10.00	9.69	9.70	9.41	9.06	8.49	8.40	8.11	8.48	e8.59	9.72	9.38
9	10.01	9.72	9.70	9.40	9.04	8.43	8.35	8.07	8.49	e8.61	9.67	9.44
10	10.00	9.74	9.71	9.40	9.01	8.42	8.33	8.01	8.48	8.61	9.63	9.48
11	9.95	9.76	9.72	9.39	8.99	8.40	8.30	8.05	8.46	8.64	9.60	9.50
12	9.88	9.76	9.72	9.37	8.98	8.38	8.25	7.98	8.45	8.67	9.60	9.56
13	9.84	9.77	9.72	9.36	8.96	8.31	8.19	7.91	8.45	8.66	9.59	9.62
14	9.82	9.77	e9.71	9.35	8.94	8.31	8.14	7.87	8.48	8.67	9.57	9.63
15	9.81	9.78	9.71	9.34	8.91	8.27	8.07	7.81	8.49	8.77	9.55	9.64
16	9.80	9.78	9.70	9.33	8.89	8.23	8.03	7.75	8.48	8.81	9.53	9.66
17	9.76	9.79	9.68	9.32	8.86	8.23	7.98	7.72	8.45	8.83	9.51	9.67
18	9.70	9.79	9.67	9.31	8.86	8.28	7.99	7.72	8.47	8.86	9.49	9.71
19	9.70	9.79	9.65	9.29	8.86	8.37	7.95	7.68	8.49	8.87	9.48	9.72
20	9.68	9.79	9.64	9.29	8.83	8.50	7.91	7.65	8.44	8.94	9.48	9.71
21	9.67	9.79	9.64	9.30	8.79	8.50	7.87	7.59	8.45	9.13	9.46	9.70
22	9.66	9.79	9.62	9.30	8.76	8.52	7.84	7.53	8.49	9.14	9.47	9.70
23	9.66	9.78	9.63	9.28	8.74	8.51	7.80	7.70	8.50	9.13	9.46	9.69
24	9.66	9.78	9.63	9.27	8.74	8.48	7.78	8.14	8.49	9.17	9.44	9.69
25	9.66	9.78	9.63	9.26	8.70	8.45	7.79	8.20	8.49	9.19	9.43	9.68
26	9.66	9.78	9.62	9.25	8.67	8.43	7.95	8.23	8.52	9.22	9.41	9.68
27	9.65	9.78	9.59	9.24	8.64	8.43	7.94	8.27	8.56	9.23	9.40	9.72
28	9.64	9.77	9.56	9.23	8.61	8.42	7.91	8.30	8.62	9.25	9.38	9.77
29	9.64	9.77	9.55	9.21	---	8.37	7.90	8.30	8.65	9.28	9.35	10.07
30	9.64	9.78	9.54	9.18	---	e8.51	7.90	8.29	8.62	9.31	9.34	10.12
31	9.64	---	9.54	9.16	---	8.53	---	8.30	---	9.31	9.32	---
TOTAL	303.30	292.01	299.77	289.65	249.59	261.55	244.01	247.67	254.48	274.95	295.01	287.75
MEAN	9.78	9.73	9.67	9.34	8.91	8.44	8.13	7.99	8.48	8.87	9.52	9.59
MAX	10.01	9.79	9.77	9.53	9.15	8.58	8.55	8.30	8.65	9.31	9.72	10.12
MIN	9.64	9.60	9.54	9.16	8.61	8.23	7.78	7.53	8.35	8.56	9.32	9.29

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254543080491101 TAMIAMI CANAL AT S-12-A, NEAR MIAMI, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.23	9.63	8.05	7.95	7.91	7.79	7.85	7.05	7.76	7.98	8.68	8.98
2	8.22	9.62	8.05	7.94	7.90	7.78	7.83	7.04	7.91	7.96	8.71	8.98
3	8.30	9.61	8.04	7.94	7.90	7.78	7.82	7.05	7.91	7.94	8.72	8.97
4	8.31	9.61	8.03	7.94	7.90	7.82	7.81	7.09	7.89	7.95	8.73	8.97
5	8.30	9.60	8.03	7.94	7.89	7.89	7.80	7.12	7.88	e7.97	8.75	8.96
6	8.29	9.59	8.02	7.93	7.89	7.88	7.78	7.11	7.87	e7.95	8.75	9.15
7	8.29	9.03	8.02	7.93	7.89	7.86	7.78	7.09	7.85	e7.95	8.77	9.35
8	8.28	8.29	8.01	7.93	7.89	7.86	7.77	7.06	7.88	e7.95	8.83	9.38
9	8.26	8.24	8.01	7.93	7.89	7.86	7.75	7.03	7.89	e7.98	8.90	9.43
10	8.25	8.22	8.04	7.93	7.89	7.85	7.73	7.00	7.86	8.00	8.89	9.47
11	9.00	8.20	8.10	7.92	7.88	7.85	7.70	6.97	7.84	8.01	8.89	9.49
12	9.41	8.18	8.09	7.92	7.87	7.84	7.67	6.94	7.90	8.02	8.89	9.57
13	9.41	8.17	8.09	7.91	7.86	7.83	7.65	6.91	7.95	7.99	8.89	9.61
14	9.39	8.16	e8.08	7.91	7.86	7.82	7.63	6.88	7.96	7.99	8.89	9.62
15	9.39	8.14	8.07	7.91	7.86	7.81	7.60	6.85	7.95	8.12	8.96	9.63
16	9.39	8.13	8.06	7.91	7.86	7.81	7.57	6.84	7.94	8.14	9.01	9.65
17	9.56	8.12	8.05	7.91	7.86	7.81	7.55	6.80	7.92	8.11	9.00	9.66
18	9.70	8.11	8.04	7.90	7.85	7.85	7.51	6.77	7.97	8.11	9.00	9.70
19	9.69	8.11	8.03	7.90	7.84	7.86	7.45	6.74	8.00	8.11	9.00	9.72
20	9.68	8.11	8.01	7.93	7.84	7.89	7.40	6.74	7.98	8.17	9.00	9.70
21	9.67	8.09	8.00	7.92	7.84	7.87	7.35	6.73	7.99	8.23	9.00	9.69
22	9.66	8.08	7.99	7.92	7.84	7.86	7.31	6.74	8.01	8.21	9.01	9.68
23	9.66	8.07	7.98	7.92	7.83	7.84	7.26	6.85	8.02	8.20	9.01	9.68
24	9.66	8.07	7.98	7.92	7.82	7.83	7.23	7.04	7.97	8.19	9.00	9.68
25	9.65	8.07	7.97	7.92	7.82	7.82	7.20	7.18	7.95	8.19	9.00	9.67
26	9.65	8.07	7.97	7.91	7.81	7.81	7.15	7.29	7.94	8.18	9.00	9.67
27	9.65	8.07	7.96	7.91	7.81	7.79	7.11	7.42	8.00	8.18	9.00	9.71
28	9.64	8.06	7.96	7.91	7.80	7.77	7.08	7.60	8.08	8.18	8.99	9.77
29	9.64	8.06	7.97	7.91	---	7.79	7.06	7.65	8.08	8.19	8.99	10.06
30	9.64	8.06	7.97	7.91	---	e7.86	7.05	7.66	8.03	8.19	8.98	10.11
31	9.63	---	7.96	7.91	---	7.85	---	7.68	---	8.40	8.97	---
TOTAL	283.50	253.57	248.63	245.54	220.10	242.83	225.45	218.92	238.18	250.74	276.21	285.71
MEAN	9.15	8.45	8.02	7.92	7.86	7.83	7.51	7.06	7.94	8.09	8.91	9.52
MAX	9.70	9.63	8.10	7.95	7.91	7.89	7.85	7.68	8.08	8.40	9.01	10.11
MIN	8.22	8.06	7.96	7.90	7.80	7.77	7.05	6.73	7.76	7.94	8.68	8.96

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254543080491101 TAMIAMI CANAL AT S-12-A, NEAR MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	326	.00	.00	.00	.00	.00	.00	.00	.00	78	108
2	.00	324	.00	.00	.00	.00	.00	.00	.00	.00	83	109
3	.00	321	.00	.00	.00	.00	.00	.00	.00	.00	84	107
4	.00	321	.00	.00	.00	.00	.00	.00	.00	.00	85	105
5	.00	318	.00	.00	.00	.00	.00	.00	.00	.00	88	105
6	.00	315	.00	.00	.00	.00	.00	.00	.00	.00	90	145
7	.00	146	.00	.00	.00	.00	.00	.00	.00	.00	90	189
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	110	197
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	121	212
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	118	221
11	232	.00	.00	.00	.00	.00	.00	.00	.00	.00	116	227
12	304	.00	.00	.00	.00	.00	.00	.00	.00	.00	115	252
13	294	.00	.00	.00	.00	.00	.00	.00	.00	.00	114	265
14	291	.00	.00	.00	.00	.00	.00	.00	.00	.00	113	268
15	290	.00	.00	.00	.00	.00	.00	.00	.00	.00	130	271
16	288	.00	.00	.00	.00	.00	.00	.00	.00	.00	139	275
17	326	.00	.00	.00	.00	.00	.00	.00	.00	.00	136	280
18	355	.00	.00	.00	.00	.00	.00	.00	.00	.00	134	293
19	350	.00	.00	.00	.00	.00	.00	.00	.00	.00	133	303
20	346	.00	.00	.00	.00	.00	.00	.00	.00	.00	132	301
21	343	.00	.00	.00	.00	.00	.00	.00	.00	.00	130	302
22	340	.00	.00	.00	.00	.00	.00	.00	.00	.00	130	304
23	337	.00	.00	.00	.00	.00	.00	.00	.00	.00	130	307
24	337	.00	.00	.00	.00	.00	.00	.00	.00	.00	128	310
25	337	.00	.00	.00	.00	.00	.00	.00	.00	.00	125	311
26	336	.00	.00	.00	.00	.00	.00	.00	.00	.00	123	315
27	335	.00	.00	.00	.00	.00	.00	.00	.00	.00	121	334
28	333	.00	.00	.00	.00	.00	.00	.00	.00	.00	116	361
29	331	.00	.00	.00	---	.00	.00	.00	.00	.00	112	493
30	330	.00	.00	.00	---	.00	.00	.00	.00	.00	111	521
31	329	---	.00	.00	---	.00	---	.00	---	41	109	---
TOTAL	6764.00	2071.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.00	3544	7791
MEAN	218	69.0	.000	.000	.000	.000	.000	.000	.000	1.32	114	260
MAX	355	326	.00	.00	.00	.00	.00	.00	.00	41	139	521
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	78	105
AC-FT	13420	4110	.00	.00	.00	.00	.00	.00	.00	81	7030	15450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964
MEAN	284	244	120	76.9	67.6	64.7	38.7	19.1	37.6	114	146	180
MAX	1152	1261	1335	1346	849	580	464	267	394	714	682	722
(WY)	1996	1995	1995	1995	1995	1993	1993	1993	1993	1982	1982	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001

ANNUAL TOTAL	9067.00	20211.00		
ANNUAL MEAN	24.8	55.4	132	
HIGHEST ANNUAL MEAN			672	1995
LOWEST ANNUAL MEAN			.000	1964
HIGHEST DAILY MEAN	355	Oct 18	521	Sep 30
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1
ANNUAL RUNOFF (AC-FT)	17980		40090	95570
10 PERCENT EXCEEDS	.00		292	382
50 PERCENT EXCEEDS	.00		.00	.00
90 PERCENT EXCEEDS	.00		.00	.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.

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. Water-stage recorder for upstream and downstream used as backup prior to August 30, 1999. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except 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 28 complete water years of discharge (1964-65, 1976-2001).

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, 10.16 ft Sept. 29; minimum, 7.43 ft May 22.

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, 10.15 ft Sept. 29; minimum, 6.68 ft May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.71	9.64	9.77	9.52	9.14	8.58	8.55	7.88	8.34	8.58	9.38	9.29
2	9.70	9.64	9.76	9.51	9.12	8.56	8.54	7.96	8.42	8.58	9.51	9.30
3	9.83	9.63	9.75	9.50	9.11	8.52	8.53	7.95	8.46	8.57	9.58	9.28
4	9.99	9.63	9.75	9.49	9.10	8.49	8.50	8.17	8.44	8.57	9.62	9.26
5	9.99	9.62	9.74	9.47	9.09	8.58	8.47	8.21	8.42	8.59	9.66	9.26
6	9.99	9.60	9.72	9.45	9.08	8.56	8.47	8.16	8.42	8.59	9.70	9.31
7	10.00	9.61	9.72	9.43	9.06	8.55	8.44	8.13	8.42	8.59	9.72	9.33
8	10.00	9.69	9.71	9.41	9.05	8.53	8.39	8.11	8.47	8.59	9.71	9.36
9	10.02	9.72	9.70	9.40	9.02	8.46	8.35	8.06	8.49	8.61	9.65	9.43
10	10.00	9.75	9.70	9.40	9.00	8.42	8.32	8.00	8.48	8.62	9.61	9.47
11	9.93	9.76	9.71	9.38	8.98	8.40	8.29	8.04	8.46	8.65	9.59	9.49
12	9.86	9.77	9.71	9.36	8.96	8.37	8.24	7.97	8.45	8.69	9.59	9.57
13	9.83	9.77	9.71	9.35	8.95	8.30	8.19	7.91	8.44	8.67	9.58	9.62
14	9.80	9.78	9.70	9.35	8.92	8.29	8.14	7.87	8.48	8.68	9.57	9.63
15	9.78	9.79	9.70	9.33	8.90	8.26	8.07	7.81	8.51	8.78	9.55	9.65
16	9.76	9.79	9.69	9.32	8.88	8.22	8.03	7.75	8.49	8.83	9.50	9.66
17	9.74	9.80	9.67	9.31	8.85	8.22	7.99	7.72	8.45	8.84	9.47	9.67
18	9.72	9.80	9.66	9.30	8.85	8.26	7.99	7.72	8.46	8.87	9.46	9.70
19	9.71	9.80	9.65	9.28	8.84	8.34	7.95	7.67	8.47	8.88	9.45	9.72
20	9.70	9.81	9.64	9.29	8.81	8.50	7.90	7.64	8.43	8.94	9.45	9.71
21	9.69	9.81	9.63	9.30	8.79	e8.50	7.86	7.59	8.44	9.10	9.43	9.70
22	9.68	9.80	9.62	9.30	8.76	8.52	7.83	7.53	8.48	9.13	9.43	9.69
23	9.67	9.79	9.62	9.28	8.74	8.52	7.80	7.69	8.52	9.14	9.43	9.68
24	9.67	9.79	9.63	9.27	8.72	8.49	7.78	8.14	8.49	9.18	9.41	9.68
25	9.67	9.79	9.62	9.26	8.69	8.45	7.80	8.20	8.49	9.19	9.40	9.67
26	9.67	9.79	9.61	9.25	8.66	8.42	7.95	8.23	8.53	9.22	9.38	9.67
27	9.66	9.79	9.58	9.23	8.63	8.42	7.94	8.27	8.56	9.23	9.37	9.73
28	9.66	9.78	9.55	9.22	8.60	8.41	7.91	8.29	8.61	9.25	9.35	9.79
29	9.65	9.78	9.55	9.20	---	8.35	7.89	8.30	8.64	9.27	9.32	10.09
30	9.65	9.78	9.55	9.17	---	8.49	7.90	8.29	8.61	9.30	9.31	10.14
31	9.64	---	9.54	9.15	---	8.54	---	8.29	---	9.31	9.29	---
TOTAL	303.37	292.30	299.66	289.48	249.30	261.52	244.01	247.55	254.37	275.04	294.47	287.55
MEAN	9.79	9.74	9.67	9.34	8.90	8.44	8.13	7.99	8.48	8.87	9.50	9.59
MAX	10.02	9.81	9.77	9.52	9.14	8.58	8.55	8.30	8.64	9.31	9.72	10.14
MIN	9.64	9.60	9.54	9.15	8.60	8.22	7.78	7.53	8.34	8.57	9.29	9.26

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289019 TAMIAMI CANAL AT S-12-B, NEAR MIAMI, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.21	9.62	7.94	7.86	7.80	7.63	7.76	7.06	7.53	7.84	8.15	9.23
2	8.18	9.62	7.94	7.86	7.80	7.62	7.73	7.05	7.81	7.81	8.23	9.24
3	8.28	9.61	7.94	7.86	7.79	7.62	7.70	7.06	7.83	7.78	8.22	9.22
4	8.34	9.60	7.93	7.86	7.80	7.64	7.69	7.12	7.77	7.80	8.22	9.20
5	8.31	9.60	7.93	7.86	7.81	7.78	7.67	7.12	7.73	7.85	8.22	e9.23
6	8.30	9.59	7.95	7.86	7.79	7.74	7.66	7.09	7.70	7.82	8.24	9.33
7	8.30	9.20	7.99	7.86	7.79	7.72	7.65	7.06	7.70	7.82	8.22	9.35
8	8.30	8.42	7.96	7.86	7.78	7.69	7.63	7.03	7.75	7.81	e8.66	9.38
9	8.30	8.34	7.95	7.86	7.78	7.67	7.61	7.01	7.76	7.83	e9.14	9.45
10	8.30	8.30	7.95	7.85	7.77	7.67	7.58	6.98	7.76	7.85	e9.14	9.48
11	e9.29	8.29	7.96	7.85	7.77	7.67	7.55	6.96	7.71	7.86	e9.14	9.51
12	e9.79	8.27	7.95	7.85	7.76	7.66	7.53	6.94	7.70	7.88	e9.14	9.60
13	9.77	8.27	7.94	7.85	7.75	7.64	7.51	6.92	7.76	7.84	e9.14	9.63
14	9.75	8.26	7.94	7.84	7.74	7.62	7.48	6.88	7.81	7.84	e9.15	9.64
15	9.74	8.23	7.93	7.84	7.74	7.60	7.45	6.86	7.83	7.96	e9.15	9.66
16	9.72	8.10	7.93	7.84	7.73	7.58	7.42	6.84	7.83	7.94	9.20	9.67
17	9.73	8.05	7.92	7.84	7.72	7.57	7.39	6.81	7.81	7.90	9.28	9.68
18	9.72	8.03	7.91	7.84	7.71	7.62	7.35	6.78	7.85	7.89	9.27	9.71
19	9.70	8.02	7.91	7.83	7.70	7.72	7.32	6.75	7.87	7.88	9.27	9.72
20	9.68	8.01	7.90	7.85	7.70	7.78	7.28	6.72	7.83	7.93	9.28	9.71
21	9.67	7.99	7.90	7.84	7.69	e7.74	7.25	6.71	7.82	8.01	9.27	9.70
22	9.67	7.98	7.90	7.84	7.69	7.72	7.22	6.69	7.83	7.98	9.27	9.70
23	9.66	7.97	7.90	7.84	7.68	7.71	7.19	6.85	7.82	7.94	9.27	9.69
24	9.65	7.97	7.89	7.83	7.67	7.70	7.17	7.16	7.80	7.91	9.26	9.69
25	9.65	7.97	7.89	7.82	7.66	7.69	7.14	7.19	7.79	7.89	9.25	9.68
26	9.65	7.97	7.89	7.82	7.65	7.67	7.12	7.23	7.80	7.87	9.24	9.68
27	9.64	7.96	7.88	7.82	7.64	7.65	7.10	7.32	7.86	7.86	9.23	9.74
28	9.64	7.95	7.88	7.82	7.63	7.64	7.08	7.39	7.97	7.86	9.24	9.79
29	9.63	7.95	7.88	7.81	---	7.71	7.06	7.41	7.96	7.85	9.25	10.09
30	9.63	7.95	7.87	7.81	---	7.81	7.07	7.40	7.89	7.86	9.24	10.14
31	9.63	---	7.87	7.81	---	7.77	---	7.41	---	7.90	9.22	---
TOTAL	285.83	253.09	245.52	243.08	216.54	238.05	222.36	217.80	233.88	244.06	278.20	287.54
MEAN	9.22	8.44	7.92	7.84	7.73	7.68	7.41	7.03	7.80	7.87	8.97	9.58
MAX	9.79	9.62	7.99	7.86	7.81	7.81	7.76	7.41	7.97	8.01	9.28	10.14
MIN	8.18	7.95	7.87	7.81	7.63	7.57	7.06	6.69	7.53	7.78	8.15	9.20

e Estimated

02289019 TAMiami CANAL AT S-12-B, NEAR MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	285	.00	.00	.00	.00	.00	.00	.00	.00	.00	161
2	.00	284	.00	.00	.00	.00	.00	.00	.00	.00	.00	162
3	.00	282	.00	.00	.00	.00	.00	.00	.00	.00	.00	156
4	.00	280	.00	.00	.00	.00	.00	.00	.00	.00	.00	158
5	.00	278	.00	.00	.00	.00	.00	.00	.00	.00	.00	e157
6	.00	275	.00	.00	.00	.00	.00	.00	.00	.00	.00	186
7	.00	152	.00	.00	.00	.00	.00	.00	.00	.00	.00	190
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e121	197
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e214	215
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e206	223
11	e399	.00	.00	.00	.00	.00	.00	.00	.00	.00	e201	229
12	e460	.00	.00	.00	.00	.00	.00	.00	.00	.00	e200	253
13	432	.00	.00	.00	.00	.00	.00	.00	.00	.00	e203	263
14	417	.00	.00	.00	.00	.00	.00	.00	.00	.00	e203	265
15	368	.00	.00	.00	.00	.00	.00	.00	.00	.00	e197	270
16	371	.00	.00	.00	.00	.00	.00	.00	.00	.00	209	273
17	341	.00	.00	.00	.00	.00	.00	.00	.00	.00	223	276
18	315	.00	.00	.00	.00	.00	.00	.00	.00	.00	218	286
19	309	.00	.00	.00	.00	.00	.00	.00	.00	.00	211	293
20	304	.00	.00	.00	.00	.00	.00	.00	.00	.00	209	292
21	300	.00	.00	.00	.00	.00	.00	.00	.00	.00	205	294
22	300	.00	.00	.00	.00	.00	.00	.00	.00	.00	203	297
23	297	.00	.00	.00	.00	.00	.00	.00	.00	.00	204	298
24	295	.00	.00	.00	.00	.00	.00	.00	.00	.00	195	301
25	295	.00	.00	.00	.00	.00	.00	.00	.00	.00	193	301
26	294	.00	.00	.00	.00	.00	.00	.00	.00	.00	191	306
27	292	.00	.00	.00	.00	.00	.00	.00	.00	.00	177	329
28	290	.00	.00	.00	.00	.00	.00	.00	.00	.00	179	348
29	288	.00	.00	.00	---	.00	.00	.00	.00	.00	172	462
30	288	.00	.00	.00	---	.00	.00	.00	.00	.00	176	488
31	287	---	.00	.00	---	.00	---	.00	---	.00	163	---
TOTAL	6942.00	1836.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4673.00	7929
MEAN	224	61.2	.000	.000	.000	.000	.000	.000	.000	.000	151	264
MAX	460	285	.00	.00	.00	.00	.00	.00	.00	.00	223	488
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	156
AC-FT	13770	3640	.00	.00	.00	.00	.00	.00	.00	.00	9270	15730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964
MEAN	288	235	142	86.7	70.9	65.4	34.4	19.1	38.4	96.4	138	187
MAX	930	1032	1232	1160	681	424	338	192	311	519	550	605
(WY)	1996	2000	1995	1995	1995	1995	1993	1993	1993	1982	1982	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1964 - 2001

ANNUAL TOTAL	9054.00	21380.00		
ANNUAL MEAN	24.7	58.6	125	
HIGHEST ANNUAL MEAN			561	1995
LOWEST ANNUAL MEAN			.000	1964
HIGHEST DAILY MEAN	460	Oct 12	488	Sep 30
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1
ANNUAL RUNOFF (AC-FT)	17960		42410	90280
10 PERCENT EXCEEDS	.00		283	353
50 PERCENT EXCEEDS	.00		.00	9.5
90 PERCENT EXCEEDS	.00		.00	.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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 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.--Records fair except for estimated daily discharges, which are poor. Discharge is the total discharge through the S-12 structures A, B, C, and D from Conservation Area 3A. Prior to October 1963 discharge was the total discharge of station, Tamiami Canal Outlets, Miami to Monroe (station 02289000). 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. Satellite data collection platform at S-12-C downstream that records upstream and downstream gages.

COOPERATION.--Gate-opening records for S-12 complex provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 581 ft³/s, 420,900 acre-ft/yr. Figures represent 60 complete water years of discharge (1941-97,1999-2001). Monthly discharge only, available 1941-63 water years.

SPECIAL NOTE: Statistics for the period of record 1941-2001 computed manually. NWIS database not complete.

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, 10.21 ft Sept. 29; minimum, 7.46 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.71	9.67	9.76	9.56	9.17	8.60	8.55	7.89	8.34	8.59	9.38	9.31
2	9.70	9.66	9.75	9.56	9.15	8.57	8.54	7.97	8.41	8.57	9.51	9.31
3	9.83	9.66	9.74	9.54	9.15	8.52	8.51	7.96	8.45	8.57	9.58	9.29
4	9.99	9.65	9.73	9.52	9.13	8.49	8.48	8.19	8.44	8.56	9.63	9.28
5	9.98	9.64	9.72	9.50	9.13	8.57	8.47	8.23	8.43	8.59	9.67	9.30
6	9.99	9.63	9.71	9.48	9.11	8.53	8.46	8.17	8.42	8.59	9.71	9.39
7	10.00	9.61	9.70	9.47	9.09	8.52	8.44	8.14	8.43	8.60	9.73	9.41
8	10.00	9.70	9.70	9.46	9.08	8.49	8.39	8.12	8.48	8.60	9.71	9.43
9	10.01	9.73	9.69	9.45	9.05	8.43	8.36	8.07	8.50	8.61	9.65	9.50
10	10.00	9.75	9.70	9.45	9.02	8.43	8.33	8.01	8.49	8.62	9.61	9.54
11	9.95	9.77	9.71	9.44	9.00	8.41	8.30	8.05	8.47	8.66	9.59	9.57
12	9.88	9.77	9.70	9.43	8.98	8.38	8.24	7.98	8.46	8.69	9.59	9.66
13	9.85	9.78	9.70	9.40	8.96	8.32	8.19	7.92	8.46	8.68	9.57	9.70
14	9.82	9.78	9.70	9.37	8.94	8.31	8.15	7.88	8.48	8.69	9.57	9.70
15	9.81	9.79	9.69	9.36	8.92	8.27	8.08	7.82	8.49	8.79	9.54	9.72
16	9.79	9.79	9.68	9.33	8.89	8.23	8.05	7.77	8.49	8.83	9.50	9.72
17	9.77	9.80	9.67	9.33	8.87	8.23	8.01	7.74	8.46	8.85	9.48	9.73
18	9.74	9.80	9.66	9.31	8.87	8.28	8.00	7.73	8.46	8.88	9.47	9.76
19	9.72	9.79	9.64	9.29	8.86	8.36	7.95	7.69	8.47	8.89	9.47	9.78
20	9.72	9.80	9.63	9.29	8.83	8.52	7.90	7.66	8.43	8.92	9.47	9.77
21	9.71	9.80	9.62	9.32	8.80	e8.52	7.87	7.61	8.44	9.04	9.45	9.76
22	9.70	9.79	9.61	9.31	8.77	8.54	7.83	7.55	8.48	9.11	9.45	9.75
23	9.70	9.79	9.62	9.31	8.76	8.52	7.80	7.71	8.50	9.13	9.45	9.74
24	9.70	9.78	9.62	9.30	8.74	8.48	7.78	8.16	8.50	9.18	9.44	9.74
25	9.70	9.77	9.62	9.29	8.71	8.46	7.81	8.22	8.50	9.21	9.43	9.73
26	9.70	9.77	9.60	9.27	8.68	8.43	7.96	8.25	8.53	9.23	9.41	9.73
27	9.69	9.77	9.57	9.27	8.65	8.43	7.95	8.29	8.56	9.24	9.40	9.79
28	9.68	9.76	9.54	9.25	8.63	8.41	7.91	8.31	8.62	9.27	9.37	9.84
29	9.68	9.77	9.54	9.23	---	8.36	7.90	8.31	8.65	9.29	9.35	10.14
30	9.68	9.77	9.54	9.20	---	8.51	7.90	8.30	8.61	9.33	9.33	10.19
31	9.68	---	9.54	9.18	---	8.54	---	8.31	---	9.33	9.31	---
TOTAL	303.88	292.34	299.40	290.47	249.94	261.66	244.11	248.01	254.45	275.14	294.82	289.28
MEAN	9.80	9.74	9.66	9.37	8.93	8.44	8.14	8.00	8.48	8.88	9.51	9.64
MAX	10.01	9.80	9.76	9.56	9.17	8.60	8.55	8.31	8.65	9.33	9.73	10.19
MIN	9.68	9.61	9.54	9.18	8.63	8.23	7.78	7.55	8.34	8.56	9.31	9.28

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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. Water-stage recorders used as back up prior to August 26, 1999. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No estimated daily discharges. 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. Discharge records prior to 1976, for 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 27 complete water years of discharge (1964-65, 1977-2001).

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, 10.19 ft Sept. 29; minimum, 6.69 ft May. 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.43	9.66	7.96	7.89	7.83	7.65	7.78	7.07	7.55	7.86	9.02	9.27
2	8.41	9.65	7.95	7.89	7.82	7.64	7.75	7.07	7.82	7.83	8.96	9.27
3	8.76	9.65	7.95	7.89	7.81	7.64	7.72	7.08	7.84	7.80	8.97	9.25
4	9.20	9.64	7.94	7.89	7.82	7.66	7.71	7.14	7.78	7.82	8.98	9.24
5	9.20	9.64	7.94	7.88	7.83	7.81	7.69	7.14	7.74	7.87	9.00	9.26
6	9.20	9.62	8.06	7.88	7.82	7.77	7.68	7.11	7.71	7.84	9.01	9.36
7	9.21	9.37	8.02	7.88	7.81	7.74	7.67	7.07	7.73	7.84	9.02	9.40
8	9.21	8.82	7.99	7.88	7.80	7.72	7.65	7.04	7.78	7.84	9.08	9.43
9	9.22	8.74	7.97	7.88	7.80	7.70	7.63	7.02	7.79	7.85	9.13	9.50
10	9.22	8.72	7.98	7.87	7.79	7.69	7.60	6.99	7.78	7.87	9.13	9.53
11	9.56	8.72	7.99	7.87	7.79	7.69	7.57	6.97	7.74	7.89	9.13	9.56
12	9.75	8.71	7.98	7.87	7.78	7.68	7.55	6.95	7.72	7.90	9.13	9.65
13	9.73	8.71	7.97	7.87	7.77	7.66	7.52	6.93	7.77	7.87	9.12	9.69
14	9.71	8.71	7.96	7.87	7.76	7.64	7.50	6.90	7.83	7.87	9.12	9.69
15	9.69	8.46	7.96	7.87	7.76	7.62	7.47	6.87	7.86	7.97	9.32	9.71
16	9.69	8.13	7.95	7.86	7.75	7.60	7.44	6.86	7.86	7.97	9.49	9.72
17	9.71	8.08	7.95	7.86	7.74	7.59	7.41	6.82	7.84	7.92	9.48	9.72
18	9.73	8.06	7.94	7.86	7.73	7.63	7.38	6.79	7.85	7.91	9.46	9.75
19	9.72	8.05	7.94	7.85	7.72	7.73	7.34	6.76	7.88	7.91	9.46	9.77
20	9.71	8.03	7.93	7.88	7.72	7.80	7.30	6.74	7.85	7.93	9.46	9.76
21	9.70	8.02	7.92	7.87	7.71	e7.77	7.27	6.72	7.85	8.01	9.44	9.75
22	9.69	8.00	7.92	7.86	7.71	7.74	7.23	6.70	7.86	8.00	9.44	9.74
23	9.69	8.00	7.92	7.86	7.70	7.73	7.21	6.87	7.85	7.97	9.44	9.73
24	9.69	7.99	7.92	7.85	7.69	7.72	7.18	7.18	7.83	7.94	9.43	9.73
25	9.69	7.98	7.92	7.84	7.68	7.71	7.16	7.21	7.82	7.91	9.41	9.72
26	9.69	7.98	7.91	7.84	7.67	7.69	7.14	7.25	7.82	7.89	9.40	9.72
27	9.68	7.98	7.90	7.84	7.66	7.68	7.11	7.34	7.86	7.89	9.38	9.78
28	9.68	7.97	7.90	7.84	7.66	7.65	7.09	7.40	7.99	7.88	9.36	9.83
29	9.68	7.96	7.91	7.83	---	7.72	7.08	7.43	7.98	7.88	9.31	10.13
30	9.67	7.96	7.90	7.83	---	7.82	7.08	7.42	7.91	7.88	9.29	10.17
31	9.67	---	7.89	7.83	---	7.79	---	7.43	---	8.38	9.27	---
TOTAL	293.59	257.01	246.34	243.78	217.13	238.68	222.91	218.27	234.49	245.19	286.64	288.83
MEAN	9.47	8.57	7.95	7.86	7.75	7.70	7.43	7.04	7.82	7.91	9.25	9.63
MAX	9.75	9.66	8.06	7.89	7.83	7.82	7.78	7.43	7.99	8.38	9.49	10.17
MIN	8.41	7.96	7.89	7.83	7.66	7.59	7.08	6.70	7.55	7.80	8.96	9.24

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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, tipping bucket rain gage. Water-stage recorders used as back-up prior to August 11, 1999. 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 available in filed of the U.S. Geological Survey. 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 25 complete water years of discharge (1964-65, 1976-77, 1979, 1981-97, 1999-2001).

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, 10.32 ft Sept. 29; minimum, 7.44 ft May 22.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.94 ft Dec. 21, 1994 (corrected); minimum, 4.70 ft June 20, 1989.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.31 ft Sept. 29; minimum, 5.47 ft May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.72	9.79	9.77	9.52	9.13	8.57	8.55	7.88	8.33	8.57	9.40	9.31
2	9.71	9.78	9.77	9.51	9.12	8.54	8.53	7.96	8.40	8.57	9.52	9.32
3	9.87	9.77	9.76	9.50	9.11	8.49	8.50	7.95	8.44	8.56	9.59	9.29
4	10.02	9.77	9.75	9.48	9.09	8.48	8.47	8.19	8.43	8.55	9.64	9.28
5	10.01	9.76	9.74	9.45	9.09	8.57	8.46	8.22	8.42	8.59	9.68	9.34
6	10.01	9.73	9.73	9.43	9.07	8.54	8.45	8.17	8.41	8.59	9.72	9.48
7	10.03	9.67	9.72	9.42	9.04	8.51	8.43	8.13	8.42	8.60	9.74	9.51
8	10.04	9.73	9.72	9.39	9.03	8.48	8.38	8.11	8.48	8.59	9.71	9.53
9	10.05	9.75	9.70	9.40	9.00	8.42	8.35	8.05	8.40	8.60	e9.64	9.60
10	10.04	9.77	9.71	9.40	8.98	8.42	8.32	8.00	8.48	8.62	e9.61	9.64
11	10.01	9.78	9.72	9.38	8.96	8.40	8.29	8.04	8.47	8.66	e9.59	9.68
12	9.96	9.79	9.72	9.36	8.94	8.37	8.23	7.97	8.46	8.69	e9.59	9.76
13	9.94	9.79	9.72	9.36	8.92	8.31	8.18	7.91	8.45	8.68	e9.57	9.81
14	9.92	9.79	e9.72	9.35	8.90	8.30	8.15	7.87	8.48	8.69	9.57	9.82
15	9.90	9.80	9.71	9.33	8.88	8.26	8.08	7.81	8.49	8.79	9.54	9.84
16	9.89	9.80	9.69	9.32	8.86	8.23	8.05	7.76	e8.48	8.83	9.50	9.84
17	9.87	9.81	9.69	9.31	8.84	8.22	8.00	7.74	e8.46	8.85	9.49	9.84
18	9.85	9.81	9.68	9.29	8.84	8.27	8.00	7.72	e8.46	8.88	9.48	9.87
19	9.84	9.81	9.66	9.26	8.82	8.36	7.94	7.68	e8.46	8.89	9.48	9.89
20	9.84	9.81	9.65	9.28	8.79	8.53	7.89	7.65	e8.43	8.92	9.48	9.88
21	9.83	9.81	9.64	9.31	8.77	e8.52	7.85	7.59	8.43	9.01	9.46	9.87
22	9.82	9.81	9.64	9.29	8.74	8.53	7.82	7.54	8.47	9.09	9.45	9.86
23	9.82	9.80	9.64	9.28	8.72	8.51	7.79	7.71	8.49	9.13	9.45	9.85
24	9.82	9.78	9.64	9.26	8.70	8.48	7.78	8.16	8.49	9.19	9.44	9.84
25	9.82	9.79	9.63	9.25	8.67	8.45	7.81	8.22	8.50	9.21	9.43	9.83
26	9.82	9.79	9.62	9.24	8.65	8.43	7.95	8.25	8.53	9.23	9.41	9.83
27	9.81	9.79	9.60	9.23	8.62	8.43	7.93	8.29	8.56	9.25	9.40	9.88
28	9.81	9.78	9.57	9.21	8.59	8.40	7.90	8.32	8.61	9.28	9.38	9.94
29	9.80	9.78	9.58	9.19	---	8.35	7.89	8.31	8.64	9.30	9.35	10.25
30	9.80	9.79	9.56	9.15	---	8.50	7.89	8.30	8.60	9.35	9.34	10.29
31	9.80	---	9.53	9.14	---	8.54	---	8.31	---	9.35	9.31	---
TOTAL	306.47	293.43	299.98	289.29	248.87	261.41	243.86	247.81	254.27	275.11	294.96	291.97
MEAN	9.89	9.78	9.68	9.33	8.89	8.43	8.13	7.99	8.48	8.87	9.51	9.73
MAX	10.05	9.81	9.77	9.52	9.13	8.57	8.55	8.32	8.64	9.35	9.74	10.29
MIN	9.71	9.67	9.53	9.14	8.59	8.22	7.78	7.54	8.33	8.55	9.31	9.28

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254543080405401 TAMIAMI CANAL AT S-12-D, NEAR MIAMI, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.55	9.78	8.64	8.43	7.72	6.30	6.94	6.12	6.69	7.28	8.84	9.31
2	8.53	9.78	8.63	8.43	7.70	6.29	6.92	6.12	7.04	7.23	8.75	9.32
3	8.61	9.77	8.63	8.43	7.69	6.28	6.88	6.13	7.13	7.19	8.76	9.30
4	9.19	9.76	8.63	8.42	7.68	6.28	6.84	6.20	7.09	7.19	8.78	9.28
5	9.52	9.75	8.62	8.42	7.68	6.44	6.81	6.23	7.07	7.22	8.80	9.34
6	9.52	9.72	8.69	8.41	7.67	6.40	6.80	6.19	7.06	7.20	8.80	9.47
7	9.55	9.51	8.63	8.41	7.67	6.36	6.79	6.14	7.07	7.20	8.81	9.50
8	9.55	9.16	8.63	8.40	7.67	6.39	6.76	6.09	7.14	7.19	9.06	9.52
9	9.56	9.15	8.63	8.40	7.66	6.54	6.74	6.04	7.11	7.24	e9.38	9.59
10	9.56	9.15	8.63	8.40	7.66	6.63	6.70	6.00	7.09	7.29	e9.37	9.63
11	e9.73	9.15	8.64	8.35	7.65	6.68	6.66	5.96	7.03	7.34	e9.38	9.67
12	e9.83	9.14	8.63	8.26	7.57	6.71	6.63	5.92	7.05	7.39	e9.37	9.76
13	9.82	9.14	8.58	8.25	7.14	6.73	6.60	5.89	7.41	7.31	e9.37	9.80
14	9.80	9.14	e8.53	8.24	6.80	6.73	6.57	5.84	7.82	7.28	9.37	9.82
15	9.79	9.18	8.52	8.24	6.64	6.73	6.55	5.80	7.90	7.36	9.44	9.84
16	9.78	9.21	8.52	8.23	6.57	6.73	6.51	5.76	e7.93	7.36	9.50	9.84
17	9.81	9.21	8.52	8.19	6.53	6.72	6.48	5.72	e7.92	7.39	9.49	9.85
18	9.85	9.21	8.52	8.13	6.49	6.75	6.44	5.67	e7.92	7.45	9.48	9.86
19	9.84	9.20	8.52	8.12	6.45	6.82	6.40	5.62	e7.92	7.42	9.48	9.89
20	9.83	9.21	8.49	8.13	6.42	6.96	6.36	5.58	e7.91	7.36	9.48	9.88
21	9.82	9.11	8.46	8.12	6.40	e6.97	6.32	5.54	7.94	7.36	9.46	9.87
22	9.82	8.97	8.46	8.12	6.39	6.96	6.28	5.49	7.93	7.41	9.45	9.86
23	9.82	8.97	8.46	8.12	6.37	6.94	6.26	5.61	7.93	7.38	9.45	9.85
24	9.82	8.96	8.46	8.07	6.36	6.93	6.23	5.99	7.92	7.36	9.44	9.84
25	9.82	8.97	8.45	7.89	6.34	6.93	6.21	6.09	7.93	7.52	9.43	9.83
26	9.82	8.97	8.44	7.82	6.33	6.91	6.19	6.15	7.84	7.97	9.41	9.83
27	9.81	8.97	8.44	7.78	6.32	6.88	6.17	6.25	7.57	8.04	9.40	9.88
28	9.80	8.84	8.43	7.76	6.31	6.85	6.14	6.47	7.51	8.07	9.38	9.94
29	9.79	8.65	8.43	7.76	---	6.86	6.13	6.52	7.45	8.07	9.35	10.23
30	9.79	8.64	8.43	7.75	---	6.93	6.13	6.52	7.34	8.08	9.33	10.28
31	9.79	---	8.43	7.73	---	6.93	---	6.59	---	8.39	9.31	---
TOTAL	298.12	276.37	264.72	253.21	195.88	207.56	195.44	186.24	224.66	231.54	287.12	291.88
MEAN	9.62	9.21	8.54	8.17	7.00	6.70	6.51	6.01	7.49	7.47	9.26	9.73
MAX	9.85	9.78	8.69	8.43	7.72	6.97	6.94	6.59	7.94	8.39	9.50	10.28
MIN	8.53	8.64	8.43	7.73	6.31	6.28	6.13	5.49	6.69	7.19	8.75	9.28

e Estimated

02289050 TAMiami CANAL AT S-333 NEAR MIAMI, FL

LOCATION.--Lat 25°45'39", long 80°40'27", in SW ¼ sec.6, T.54 S., R.37 E., Dade County, Hydrologic Unit 03090202, on south bank of Levee 29 in control house of control structure 333 at Levee 67A, 100 ft north of U.S. Highway 41 and 29 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1978 to September 1981 (gage heights only), October 1981 to current year.

REVISED RECORDS.--WDR FL-87-2A:1986.

GAGE.--Water-stage shaft encoders for upstream and downstream, and gate-opening recorder with cellular phone/radio telemetry.

Water-stage recorders prior to September 1, 1999. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good except estimated discharges, which are poor. Flow is regulated by operation of control structure 333.

Discharge computed from relations between discharge, head, and gate opening. Records prior to October 1981, are available in files of the South Florida Water Management District.

COOPERATION.--Control structure 333 gate-operation records and upstream and downstream data provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 20 complete water years of discharge (1982-2001).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.10 ft Dec. 21, 1994; minimum, 5.20 ft June 19, 1989 (estimated).

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.37 ft Sept. 29, 30; minimum, 7.44 ft May 22.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 8.34 ft Nov. 7; minimum, 4.67 ft May 22.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.73	9.86	9.81	9.56	9.16	8.60	8.58	7.88	8.34	8.58	9.40	9.32
2	9.72	9.85	9.80	9.55	9.14	e8.57	8.55	7.96	8.40	8.58	9.52	9.32
3	9.88	9.84	9.79	9.54	9.14	e8.52	8.51	7.95	8.44	8.57	9.59	9.30
4	10.05	9.84	9.79	9.52	9.11	8.50	8.49	8.19	8.43	8.56	9.64	9.29
5	10.03	9.83	9.78	9.49	9.12	8.60	8.47	8.23	8.42	8.59	9.69	9.37
6	10.03	9.79	9.77	9.47	9.10	8.57	8.47	8.18	8.41	8.60	9.73	9.52
7	10.06	9.72	9.76	9.46	9.08	8.54	8.44	8.13	8.42	8.60	9.74	e9.55
8	10.06	9.78	9.76	9.43	9.06	8.51	8.40	e8.11	8.48	8.60	9.71	e9.57
9	10.07	9.79	9.74	9.44	9.03	8.45	8.37	e8.06	8.50	8.61	9.64	9.64
10	10.07	9.81	9.75	9.44	9.00	8.45	8.34	e8.00	8.48	8.63	9.60	9.68
11	10.05	9.82	9.76	9.42	8.98	8.43	8.30	8.04	8.47	8.67	9.59	9.73
12	10.01	9.82	9.76	9.39	8.96	8.40	8.23	e7.97	8.45	8.70	9.59	9.81
13	10.00	9.82	9.77	9.39	8.95	8.34	8.18	e7.91	e8.45	8.69	9.57	9.87
14	e9.98	9.82	9.77	9.38	8.92	8.33	8.14	e7.87	e8.48	8.70	9.57	9.88
15	e9.96	9.83	9.76	9.37	8.90	8.29	8.07	7.81	e8.49	8.80	9.54	9.90
16	9.95	9.83	9.75	9.35	8.88	8.25	8.04	7.76	8.48	8.84	9.50	9.91
17	9.94	9.84	9.74	9.34	8.86	8.25	8.00	7.73	8.46	8.87	9.49	9.91
18	9.92	9.84	9.73	9.32	8.87	8.29	8.00	7.72	8.46	8.90	9.48	9.93
19	9.91	9.83	9.71	9.29	8.85	8.38	7.94	7.68	8.46	8.90	9.48	9.95
20	9.91	9.84	9.71	9.31	8.82	8.55	7.89	7.64	8.43	8.93	9.48	9.93
21	9.90	9.85	9.70	9.34	8.79	8.55	7.86	7.59	8.44	9.02	9.46	9.92
22	9.90	9.84	e9.70	9.33	e8.76	8.57	7.82	7.53	8.48	9.10	9.45	9.91
23	e9.90	9.83	e9.67	9.32	e8.74	8.55	7.79	7.70	8.50	9.14	9.46	9.90
24	e9.90	9.82	9.67	9.30	8.73	8.52	7.78	e8.16	8.50	9.19	e9.44	9.89
25	9.90	9.82	9.66	9.29	8.69	8.49	7.81	8.22	8.51	9.21	e9.43	9.88
26	9.89	9.82	9.63	9.28	8.67	8.46	e7.95	8.25	8.54	9.23	9.42	9.88
27	9.88	9.83	9.61	9.27	8.65	8.46	e7.94	8.29	8.57	9.25	9.41	9.93
28	9.88	9.82	e9.58	9.25	8.62	8.43	e7.90	8.33	8.62	9.28	9.38	9.99
29	9.87	9.82	e9.59	9.22	---	8.38	7.89	8.32	8.65	9.30	9.36	10.30
30	9.87	9.82	e9.59	9.18	---	e8.53	7.90	8.31	8.62	9.34	9.34	10.35
31	9.87	---	9.58	9.18	---	e8.56	---	8.32	---	9.35	9.32	---
TOTAL	308.09	294.67	301.19	290.42	249.58	262.32	244.05	247.84	254.38	275.33	295.02	293.33
MEAN	9.94	9.82	9.72	9.37	8.91	8.46	8.14	7.99	8.48	8.88	9.52	9.78
MAX	10.07	9.86	9.81	9.56	9.16	8.60	8.58	8.33	8.65	9.35	9.74	10.35
MIN	9.72	9.72	9.58	9.18	8.62	8.25	7.78	7.53	8.34	8.56	9.32	9.29

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289050 TAMiami CANAL AT S-333 NEAR MIAMI, FL

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.46	7.17	7.31	7.03	6.77	6.25	6.06	5.27	5.45	6.34	6.86	8.12
2	7.47	7.15	7.30	7.03	6.75	e6.23	6.06	5.27	5.74	6.32	7.26	8.12
3	7.69	7.12	7.29	7.01	6.75	e6.20	6.01	5.29	5.80	6.30	7.37	8.12
4	8.07	7.11	7.29	7.01	6.74	6.17	5.97	5.45	5.83	6.28	7.38	8.13
5	8.03	7.09	7.26	7.01	6.73	6.23	5.94	5.50	5.84	6.30	7.40	7.86
6	8.01	7.25	7.22	7.01	6.73	6.21	6.01	5.47	5.87	6.28	7.42	7.46
7	8.04	7.61	7.20	7.00	6.73	6.19	6.23	5.42	5.83	6.31	7.42	e7.42
8	7.99	7.56	7.20	6.99	6.73	6.17	6.25	e5.35	5.83	6.35	7.63	e7.42
9	7.93	7.55	7.20	6.98	6.73	6.15	6.24	e5.31	5.89	6.37	7.82	7.43
10	7.89	7.55	7.25	6.99	6.71	6.13	6.23	e5.28	5.93	6.38	7.89	7.41
11	7.84	7.56	7.28	6.98	6.70	6.13	6.24	5.24	5.91	6.40	7.90	7.37
12	7.79	7.56	7.26	6.95	6.65	6.12	6.32	e5.19	5.88	6.42	7.92	7.40
13	7.75	7.56	7.25	6.94	6.57	6.07	6.32	e5.14	e5.95	6.40	7.92	7.47
14	e7.70	7.56	7.22	6.94	6.54	6.06	6.30	e5.10	e6.17	6.39	7.93	7.53
15	e7.65	7.52	7.21	6.94	6.52	6.03	6.27	5.05	e6.20	6.45	7.97	7.51
16	e7.61	7.49	7.19	6.94	6.50	6.00	6.26	4.99	6.26	6.46	8.01	7.48
17	7.57	7.46	7.16	6.92	6.46	5.98	6.22	4.95	6.33	6.48	8.01	7.44
18	7.53	7.47	7.16	6.89	6.46	6.03	6.16	4.91	6.32	6.50	8.01	7.43
19	7.50	7.46	7.13	6.89	6.46	6.17	6.15	4.85	6.33	6.52	8.01	7.42
20	7.47	7.46	7.13	6.89	6.43	6.22	6.14	4.81	6.30	6.56	8.05	7.38
21	7.44	7.44	7.10	6.88	6.41	6.19	6.12	4.76	6.33	6.63	8.07	7.35
22	7.42	7.40	e7.10	6.87	e6.39	6.17	6.11	4.71	6.38	6.67	8.11	7.31
23	e7.38	7.40	e7.09	6.86	e6.37	6.16	6.05	4.83	6.38	6.65	8.12	7.28
24	e7.36	7.41	7.09	6.85	6.37	6.14	5.74	e5.20	6.38	6.65	e8.09	7.25
25	7.33	7.38	7.09	6.82	6.35	6.10	5.56	5.29	6.40	6.64	e8.09	7.23
26	7.30	7.37	7.09	6.82	6.32	6.07	e5.48	5.32	6.42	6.65	8.09	7.22
27	7.27	7.36	7.07	6.81	6.30	6.04	e5.39	5.35	6.32	6.64	8.08	7.23
28	7.25	7.33	e7.06	6.81	6.27	6.02	e5.35	5.43	6.36	6.63	8.11	7.30
29	7.23	7.32	e7.05	6.80	---	5.98	5.30	5.45	6.37	6.61	8.13	7.65
30	7.21	7.31	e7.04	6.79	---	e6.04	5.30	5.43	6.35	6.60	8.13	7.67
31	7.19	---	7.03	6.77	---	e6.02	---	5.41	---	6.59	8.12	---
TOTAL	235.37	221.98	222.32	214.42	183.44	189.67	179.78	161.02	183.35	200.77	243.32	225.41
MEAN	7.59	7.40	7.17	6.92	6.55	6.12	5.99	5.19	6.11	6.48	7.85	7.51
MAX	8.07	7.61	7.31	7.03	6.77	6.25	6.32	5.50	6.42	6.67	8.13	8.13
MIN	7.19	7.09	7.03	6.77	6.27	5.98	5.30	4.71	5.45	6.28	6.86	7.22

e Estimated

02289050 TAMiami CANAL AT S-333 NEAR MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	.00	260	92	24	.00	.00	.00	.00	.00	282	1390
2	286	.00	260	91	24	.00	.00	.00	.00	.00	602	1390
3	126	.00	260	91	24	.00	.00	.00	.00	.00	698	1380
4	.00	.00	260	91	21	.00	.00	.00	.00	.00	701	1360
5	.00	.00	222	91	21	.00	.00	.00	.00	.00	705	781
6	.00	232	185	90	21	.00	.00	.00	.00	.00	708	174
7	.00	e628	186	90	21	.00	.00	.00	.00	.00	710	e174
8	.00	523	186	90	21	.00	.00	.00	.00	.00	1050	e174
9	.00	526	185	90	21	.00	25	.00	.00	.00	1280	175
10	.00	529	183	90	21	.00	54	.00	.00	.00	1330	108
11	.00	529	182	80	21	.00	67	.00	.00	.00	1320	.00
12	.00	529	183	70	7.0	.00	73	.00	.00	.00	1310	.00
13	.00	528	147	70	.00	.00	72	.00	.00	.00	1310	.00
14	.00	529	129	70	.00	.00	72	.00	.00	.00	1300	.00
15	.00	457	129	70	.00	.00	71	.00	e20	.00	1330	.00
16	.00	396	129	69	.00	.00	71	.00	43	.00	1370	.00
17	.00	398	129	55	.00	.00	60	.00	42	.00	1360	.00
18	.00	398	129	48	.00	.00	54	.00	42	.00	1350	.00
19	.00	398	129	47	.00	.00	54	.00	42	.00	1350	.00
20	.00	398	110	47	.00	.00	53	.00	42	.00	1390	.00
21	.00	356	95	46	.00	.00	53	.00	42	.00	1380	.00
22	.00	317	e95	45	.00	.00	52	.00	42	.00	1400	.00
23	.00	316	e95	45	.00	.00	28	.00	42	.00	1400	.00
24	.00	315	95	34	.00	.00	.00	.00	38	.00	e1400	.00
25	.00	317	95	24	.00	.00	.00	.00	38	11	e1400	.00
26	.00	318	94	24	.00	.00	.00	.00	18	22	1390	.00
27	.00	294	94	24	.00	.00	.00	.00	.00	22	1390	.00
28	.00	262	e94	24	.00	.00	.00	.00	.00	22	1410	.00
29	.00	263	e94	24	---	.00	.00	.00	.00	22	1410	.00
30	.00	263	e93	24	---	.00	.00	.00	.00	23	1400	.00
31	.00	---	92	24	---	.00	---	.00	---	14	1390	---
TOTAL	699.00	10019.00	4619	1870	247.00	0.00	859.00	0.00	451.00	136.00	36826	7106.00
MEAN	22.5	334	149	60.3	8.82	.000	28.6	.000	15.0	4.39	1188	237
MAX	287	628	260	92	24	.00	73	.00	43	23	1410	1390
MIN	.00	.00	92	24	.00	.00	.00	.00	.00	.00	282	.00
AC-FT	1390	19870	9160	3710	490	.00	1700	.00	895	270	73040	14090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	214	238	166	142	237	247	379	325	146	226	341	191								
MAX	739	689	693	558	1094	777	936	1208	346	733	1188	655								
(WY)	1986	1985	1993	2000	2000	1999	1998	1985	1985	1986	2001	1991								
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
(WY)	1982	1982	1982	1982	1982	1989	1989	1982	1982	1983	1987	1994								

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1982 - 2001

ANNUAL TOTAL	118834.40	62832.00	
ANNUAL MEAN	325	172	238
HIGHEST ANNUAL MEAN			572
LOWEST ANNUAL MEAN			51.8
HIGHEST DAILY MEAN	1670	Feb 24	1410
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 25	.00
ANNUAL RUNOFF (AC-FT)	235700	124600	172100
10 PERCENT EXCEEDS	989	558	705
50 PERCENT EXCEEDS	230	.00	127
90 PERCENT EXCEEDS	.00	.00	.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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254540080361500 TAMIAMI CANAL AT S-355A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°36'15", in SW ¼ sec. T.54 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, on north bank of Levee 29 in control house 100 ft east of structure 355A, 2.4 mi west of structure 355B, 6.7 mi west of SR 997.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream inside structure 355A control house; potentiometer-gage recorder attached to hydraulic ram of gate. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of two located between structure 333 and structure 334 on Levee 29. Gage records are primarily used to determine discharge. Discharge is not available at time of publication. The gate is opened once a month for about an hour when conditions allow for maintenance purposes.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.49 ft Sept. 29, 2001; minimum, 4.95 ft May 22, 23, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.40 ft Nov. 7, 2000; minimum, 4.91 ft May 22, 23, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 8.49 ft Sept. 29; minimum, 4.95 ft May 22, 23.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 8.40 ft Nov. 7; minimum, 4.91 ft May 22, 23.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.69	7.78	7.48	7.31	7.11	6.51	6.29	5.49	5.66	6.75	7.15	7.56
2	7.71	7.76	7.47	7.30	7.10	6.50	6.27	5.49	5.93	6.73	7.28	7.55
3	7.95	7.74	7.46	7.29	7.09	6.47	6.22	5.50	6.00	6.71	7.38	7.55
4	8.27	7.72	7.45	7.29	7.08	6.45	6.18	5.67	6.04	6.69	7.43	7.55
5	8.24	7.71	7.44	7.27	7.07	6.54	6.15	5.72	6.04	6.70	7.46	7.55
6	8.23	7.68	7.43	7.27	7.06	6.51	6.13	5.69	6.05	6.69	7.47	7.54
7	8.26	7.69	7.42	7.26	7.04	6.47	6.18	5.65	6.02	6.76	7.47	7.54
8	8.24	7.68	7.42	7.25	7.03	6.43	6.20	5.60	6.03	6.84	7.46	7.57
9	8.23	7.67	7.41	7.24	7.02	6.40	6.19	5.55	6.13	6.88	7.46	e7.61
10	8.22	7.66	7.46	7.23	7.01	6.38	6.17	5.51	6.15	6.90	7.46	7.66
11	8.19	7.65	7.51	7.23	6.99	6.36	6.15	5.46	6.12	6.92	7.52	7.71
12	8.18	7.65	7.50	7.22	6.98	6.34	6.16	5.42	6.07	6.96	7.59	7.74
13	8.16	7.63	7.50	7.22	6.96	6.32	6.17	5.38	6.06	6.94	7.57	7.84
14	8.14	7.63	e7.49	7.21	6.95	6.29	6.16	5.34	6.19	6.94	7.57	7.91
15	8.12	7.62	7.48	7.21	6.92	6.26	6.14	5.29	6.24	7.00	7.58	7.96
16	8.10	7.61	7.47	7.19	6.91	6.23	6.12	5.26	6.30	7.01	7.57	7.97
17	8.07	7.59	7.46	7.19	6.88	6.20	6.09	5.21	6.42	7.03	7.56	7.96
18	8.05	7.59	7.45	7.18	6.86	6.26	6.03	5.16	6.41	7.07	7.55	7.97
19	8.03	7.58	7.43	7.18	6.84	6.43	5.98	5.11	6.39	7.11	7.55	8.00
20	8.01	7.57	7.42	7.21	6.82	6.57	5.95	5.07	6.36	7.14	7.55	7.99
21	7.99	7.56	7.41	7.21	6.79	6.54	5.92	5.02	6.37	7.22	7.55	7.98
22	7.97	7.54	7.40	7.21	6.77	6.49	5.89	4.98	6.44	7.28	7.57	7.97
23	7.95	7.54	7.39	7.20	6.74	6.44	5.86	5.09	6.45	7.27	7.60	7.96
24	7.93	7.53	7.38	7.19	6.71	6.39	5.82	5.45	6.47	7.25	7.60	7.96
25	7.91	7.53	7.38	7.18	6.68	6.35	5.75	5.50	6.54	7.23	7.59	7.96
26	7.90	7.53	7.37	7.17	6.65	6.31	5.70	5.53	6.67	7.21	7.59	7.97
27	7.87	7.51	7.35	7.15	6.61	6.26	5.64	5.54	6.68	7.18	7.59	8.01
28	7.86	7.50	7.35	7.15	6.53	6.22	5.57	5.61	6.75	7.16	7.58	8.09
29	7.83	7.50	7.34	7.14	---	6.19	5.52	5.63	6.77	7.14	7.58	---
30	7.82	7.49	7.33	7.13	---	e6.24	5.52	5.61	6.76	7.12	7.58	---
31	7.80	---	7.31	7.12	---	6.24	---	5.62	---	7.10	7.57	---
TOTAL	248.92	228.44	230.16	223.60	193.20	197.59	180.12	168.15	188.51	216.93	233.03	218.63
MEAN	8.03	7.61	7.42	7.21	6.90	6.37	6.00	5.42	6.28	7.00	7.52	7.81
MAX	8.27	7.78	7.51	7.31	7.11	6.57	6.29	5.72	6.77	7.28	7.60	8.09
MIN	7.69	7.49	7.31	7.12	6.53	6.19	5.52	4.98	5.66	6.69	7.15	7.54

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254540080361500 TAMIAMI CANAL AT S-355A, NEAR MIAMI, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.61	7.31	7.46	7.20	6.93	6.43	6.24	5.50	5.63	6.50	7.01	8.21
2	7.61	7.29	7.45	7.20	6.93	6.41	6.23	5.50	5.92	6.48	7.40	8.22
3	7.83	7.27	7.45	7.19	6.92	6.38	6.18	5.51	5.97	6.46	7.51	8.22
4	8.22	7.25	7.45	7.19	6.91	6.36	6.14	5.68	6.00	6.46	7.53	8.23
5	8.18	7.24	7.42	7.18	6.90	6.43	6.12	5.73	6.01	6.47	7.55	8.00
6	8.16	7.39	7.37	7.18	6.89	6.41	6.17	5.70	6.03	6.45	7.56	7.63
7	8.20	7.74	7.36	7.17	6.89	6.38	6.39	5.64	6.00	6.49	7.56	7.60
8	8.14	7.69	7.36	7.17	6.88	6.35	6.42	5.59	6.01	6.53	7.76	7.59
9	8.09	7.69	7.35	7.16	6.88	6.33	6.41	5.55	6.07	6.55	7.94	e7.60
10	8.04	7.70	7.40	7.16	6.87	6.32	6.40	5.51	6.11	6.57	8.00	7.58
11	7.99	7.70	7.44	7.15	6.86	6.30	6.45	5.46	6.08	6.59	8.01	7.54
12	7.95	7.71	7.42	7.12	6.80	6.28	6.54	5.42	6.05	6.61	8.03	7.56
13	7.90	7.71	7.40	7.12	6.73	6.26	6.55	5.38	6.12	6.59	8.03	7.64
14	7.85	7.71	e7.37	7.11	6.70	6.23	6.54	5.33	6.34	6.58	8.04	7.71
15	7.80	7.67	7.36	7.11	6.69	6.21	6.53	5.28	6.38	6.64	8.07	7.70
16	7.76	7.62	7.34	7.10	6.67	6.18	6.51	5.24	6.43	6.64	8.11	7.65
17	7.72	7.61	7.33	7.08	6.64	6.15	6.48	5.19	6.50	6.65	8.11	7.61
18	7.68	7.61	7.32	7.06	6.63	6.20	6.41	5.14	6.50	6.68	8.11	7.60
19	7.65	7.61	7.31	7.05	6.61	6.34	6.39	5.08	6.49	6.71	8.11	7.59
20	7.62	7.61	7.30	7.07	6.60	6.42	6.37	5.03	6.48	6.74	8.14	7.55
21	7.59	7.58	7.27	7.06	6.58	6.39	6.36	4.99	6.51	6.82	8.16	7.51
22	7.55	7.55	7.26	7.05	6.56	6.36	6.35	4.94	6.56	6.85	8.20	7.47
23	7.52	7.54	7.25	7.05	6.54	6.34	6.28	5.07	6.56	6.83	8.21	7.44
24	7.50	7.54	7.25	7.03	6.53	6.31	5.97	5.42	6.56	6.81	8.19	7.42
25	7.47	7.53	7.24	7.00	6.51	6.28	5.80	5.47	6.59	6.81	8.19	7.40
26	7.44	7.53	7.24	7.00	6.49	6.25	5.72	5.50	6.59	6.82	8.19	7.38
27	7.42	7.51	7.23	6.99	6.47	6.22	5.64	5.54	6.50	6.81	8.19	7.40
28	7.40	7.48	7.22	6.98	6.45	6.18	5.57	5.61	6.54	6.79	8.20	7.46
29	7.37	7.47	7.21	6.97	---	6.16	5.52	5.63	6.54	6.78	8.22	7.80
30	7.35	7.47	7.21	6.96	---	e6.22	5.52	5.60	6.52	6.77	8.22	7.83
31	7.33	---	7.20	6.95	---	6.21	---	5.58	---	6.75	8.21	---
TOTAL	239.94	226.33	227.24	219.81	188.06	195.29	186.20	167.81	188.59	206.23	246.76	230.14
MEAN	7.74	7.54	7.33	7.09	6.72	6.30	6.21	5.41	6.29	6.65	7.96	7.67
MAX	8.22	7.74	7.46	7.20	6.93	6.43	6.55	5.73	6.59	6.85	8.22	8.23
MIN	7.33	7.24	7.20	6.95	6.45	6.15	5.52	4.94	5.63	6.45	7.01	7.38

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289060 TAMAMIAMI CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°33'40", in SE ¼ 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.--No estimated daily discharges. 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).

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 230 ft³/s, 167,400 acre-ft/yr. Figures represent 61 complete water years of discharge (1941-2001). Monthly discharge only, available 1941-1963 water years.

SPECIAL NOTE: Statistics for the period of record 1941-2001 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, 8.28 ft Nov. 07; minimum, 4.86 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.56	7.24	7.38	7.12	6.87	6.38	6.19	5.44	5.58	6.45	6.95	8.12
2	7.55	7.22	7.38	7.11	6.86	6.36	6.17	5.43	5.87	6.43	7.34	8.12
3	7.77	7.20	7.37	7.10	6.85	6.33	6.12	5.44	5.92	6.41	7.44	8.12
4	8.16	7.18	7.37	7.10	6.85	6.31	6.09	5.61	5.95	6.41	7.46	8.12
5	8.13	7.17	7.34	7.10	6.84	6.39	6.06	5.66	5.96	6.42	7.48	7.91
6	8.11	7.32	7.29	7.10	6.83	6.36	6.11	5.63	5.98	6.41	7.49	7.56
7	8.14	7.66	7.29	7.09	6.82	6.32	6.33	5.58	5.95	6.44	7.49	7.52
8	8.09	7.61	7.28	7.09	6.82	6.29	6.36	5.53	5.96	6.48	7.68	7.51
9	8.03	7.62	7.28	7.08	6.81	6.27	6.36	5.48	6.02	6.50	7.86	7.53
10	7.98	7.63	7.32	7.07	6.80	6.26	6.34	5.44	6.06	6.52	7.91	7.51
11	7.93	7.63	7.36	7.06	6.80	6.24	6.39	5.40	6.04	6.54	7.93	7.47
12	7.88	7.63	7.35	7.05	6.74	6.22	6.49	5.35	6.01	6.56	7.94	7.48
13	7.83	7.63	7.32	7.03	6.66	6.20	6.49	5.31	6.07	6.55	7.94	7.56
14	7.78	7.63	7.30	7.03	6.64	6.17	6.49	5.27	6.29	6.54	7.96	7.62
15	7.74	7.60	7.28	7.03	6.63	6.15	6.48	5.22	6.33	6.59	7.99	7.63
16	7.70	7.55	7.27	7.02	6.61	6.13	6.47	5.19	6.38	6.60	8.02	7.57
17	7.65	7.55	7.27	7.00	6.60	6.10	6.43	5.14	6.45	6.60	8.02	7.53
18	7.62	7.54	7.25	6.99	6.57	6.14	6.35	5.08	6.45	6.63	8.02	7.52
19	7.58	7.54	7.24	6.98	6.55	6.28	6.32	5.03	6.44	6.65	8.02	7.51
20	7.55	7.54	7.22	7.00	6.53	6.38	6.30	4.98	6.42	6.69	8.05	7.48
21	7.52	7.50	7.19	6.98	6.52	6.34	6.29	4.93	6.46	6.77	8.06	7.44
22	7.48	7.47	7.18	6.98	6.51	6.31	6.28	4.89	6.51	6.80	8.11	7.40
23	7.45	7.46	7.17	6.98	6.49	6.28	6.21	5.02	6.51	6.77	8.11	7.37
24	7.43	7.46	7.16	6.95	6.47	6.26	5.91	5.36	6.51	6.75	8.09	7.34
25	7.40	7.46	7.16	6.92	6.45	6.23	5.75	5.42	6.53	6.75	8.10	7.31
26	7.38	7.46	7.15	6.91	6.44	6.20	5.66	5.45	6.53	6.77	8.09	7.29
27	7.35	7.44	7.15	6.91	6.42	6.16	5.58	5.48	6.44	6.76	8.09	7.31
28	7.33	7.40	7.15	6.90	6.40	6.12	5.51	5.56	6.48	6.74	8.11	7.37
29	7.31	7.39	7.14	6.89	---	6.09	5.46	5.58	6.48	6.73	8.13	7.72
30	7.29	7.39	7.13	6.88	---	6.16	5.46	5.55	6.46	6.72	8.12	7.75
31	7.27	---	7.12	6.88	---	6.16	---	5.53	---	6.70	8.12	---
TOTAL	237.99	224.12	224.86	217.33	186.38	193.59	184.45	165.98	187.04	204.68	244.12	227.69
MEAN	7.68	7.47	7.25	7.01	6.66	6.24	6.15	5.35	6.23	6.60	7.87	7.59
MAX	8.16	7.66	7.38	7.12	6.87	6.39	6.49	5.66	6.53	6.80	8.13	8.12
MIN	7.27	7.17	7.12	6.88	6.40	6.09	5.46	4.89	5.58	6.41	6.95	7.29

254540080325700 TAMIAMI CANAL AT S-355B, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°32'57", in SW ¼ sec. T.54 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, on north bank of Levee 29 in control house 100 ft east of structure 355B, 2.4 mi east of structure 355A, 4.3 mi east of SR 997.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1999 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream inside structure 355B control house; potentiometer-gage recorder attached to hydraulic ram of gate. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of two located between structure 333 and structure 334 on Levee 29. Gage records are primarily used to determine discharge. Discharge is not available at time of publication. The gate is opened once a month for about an hour when conditions allow for maintenance purposes.

COOPERATION.--U.S. Army Corps of Engineers.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.67 ft Oct. 17, 18, 1999; minimum, 4.80 ft May 23, 2001.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.88 ft Oct. 15, 1999; minimum, 4.89 ft May 22, 23, 2001.

EXTREME UPSTREAM STAGES FOR 1999 WATER YEAR.--Maximum gage height, 8.65 ft Sept. 25, 27; minimum 7.74 July 13, 14, 15, 16, 17.

EXTREME DOWNSTREAM STAGES FOR 1999 WATER YEAR.--Maximum gage height, 7.87 ft Sept. 27; minimum, 7.21 ft July 14.

EXTREME UPSTREAM STAGES FOR 2000 WATER YEAR.--Maximum gage height, 9.67 ft Oct. 17, 18; minimum 6.73 ft June 6, 7.

EXTREME DOWNSTREAM STAGES FOR 2000 WATER YEAR.--Maximum gage height, 8.88 ft Oct. 15; minimum, 6.32 ft Apr. 5.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 8.47 ft Sept. 29, 30; minimum, 4.80 ft May 23.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 8.20 ft Aug. 22; minimum, 4.89 ft May 22, 23.

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.36	e7.60	e7.26	e7.08	e6.78	e6.24	e6.10	e5.20	e5.54	e6.31	6.83	7.40
2	e7.37	e7.56	e7.25	e7.07	e6.77	e6.20	e6.07	e5.23	e5.83	e6.29	6.99	7.39
3	e7.67	e7.54	e7.24	e7.06	e6.76	e6.16	e6.01	e5.30	e5.90	e6.28	7.15	7.39
4	e8.11	e7.51	e7.23	e7.06	e6.74	e6.15	e5.97	e5.64	e5.92	e6.28	7.26	7.40
5	e8.11	e7.49	e7.22	e7.04	e6.73	e6.27	e5.93	e5.65	e5.91	e6.27	7.30	7.39
6	e8.12	e7.46	e7.20	e7.04	e6.72	e6.23	---	e5.61	e5.92	e6.26	7.32	7.39
7	e8.21	e7.49	e7.20	e7.02	e6.70	e6.18	---	e5.54	e5.89	e6.29	7.32	7.41
8	e8.19	e7.49	e7.19	e7.02	e6.69	e6.15	---	e5.49	e5.90	e6.34	7.31	7.46
9	e8.18	e7.48	e7.18	e7.02	e6.68	e6.14	e5.98	e5.44	e5.97	e6.36	7.31	7.48
10	e8.15	e7.48	e7.25	e7.00	e6.66	e6.13	e5.93	e5.39	e6.03	e6.37	7.31	7.51
11	e8.13	e7.47	e7.34	e6.98	e6.64	e6.12	e5.90	e5.36	e6.00	e6.40	7.35	7.55
12	e8.12	e7.46	e7.32	e6.98	e6.63	e6.10	e5.90	e5.32	e5.99	e6.43	7.41	7.61
13	e8.08	e7.44	e7.30	e6.97	e6.60	e6.08	e5.89	e5.26	e5.98	e6.42	7.39	7.74
14	e8.05	e7.44	e7.28	e6.96	e6.57	e6.04	e5.87	e5.22	e6.09	e6.43	7.41	7.86
15	e8.02	e7.43	e7.27	e6.94	e6.55	e6.00	e5.84	e5.17	e6.11	e6.51	7.43	7.92
16	e7.99	e7.41	e7.26	e6.94	e6.53	e5.94	e5.81	e5.13	e6.17	e6.54	7.42	7.92
17	e7.96	e7.40	e7.25	e6.92	e6.52	e5.90	e5.78	e5.08	e6.27	e6.55	7.41	7.91
18	e7.93	e7.39	e7.24	e6.91	e6.50	e5.97	e5.73	e5.02	e6.24	e6.62	7.40	7.91
19	e7.89	e7.38	e7.22	e6.90	e6.48	e6.16	e5.67	e4.96	e6.21	e6.74	7.39	7.93
20	e7.86	e7.38	e7.21	e6.93	e6.46	e6.25	e5.63	e4.92	e6.18	e6.84	7.40	7.92
21	e7.82	e7.36	e7.20	e6.92	e6.43	e6.21	e5.58	e4.87	e6.17	e7.02	7.41	7.90
22	e7.80	e7.35	e7.18	e6.91	e6.41	e6.17	e5.55	e4.83	e6.19	e7.05	7.44	7.88
23	e7.79	e7.34	e7.18	e6.91	e6.39	e6.12	e5.52	e4.93	e6.20	e7.00	7.46	7.87
24	e7.77	e7.32	e7.17	e6.89	e6.36	e6.09	e5.45	e5.26	e6.21	e6.98	7.45	7.86
25	e7.75	e7.32	e7.16	e6.88	e6.34	e6.05	e5.38	e5.39	e6.22	e6.94	7.44	7.86
26	e7.73	e7.32	e7.14	e6.86	e6.30	e6.00	e5.33	e5.43	e6.26	e6.91	7.43	7.86
27	e7.70	e7.31	e7.13	e6.85	e6.28	e5.94	e5.25	e5.47	e6.25	e6.88	7.43	7.91
28	e7.67	e7.29	e7.12	e6.84	e6.28	e5.89	e5.20	e5.54	e6.30	e6.85	7.42	8.01
29	e7.65	e7.28	e7.12	e6.83	---	e5.87	e5.17	e5.55	e6.32	e6.81	7.43	8.39
30	e7.63	e7.27	e7.11	e6.81	---	e6.04	e5.21	e5.52	e6.31	e6.78	7.42	8.47
31	e7.61	---	e7.09	e6.80	---	e6.04	---	e5.49	---	e6.75	7.41	---
TOTAL	244.42	222.46	223.51	215.34	183.50	188.83	153.65	164.21	182.48	204.50	227.85	232.50
MEAN	7.88	7.42	7.21	6.95	6.55	6.09	5.69	5.30	6.08	6.60	7.35	7.75
MAX	8.21	7.60	7.34	7.08	6.78	6.27	6.10	5.65	6.32	7.05	7.46	8.47
MIN	7.36	7.27	7.09	6.80	6.28	5.87	5.17	4.83	5.54	6.26	6.83	7.39

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254540080325700 TAMIAMI CANAL AT S-355B, NEAR MIAMI, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.57	e7.28	7.44	7.18	6.94	6.42	6.22	5.47	5.63	6.49	6.98	8.15
2	7.56	e7.25	7.43	7.17	6.93	6.39	6.20	5.46	5.90	6.47	7.37	8.15
3	7.77	7.23	7.43	7.16	6.92	6.35	6.16	5.46	5.96	6.44	7.48	8.16
4	8.18	7.22	7.43	7.16	6.92	6.32	6.12	5.63	5.98	6.43	7.50	8.16
5	8.15	7.20	7.40	7.16	6.91	6.41	6.09	5.69	5.98	6.45	7.52	7.95
6	8.13	7.32	7.35	7.16	6.90	6.39	---	5.66	6.01	6.44	7.52	7.60
7	8.16	7.66	7.34	7.15	6.89	6.35	---	5.61	6.00	6.46	7.52	7.57
8	8.12	7.63	7.33	7.15	6.87	6.31	---	5.56	6.00	6.51	7.70	7.55
9	8.07	7.64	7.32	7.13	6.86	6.30	e6.37	5.52	6.05	6.54	7.89	7.57
10	8.02	7.64	7.36	7.13	6.86	6.28	e6.36	5.49	6.10	6.56	7.96	7.56
11	7.97	7.64	7.41	7.12	6.85	6.27	6.40	5.43	6.08	6.58	7.98	7.51
12	7.91	7.65	7.40	7.11	6.80	6.25	6.51	5.40	6.04	6.61	7.99	7.52
13	7.86	7.65	7.37	7.10	6.73	6.24	6.51	5.36	6.10	6.58	7.99	7.60
14	7.81	7.65	e7.34	7.09	6.71	6.21	6.52	5.31	6.32	6.57	8.00	7.67
15	7.77	7.63	7.33	7.09	6.69	6.19	6.51	5.27	6.34	6.62	8.03	7.69
16	7.73	e7.58	7.32	7.09	6.67	6.17	6.50	5.22	6.41	6.63	8.06	7.63
17	7.69	7.58	7.31	7.07	6.66	6.14	6.47	5.18	6.51	6.64	8.05	7.58
18	7.65	7.58	7.31	7.05	6.63	6.17	6.38	5.12	6.50	6.67	8.05	7.57
19	7.61	7.57	7.30	7.04	6.59	6.29	6.33	5.05	6.48	6.69	8.05	7.56
20	7.58	7.57	7.28	7.06	6.58	6.40	6.31	5.01	6.47	6.73	8.08	7.53
21	7.54	7.55	7.25	7.06	6.57	6.37	6.30	4.96	6.51	6.81	8.10	7.49
22	7.51	7.51	7.24	7.05	6.55	6.33	6.29	4.91	6.56	6.85	8.14	7.44
23	7.48	7.49	7.23	7.05	6.53	6.30	6.23	5.03	6.55	6.82	8.15	7.41
24	7.46	7.49	7.22	7.03	6.51	6.28	5.95	5.38	6.55	6.79	8.13	7.39
25	7.44	7.49	7.21	7.00	6.50	6.26	5.78	5.46	6.57	6.79	8.13	7.37
26	7.41	7.49	7.20	6.99	6.48	6.24	5.70	5.49	6.58	6.80	8.13	7.35
27	7.39	7.48	7.20	6.98	6.46	6.20	5.61	5.53	6.49	6.79	8.12	7.37
28	7.36	7.45	7.20	6.96	6.44	6.15	5.55	5.61	6.53	6.78	8.14	7.42
29	7.33	7.44	7.19	6.96	---	6.13	5.50	5.62	6.53	6.77	8.15	7.76
30	7.31	7.45	7.19	6.95	---	e6.18	5.49	5.60	6.51	6.76	8.15	7.80
31	7.29	---	7.18	6.95	---	6.19	---	5.58	---	6.74	8.15	---
TOTAL	238.83	225.01	226.51	219.35	187.95	194.48	166.36	167.07	188.24	205.81	245.21	229.08
MEAN	7.70	7.50	7.31	7.08	6.71	6.27	6.16	5.39	6.27	6.64	7.91	7.64
MAX	8.18	7.66	7.44	7.18	6.94	6.42	6.52	5.69	6.58	6.85	8.15	8.16
MIN	7.29	7.20	7.18	6.95	6.44	6.13	5.49	4.91	5.63	6.43	6.98	7.35

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289500 TAMIAMI CANAL NEAR CORAL GABLES, FL

LOCATION.--Lat 25°45'43", long 80°19'42", in SW ¼ 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 32 complete water years of discharge (1941, 42, 1960-83, 1985-88, 1990, 2001).

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, 7.90 ft Oct. 4; minimum, 2.34 ft Apr. 25.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.39	3.22	3.04	2.78	3.00	2.56	3.14	2.46	3.20	3.00	2.79	3.16
2	3.61	3.19	3.10	e2.75	2.99	2.54	3.15	2.61	3.16	2.93	2.90	3.17
3	e5.16	3.16	3.14	e2.92	2.98	2.52	2.74	2.97	e2.87	2.94	2.98	2.98
4	7.43	3.14	3.15	e3.08	2.97	2.52	3.10	3.01	2.90	2.82	3.06	2.94
5	6.20	3.15	3.10	3.12	2.99	2.65	3.07	3.14	3.00	e3.05	2.96	3.14
6	5.48	3.14	2.89	3.15	2.98	2.62	3.04	3.17	2.93	3.17	2.98	3.08
7	5.28	3.11	2.82	3.05	2.96	2.59	3.01	3.15	3.07	3.21	2.90	3.18
8	4.76	3.10	2.87	2.84	2.94	2.56	2.98	3.11	3.10	3.07	2.98	3.12
9	4.40	3.09	3.02	2.74	2.92	2.54	2.95	3.07	3.11	3.04	3.27	e3.20
10	4.19	3.14	4.04	2.83	2.91	2.52	2.92	3.03	3.16	3.00	3.17	3.22
11	4.03	3.12	4.42	3.00	2.89	2.51	2.89	2.98	3.18	3.17	3.13	2.99
12	3.91	3.14	3.69	3.05	2.87	2.49	2.85	2.95	3.15	3.27	3.10	e3.11
13	3.83	3.12	3.39	3.07	2.85	2.47	2.81	2.91	3.12	3.12	3.10	3.72
14	3.71	3.11	3.33	3.08	2.83	2.46	2.78	2.87	3.09	3.01	3.12	e3.56
15	3.58	3.03	3.39	3.10	2.82	2.44	2.75	2.84	3.06	3.08	3.08	e3.38
16	3.47	3.00	3.33	3.10	2.80	2.43	2.71	2.80	3.03	3.02	3.08	3.24
17	3.41	3.10	3.25	3.10	2.78	2.42	2.67	2.76	3.02	3.01	3.08	e3.15
18	3.33	2.92	3.15	3.10	2.76	2.44	2.62	2.73	3.01	3.15	3.09	e3.19
19	3.28	2.87	3.06	3.10	2.73	2.63	2.57	2.69	2.98	3.25	3.25	e3.25
20	3.30	2.83	3.12	3.05	2.71	2.67	2.52	2.66	2.96	3.30	3.13	3.21
21	3.34	2.78	3.04	3.04	2.70	2.65	2.48	2.63	2.94	3.24	3.16	e3.22
22	3.34	2.82	3.01	3.09	2.68	2.63	2.45	2.60	2.98	3.25	3.35	e3.20
23	3.34	3.02	2.99	3.10	2.66	2.61	2.42	2.78	2.96	3.14	3.35	e3.16
24	3.36	3.09	3.01	3.09	2.63	2.58	2.38	2.98	e2.95	3.19	e3.22	e3.13
25	3.37	3.15	3.02	3.08	2.61	2.56	2.39	2.90	3.05	3.35	3.14	e3.09
26	3.37	3.00	2.98	3.07	2.60	2.55	2.49	3.03	3.31	3.26	e3.10	e3.05
27	3.35	2.91	2.95	3.06	2.59	2.52	2.49	3.23	3.18	3.12	e3.07	3.09
28	3.33	2.84	2.94	3.05	2.58	2.50	2.43	3.09	2.98	3.03	e3.04	3.01
29	3.31	2.79	2.93	3.03	---	2.52	2.39	3.14	2.92	3.01	3.00	4.29
30	3.30	2.84	2.87	3.03	---	e2.88	2.38	3.20	3.17	3.00	2.95	3.97
31	3.26	---	2.81	3.02	---	3.05	---	3.19	---	2.89	2.95	---
TOTAL	122.42	90.92	97.85	93.67	78.73	79.63	81.95	90.45	91.64	96.02	95.44	97.20
MEAN	3.95	3.03	3.16	3.02	2.81	2.57	2.73	2.92	3.05	3.10	3.08	3.24
MAX	7.43	3.22	4.42	3.15	3.00	3.05	3.15	3.23	3.31	3.35	3.35	4.29
MIN	3.26	2.78	2.81	2.74	2.58	2.42	2.38	2.46	2.90	2.82	2.79	2.94

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (gauge 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 datum is 5.40 ft above National Geodetic Vertical Datum of 1929. Water levels below land-surface datum are recorded. Estimated period of record minimum value of 3.41 ft on April 23, 1979, is suspect.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gauge height, 8.51 ft Oct. 16, 1999; minimum, 3.41 ft estimated, Apr. 23, 1979.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gauge height, 8.04 ft Oct. 6; minimum, indeterminate, well was dry Apr. 22 to early June.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.12	7.04	6.88	6.72	6.39	5.56	5.47	---	---	5.80	6.28	7.20
2	7.13	7.02	6.87	6.71	6.38	5.51	5.41	---	---	5.78	6.42	7.21
3	7.44	7.00	6.86	6.69	6.36	5.47	5.35	---	---	5.76	6.50	7.23
4	7.98	6.98	6.85	6.69	6.35	5.47	5.30	---	---	5.73	6.57	7.26
5	7.95	6.97	6.84	6.67	6.34	5.70	5.25	---	---	5.70	6.62	7.26
6	7.94	6.95	6.83	6.66	6.32	5.62	5.20	---	---	5.65	6.68	7.27
7	7.98	6.93	6.82	6.65	6.30	5.56	5.16	---	---	5.68	6.70	7.25
8	7.92	6.93	6.81	6.64	6.28	5.50	e5.12	---	---	5.74	6.72	7.24
9	7.87	6.93	6.80	6.63	6.27	5.44	e5.06	---	---	5.74	6.73	7.26
10	7.80	6.94	6.89	6.61	6.25	5.41	e5.01	---	---	5.77	6.76	7.23
11	7.75	6.95	6.99	6.60	6.23	5.38	e4.97	---	---	5.81	6.81	7.23
12	7.70	6.96	6.98	6.60	6.21	5.34	e4.93	---	---	5.89	6.86	7.23
13	7.65	6.96	6.96	6.58	6.19	5.30	e4.89	---	---	5.87	6.89	7.32
14	7.60	6.96	6.95	6.57	6.17	5.26	e4.84	---	---	5.87	6.94	7.38
15	7.55	6.97	6.94	6.56	6.14	5.22	e4.80	---	---	5.93	7.01	7.38
16	7.51	6.97	6.92	6.55	6.11	5.18	e4.76	---	---	5.96	7.01	7.33
17	7.47	6.97	6.92	6.54	6.08	e5.14	e4.72	---	---	5.96	7.02	7.29
18	7.43	6.97	6.90	6.53	6.05	e5.28	e4.66	---	---	5.99	7.03	e7.28
19	7.39	6.96	6.89	6.52	6.01	5.46	e4.62	---	---	6.02	7.04	e7.28
20	7.36	6.96	6.87	6.52	5.97	5.57	e4.58	---	---	6.05	7.04	e7.24
21	7.33	6.96	6.85	6.52	5.93	5.48	e4.54	---	---	6.18	7.07	7.20
22	7.29	6.95	6.84	6.51	5.88	5.41	---	---	---	6.27	7.15	7.17
23	7.26	6.94	6.83	6.50	5.83	5.35	---	---	---	6.28	7.18	7.13
24	7.24	6.93	6.82	6.49	5.78	5.29	---	---	---	6.30	7.18	7.11
25	7.21	6.93	6.80	6.48	5.74	5.24	---	---	---	6.29	7.18	7.08
26	7.19	6.92	6.79	6.46	5.69	5.18	---	---	---	6.29	7.18	7.06
27	7.16	6.92	6.77	6.45	5.65	e5.13	---	---	5.45	6.28	7.18	7.09
28	7.13	6.91	6.77	6.44	5.60	e5.09	---	---	5.70	6.26	7.19	7.14
29	7.11	6.90	6.76	6.42	---	e5.09	---	---	5.78	6.25	7.20	e7.48
30	7.09	6.89	6.75	6.41	---	5.48	---	---	5.77	6.23	7.20	e7.57
31	7.07	---	6.73	6.40	---	5.44	---	---	---	6.22	7.20	---
TOTAL	231.62	208.57	212.48	203.32	170.50	166.55	104.64	---	22.70	185.55	214.54	217.40
MEAN	7.47	6.95	6.85	6.56	6.09	5.37	4.98	---	5.68	5.99	6.92	7.25
MAX	7.98	7.04	6.99	6.72	6.39	5.70	5.47	---	5.78	6.30	7.20	7.57
MIN	7.07	6.89	6.73	6.40	5.60	5.09	4.54	---	5.45	5.65	6.28	7.06

e Estimated

254130080380500 NORTHEAST SHARK RIVER SLOUGH NO. 1 NEAR COOPERTOWN, FL

LOCATION.--Lat 25°41'30", long 80°38'05" in NW ¼ 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 RECORD.--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 Datum is 5.88 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."

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, 8.00 ft Oct. 4; minimum, 4.76 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.22	7.16	6.94	6.80	6.54	6.25	6.15	5.44	5.55	6.03	6.38	7.13
2	e7.23	7.14	6.93	6.79	6.53	6.24	6.13	5.55	6.17	6.01	6.56	7.15
3	7.52	7.12	6.93	6.78	6.52	6.23	6.11	5.51	6.12	5.99	6.65	7.17
4	7.98	7.10	6.92	6.77	6.52	6.23	6.08	5.77	6.08	5.97	6.66	7.20
5	7.95	7.08	6.90	6.76	6.51	6.32	6.06	5.70	6.05	5.97	6.70	7.20
6	7.92	7.08	6.88	6.75	6.50	6.30	6.04	5.61	6.04	5.96	6.73	7.23
7	e7.92	7.06	6.87	6.74	6.49	6.28	6.03	5.52	6.03	5.96	6.73	7.23
8	e7.88	7.05	6.86	6.73	6.48	6.26	6.02	5.44	6.01	5.98	6.73	7.22
9	7.83	7.05	6.86	6.72	6.47	6.24	5.99	5.37	6.01	5.99	6.72	7.22
10	7.79	7.04	6.94	6.71	6.46	6.23	5.97	5.31	6.01	6.05	6.72	7.23
11	7.75	7.04	7.06	6.70	6.45	6.23	5.95	5.26	6.00	6.07	6.74	7.25
12	7.71	7.02	7.06	6.69	6.44	6.21	5.93	5.21	5.98	6.12	6.80	7.26
13	7.67	7.02	7.05	6.67	6.43	6.20	5.91	5.16	5.97	6.09	6.82	7.31
14	7.62	7.02	7.03	6.66	6.41	6.19	5.89	5.11	5.95	6.08	6.84	7.38
15	7.59	7.01	7.02	6.65	6.41	6.18	5.86	5.07	5.94	6.15	6.87	7.39
16	7.55	7.01	7.01	6.65	6.40	6.16	5.83	5.03	5.94	6.20	6.89	7.34
17	7.52	7.01	7.00	6.64	6.39	6.15	5.79	4.98	5.96	6.19	6.92	7.31
18	7.48	7.00	6.98	6.63	6.37	6.18	5.75	4.93	5.94	6.21	6.93	7.29
19	7.45	7.00	6.96	6.63	6.37	6.22	5.71	4.88	5.93	6.29	6.95	7.28
20	7.42	7.00	6.94	6.65	6.36	6.28	5.67	4.87	5.92	6.35	6.99	7.25
21	7.40	6.98	6.93	6.65	6.35	6.27	5.63	4.81	5.90	6.37	7.03	7.22
22	7.37	6.98	6.91	6.64	6.34	6.24	5.60	4.76	5.92	6.42	7.03	7.19
23	7.34	6.97	6.90	6.64	6.32	6.23	5.56	4.98	5.96	6.44	7.04	7.16
24	7.32	6.96	6.89	6.62	6.31	6.20	5.52	5.21	5.94	6.44	7.06	7.14
25	7.30	6.96	6.88	6.61	6.30	6.19	5.52	5.22	5.94	6.43	7.07	7.11
26	7.28	6.96	6.87	6.60	6.29	6.17	5.64	5.27	5.99	6.41	7.08	7.09
27	7.25	6.96	6.85	6.59	6.28	6.16	5.57	5.28	5.97	6.40	7.08	7.12
28	7.24	6.95	6.84	6.58	6.27	6.14	5.50	5.40	6.04	6.38	7.09	7.20
29	7.22	6.94	6.84	6.57	---	6.14	5.45	5.41	6.07	6.37	7.11	7.50
30	7.20	6.94	6.82	6.56	---	6.16	5.45	5.35	6.05	6.35	7.12	7.53
31	7.18	---	6.82	6.56	---	6.15	---	5.28	---	6.33	7.12	---
TOTAL	233.10	210.61	214.69	206.74	179.51	192.63	174.31	162.69	179.38	192.00	213.16	217.30
MEAN	7.52	7.02	6.93	6.67	6.41	6.21	5.81	5.25	5.98	6.19	6.88	7.24
MAX	7.98	7.16	7.06	6.80	6.54	6.32	6.15	5.77	6.17	6.44	7.12	7.53
MIN	7.18	6.94	6.82	6.56	6.27	6.14	5.45	4.76	5.55	5.96	6.38	7.09

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 present 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 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, 8.06 ft Sept. 29; minimum, 4.92 ft May 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.13	7.65	7.11	6.78	6.51	6.20	6.19	5.45	5.70	6.22	6.56	7.17
2	7.14	7.64	7.09	6.77	6.51	6.19	6.16	5.46	6.18	6.19	6.76	7.19
3	7.41	7.64	7.06	6.76	6.49	6.18	6.12	5.47	6.15	6.16	6.87	7.19
4	7.77	7.64	7.04	6.76	6.49	6.19	6.09	5.71	6.13	6.15	6.87	7.20
5	7.75	7.64	7.02	6.75	6.47	6.31	6.07	5.70	6.12	6.17	6.88	7.20
6	7.73	7.64	7.00	6.74	6.46	6.28	6.05	5.64	6.11	6.16	6.92	7.23
7	7.72	7.64	7.00	6.74	6.46	6.25	6.03	5.58	6.08	6.22	6.92	7.29
8	7.70	7.63	6.98	6.73	6.45	6.23	6.01	5.52	6.08	6.24	6.92	7.32
9	7.67	7.61	6.97	6.72	6.44	6.20	5.98	5.47	6.07	6.28	6.92	7.33
10	7.65	7.60	7.04	6.71	6.44	6.19	5.95	5.42	6.07	6.33	6.94	7.36
11	7.63	7.58	7.14	6.71	6.43	6.18	5.93	5.38	6.03	6.34	6.99	7.40
12	7.61	7.55	7.12	6.70	6.43	6.17	5.91	5.33	6.00	6.38	7.04	7.49
13	7.61	7.49	7.09	6.69	6.41	6.16	5.88	5.29	5.98	6.35	7.05	7.51
14	7.61	7.46	7.07	6.68	6.39	6.14	5.86	5.25	6.04	6.34	7.06	7.61
15	7.61	7.43	7.04	6.67	6.37	6.12	5.83	5.21	6.10	6.44	7.06	7.65
16	7.62	7.41	7.02	6.66	6.36	6.11	5.80	5.18	6.13	6.49	7.10	7.62
17	7.62	7.39	7.00	6.65	6.34	6.09	5.77	5.13	6.15	6.46	7.11	7.60
18	7.62	7.37	6.97	6.64	6.32	6.15	5.72	5.09	6.16	6.47	7.11	7.60
19	7.63	7.36	6.95	6.64	6.31	6.23	5.68	5.05	6.16	6.50	7.12	7.61
20	7.64	7.34	6.93	6.66	6.29	6.33	5.64	5.01	6.15	6.54	7.15	7.61
21	7.64	7.32	6.91	6.65	6.28	6.30	5.61	4.98	6.17	6.56	7.18	7.59
22	7.64	7.29	6.90	6.64	6.27	6.27	5.59	4.94	6.21	6.67	7.18	7.58
23	7.64	7.26	6.88	6.63	6.26	6.24	5.56	5.12	6.22	6.67	7.18	7.56
24	7.64	7.24	6.87	6.62	6.25	6.22	5.53	5.40	6.21	6.67	7.19	7.56
25	7.64	7.23	6.85	6.60	6.24	6.20	5.52	5.41	6.21	6.61	7.19	7.56
26	7.65	7.22	6.84	6.58	6.23	6.18	5.55	5.41	6.23	6.57	7.18	7.57
27	7.65	7.20	6.83	6.56	6.22	6.16	5.50	5.40	6.21	6.53	7.18	7.59
28	7.65	7.18	6.82	6.55	6.21	6.14	5.46	5.52	6.27	6.50	7.18	7.66
29	7.65	7.16	6.82	6.54	---	6.16	5.44	5.56	6.27	6.47	7.18	7.99
30	7.65	7.13	6.80	6.53	---	6.21	5.46	5.53	6.24	6.44	7.17	8.03
31	7.65	---	6.79	6.52	---	6.19	---	5.48	---	6.43	7.17	---
TOTAL	235.97	222.94	215.95	206.58	178.33	192.17	173.89	166.09	183.83	198.55	218.33	224.87
MEAN	7.61	7.43	6.97	6.66	6.37	6.20	5.80	5.36	6.13	6.40	7.04	7.50
MAX	7.77	7.65	7.14	6.78	6.51	6.33	6.19	5.71	6.27	6.67	7.19	8.03
MIN	7.13	7.13	6.79	6.52	6.21	6.09	5.44	4.94	5.70	6.15	6.56	7.17

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 ¼ 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 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, 7.86 ft Oct. 3-5; minimum, 5.33 ft May 21-23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.21	7.30	6.97	6.81	6.56	6.20	6.20	5.50	5.94	6.01	6.54	7.13
2	7.22	7.30	6.95	6.80	6.55	6.18	6.15	5.50	6.56	5.96	6.79	7.16
3	7.42	7.29	6.94	6.79	6.54	6.16	6.09	5.53	6.37	5.92	6.82	7.16
4	7.86	7.28	6.93	6.78	6.53	6.18	6.06	5.78	6.27	5.93	6.79	7.19
5	7.86	7.27	6.92	6.77	6.52	6.50	6.03	5.70	6.20	5.95	6.79	7.20
6	7.82	7.27	6.91	6.77	6.51	6.41	6.00	5.61	6.16	5.96	6.81	7.24
7	7.79	7.26	6.90	6.76	6.49	6.32	5.99	5.52	6.12	6.19	6.79	e7.27
8	7.77	7.26	6.90	6.74	6.48	6.26	5.96	5.47	6.09	6.32	6.79	e7.26
9	7.75	7.24	6.89	6.73	6.47	6.23	5.93	5.45	6.07	6.29	6.78	e7.26
10	7.71	7.23	6.95	6.71	6.47	6.21	5.90	5.43	6.03	6.35	6.78	e7.28
11	7.67	7.22	7.09	6.71	6.46	6.20	5.87	5.42	5.98	6.32	6.81	7.31
12	7.64	7.19	7.08	6.70	6.44	6.17	5.85	5.40	5.93	6.37	6.83	7.34
13	7.62	7.17	7.06	6.70	6.43	6.14	5.82	5.39	5.90	6.28	6.85	7.36
14	7.59	7.16	7.05	6.69	6.41	6.12	5.81	5.38	5.89	6.24	6.87	7.44
15	7.57	7.14	7.03	6.69	6.40	6.11	5.78	5.38	5.88	6.47	6.89	7.46
16	7.55	7.13	7.01	6.68	6.38	6.09	5.74	5.37	5.87	6.50	6.92	7.41
17	7.52	7.11	7.00	6.67	6.37	6.07	5.71	5.36	5.88	6.42	6.94	7.38
18	7.50	7.10	6.99	6.67	6.35	6.24	5.67	5.35	5.87	6.42	6.96	7.37
19	7.48	7.09	6.97	6.66	6.33	6.42	5.64	5.35	5.85	6.52	6.97	7.36
20	7.46	7.09	6.95	6.72	6.32	6.61	5.61	5.34	5.92	6.62	7.02	7.34
21	7.45	7.07	6.93	6.74	6.31	6.47	5.59	5.34	5.96	6.59	7.09	7.31
22	7.43	7.05	6.92	6.71	6.30	6.37	5.57	5.33	6.01	6.64	7.08	7.29
23	7.42	7.04	6.91	6.69	6.28	6.31	5.55	5.43	6.09	6.61	7.08	7.27
24	7.40	7.03	6.90	6.67	6.27	6.28	5.53	5.66	6.01	6.60	7.08	7.25
25	7.39	7.03	6.89	6.64	6.26	6.24	5.54	5.60	5.93	6.55	7.09	7.23
26	7.38	7.03	6.88	6.63	6.24	6.20	5.60	5.58	5.91	6.51	7.09	7.21
27	7.38	7.01	6.87	6.61	6.23	6.17	5.53	5.54	5.97	6.48	7.10	7.21
28	7.36	7.00	6.86	6.60	6.22	6.15	5.49	5.63	6.20	6.45	7.11	7.29
29	7.33	6.99	6.86	6.59	---	6.17	5.48	5.64	6.16	6.42	7.12	7.57
30	7.32	6.98	6.84	6.58	---	6.20	5.51	5.55	6.07	6.39	7.13	7.59
31	7.31	---	6.83	6.57	---	6.16	---	5.47	---	6.36	7.12	---
TOTAL	233.18	214.33	215.18	207.58	179.12	193.54	173.20	170.00	181.09	196.64	214.83	219.14
MEAN	7.52	7.14	6.94	6.70	6.40	6.24	5.77	5.48	6.04	6.34	6.93	7.30
MAX	7.86	7.30	7.09	6.81	6.56	6.61	6.20	5.78	6.56	6.64	7.13	7.59
MIN	7.21	6.98	6.83	6.57	6.22	6.07	5.48	5.33	5.85	5.92	6.54	7.13

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

253828080391100 NORTHEAST SHARK RIVER SLOUGH NO. 4, NORTH OF GROSSMAN, FL

LOCATION.--Lat 25°38'24", long 80°39'10", in NW ¼ 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 datum is approximately 5.50 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, 7.87 ft Oct. 4; minimum, indeterminate, well was dry Apr. 22 - May 3, May 9-23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.94	7.01	6.74	6.60	6.32	6.00	5.74	---	5.13	5.81	6.36	6.89
2	6.96	7.00	6.73	6.59	6.31	5.97	5.71	---	5.68	5.80	6.56	6.91
3	7.31	6.98	6.71	6.58	6.30	5.95	5.69	---	5.72	5.78	e6.63	6.93
4	7.84	6.97	6.70	6.57	6.29	5.95	5.66	4.94	5.75	5.76	e6.62	6.97
5	7.77	6.96	6.70	6.56	6.28	6.04	5.64	4.86	5.78	5.74	e6.63	6.98
6	7.71	6.95	6.70	6.55	6.26	6.01	5.61	4.79	5.81	5.72	e6.65	7.00
7	7.67	6.94	6.70	6.53	6.25	5.98	5.59	4.72	5.81	5.74	e6.63	7.02
8	7.64	6.93	6.69	6.52	6.24	5.96	5.56	4.65	5.83	5.76	e6.61	7.03
9	7.60	6.92	6.69	6.51	6.23	5.94	5.52	---	5.89	5.77	e6.60	7.06
10	7.55	6.91	6.77	6.50	6.22	5.92	5.48	---	5.90	5.79	e6.59	7.11
11	7.51	6.90	6.88	6.50	6.21	5.90	5.43	---	5.88	5.82	e6.62	7.15
12	7.47	6.89	6.86	6.49	6.19	5.89	5.38	---	5.86	5.87	e6.67	7.19
13	7.44	6.88	6.85	6.48	6.18	5.87	5.32	---	5.84	5.85	e6.65	7.20
14	7.40	6.87	6.83	6.47	6.17	5.85	5.25	---	5.83	5.86	e6.65	7.28
15	7.37	6.86	6.82	6.46	6.16	5.83	5.18	---	5.81	5.97	e6.66	7.29
16	7.34	6.85	6.81	6.45	6.14	5.81	5.10	---	5.79	6.03	e6.68	7.24
17	7.30	6.85	6.80	6.44	6.13	5.79	5.03	---	5.78	6.07	e6.69	7.22
18	7.27	6.84	6.78	6.43	6.11	5.80	4.93	---	5.78	6.14	e6.69	7.21
19	7.25	6.83	6.76	6.42	6.10	5.82	4.83	---	5.78	6.16	e6.69	7.20
20	7.23	6.82	6.74	6.45	6.09	5.87	4.75	---	5.76	6.17	e6.71	7.17
21	7.21	6.81	6.73	6.44	6.07	5.84	4.67	---	5.74	6.22	e6.74	7.14
22	7.18	6.80	6.72	6.43	6.06	5.81	---	---	5.75	6.30	e6.77	7.12
23	7.16	6.79	6.71	6.42	6.04	5.79	---	---	5.78	6.32	e6.79	7.09
24	7.14	6.78	6.70	6.41	6.02	5.76	---	4.68	5.77	6.33	e6.81	7.06
25	7.12	6.78	6.69	6.39	6.01	5.74	---	4.64	5.75	6.33	e6.83	7.04
26	7.11	6.78	6.68	6.38	5.99	5.71	---	4.62	5.75	6.32	e6.84	7.04
27	7.09	6.77	6.67	6.37	5.98	5.69	---	4.63	5.75	6.31	e6.86	7.09
28	7.07	6.76	6.66	6.36	5.98	5.66	---	4.85	5.80	6.29	e6.87	7.18
29	7.06	6.75	6.65	6.35	---	5.67	---	4.96	5.84	6.28	e6.87	7.46
30	7.04	6.74	6.63	6.34	---	5.79	---	4.93	5.83	6.27	6.88	7.48
31	7.02	---	6.62	6.33	---	5.76	---	4.87	---	6.25	6.89	---
TOTAL	226.77	205.92	208.72	200.32	172.33	181.37	112.07	62.14	173.17	186.83	207.74	213.75
MEAN	7.32	6.86	6.73	6.46	6.15	5.85	5.34	4.78	5.77	6.03	6.70	7.12
MAX	7.84	7.01	6.88	6.60	6.32	6.04	5.74	4.96	5.90	6.33	6.89	7.48
MIN	6.94	6.74	6.62	6.33	5.98	5.66	4.67	4.62	5.13	5.72	6.36	6.89

e Estimated

253753080393600 NORTHEAST SHARK RIVER SLOUGH NO. 5, SOUTH OF GROSSMAN, FL

LOCATION.--Lat 25°37'55", long 80°39'42", in NW ¼ 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.

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.

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, 7.77 ft Oct. 4; minimum, indeterminate, well was dry Apr. 20 to June 1.

REVISIONS.-- Levels were run during the 2000 water year. A -0.07 ft correction was prorated from a zero correction in 1995 to a -0.07 ft correction in the 2000 water year. Data were revised for water years 1997-2000 and are available in the files of the U.S. Geological Survey.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.83	6.95	6.66	6.52	6.23	5.92	5.86	---	---	5.80	6.31	6.81
2	6.84	6.94	6.65	6.51	6.22	5.90	5.83	---	5.64	5.78	6.51	6.82
3	7.20	6.92	6.64	6.49	6.21	5.88	5.79	---	5.62	5.75	6.59	6.84
4	7.74	6.91	6.63	6.49	6.20	5.89	5.75	---	5.62	5.74	6.60	6.88
5	7.66	6.90	6.62	6.47	6.19	6.01	5.72	---	5.65	5.72	6.59	6.89
6	7.61	6.90	6.61	6.46	6.18	5.98	5.69	---	5.72	5.70	6.62	6.92
7	7.57	6.89	6.60	6.45	6.17	5.96	5.66	---	5.73	5.74	6.60	6.94
8	7.53	6.88	6.59	6.44	6.16	5.93	5.64	---	5.73	5.82	6.59	6.95
9	7.48	6.87	6.59	6.43	6.15	5.91	5.60	---	5.77	5.82	6.57	6.98
10	7.44	6.86	6.69	6.41	6.14	5.90	5.57	---	5.82	5.83	6.55	7.04
11	7.40	6.85	6.82	6.41	6.13	5.88	5.54	---	5.82	5.84	6.59	7.09
12	7.37	6.84	6.79	6.39	6.12	5.86	5.51	---	5.80	5.87	6.63	7.15
13	7.34	6.83	6.77	6.38	6.11	5.84	5.47	---	5.79	5.85	6.61	7.14
14	7.30	6.82	6.75	6.37	6.10	5.83	5.43	---	5.78	5.85	6.61	7.22
15	7.27	6.81	6.74	6.37	6.09	5.80	5.38	---	5.76	5.95	6.63	7.23
16	7.24	6.79	6.72	6.36	6.07	5.79	5.32	---	5.75	5.98	6.63	7.18
17	7.21	6.79	6.71	6.35	6.06	5.77	5.26	---	5.74	6.00	6.65	7.16
18	7.18	6.78	6.69	6.34	6.05	5.80	5.18	---	5.73	6.08	6.65	7.16
19	7.16	6.77	6.67	6.33	6.03	5.83	5.11	---	5.72	6.10	6.65	7.14
20	7.14	6.76	6.66	6.36	6.02	5.90	---	---	5.71	6.11	6.66	7.12
21	7.12	6.75	6.64	6.35	6.01	5.87	---	---	5.69	6.17	6.69	7.09
22	7.10	6.73	6.63	6.34	5.99	5.84	---	---	5.71	6.25	6.72	7.06
23	7.08	6.73	6.62	6.33	5.98	5.81	---	---	5.75	6.27	6.75	7.04
24	7.06	6.72	6.61	6.32	5.97	5.78	---	---	5.75	6.28	6.75	7.01
25	7.05	6.71	6.60	6.31	5.95	5.76	---	---	5.73	6.27	6.76	6.99
26	7.03	6.71	6.59	6.29	5.94	5.73	---	---	5.72	6.27	6.77	7.00
27	7.02	6.70	6.57	6.28	5.93	5.71	---	---	5.71	6.25	6.78	7.05
28	7.00	6.69	6.56	6.27	5.92	5.69	---	---	5.80	6.24	6.79	7.14
29	6.99	6.68	6.56	6.26	---	5.72	---	---	5.85	6.23	6.79	7.41
30	6.97	6.67	6.55	6.25	---	5.91	---	---	5.83	6.22	6.80	7.44
31	6.96	---	6.53	6.24	---	5.88	---	---	---	6.20	6.80	---
TOTAL	223.89	204.15	206.06	197.57	170.32	181.28	105.31	---	166.44	185.98	206.24	211.89
MEAN	7.22	6.80	6.65	6.37	6.08	5.85	5.54	---	5.74	6.00	6.65	7.06
MAX	7.74	6.95	6.82	6.52	6.23	6.01	5.86	---	5.85	6.28	6.80	7.44
MIN	6.83	6.67	6.53	6.24	5.92	5.69	5.11	---	5.62	5.70	6.31	6.81

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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

LOCATION.--Lat 25°32'34", long 80°19'52", in NE ¼ sec.21, T.56 S., R.40 E., Dade County, Hydrologic Unit 03090202, in control house of salinity-control structure S-21, 0.5 mi upstream from mouth, and 3.5 mi east of Goulds.

DRAINAGE AREA.--Indeterminate.

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

REVISED RECORDS.--WDR FL-89-2A:1988.

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by the operation of salinity-control structure S-21 and by some upstream pumpage for irrigation. Discharge computed from relation between head, discharges and gate-openings at structure S-21. Records of gage heights prior to October 1962, are available in files of the U.S. Geological Survey. Discharge occurring under submerged weir flow conditions is not computed and included as part of the total discharge after September 30, 1999.

COOPERATION.--Supplementary gate-opening record and gage-height record provided by the South Florida Water Management District. ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 21 complete water years of discharge (1971-77, 1979-90, 1995, 1998).

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

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.32 ft Jan. 31; minimum, -0.17 ft Sept. 14.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.23 ft Oct. 13; minimum, -1.03 ft Jan. 21.

REVISIONS.--The discharge for October 14-25, 1999 was revised because the rating used for the submerged weir conditions that existed during this period was determined to be inaccurate. The revised table supersedes the one published in the 2000 report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	769	1.2	1.6	114	.00	.00	1.4	106	218	230	236
2	946	780	96	125	.00	.00	.00	50	.80	298	496	253
3	850	864	.40	.00	.00	.00	.00	78	.80	255	792	236
4	889	755	43	.00	.00	122	.00	.80	.00	238	565	150
5	913	713	69	139	86	.00	.00	1.2	.00	161	384	150
6	779	652	.00	8.5	.90	.00	.00	98	.00	115	444	257
7	504	695	95	.00	.00	.00	.00	.00	96	126	876	345
8	201	658	.00	.00	141	.80	.00	.00	.00	174	958	304
9	306	701	86	102	126	.00	.00	.00	118	386	865	277
10	383	678	.00	.00	.00	125	.80	109	162	449	815	301
11	374	680	102	.00	97	7.0	.00	.00	268	475	406	287
12	383	638	.00	.00	.00	.00	.00	.00	146	324	247	319
13	626	629	99	.00	112	.00	.00	.00	101	351	195	326
14	---	744	.00	90	.60	.00	369	.00	48	283	53	194
15	---	221	115	.60	.00	.90	374	133	104	274	99	195
16	---	.00	.00	1.5	110	125	363	6.3	183	212	37	715
17	---	.00	120	.90	.00	127	275	.00	1.4	324	101	717
18	---	.00	.00	.00	.00	.00	266	.00	110	189	193	366
19	---	.00	129	.80	89	88	100	.00	129	202	118	166
20	---	.00	.00	115	.00	85	173	.00	25	255	131	152
21	---	2.3	100	.00	88	.00	186	.00	115	202	107	248
22	---	95	24	1.3	.00	129	101	.00	90	200	615	121
23	---	126	138	106	107	70	105	.00	43	299	835	189
24	---	76	22	59	.00	.00	68	.00	57	286	243	89
25	---	104	.80	78	118	.00	110	.00	65	290	.00	134
26	822	114	124	.00	.00	.00	114	.00	85	317	325	293
27	783	.00	.00	.90	104	120	.90	.00	85	310	234	216
28	772	126	.80	.90	.90	.00	112	.00	143	256	439	271
29	727	.70	134	103	109	.00	1.6	.80	113	267	487	320
30	741	129	.90	.00	---	.00	135	.85	35	271	331	384
31	854	---	1.6	.00	---	.00	---	200	---	209	386	---
TOTAL	12863	10950.00	1501.70	934.00	1403.40	999.70	2854.30	763.50	2430.00	8216	12007.00	8211
MEAN	677	365	48.4	30.1	48.4	32.2	95.1	24.6	81.0	265	387	274
MAX	1010	864	138	139	141	129	374	200	268	475	958	717
MIN	201	.00	.00	.00	.00	.00	.00	.00	.00	115	.00	89
AC-FT	25510	21720	2980	1850	2780	1980	5660	1510	4820	16300	23820	16290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	277	164	95.1	101	96.5	66.0	48.6	83.7	253	188	267	325
MAX	1059	682	643	1180	833	508	236	377	1151	479	717	791
(WY)	1995	1995	1995	1995	1995	1998	1982	1979	1983	1995	1995	1981
MIN	46.0	26.1	.000	.000	.000	.000	.000	.000	.000	.000	6.65	40.3
(WY)	1990	1985	1985	1971	1971	1971	1971	1971	1974	1981	1987	1989

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1970 - 2000
ANNUAL MEAN			164
HIGHEST ANNUAL MEAN			600
LOWEST ANNUAL MEAN			33.0
HIGHEST DAILY MEAN	1160	Sep 21	2340
LOWEST DAILY MEAN	-273	Sep 22	-384
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 19	-94
ANNUAL RUNOFF (AC-FT)			118600
10 PERCENT EXCEEDS	770	620	476
50 PERCENT EXCEEDS	152	104	85
90 PERCENT EXCEEDS	.00	.00	.00

REVISED

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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

UPSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.13	1.74	2.12	2.10	2.26	1.96	2.21	2.32	2.13	1.92	1.79	1.78
2	1.96	1.73	2.22	2.23	2.25	1.94	2.27	2.05	2.11	2.09	1.69	1.76
3	1.93	1.63	2.26	2.11	2.25	1.92	2.28	2.18	2.10	2.08	1.69	1.89
4	1.73	1.75	2.28	2.10	2.24	1.94	2.29	1.99	1.98	2.08	1.69	1.77
5	1.63	1.70	2.30	2.22	2.24	2.09	2.29	2.05	2.25	2.07	1.62	1.86
6	1.57	1.80	2.30	2.24	2.23	2.18	2.30	2.03	2.02	2.08	1.55	1.87
7	1.55	1.66	2.31	2.09	2.21	2.19	2.29	2.22	2.24	2.02	1.53	1.91
8	1.61	1.87	2.32	2.29	2.19	2.17	2.29	2.15	2.17	2.04	1.87	1.97
9	1.70	1.75	2.35	2.07	2.17	2.15	2.28	2.01	2.20	2.00	2.15	2.14
10	2.34	1.63	1.94	2.18	2.16	2.14	2.27	2.29	2.13	1.98	2.16	1.89
11	2.22	1.73	1.28	2.27	2.15	2.12	2.25	1.99	2.17	1.97	2.17	1.49
12	2.22	1.87	1.58	2.33	2.14	2.10	2.23	2.26	2.30	1.97	2.18	1.65
13	2.17	1.73	1.61	2.08	2.13	2.09	2.20	2.16	2.22	2.03	2.14	1.29
14	1.94	1.60	1.71	2.24	2.12	2.07	2.19	2.12	2.14	2.06	2.09	.75
15	1.76	1.76	1.72	2.30	2.10	2.05	2.17	2.28	2.28	1.88	2.11	1.38
16	1.71	1.79	1.73	2.33	2.09	2.03	2.15	2.32	2.32	1.81	2.13	2.00
17	1.71	1.67	1.69	2.35	2.09	2.02	2.13	2.33	2.33	1.98	2.09	2.11
18	1.73	1.88	1.94	2.10	2.08	2.03	2.10	2.33	2.33	1.85	2.11	2.05
19	1.78	1.60	1.89	2.19	2.07	2.07	2.06	2.32	2.33	1.85	2.16	2.35
20	1.73	1.87	1.78	2.17	2.05	2.10	2.02	2.30	2.32	1.86	2.08	1.94
21	1.73	1.56	2.12	2.11	2.04	2.09	1.99	2.29	2.31	1.95	2.06	2.04
22	1.75	1.81	2.09	2.25	2.04	2.07	1.96	2.27	2.15	1.89	2.04	2.01
23	1.81	1.93	2.14	2.29	2.03	2.05	1.94	2.17	1.98	2.01	2.07	1.99
24	1.84	2.01	2.10	2.30	2.02	2.03	1.92	1.99	2.00	2.13	1.97	2.03
25	1.79	2.09	2.07	2.30	2.00	2.01	1.99	2.02	2.11	2.10	1.87	1.92
26	1.78	2.16	2.11	2.30	1.99	1.99	2.19	2.10	2.08	2.03	1.83	1.72
27	1.81	2.25	2.05	2.30	1.99	1.99	2.17	1.97	1.85	1.89	1.83	1.61
28	1.87	2.29	2.23	2.29	1.97	1.98	2.03	1.90	1.43	1.78	1.85	1.60
29	1.87	2.33	2.04	2.28	---	1.97	2.26	1.89	1.92	1.71	1.98	1.62
30	1.70	2.07	1.98	2.28	---	2.05	2.29	2.03	1.97	1.72	2.01	1.65
31	1.81	---	2.20	2.28	---	2.06	---	2.10	---	1.74	1.94	---
TOTAL	56.88	55.26	62.46	68.97	59.30	63.65	65.01	66.43	63.87	60.57	60.45	54.04
MEAN	1.83	1.84	2.01	2.22	2.12	2.05	2.17	2.14	2.13	1.95	1.95	1.80
MAX	2.34	2.33	2.35	2.35	2.26	2.19	2.30	2.33	2.33	2.13	2.18	2.35
MIN	1.55	1.56	1.28	2.07	1.97	1.92	1.92	1.89	1.43	1.71	1.53	.75

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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

 DOWNSTREAM
 GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.54	1.30	.85	.48	.23	.46	.37	1.07	.70	.62	1.10	.90
2	1.72	1.42	.73	.62	.11	.45	.47	1.30	.70	.65	.96	.86
3	1.79	1.24	.74	.59	.17	.41	.62	1.24	.53	.66	.85	.98
4	1.60	1.26	.96	.55	.23	.25	.61	1.30	.47	.59	.88	.89
5	1.36	1.38	1.17	.66	.17	-.02	.69	1.27	.38	.62	.69	.78
6	1.24	1.49	1.44	.60	.35	.17	.74	1.32	.28	.69	.66	.69
7	1.29	1.27	1.41	.65	.46	.37	.62	1.39	.26	.67	.70	.79
8	1.44	1.47	1.30	.61	.49	.62	.49	1.42	.33	.61	.65	.94
9	1.58	1.45	1.18	.37	.55	.80	.44	1.31	.54	.60	.61	1.02
10	2.30	1.31	1.33	.43	.34	.90	.57	1.12	.50	.65	.64	.82
11	2.18	1.30	1.18	.54	.22	.86	.78	1.11	.44	.61	.73	.75
12	2.18	1.37	.93	.53	.50	.73	.65	.96	.38	.69	.83	.92
13	2.14	1.28	1.06	.74	.46	.50	.51	.90	.33	.53	.76	1.10
14	1.88	1.13	.86	.77	.33	.35	.42	.84	.46	.52	.70	.78
15	1.65	1.09	.91	.67	.40	.47	.49	.90	.46	.58	.76	.62
16	1.58	1.22	.92	.68	.44	.40	.57	.77	.49	.53	.86	1.05
17	1.61	1.06	.61	.65	.39	.37	.58	.74	.53	.52	.74	1.38
18	1.53	.97	.58	.64	.54	.53	.60	.75	.56	.53	.89	1.54
19	1.53	.95	.42	.65	1.12	.88	.79	.85	.59	.69	1.02	1.47
20	1.58	.83	.41	.22	.70	.48	.82	1.00	.50	.71	.88	1.32
21	1.60	.82	.56	.00	.56	.26	.82	1.18	.48	.82	.76	1.36
22	1.88	1.19	.53	-.04	.63	.35	.73	1.11	.48	.76	.78	1.26
23	1.99	1.30	.92	-.10	.65	.55	.83	.91	.69	.74	.75	1.25
24	2.04	1.33	1.14	.32	.89	.63	.56	1.02	.72	.82	.55	1.15
25	2.02	1.06	1.38	.36	.76	.50	.51	.83	.72	.67	.43	1.01
26	1.93	.81	1.35	.55	.59	.50	.51	.79	.79	.63	.45	.87
27	1.74	.69	.98	.61	.47	.49	.81	.76	.70	.44	.54	.99
28	1.57	.65	.78	.58	.54	.85	.83	.90	.71	.42	.60	1.14
29	1.61	.74	.65	.68	---	.84	.91	.92	.78	.39	.88	1.45
30	1.43	.81	.48	.43	---	.50	1.04	.69	.78	.53	.88	1.52
31	1.22	---	.43	.30	---	.25	---	.62	---	.70	.85	---
TOTAL	52.75	34.19	28.19	15.34	13.29	15.70	19.38	31.29	16.28	19.19	23.38	31.60
MEAN	1.70	1.14	.91	.49	.47	.51	.65	1.01	.54	.62	.75	1.05
MAX	2.30	1.49	1.44	.77	1.12	.90	1.04	1.42	.79	.82	1.10	1.54
MIN	1.22	.65	.41	-.10	.11	-.02	.37	.62	.26	.39	.43	.62

022907647 LEVEE 31 NORTH EXTENSION AT 1 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°44'53", long 80°29'53", in SE ¼ 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 velocity meter. 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 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 gage height values to NGVD, a 0.10 ft correction must be applied.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1997-2001).

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, 7.78 ft Oct. 4; minimum, 3.49 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.84	5.83	5.78	5.58	4.68	e4.21	4.79	3.80	4.41	5.15	5.46	5.84
2	5.87	5.80	5.76	5.59	4.62	e4.18	4.82	3.91	4.66	5.09	5.81	5.86
3	6.48	5.78	5.74	5.65	4.60	e4.16	4.73	4.04	4.60	5.03	6.00	5.89
4	7.74	5.77	5.72	5.66	4.59	e4.15	4.66	4.67	4.54	4.96	5.95	5.86
5	7.60	5.79	5.70	5.60	4.73	e4.45	4.62	4.77	4.51	4.90	6.01	5.85
6	7.49	5.78	5.68	5.56	4.79	e4.52	4.59	4.73	4.52	4.83	6.20	5.85
7	7.48	5.77	5.66	5.53	4.75	e4.50	4.60	4.66	4.47	4.81	6.00	5.83
8	7.35	5.78	5.74	5.46	4.70	e4.49	4.55	4.59	4.42	4.81	5.90	5.89
9	7.10	5.76	5.84	5.44	4.63	e4.45	4.48	4.54	4.42	4.82	5.88	5.86
10	6.89	5.74	6.05	5.41	4.49	e4.40	4.35	4.47	4.53	4.94	5.88	5.86
11	6.45	5.73	6.13	5.38	4.44	e4.39	4.29	4.42	4.47	5.17	5.85	5.77
12	6.09	5.71	6.06	5.35	4.47	e4.31	4.23	4.36	4.39	5.34	5.82	5.76
13	5.90	5.71	5.99	5.32	4.47	e4.24	4.18	4.30	4.32	5.25	5.82	6.16
14	5.85	5.74	e5.95	5.30	4.44	e4.21	4.13	4.25	4.27	5.21	5.85	6.34
15	5.81	5.84	5.91	5.27	4.40	e4.20	4.11	4.18	4.24	5.40	5.90	6.34
16	5.78	5.98	5.88	5.24	4.28	e4.16	4.12	4.13	4.30	5.46	5.90	6.29
17	5.79	6.00	e5.87	5.22	4.23	e4.12	4.06	4.07	4.50	5.42	5.86	6.18
18	5.85	6.00	e5.84	5.16	4.19	e4.29	3.97	4.01	4.45	5.62	5.85	6.18
19	5.84	5.99	5.80	5.07	e4.24	e4.57	3.93	3.96	4.39	5.66	5.87	6.20
20	5.81	6.00	5.75	5.10	e4.23	4.61	3.90	3.91	4.34	5.69	5.87	6.14
21	5.78	5.87	5.73	5.08	e4.20	4.59	3.83	3.86	4.31	5.82	5.92	6.08
22	5.78	5.71	5.92	5.04	e4.20	4.52	3.84	3.72	4.44	5.90	5.95	6.03
23	5.87	5.68	6.10	5.02	e4.34	4.45	3.82	3.85	4.73	5.79	5.94	5.98
24	5.89	5.65	6.14	4.98	e4.32	4.34	3.72	4.55	4.73	5.79	5.90	5.94
25	5.86	5.64	6.14	4.95	e4.31	4.31	3.68	4.58	4.68	e5.76	5.88	5.91
26	5.82	5.64	6.13	4.90	e4.29	4.29	3.68	4.60	4.74	5.75	5.88	5.97
27	5.80	5.66	5.98	4.87	e4.26	4.18	3.71	4.81	4.78	5.68	5.86	6.04
28	5.81	5.68	5.74	4.84	e4.24	4.14	3.74	4.87	5.09	5.60	5.86	6.01
29	5.81	5.72	5.71	4.86	---	4.12	3.73	4.73	5.22	5.50	5.88	6.71
30	5.83	5.78	5.68	4.84	---	4.54	3.75	4.49	5.17	5.63	5.87	e6.79
31	5.82	---	5.63	4.67	---	4.65	---	4.41	---	5.63	5.83	---
TOTAL	193.08	173.53	181.75	161.94	124.13	134.74	124.61	134.24	136.64	166.41	182.45	181.41
MEAN	6.23	5.78	5.86	5.22	4.43	4.35	4.15	4.33	4.55	5.37	5.89	6.05
MAX	7.74	6.00	6.14	5.66	4.79	4.65	4.82	4.87	5.22	5.90	6.20	6.79
MIN	5.78	5.64	5.63	4.67	4.19	4.12	3.68	3.72	4.24	4.81	5.46	5.76

e Estimated

022907647 LEVEE 31 NORTH EXTENSION AT 1 MILE NEAR WEST MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	337	383	231	219	417	e308	249	199	e22	17	285	210
2	341	383	237	204	425	e279	220	203	e12	46	336	254
3	e95	400	239	190	426	e268	199	201	14	28	268	326
4	e-112	402	229	179	423	e268	202	233	e-.02	37	192	244
5	e-36	422	226	229	398	e253	199	198	e-5.0	e18	120	311
6	39	431	224	244	359	e217	206	186	e-11	30	e202	319
7	e27	445	220	232	362	e211	211	185	e-8.3	47	223	288
8	33	440	171	257	377	e218	200	159	e9.5	e-.51	249	296
9	195	442	142	249	391	e182	230	155	16	20	e200	269
10	238	449	125	246	439	e238	229	154	e-7.2	e-7.0	224	242
11	379	434	242	237	435	e203	e228	149	e-14	e-6.1	e252	304
12	410	430	259	241	404	e221	234	156	e-18	e6.6	e228	292
13	455	426	299	251	395	e225	231	166	8.0	e9.9	242	232
14	496	410	e309	242	390	e232	247	180	e22	e16	e313	183
15	e543	327	297	232	390	e222	228	114	e-2.9	e-9.3	e269	231
16	e592	270	311	241	430	e217	231	72	72	e14	261	281
17	e663	282	e306	240	424	e236	234	99	e-23	55	e219	e300
18	e617	267	e288	254	420	e263	240	80	e-5.9	37	e229	296
19	598	255	301	261	e381	e297	225	61	e13	8.4	297	295
20	603	255	292	281	e383	297	228	60	e-13	e6.5	e334	325
21	590	318	285	275	e375	244	244	59	30	e16	258	321
22	598	366	148	e252	e332	257	212	e11	27	e65	284	e280
23	427	343	80	e262	e314	256	225	143	30	210	e260	307
24	286	338	81	265	e301	279	232	212	e48	286	275	296
25	330	337	91	259	e291	244	218	154	41	e292	273	300
26	330	342	104	265	e302	275	265	150	e20	299	288	284
27	339	306	218	260	e299	282	228	135	e-6.8	283	301	261
28	347	285	268	264	e296	272	195	126	e-55	e255	292	288
29	353	266	265	281	---	231	186	e6.1	e18	308	e281	198
30	373	252	251	373	---	238	188	e-38	e8.9	e88	274	e271
31	379	---	222	433	---	201	---	e-6.3	---	119	234	---
TOTAL	10865	10706	6961	7918	10579	7634	6664	3961.8	241.28	2594.49	7963	8304
MEAN	350	357	225	255	378	246	222	128	8.04	83.7	257	277
MAX	663	449	311	433	439	308	265	233	72	308	336	326
MIN	-112	252	80	179	291	182	186	-38	-55	-9.3	120	183
AC-FT	21550	21240	13810	15710	20980	15140	13220	7860	479	5150	15790	16470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001
MEAN	279	333	318	389
MAX	350	503	597	852
(WY)	2001	2000	2000	2000
MIN	183	184	186	194
(WY)	1998	1998	1998	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	146496	84391.57	
ANNUAL MEAN	400	231	330
HIGHEST ANNUAL MEAN			439
LOWEST ANNUAL MEAN			231
HIGHEST DAILY MEAN	1090	Jan 16	1090
LOWEST DAILY MEAN	-112	Oct 4	-112
ANNUAL SEVEN-DAY MINIMUM	34	Oct 3	-4.7
ANNUAL RUNOFF (AC-FT)	290600	167400	239200
10 PERCENT EXCEEDS	785	396	634
50 PERCENT EXCEEDS	368	244	268
90 PERCENT EXCEEDS	149	16	135

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.

02290765 LEVEE 31 NORTH EXTENSION AT 3 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°43'02", long 80°29'50", in SE ¼ 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 velocity meter. Datum of gage is 0.10 ft below National Geodetic Vertical Datum of 1929 (FCE bench mark). (Corrected).

REMARKS.--Records poor. 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. To convert stage values to NGVD, a +0.10 ft correction must be applied. 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 9 complete water years of discharge (1993-2001).

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, 7.78 ft Oct. 4; minimum, 3.48 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.81	5.81	5.75	5.54	4.63	4.18	4.77	3.78	4.41	5.16	5.46	5.85
2	5.84	5.78	5.73	5.55	4.56	4.15	4.81	3.89	4.66	5.10	5.80	5.86
3	6.47	5.76	5.71	5.61	4.54	4.13	4.76	4.02	4.60	5.03	5.99	5.90
4	7.73	5.75	e5.69	5.62	4.53	4.12	4.67	4.65	4.54	4.97	5.94	5.87
5	7.58	5.77	5.67	5.56	4.68	4.42	4.59	4.76	4.51	4.91	5.99	5.85
6	7.47	5.75	5.64	5.51	4.73	4.49	4.57	4.72	4.52	4.84	6.20	5.85
7	7.47	5.74	5.62	5.49	4.71	4.47	4.58	4.66	4.47	4.83	5.99	5.84
8	7.35	5.75	5.71	5.41	4.64	4.46	4.53	4.59	4.42	4.82	5.90	5.89
9	7.11	5.73	5.81	5.40	4.57	4.42	4.46	4.53	4.42	4.82	5.88	5.87
10	6.89	5.71	6.02	5.37	4.43	4.37	4.33	4.47	4.53	4.94	5.88	5.86
11	6.43	5.70	6.09	5.34	4.38	4.36	4.26	4.41	4.46	5.18	5.85	5.78
12	6.08	5.68	6.02	5.31	4.42	4.28	4.21	4.36	4.39	5.34	5.82	5.77
13	5.88	5.68	5.95	5.28	4.42	4.21	4.16	4.30	4.31	5.26	5.82	6.17
14	5.83	5.71	e5.91	5.25	4.38	4.18	4.11	4.24	4.27	5.21	5.85	6.33
15	5.78	5.82	5.88	5.23	4.34	4.17	4.09	4.18	4.23	5.41	5.90	6.34
16	5.76	5.96	5.84	5.20	4.21	4.13	4.10	4.12	4.29	5.47	5.89	6.30
17	5.77	5.97	5.83	5.17	4.17	4.09	4.04	4.06	4.51	5.44	5.85	6.18
18	5.82	5.98	5.80	5.11	4.12	4.26	3.95	4.00	4.45	5.63	5.85	6.19
19	5.80	5.97	5.76	5.02	4.18	4.54	3.91	3.94	4.39	5.67	5.87	6.20
20	5.78	5.99	5.71	5.06	4.17	4.59	3.87	3.89	4.34	5.70	5.86	6.15
21	5.74	5.86	5.68	5.03	4.15	4.57	3.80	3.85	4.31	5.84	5.92	6.09
22	5.74	5.69	5.89	5.00	4.17	4.50	3.82	3.71	4.44	5.90	5.95	6.04
23	5.84	5.66	6.07	4.97	4.31	4.43	3.80	3.84	4.72	5.80	5.94	5.99
24	5.87	5.62	6.11	4.94	4.29	4.31	3.70	4.54	4.73	5.80	5.91	5.94
25	5.84	5.61	6.11	4.91	4.28	4.29	3.66	4.58	4.68	5.76	5.88	5.92
26	5.80	5.61	6.09	4.86	4.26	4.27	3.66	4.59	4.74	5.74	5.88	5.98
27	5.78	5.64	5.93	4.83	4.23	4.16	3.69	4.80	4.77	5.67	5.87	6.05
28	5.79	5.66	5.69	4.80	4.21	4.12	3.72	4.86	5.09	5.60	5.87	6.01
29	5.78	5.68	5.67	4.81	---	4.08	3.71	4.73	5.23	5.50	5.88	6.72
30	5.80	5.75	5.64	4.78	---	4.51	3.74	4.49	5.18	5.62	5.88	6.80
31	5.80	---	5.59	4.62	---	4.63	---	4.41	---	5.62	5.84	---
TOTAL	192.43	172.79	180.61	160.58	122.71	133.89	124.07	133.97	136.61	166.58	182.41	181.59
MEAN	6.21	5.76	5.83	5.18	4.38	4.32	4.14	4.32	4.55	5.37	5.88	6.05
MAX	7.73	5.99	6.11	5.62	4.73	4.63	4.81	4.86	5.23	5.90	6.20	6.80
MIN	5.74	5.61	5.59	4.62	4.12	4.08	3.66	3.71	4.23	4.82	5.46	5.77

e Estimated

02290765 LEVEE 31 NORTH EXTENSION AT 3 MILE NEAR WEST MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	427	458	e236	236	457	308	236	162	e-8.3	e-35	e344	326
2	441	452	234	200	474	263	e166	175	e-44	73	e357	e396
3	e89	452	245	171	472	238	e166	188	e-30	45	e280	421
4	e-218	470	e248	146	473	243	e192	221	e-44	e17	225	433
5	e-65	516	227	225	444	219	189	151	e-55	e-42	173	476
6	76	524	242	240	379	178	207	109	e-60	e-4.7	301	507
7	75	532	237	261	377	174	215	116	e-54	e36	298	494
8	127	540	163	257	386	175	230	97	e-19	e-68	290	462
9	279	541	137	246	415	124	e232	97	e14	e-24	e230	422
10	313	547	96	248	482	184	e181	84	e-76	e-109	284	383
11	522	549	278	242	481	171	e230	97	e-79	e-94	296	423
12	565	534	306	256	426	185	236	102	e-67	e-84	230	422
13	618	526	347	251	413	194	235	115	21	e-17	303	364
14	669	497	e377	246	405	197	216	112	e-21	e-27	e300	246
15	723	382	352	254	415	181	214	53	e-56	e-103	344	302
16	790	287	359	260	451	180	205	59	66	e-48	351	363
17	841	290	367	258	463	207	228	73	e-76	e37	315	434
18	818	278	365	262	435	253	229	e13	e-31	e6.3	289	461
19	773	291	346	273	374	280	175	e32	e9.9	e3.4	333	481
20	756	279	345	288	384	283	203	e31	e-30	e-70	421	476
21	745	368	312	273	390	212	210	e34	e5.5	e-32	400	445
22	754	433	111	244	332	227	200	e-32	e-29	e40	389	449
23	532	418	10	254	294	242	200	114	e-6.0	174	358	472
24	352	397	9.8	265	266	259	235	153	e.60	260	377	485
25	395	397	26	262	269	218	228	e97	e33	315	375	447
26	410	405	41	278	301	245	267	e74	e3.9	313	398	409
27	420	346	211	285	303	292	195	e41	e-60	307	389	423
28	407	331	277	277	282	227	156	e57	e-148	298	404	381
29	423	296	263	275	---	217	152	e-68	e-16	321	425	172
30	437	e271	240	402	---	217	157	e-94	e-65	e125	382	259
31	444	---	226	488	---	188	---	e-61	---	151	350	---
TOTAL	13938	12607	7233.8	8123	11043	6781	6185	2402	-920.40	1764.0	10211	12234
MEAN	450	420	233	262	394	219	206	77.5	-30.7	56.9	329	408
MAX	841	549	377	488	482	308	267	221	66	321	425	507
MIN	-218	271	9.8	146	266	124	152	-94	-148	-109	173	172
AC-FT	27650	25010	14350	16110	21900	13450	12270	4760	-1830	3500	20250	24270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	356	358	352	381	380	382	482	356	232	298	346	371
MAX	450	556	649	877	645	564	887	845	542	479	452	470
(WY)	2001	2000	2000	2000	2000	1999	1998	1998	1998	1995	1995	1995
MIN	262	244	233	231	253	219	206	77.5	-30.7	56.9	244	278
(WY)	1998	1998	2001	1994	1996	2001	2001	2001	2001	2001	1992	1997

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1992 - 2001

ANNUAL TOTAL	157236.8	91601.40	
ANNUAL MEAN	430	251	358
HIGHEST ANNUAL MEAN			467
LOWEST ANNUAL MEAN			251
HIGHEST DAILY MEAN	1090	Jan 18	841
LOWEST DAILY MEAN	-218	Oct 4	-218
ANNUAL SEVEN-DAY MINIMUM	52	Oct 3	-69
ANNUAL RUNOFF (AC-FT)	311900		181700
10 PERCENT EXCEEDS	824		471
50 PERCENT EXCEEDS	372		254
90 PERCENT EXCEEDS	199		-20

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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, FL.

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 is the sum of regulation from upstream control structure S-335 and S-336 and from levee seepage and rainfall. Positive flow is to the south and may reverse for short periods.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 6 complete water years of discharge (1995, 1997-2001).

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, 7.81 ft Oct. 4; minimum, 3.53 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.85	5.85	5.80	5.60	4.68	4.24	4.84	3.85	4.46	5.20	5.50	5.89
2	5.88	5.82	5.78	5.61	4.61	4.21	4.86	3.95	4.71	5.15	5.84	5.90
3	6.51	5.80	5.77	5.67	4.59	4.18	4.76	4.08	4.65	5.08	6.04	5.94
4	7.77	5.79	5.75	5.68	4.58	4.17	4.69	4.72	4.58	5.01	5.99	5.91
5	7.63	5.81	5.73	5.61	4.73	4.49	4.66	4.83	4.56	4.95	6.05	5.89
6	7.51	5.79	5.70	5.57	4.78	4.55	4.64	4.78	4.57	4.89	6.25	5.89
7	7.51	5.78	5.68	5.54	4.75	4.54	4.64	4.71	4.52	4.87	6.05	5.88
8	e7.39	5.80	5.77	5.47	4.69	4.53	4.59	4.64	4.47	4.86	5.95	5.93
9	7.15	5.77	5.87	5.46	4.63	4.48	4.52	4.58	4.47	4.87	5.93	5.92
10	6.93	5.76	6.07	5.42	4.48	4.44	4.39	4.52	4.57	4.99	5.93	5.90
11	6.46	5.74	6.15	5.39	4.43	4.42	4.32	4.46	4.51	5.22	5.90	5.82
12	6.11	5.72	6.08	5.36	4.47	4.35	4.26	4.40	4.43	5.38	5.87	5.81
13	5.91	5.72	6.00	5.34	4.47	4.27	4.21	4.35	4.36	5.30	5.87	6.21
14	5.86	5.75	5.96	5.31	4.44	4.24	4.17	4.29	4.32	5.25	5.90	6.37
15	5.81	5.87	5.93	5.28	4.39	4.23	4.15	4.23	4.28	5.46	5.95	6.38
16	5.79	6.01	5.90	5.25	4.27	4.19	4.16	4.17	4.35	5.51	5.95	6.34
17	5.79	6.02	5.88	5.22	4.22	4.16	4.10	4.11	4.56	5.47	5.91	6.23
18	5.84	6.02	5.85	5.16	4.18	4.32	4.01	4.05	4.50	5.67	5.90	6.23
19	5.84	6.01	5.81	5.07	4.24	4.60	3.97	3.99	4.45	5.71	5.92	6.25
20	5.81	6.04	5.76	5.11	4.23	4.65	3.94	3.94	4.39	5.74	5.92	6.19
21	5.78	5.91	5.74	5.10	4.21	4.63	3.87	3.90	4.36	5.87	5.97	6.14
22	5.77	5.73	5.94	5.05	4.23	4.57	3.88	3.76	4.49	5.93	6.01	6.08
23	5.89	5.70	6.13	5.03	4.36	4.49	3.86	3.89	4.78	5.83	6.00	6.03
24	5.92	5.67	6.17	4.99	4.35	4.37	3.75	4.59	4.78	5.84	5.96	5.98
25	5.88	5.66	6.17	4.96	4.34	4.35	3.71	4.62	4.74	5.81	5.93	5.96
26	5.84	5.66	6.15	4.91	4.32	4.33	3.72	4.64	4.80	5.79	5.93	6.02
27	5.83	5.68	5.99	4.88	4.29	4.22	3.75	4.86	4.83	5.72	5.91	6.10
28	5.83	5.71	5.74	4.85	4.27	4.18	3.78	4.92	5.14	5.64	5.91	6.06
29	5.83	5.74	5.72	4.87	---	4.14	3.76	4.78	5.28	5.54	5.92	6.77
30	5.84	5.80	5.70	4.83	---	4.57	3.80	4.54	5.22	5.67	5.92	6.85
31	5.85	---	5.64	4.67	---	4.69	---	4.46	---	5.66	5.88	---
TOTAL	193.61	174.13	182.33	162.26	124.23	135.80	125.76	135.61	138.13	167.88	183.96	182.87
MEAN	6.25	5.80	5.88	5.23	4.44	4.38	4.19	4.37	4.60	5.42	5.93	6.10
MAX	7.77	6.04	6.17	5.68	4.78	4.69	4.86	4.92	5.28	5.93	6.25	6.85
MIN	5.77	5.66	5.64	4.67	4.18	4.14	3.71	3.76	4.28	4.86	5.50	5.81

e Estimated

02290766 LEVEE 31 NORTH EXTENSION AT 4 MILE NEAR WEST MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	478	274	e277	453	300	270	210	9.8	e-30	338	359
2	425	473	279	242	463	266	207	205	e-4.7	84	353	364
3	e121	481	278	213	464	252	170	204	33	51	285	397
4	e-211	480	277	184	476	257	191	277	e-13	e36	239	348
5	e11	503	266	257	451	255	174	205	e-18	e-1.6	e152	476
6	115	505	278	272	392	215	169	182	e-34	e-9.3	e271	509
7	172	510	273	282	395	203	176	177	e-18	79	e394	472
8	e178	513	211	290	404	224	142	147	e26	e-20	e396	447
9	e326	518	171	268	415	148	219	130	55	e11	e325	401
10	e355	526	157	278	483	222	187	156	e-69	e-8.0	300	386
11	568	517	322	277	475	168	213	149	e-41	e10	326	426
12	613	515	331	273	435	211	222	146	e-25	e-11	258	451
13	668	503	386	288	421	204	e216	197	68	67	360	357
14	711	477	376	282	415	198	239	175	e11	55	e334	315
15	758	377	390	275	419	197	198	76	e-40	e-37	379	355
16	810	299	397	281	461	201	243	107	105	e-12	334	368
17	846	303	391	276	461	222	253	111	e-20	96	354	383
18	812	305	380	280	450	276	244	35	e4.3	60	337	406
19	778	289	378	284	400	291	226	31	33	e14	333	411
20	755	293	374	308	390	306	216	39	e-11	e-19	e392	428
21	743	370	347	299	392	238	219	e35	57	e-39	416	439
22	760	435	164	280	323	262	198	e-20	e17	117	422	437
23	545	422	62	285	305	243	226	129	e47	244	397	428
24	387	413	61	295	297	244	224	156	e61	263	365	413
25	429	415	78	283	287	220	231	120	76	306	362	420
26	429	420	91	303	289	260	307	113	46	295	428	402
27	444	357	249	294	275	322	235	91	e26	289	419	402
28	435	349	302	305	276	268	189	107	e-57	e256	431	423
29	445	310	298	295	---	221	186	e-40	e14	246	397	238
30	460	293	276	403	---	241	198	e-73	e-48	119	391	317
31	470	---	261	485	---	211	---	e-26	---	e99	379	---
TOTAL	14760	12649	8378	8914	11167	7346	6388	3551	290.4	2610.1	10867	11978
MEAN	476	422	270	288	399	237	213	115	9.68	84.2	351	399
MAX	846	526	397	485	483	322	307	277	105	306	431	509
MIN	-211	289	61	184	275	148	142	-73	-69	-39	152	238
AC-FT	29280	25090	16620	17680	22150	14570	12670	7040	576	5180	21550	23760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	369	395	393	434	412	391	528	338	228	263	346	371
MAX	476	649	741	977	725	577	892	833	465	483	462	451
(WY)	2001	2000	2000	2000	2000	1999	1998	1998	1998	1995	1995	1995
MIN	240	238	241	264	235	236	213	115	9.68	84.2	242	265
(WY)	1998	1998	1998	1997	1996	1996	2001	2001	2001	2001	1997	1997

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1994 - 2001

ANNUAL TOTAL	174295	98898.5	
ANNUAL MEAN	476	271	385
HIGHEST ANNUAL MEAN			526
LOWEST ANNUAL MEAN			271
HIGHEST DAILY MEAN	1210	846	1210
LOWEST DAILY MEAN	-211	-211	-300
ANNUAL SEVEN-DAY MINIMUM	102	-16	-16
ANNUAL RUNOFF (AC-FT)	345700	196200	278700
10 PERCENT EXCEEDS	922	463	620
50 PERCENT EXCEEDS	418	277	339
90 PERCENT EXCEEDS	206	16	161

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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, FL.

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 for estimated daily discharges, which are poor. 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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 6 water years of discharge (1995, 1997-2001).

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, 7.64 ft Oct. 4; minimum, 3.48 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.78	5.78	5.74	e5.54	4.61	4.18	e4.77	3.79	4.42	5.16	5.44	5.83
2	5.81	5.75	5.72	5.55	4.55	4.15	4.80	3.88	4.67	5.10	5.79	5.84
3	6.40	5.73	5.71	e5.60	4.53	4.11	4.71	4.01	4.61	5.03	5.98	5.88
4	7.61	5.72	5.69	5.61	4.51	4.11	4.63	4.61	e4.56	e4.95	5.93	5.86
5	7.48	5.74	5.67	5.55	4.66	4.43	4.60	4.72	4.52	4.91	5.98	5.84
6	7.37	5.72	5.64	5.51	4.72	4.49	4.58	4.69	4.52	4.84	6.17	5.85
7	7.37	5.71	5.61	5.48	e4.69	4.48	4.58	4.63	4.48	4.82	5.99	5.82
8	7.26	5.73	5.70	5.40	4.63	4.47	4.54	4.56	4.42	4.81	5.90	5.85
9	7.03	5.70	5.80	5.39	4.57	e4.42	e4.46	4.50	4.43	4.81	5.88	5.86
10	6.80	5.69	5.99	5.37	4.42	4.38	e4.33	4.44	4.52	4.93	5.88	5.84
11	6.36	5.67	6.07	5.33	4.37	4.36	4.26	4.39	4.46	5.17	5.86	5.75
12	6.03	5.65	6.01	5.30	e4.41	4.28	4.20	4.33	4.39	5.33	5.83	5.75
13	5.84	5.65	5.94	5.28	4.41	4.20	4.15	4.28	4.32	5.25	5.82	6.12
14	5.79	5.68	e5.90	5.25	4.37	4.18	4.10	4.22	4.27	5.20	5.85	6.28
15	5.74	5.79	5.86	5.22	4.33	4.16	4.08	4.15	4.24	5.39	5.89	6.30
16	5.72	e5.94	5.83	5.19	4.21	4.12	4.10	4.10	4.30	5.45	5.89	6.27
17	5.72	5.95	5.81	5.16	4.18	4.09	4.04	4.04	4.51	5.42	5.85	6.16
18	5.77	5.96	5.78	5.10	4.13	4.26	e3.96	3.98	4.45	5.61	5.85	6.16
19	5.77	5.94	5.74	5.01	e4.18	4.53	3.92	3.93	4.40	e5.65	5.86	6.18
20	5.74	5.97	5.70	5.04	4.17	4.58	3.88	3.88	4.34	5.68	5.86	6.13
21	5.70	5.84	5.67	5.03	e4.14	e4.57	3.81	3.84	4.31	5.79	5.92	6.07
22	5.69	5.67	5.88	4.99	4.17	4.51	e3.82	3.70	4.44	5.86	5.95	6.03
23	5.81	5.63	6.05	4.96	e4.31	4.43	3.81	3.82	4.73	5.77	5.94	5.98
24	5.85	5.60	6.09	4.93	4.29	4.31	3.71	4.49	e4.74	5.77	5.90	5.94
25	5.81	5.59	6.10	4.90	4.28	4.29	3.66	4.53	4.69	5.75	5.87	5.91
26	5.77	5.59	6.08	4.85	e4.26	4.27	3.66	4.54	4.75	5.73	5.87	5.97
27	5.76	5.61	5.92	4.82	e4.23	4.17	3.70	4.75	4.79	5.67	5.85	6.03
28	5.76	5.64	5.67	4.79	4.20	4.12	3.73	4.80	5.09	5.59	5.85	5.99
29	5.76	5.67	5.66	4.81	---	4.08	3.72	e4.71	5.22	5.49	5.87	6.67
30	5.77	5.74	5.63	4.76	---	e4.50	3.74	4.50	5.17	5.60	5.86	6.76
31	5.77	---	5.58	4.60	---	4.62	---	e4.42	---	5.59	5.82	---
TOTAL	190.84	172.05	180.24	160.32	122.53	133.85	124.05	133.23	136.76	166.12	182.20	180.92
MEAN	6.16	5.74	5.81	5.17	4.38	4.32	4.14	4.30	4.56	5.36	5.88	6.03
MAX	7.61	5.97	6.10	5.61	4.72	4.62	4.80	4.80	5.22	5.86	6.17	6.76
MIN	5.69	5.59	5.58	4.60	4.13	4.08	3.66	3.70	4.24	4.81	5.44	5.75

e Estimated

02290767 LEVEE 31 NORTH EXTENSION AT 5 MILE NEAR WEST MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	483	541	316	e315	507	e338	e315	264	e-40	e-43	e341	392
2	498	540	320	285	516	315	245	253	e-54	e71	349	437
3	198	545	320	e258	518	293	206	283	e-17	e38	290	436
4	e-121	545	309	227	529	289	216	307	e-63	e23	243	397
5	.47	566	308	303	496	272	240	237	e-54	e-15	169	458
6	247	562	314	325	437	226	239	223	e-85	e-33	e344	535
7	304	570	313	321	e431	231	238	201	e-76	67	431	513
8	310	561	237	325	439	258	235	158	e-31	e-35	433	496
9	496	564	221	315	442	e191	e305	194	e-26	11	362	472
10	525	582	230	322	520	246	e288	195	e-113	e-61	378	466
11	765	561	360	327	506	185	240	188	e-79	9.0	407	499
12	824	557	389	307	461	250	267	179	e-69	e-23	412	504
13	882	552	430	323	439	240	235	231	e37	72	423	401
14	906	523	e413	322	451	235	296	204	e-31	69	422	366
15	940	417	428	316	e441	232	233	131	e-90	e-30	425	400
16	998	e329	435	325	498	235	277	133	27	14	411	423
17	1010	334	432	315	502	264	275	138	e-81	93	460	442
18	965	343	414	336	e503	307	e299	48	e-73	82	473	427
19	929	326	400	327	e436	334	289	e43	e-25	e1.0	446	410
20	910	337	402	349	421	304	272	e51	e-83	e-36	500	439
21	896	413	e384	346	e426	e264	287	47	e-6.4	e-9.0	468	451
22	900	461	e201	325	352	275	e281	22	e-60	63	423	433
23	670	440	99	318	e341	297	309	168	e-1.3	251	409	434
24	483	429	99	334	332	291	303	190	e-8.4	e235	440	436
25	527	437	108	316	325	255	280	148	e8.7	259	426	437
26	529	442	118	342	e314	288	345	155	e-48	303	456	424
27	525	380	279	342	e331	351	286	124	e6.0	284	421	434
28	525	380	349	330	327	307	243	131	e-106	336	434	470
29	525	341	336	347	---	248	222	e-16	e-73	231	424	271
30	542	323	321	453	---	e272	210	e-123	e-120	119	444	354
31	542	---	311	541	---	e253	---	e-76	---	e153	393	---
TOTAL	18733.47	13901	9596	10237	12241	8346	7976	4431	-1434.4	2499.0	12457	13057
MEAN	604	463	310	330	437	269	266	143	-47.8	80.6	402	435
MAX	1010	582	435	541	529	351	345	307	37	336	500	535
MIN	-121	323	99	227	314	185	206	-123	-120	-61	169	271
AC-FT	37160	27570	19030	20310	24280	16550	15820	8790	-2850	4960	24710	25900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	395	417	409	449	457	390	536	336	237	280	385	403
MAX	604	776	828	1066	804	578	914	859	462	509	521	483
(WY)	2001	2000	2000	2000	2000	1999	1998	1998	1998	2000	2000	2000
MIN	231	229	256	246	305	189	266	110	-47.8	76.3	251	266
(WY)	1998	1998	1998	1997	1997	1996	2001	1996	2001	1994	1997	1997

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1994 - 2001

ANNUAL TOTAL	201340.47	112040.07	
ANNUAL MEAN	550	307	405
HIGHEST ANNUAL MEAN			605
LOWEST ANNUAL MEAN			280
HIGHEST DAILY MEAN	1300	Jan 17	1010
LOWEST DAILY MEAN	-121	Oct 4	-123
ANNUAL SEVEN-DAY MINIMUM	179	Dec 22	-68
ANNUAL RUNOFF (AC-FT)	399400		222200
10 PERCENT EXCEEDS	1000		525
50 PERCENT EXCEEDS	498		316
90 PERCENT EXCEEDS	274		-8.6

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.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290768 LEVEE 31 NORTH EXTENSION AT 7 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°39'48", long 80°29'54", (corrected) 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, FL.

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 discharge, which are poor. 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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1995, 1997-98, 2000-01).

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, 7.67 ft Oct. 4; minimum, 3.46 ft May 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.77	5.76	5.73	5.53	4.59	4.17	4.77	3.77	4.39	5.14	5.45	5.80
2	5.79	5.73	5.71	5.55	4.52	4.13	4.79	3.88	4.64	5.09	5.79	5.82
3	e6.41	5.71	5.70	5.61	4.51	4.09	4.69	4.01	4.58	5.03	5.99	5.86
4	e7.65	5.70	5.69	5.61	4.49	4.09	4.62	4.65	4.52	4.96	5.93	5.83
5	e7.53	5.72	5.66	5.54	4.65	4.42	4.60	4.76	4.50	4.90	5.99	5.80
6	e7.42	5.70	5.63	5.50	4.71	4.48	e4.55	4.71	4.50	4.83	6.19	5.80
7	e7.41	5.69	5.61	5.47	4.68	4.47	4.56	4.65	4.46	4.81	5.99	5.80
8	e7.29	5.71	5.70	5.39	4.62	4.46	4.52	4.58	4.41	4.80	5.89	5.86
9	e7.05	5.68	5.80	5.39	4.55	4.41	4.44	4.52	4.41	4.81	e5.87	5.84
10	e6.82	5.67	6.01	5.36	4.39	4.37	4.31	4.46	4.51	4.93	5.87	5.82
11	e6.37	5.65	6.08	5.32	4.34	4.35	4.24	4.40	4.44	5.17	5.84	5.74
12	e6.03	5.64	6.00	5.29	4.39	4.27	e4.18	4.34	4.36	5.33	5.82	5.72
13	e5.83	5.63	5.93	5.27	4.39	4.19	e4.13	4.28	4.31	5.25	5.82	6.13
14	e5.77	5.67	e5.89	5.24	4.35	4.16	4.08	4.23	4.27	5.20	5.84	6.27
15	e5.71	5.80	5.85	5.21	4.31	4.15	4.06	4.16	4.23	5.40	5.89	6.29
16	e5.68	5.94	5.82	5.19	4.18	4.11	4.08	4.11	4.29	5.45	5.88	6.26
17	e5.67	5.95	5.80	5.15	4.13	4.08	4.02	4.05	4.50	5.42	5.84	6.14
18	e5.72	5.95	5.77	5.09	4.09	4.25	3.94	3.99	4.44	5.62	5.84	6.15
19	e5.70	5.94	5.73	4.99	4.16	4.52	3.90	3.93	4.39	5.66	5.85	6.16
20	e5.67	5.97	5.69	5.04	4.15	4.57	3.86	3.89	4.34	5.69	5.85	6.11
21	5.66	5.84	5.66	5.03	4.12	4.56	3.79	3.84	4.31	5.82	5.90	6.05
22	5.65	5.66	5.88	4.98	4.15	4.50	3.80	3.69	4.44	5.87	5.94	5.99
23	5.79	5.62	6.07	4.95	4.29	e4.41	3.79	3.81	4.72	5.78	5.93	5.94
24	5.84	5.58	e6.09	4.92	4.28	4.30	3.69	4.53	4.73	5.78	5.89	5.90
25	5.80	5.57	6.11	e4.89	4.26	4.28	e3.65	4.56	4.68	5.76	5.86	5.88
26	5.76	5.58	6.09	e4.84	4.24	4.26	e3.65	4.58	4.75	5.74	5.86	5.94
27	5.74	5.61	5.92	4.81	4.21	4.15	e3.69	4.80	4.78	5.67	5.84	6.01
28	5.74	5.63	5.66	4.78	4.19	4.10	e3.72	4.86	5.09	5.60	5.84	5.96
29	5.74	5.67	5.65	4.79	---	---	4.06	4.72	5.22	5.50	5.85	6.68
30	5.76	5.74	5.62	4.74	---	---	e4.49	3.73	4.47	5.16	5.63	6.76
31	5.76	---	5.58	4.58	---	---	4.61	---	4.39	---	5.62	---
TOTAL	190.53	171.71	180.13	160.05	121.94	133.46	123.55	133.62	136.37	166.26	181.97	180.31
MEAN	6.15	5.72	5.81	5.16	4.36	4.31	4.12	4.31	4.55	5.36	5.87	6.01
MAX	7.65	5.97	6.11	5.61	4.71	4.61	4.79	4.86	5.22	5.87	6.19	6.76
MIN	5.65	5.57	5.58	4.58	4.09	4.06	3.65	3.69	4.23	4.80	5.45	5.72

e Estimated

02290768 LEVEE 31 NORTH EXTENSION AT 7 MILE NEAR WEST MIAMI, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	505	248	262	436	275	251	197	44	24	318	422
2	450	499	252	232	455	259	198	188	41	41	360	437
3	e175	503	261	202	452	248	176	183	30	39	317	437
4	e-184	503	254	172	460	248	185	237	41	e18	283	422
5	e-58	514	252	e243	434	236	e172	154	25	49	216	482
6	e126	511	258	257	370	193	e167	119	30	32	347	563
7	e219	514	256	255	371	183	183	119	32	22	417	560
8	e266	509	173	281	386	195	170	108	45	38	e360	566
9	e462	513	160	260	397	143	198	103	44	e15	e320	541
10	e505	520	183	262	461	187	218	111	20	36	e359	545
11	e810	508	309	258	453	155	208	98	38	38	e365	576
12	e883	506	327	259	399	188	e220	111	42	58	e359	572
13	e939	495	388	262	382	196	e228	138	79	50	e380	511
14	e941	468	e390	254	380	182	225	138	52	55	e380	462
15	e961	354	396	248	386	188	205	102	36	35	e383	477
16	e989	267	394	251	446	198	215	147	36	38	411	483
17	e1010	272	392	258	446	211	225	146	47	32	410	517
18	e952	270	e378	277	437	221	235	117	34	48	e416	497
19	e916	265	379	282	365	267	214	119	33	34	411	499
20	e892	266	e372	301	364	271	209	109	e-15	45	e437	498
21	867	372	342	292	375	212	214	107	28	e37	442	500
22	873	422	140	272	307	230	172	59	e13	155	432	486
23	623	410	37	274	277	e225	191	133	e24	251	426	491
24	454	405	e38	277	266	238	205	181	28	280	419	480
25	496	403	40	e269	263	210	e214	98	34	302	410	470
26	494	394	50	e289	268	217	e274	106	15	333	420	468
27	498	344	211	280	262	274	e208	118	42	323	461	494
28	498	332	299	282	271	245	e148	96	e-7.4	308	449	531
29	496	288	283	278	---	212	158	45	71	286	439	364
30	505	268	273	404	---	e261	166	e-20	e2.1	192	435	443
31	504	---	260	470	---	259	---	e-.66	---	e169	434	---
TOTAL	17971	12400	7995	8463	10569	6827	6052	3666.34	983.7	3383	12016	14794
MEAN	580	413	258	273	377	220	202	118	32.8	109	388	493
MAX	1010	520	396	470	461	275	274	237	79	333	461	576
MIN	-184	265	37	172	262	143	148	-20	-15	15	216	364
AC-FT	35650	24600	15860	16790	20960	13540	12000	7270	1950	6710	23830	29340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	516	595	532	636	564	319	326	319	149	283	426	455
MAX	580	778	805	998	745	418	450	519	266	456	464	493
(WY)	2001	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2001
MIN	453	413	258	273	377	220	202	118	32.8	109	388	416
(WY)	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 2000 - 2001

ANNUAL TOTAL	182489	105120.04		
ANNUAL MEAN	499	288	426	
HIGHEST ANNUAL MEAN			564	2000
LOWEST ANNUAL MEAN			288	2001
HIGHEST DAILY MEAN	1220	Jan 16	1010	Oct 17
LOWEST DAILY MEAN	-184	Oct 4	-184	Oct 4
ANNUAL SEVEN-DAY MINIMUM	116	Dec 22	18	Jun 20
ANNUAL RUNOFF (AC-FT)	362000		208500	308800
10 PERCENT EXCEEDS	948		503	847
50 PERCENT EXCEEDS	434		263	402
90 PERCENT EXCEEDS	243		38	111

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 ¼ 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 RECORD.--WDR FL-78-2A:1974-77.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until September 30, 2001.

Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter installed May 24, 2001.

The acoustic velocity meter and acoustic doppler velocity meter were run 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 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. 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 1994 water year discharge published under the name Canal 111 Above S-18-C under the same station number (02290769). Prior to December 1, 1992, digital water-stage recorders, electromagnetic velocity meter recorder, and dual graphic water-stage and gate opening recorder.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1969-90, 1993-2000).

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, 0.50 ft Apr. 25, 26, 2001.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 2.89 ft Sept. 29; minimum, 0.50 ft Apr. 25, 26.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.59	2.34	1.80	1.91	1.50	1.06	1.12	1.11	1.36	1.94	2.31	2.23
2	2.61	2.32	1.77	1.89	1.49	1.04	1.12	1.12	1.30	1.91	2.57	2.21
3	2.77	2.27	1.76	1.83	1.47	1.01	1.09	1.15	1.30	1.85	2.54	2.17
4	2.71	2.24	1.74	1.81	1.47	1.00	1.04	1.40	1.42	1.66	2.52	2.13
5	2.56	2.22	1.73	1.80	1.45	1.28	1.01	1.41	1.43	1.61	2.53	2.11
6	2.47	2.19	1.73	1.78	1.44	1.27	.99	1.37	1.38	1.58	2.61	2.12
7	2.45	2.16	1.72	1.77	1.43	1.25	1.01	1.36	1.27	1.56	2.59	2.20
8	2.62	2.15	1.72	1.76	1.43	1.24	.98	1.36	1.22	1.60	2.53	2.25
9	2.74	2.12	1.71	1.74	1.42	1.23	.93	1.36	1.19	1.74	2.46	2.28
10	2.81	2.10	1.86	1.72	1.41	1.22	.90	1.32	1.17	1.85	2.39	2.30
11	2.79	2.07	2.26	1.71	1.39	1.22	.87	1.29	1.13	1.85	2.35	2.32
12	2.74	2.04	2.30	1.69	1.38	1.22	.84	1.26	1.09	1.85	2.35	2.50
13	2.71	1.98	2.28	1.67	1.37	1.20	.79	1.23	1.04	1.82	2.37	2.61
14	2.67	1.95	2.24	1.66	1.36	1.17	.77	1.20	1.00	1.83	2.40	2.68
15	2.69	1.91	2.20	1.66	1.34	1.15	.85	1.17	.96	2.04	2.44	2.69
16	2.67	1.90	2.17	1.65	1.32	1.13	.78	1.14	.93	2.24	2.44	2.65
17	2.64	1.88	2.11	1.64	1.29	1.10	.72	1.10	.96	2.18	2.41	e2.63
18	2.61	1.87	2.09	1.62	1.28	1.08	.68	1.06	.95	---	2.38	2.60
19	2.58	1.85	2.06	1.62	1.29	1.08	.67	1.02	.92	---	2.34	2.62
20	2.58	1.83	2.05	1.62	1.27	1.14	.65	1.00	.88	---	2.29	2.59
21	2.60	1.83	2.03	1.61	1.24	1.12	.62	.99	.85	---	2.28	2.56
22	2.62	1.89	2.05	1.60	1.21	1.08	.61	.97	.89	---	2.29	2.54
23	2.61	1.90	2.05	1.58	1.20	1.06	.60	1.08	1.11	---	2.28	2.50
24	2.57	1.91	2.05	1.57	1.19	1.04	.58	1.23	1.14	2.24	2.26	2.47
25	2.54	1.90	2.04	1.56	1.18	1.01	.54	e1.25	1.30	2.23	2.25	2.43
26	2.51	1.90	2.03	1.55	1.14	.98	.61	1.27	1.91	2.24	2.25	2.43
27	2.45	1.89	2.02	1.54	1.12	1.01	1.01	1.26	1.92	2.24	2.28	2.50
28	2.40	1.87	2.00	1.54	1.09	1.12	1.02	1.27	1.93	2.23	2.43	2.49
29	2.38	1.81	1.98	1.54	---	1.12	1.00	1.39	1.95	2.20	2.35	2.81
30	2.36	1.81	1.96	1.53	---	e1.07	1.10	1.44	1.95	2.17	2.31	2.80
31	2.34	---	1.94	1.51	---	1.03	---	1.48	---	2.16	2.27	---
TOTAL	80.39	60.10	61.45	51.68	37.17	34.73	25.50	38.06	37.85	48.82	74.07	73.42
MEAN	2.59	2.00	1.98	1.67	1.33	1.12	.85	1.23	1.26	1.95	2.39	2.45
MAX	2.81	2.34	2.30	1.91	1.50	1.28	1.12	1.48	1.95	2.24	2.61	2.81
MIN	2.34	1.81	1.71	1.51	1.09	.98	.54	.97	.85	1.56	2.25	2.11

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

251716080342100 EVERGLADES 5A IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°17'10", long 80°34'22", in SW ¼ 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 datum is 1.10 ft above National Geodetic Vertical Datum of 1929. Data prior to 1993 water year are unpublished and 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, -0.77 ft May 21, 1990.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.10 ft Sept. 14; minimum, -0.56 ft Apr. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.68	1.54	1.19	1.11	.96	.30	.72	.11	.71	.68	1.27	1.37
2	1.68	1.52	1.18	1.10	.95	.27	.70	.09	.70	.63	1.70	1.35
3	1.88	1.49	1.17	1.09	.94	.23	.62	.15	.69	.57	1.75	1.32
4	2.08	1.47	1.16	1.10	.92	.27	.54	.76	.69	.53	1.76	1.29
5	2.07	1.45	1.15	1.08	.91	.89	.45	.73	.68	.49	1.74	1.26
6	2.07	1.43	1.14	1.08	.89	.83	.37	.65	.65	.43	1.75	1.25
7	2.06	1.41	1.13	1.07	.87	.78	.34	.56	.62	.39	1.70	1.25
8	2.05	1.39	1.13	1.06	.85	.74	.27	.45	.58	.54	1.65	1.30
9	2.03	1.38	1.13	1.05	.84	.70	.20	.35	.54	.77	1.61	1.38
10	2.00	1.37	1.26	1.04	.83	.67	.13	.26	.50	.79	1.58	1.40
11	1.97	1.35	1.37	1.03	.81	.64	.07	.18	.45	.79	1.56	1.43
12	1.95	1.34	1.34	1.03	.79	.61	.02	.10	.38	.82	1.53	1.60
13	1.92	1.33	1.31	1.02	.76	.59	-.03	.02	.32	.79	1.53	1.87
14	1.88	1.33	1.28	1.01	.74	.54	-.04	-.07	.34	.81	1.55	1.98
15	1.85	1.33	1.25	1.01	.71	.50	.15	-.14	.43	1.14	1.60	2.08
16	1.83	1.31	1.23	1.00	.69	.45	.04	-.20	.37	1.27	1.61	2.02
17	1.81	1.29	1.21	1.00	.67	.42	-.06	-.27	.57	1.21	1.59	1.95
18	1.79	1.27	1.19	.99	.65	.40	-.16	-.36	.87	1.22	1.56	1.95
19	1.77	1.26	1.19	.98	.61	.43	-.24	-.43	.87	1.28	1.53	1.94
20	1.75	1.25	1.17	1.04	.58	.55	-.31	-.48	.82	1.24	1.50	1.88
21	1.73	1.23	1.16	1.09	.55	.52	-.36	-.50	.78	1.20	1.55	1.82
22	1.71	1.21	1.18	1.09	.53	.44	-.40	-.50	.77	1.19	1.71	1.76
23	1.68	1.19	1.18	1.08	.50	.37	-.43	-.19	.88	1.23	1.66	1.71
24	1.65	1.18	1.19	1.07	.47	.33	-.46	.60	.84	1.28	1.59	1.67
25	1.63	1.18	1.18	1.05	.44	.28	-.50	.55	.79	1.29	1.56	1.64
26	1.62	1.18	1.16	1.04	.41	.23	-.51	.60	.75	1.30	1.57	1.63
27	1.60	1.17	1.15	1.03	.38	.32	-.24	.59	.73	1.27	1.54	1.65
28	1.58	1.16	1.15	1.01	.34	.51	-.23	.67	.74	1.22	1.50	1.67
29	1.58	1.17	1.14	.99	---	.48	-.24	.68	.76	1.17	1.46	1.92
30	1.58	1.20	1.13	.98	---	.47	.08	.69	.73	1.14	1.43	1.97
31	1.56	---	1.12	.97	---	.41	---	.69	---	1.10	1.39	---
TOTAL	56.04	39.38	36.92	32.29	19.59	15.17	0.49	6.72	19.55	29.78	49.03	49.31
MEAN	1.81	1.31	1.19	1.04	.70	.49	.02	.22	.65	.96	1.58	1.64
MAX	2.08	1.54	1.37	1.11	.96	.89	.72	.76	.88	1.30	1.76	2.08
MIN	1.56	1.16	1.12	.97	.34	.23	-.51	-.50	.32	.39	1.27	1.25

251724080341400 EVERGLADES 5B IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°17'14", long 80°34'08", in SW ¼ 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 datum is 1.10 ft above National Geodetic Vertical Datum of 1929. Water levels below land-surface datum are recorded. Data prior to 1993 water year are unpublished and 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.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.14 ft Oct. 4; minimum, indeterminate, well was dry for many days.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.76	1.64	1.35	1.29	---	---	---	---	---	---	1.52	---
2	e1.76	1.62	1.35	1.28	---	---	---	---	---	---	1.88	---
3	e1.95	1.60	1.34	1.27	---	---	---	---	---	---	1.91	---
4	e2.13	1.58	1.33	1.28	---	---	---	---	---	---	1.91	---
5	e2.13	1.56	1.32	1.27	---	---	---	---	---	---	1.89	---
6	e2.13	1.55	1.32	1.26	---	---	---	---	---	---	1.91	---
7	e2.12	1.53	1.31	1.26	---	---	---	---	---	---	1.86	---
8	e2.11	1.52	1.31	1.25	---	---	---	---	---	---	1.81	---
9	e2.10	1.50	1.31	1.24	---	---	---	---	---	---	1.78	---
10	e2.07	1.49	1.41	---	---	---	---	---	---	---	1.75	---
11	e2.05	1.48	1.47	---	---	---	---	---	---	---	1.73	---
12	e2.02	1.46	1.43	---	---	---	---	---	---	---	1.71	---
13	e2.00	1.45	1.40	---	---	---	---	---	---	---	1.70	---
14	e1.97	1.44	1.38	---	---	---	---	---	---	---	1.71	---
15	e1.94	1.43	1.36	---	---	---	---	---	---	1.52	1.70	---
16	e1.92	1.42	1.36	---	---	---	---	---	---	1.52	1.72	---
17	e1.89	1.41	1.35	---	---	---	---	---	---	1.45	1.70	---
18	e1.87	1.40	1.34	---	---	---	---	---	---	1.45	1.67	---
19	e1.85	1.39	1.34	---	---	---	---	---	---	1.49	1.64	---
20	e1.84	1.38	1.33	---	---	---	---	---	---	1.45	1.61	---
21	e1.81	1.37	1.33	1.27	---	---	---	---	---	1.42	1.66	---
22	e1.80	1.35	1.35	1.27	---	---	---	---	---	1.41	1.80	---
23	e1.77	1.35	1.34	1.26	---	---	---	---	---	1.41	1.75	---
24	e1.75	1.34	1.35	1.25	---	---	---	---	---	1.44	1.69	---
25	e1.74	1.35	1.34	---	---	---	---	---	---	1.44	1.66	---
26	1.72	1.35	1.33	---	---	---	---	---	---	1.45	1.66	---
27	1.70	1.34	1.32	---	---	---	---	---	---	1.43	1.61	---
28	1.69	1.33	1.32	---	---	---	---	---	---	1.40	1.55	---
29	1.68	1.35	1.32	---	---	---	---	---	---	1.37	---	---
30	1.67	1.36	1.31	---	---	---	---	---	---	1.36	---	---
31	1.66	---	1.30	---	---	---	---	---	---	1.35	---	---
TOTAL	58.60	43.34	41.72	16.45	---	---	---	---	---	24.36	48.49	---
MEAN	1.89	1.44	1.35	1.27	---	---	---	---	---	1.43	1.73	---
MAX	2.13	1.64	1.47	1.29	---	---	---	---	---	1.52	1.91	---
MIN	1.66	1.33	1.30	1.24	---	---	---	---	---	1.35	1.52	---

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

251855080283400 EVERGLADES 2B IN C-111 BASIN NEAR HOMESTEAD, FL

LOCATION.--Lat 25°18'43", long 80°28'37", in NW ¼ sec.7, T.59 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, in C-111 drainage basin between C-109 and C-110 Canals, 1.6 mi west of U.S. Highway 1 and 1.15 mi north of C-111 Canal, 8.9 mi south of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year, (discontinued).

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 datum is approximately 1.20 ft above mean sea level, National Geodetic Vertical Datum of 1929. Data prior to 1993 water year are unpublished and in 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, 3.63 ft Oct. 15, 1999 (estimated); minimum, indeterminate.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.87 ft Oct. 3 (estimated); minimum, indeterminate, well was dry for many days.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.53	2.34	1.86	1.96	1.56	---	---	---	---	---	---	---
2	e2.54	2.32	1.84	1.94	1.55	---	---	---	---	---	---	---
3	e2.73	2.29	1.82	1.92	1.54	---	---	---	---	---	---	---
4	e2.83	2.26	1.81	1.91	1.53	---	---	---	---	---	---	---
5	e2.77	2.24	1.79	1.89	1.51	---	---	---	---	---	---	---
6	e2.74	2.22	1.78	1.88	1.50	---	---	---	---	---	---	---
7	e2.76	2.19	1.77	1.86	1.48	---	---	---	---	---	---	---
8	e2.73	2.16	1.76	1.85	1.47	---	---	---	---	---	---	---
9	e2.72	2.14	1.75	1.83	1.46	---	---	---	---	---	---	---
10	e2.72	2.12	1.88	1.82	1.45	---	---	---	---	---	---	---
11	e2.73	2.10	2.10	1.79	1.44	---	---	---	---	---	---	---
12	e2.71	2.08	2.13	1.77	1.42	---	---	---	---	---	---	---
13	e2.69	2.06	2.15	1.76	1.41	---	---	---	---	---	---	---
14	e2.67	2.03	2.16	1.75	1.40	---	---	---	---	---	---	---
15	e2.65	2.01	2.16	1.73	---	---	---	---	---	---	---	---
16	e2.64	1.98	2.16	1.72	---	---	---	---	---	---	---	---
17	e2.63	1.96	2.14	1.70	---	---	---	---	---	---	---	---
18	e2.61	1.95	2.12	1.69	---	---	---	---	---	---	---	---
19	e2.58	1.93	2.10	1.68	---	---	---	---	---	---	---	---
20	e2.56	1.92	2.07	1.67	---	---	---	---	---	---	---	---
21	e2.55	1.89	2.06	1.67	---	---	---	---	---	---	---	---
22	e2.55	1.88	2.06	1.67	---	---	---	---	---	---	---	---
23	e2.54	1.88	2.06	1.66	---	---	---	---	---	---	---	---
24	e2.52	1.87	2.07	1.65	---	---	---	---	---	---	---	---
25	e2.51	1.87	2.06	1.63	---	---	---	---	---	---	---	---
26	2.49	1.87	2.04	1.62	---	---	---	---	---	---	---	---
27	2.47	1.87	2.03	1.61	---	---	---	---	---	---	---	---
28	2.44	1.86	2.02	1.60	---	---	---	---	---	---	---	---
29	2.40	1.86	2.01	1.59	---	---	---	---	---	---	---	---
30	2.38	1.87	1.99	1.58	---	---	---	---	---	---	---	---
31	2.35	---	1.98	1.57	---	---	---	---	---	---	---	---
TOTAL	80.74	61.02	61.73	53.97	20.72	---	---	---	---	---	---	---
MEAN	2.60	2.03	1.99	1.74	1.48	---	---	---	---	---	---	---
MAX	2.83	2.34	2.16	1.96	1.56	---	---	---	---	---	---	---
MIN	2.35	1.86	1.75	1.57	1.40	---	---	---	---	---	---	---

e Estimated

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.--Unit values prior to 1993 water year were not available to determine instantaneous maximum and minimum gage height.

Land-surface datum is 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.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.60 ft Oct. 15, 1999, (estimated); minimum, 0.28 ft May 22, 1990.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.88 ft Oct. 3, 4; minimum, 0.49 ft Apr. 26.

REVISIONS.--Water year 2000 was revised. Revised data is available in the files of the U.S. Geological Survey.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.57	2.36	1.88	2.00	1.59	1.11	1.19	1.09	1.25	1.60	2.23	2.23
2	2.58	2.34	1.86	1.97	1.58	1.09	1.17	1.08	1.25	1.61	2.45	2.22
3	2.75	2.32	1.85	1.95	1.57	1.06	1.12	1.12	1.25	1.61	2.48	2.19
4	2.86	2.29	1.83	1.93	1.55	1.05	1.08	1.29	1.25	1.61	2.48	2.17
5	2.81	2.27	1.82	1.92	1.54	1.29	1.04	1.30	1.25	1.60	2.46	2.14
6	2.78	2.25	1.81	1.90	1.53	1.29	e1.00	1.30	1.25	1.59	2.48	2.12
7	2.80	2.22	1.80	1.88	1.51	1.27	e1.01	1.29	1.23	1.58	2.48	2.12
8	2.77	2.20	1.79	1.87	1.50	1.26	e1.00	1.29	1.21	1.61	2.47	2.17
9	2.76	2.18	1.78	1.85	1.49	1.25	.97	1.29	1.18	1.74	2.45	2.24
10	2.76	2.16	1.91	1.83	1.48	1.25	.93	1.28	1.16	1.81	2.43	2.25
11	2.76	2.14	2.12	1.81	1.47	1.25	.88	1.28	1.13	1.84	2.40	2.28
12	2.75	2.11	2.16	1.80	1.46	1.24	.85	1.27	1.09	1.87	2.38	2.38
13	2.73	2.09	2.18	1.78	1.44	1.23	.82	1.26	1.06	1.86	2.36	2.51
14	2.70	2.07	2.19	1.77	1.43	1.22	.79	1.24	1.01	1.87	2.37	2.60
15	2.68	2.05	2.19	1.76	1.41	1.20	.78	1.22	.95	2.00	2.47	2.66
16	2.67	2.02	2.19	1.74	1.39	1.18	.75	1.20	.91	2.08	2.48	2.65
17	2.65	2.00	2.17	1.73	1.38	1.15	.73	1.16	.91	2.08	2.43	2.64
18	2.63	1.98	2.15	1.72	1.37	1.13	.68	1.12	.91	2.08	2.39	2.63
19	2.60	1.96	2.13	1.71	1.35	1.11	.64	1.07	.88	2.09	2.36	2.64
20	2.58	1.94	2.11	1.71	1.33	1.22	.61	1.04	.83	2.12	2.32	2.62
21	2.56	1.92	2.10	1.70	1.31	1.23	.58	.99	.79	2.14	2.29	2.59
22	2.56	1.90	2.10	1.69	1.29	1.19	.56	.95	.84	2.15	2.29	2.56
23	2.55	1.89	2.10	1.69	1.27	1.14	.55	1.03	1.09	2.15	2.28	2.53
24	2.54	1.89	2.11	1.67	1.24	1.10	.53	1.15	1.10	2.16	2.26	2.50
25	2.53	1.89	2.10	1.66	1.22	1.06	.51	1.17	1.18	2.15	2.24	2.47
26	2.51	1.89	2.09	1.65	1.19	1.04	.59	1.21	1.36	2.16	2.25	2.45
27	2.49	1.88	2.08	1.65	1.17	1.05	.94	1.22	1.40	2.22	2.28	2.44
28	2.47	1.88	2.06	1.63	1.14	1.11	.98	1.23	1.47	2.21	2.30	2.48
29	2.43	1.88	2.05	1.62	---	1.09	.98	1.24	1.55	2.19	2.29	2.76
30	2.40	1.89	2.03	1.61	---	1.07	1.07	1.24	1.58	2.17	2.28	2.79
31	2.38	---	2.02	1.60	---	1.05	---	1.25	---	2.15	2.26	---
TOTAL	81.61	61.86	62.76	54.80	39.20	35.98	25.33	36.87	34.32	60.10	73.39	73.03
MEAN	2.63	2.06	2.02	1.77	1.40	1.16	.84	1.19	1.14	1.94	2.37	2.43
MAX	2.86	2.36	2.19	2.00	1.59	1.29	1.19	1.30	1.58	2.22	2.48	2.79
MIN	2.38	1.88	1.78	1.60	1.14	1.04	.51	.95	.79	1.58	2.23	2.12

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 datum is 1.10 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 are recorded.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum mean daily gage height, 3.26 ft Nov. 15, 1994; minimum, 0.31 ft May 22, 1990.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.41 ft Oct. 13, 14; minimum, 0.49 ft Apr. 25, 26.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.89	e1.94	1.61	1.67	e1.40	1.00	1.18	1.18	1.21	1.31	1.68	1.66
2	1.86	e1.91	1.60	1.66	e1.38	.95	1.16	1.18	1.18	1.31	1.84	1.65
3	2.03	e1.88	1.59	1.66	e1.37	.91	e1.11	1.22	1.17	1.31	1.86	1.64
4	2.18	e1.85	1.59	1.65	e1.36	.90	e1.03	1.45	1.16	1.30	1.83	1.63
5	2.09	e1.83	1.58	1.65	e1.35	1.29	e1.01	1.48	1.14	1.30	1.81	1.62
6	2.06	e1.81	1.58	1.64	e1.34	1.27	e1.01	1.48	1.12	1.29	1.80	1.61
7	2.07	e1.80	1.57	1.64	1.31	1.25	e1.07	1.48	1.12	1.28	1.77	1.61
8	2.07	e1.77	1.56	1.62	1.29	1.22	e1.03	1.53	1.10	1.37	1.76	1.63
9	2.04	e1.75	1.56	1.60	e1.28	1.20	e.99	1.61	1.05	1.58	1.73	1.69
10	2.10	e1.74	1.73	1.59	e1.25	1.18	e.95	1.61	.99	1.62	1.72	1.78
11	2.37	e1.72	1.90	1.59	e1.22	1.18	e.92	1.54	.93	1.63	1.72	1.78
12	2.38	e1.71	1.83	1.58	1.21	1.18	e.89	1.48	.87	1.64	1.72	1.84
13	2.40	e1.69	1.80	1.57	1.19	1.16	e.84	1.44	.79	1.58	1.70	1.95
14	2.36	e1.68	e1.77	1.57	1.19	1.13	e.81	1.38	.74	1.56	1.72	1.95
15	2.21	1.67	e1.75	1.56	1.16	1.12	e.79	1.35	.71	1.61	1.82	1.95
16	2.10	1.67	e1.74	1.56	1.13	1.09	e.76	1.32	.68	1.62	1.81	1.91
17	e2.05	1.66	e1.72	1.56	1.11	1.06	e.73	1.26	.70	1.60	1.78	1.87
18	e2.03	1.65	e1.71	1.54	1.10	1.03	e.71	1.19	.67	1.59	1.75	1.85
19	e2.01	1.65	e1.70	1.54	1.10	1.00	e.69	1.13	.61	1.58	1.71	1.87
20	e2.00	1.64	e1.70	1.54	1.10	1.18	e.66	1.09	.57	1.57	1.69	1.87
21	e2.00	1.63	1.70	1.54	1.10	1.17	e.64	1.04	.55	1.57	1.67	1.85
22	e2.00	1.62	1.71	1.54	1.09	1.12	e.60	.99	.69	1.58	1.67	1.84
23	e2.05	1.61	1.71	1.53	1.08	1.07	e.57	1.09	1.08	1.58	1.66	1.84
24	e2.19	1.60	1.71	1.52	1.07	1.04	e.55	1.22	1.08	1.60	1.65	1.83
25	e2.26	1.60	1.71	1.52	1.07	.96	e.52	1.23	1.09	1.59	1.64	1.81
26	e2.22	1.59	1.71	1.50	1.06	.92	.54	1.27	1.16	1.64	1.64	1.80
27	e2.13	1.59	1.72	e1.48	1.06	.94	1.05	1.27	1.16	1.70	1.68	1.79
28	e2.06	1.59	1.72	e1.46	1.02	1.06	1.08	1.27	1.24	1.66	1.70	1.81
29	e2.03	1.60	1.71	e1.44	---	1.05	1.06	1.26	1.29	1.64	1.70	2.06
30	e2.00	1.62	1.69	e1.42	---	1.02	1.16	1.25	1.31	1.61	1.69	2.09
31	e1.97	---	1.69	e1.40	---	.95	---	1.22	---	1.59	1.67	---
TOTAL	65.21	51.07	52.37	48.34	33.39	33.60	26.11	40.51	29.16	47.41	53.59	54.08
MEAN	2.10	1.70	1.69	1.56	1.19	1.08	.87	1.31	.97	1.53	1.73	1.80
MAX	2.40	1.94	1.90	1.67	1.40	1.29	1.18	1.61	1.31	1.70	1.86	2.09
MIN	1.86	1.59	1.56	1.40	1.02	.90	.52	.99	.55	1.28	1.64	1.61

e Estimated

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 datum is 2.40 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, 0.44 ft Apr. 26, 2001, estimated.

EXTREME STAGES FOR CURRENT YEAR.--Maximum mean daily gage height, 2.82 ft Oct. 4, Sept. 29; minimum, 0.44 ft Apr. 26, estimated.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.48	2.40	2.12	1.86	1.59	1.05	.93	1.32	1.63	1.89	2.28	2.31
2	2.51	2.38	2.10	1.84	1.59	1.02	.94	1.28	1.59	1.83	2.55	2.29
3	2.67	2.37	2.08	1.83	1.59	.99	.89	1.35	1.61	1.79	2.56	2.26
4	2.81	2.36	2.06	1.84	1.58	1.06	.87	1.74	1.63	1.75	2.55	2.23
5	2.79	2.35	2.04	1.83	1.57	1.86	.85	1.68	1.59	1.72	2.53	2.21
6	2.79	2.34	2.02	1.82	1.55	1.69	.83	1.61	1.56	1.68	2.52	2.21
7	2.78	2.34	2.01	1.80	1.54	1.57	.89	1.56	1.51	1.66	2.50	2.23
8	2.77	2.32	2.00	1.79	1.53	1.50	.88	1.50	1.47	1.87	2.49	2.26
9	2.76	2.30	1.99	1.78	1.51	1.43	.83	1.46	1.44	2.11	2.47	2.28
10	2.75	2.29	2.13	1.76	1.50	1.40	.78	1.42	1.44	2.10	2.46	2.32
11	2.75	2.28	2.20	1.75	1.48	1.37	.74	1.38	1.41	2.04	2.45	2.35
12	2.73	2.26	2.18	1.74	1.46	1.34	e.71	1.33	1.37	1.99	2.44	2.50
13	2.71	2.25	2.17	1.73	1.44	1.32	e.69	1.27	1.33	1.92	2.46	2.56
14	2.68	2.24	2.15	1.72	1.43	1.27	e.67	1.21	1.29	1.93	2.49	2.65
15	2.66	2.22	2.14	1.72	1.41	1.23	e.65	1.16	1.27	2.15	2.49	2.69
16	2.64	2.21	2.13	1.70	1.39	1.18	e.63	1.11	1.26	2.14	2.51	2.66
17	2.63	2.20	2.12	1.68	1.38	1.14	e.62	1.04	1.37	2.12	2.48	2.64
18	2.60	2.19	2.10	1.67	1.36	1.13	e.60	.95	1.45	2.16	2.46	2.66
19	2.59	2.18	2.08	1.66	1.33	1.17	e.58	.88	1.42	2.13	2.42	2.64
20	2.57	2.17	2.04	1.81	1.30	1.16	e.56	.82	1.36	2.10	2.38	2.62
21	2.56	2.15	2.02	1.93	1.28	1.09	e.54	.77	1.35	2.09	2.40	2.58
22	2.55	2.14	2.05	1.85	1.24	1.04	e.53	.72	1.51	2.11	2.48	2.57
23	2.54	2.13	2.04	1.80	1.22	1.02	e.51	1.40	1.83	2.11	2.45	2.55
24	2.53	2.12	2.05	1.76	1.20	.99	e.49	1.62	1.72	2.12	2.40	2.52
25	2.51	2.12	2.03	1.72	1.17	.95	e.46	1.68	1.77	2.09	2.37	2.50
26	2.50	2.12	2.00	1.68	1.14	.91	e.75	1.74	2.01	2.12	2.34	2.49
27	2.49	2.11	1.98	1.65	1.11	.91	1.29	1.68	1.97	2.12	2.35	2.53
28	2.47	2.09	1.97	1.63	1.08	.98	1.22	1.87	2.00	2.12	2.39	2.54
29	2.44	2.11	1.96	1.62	---	.98	1.20	1.78	2.00	2.12	2.37	2.77
30	2.42	2.14	1.94	1.62	---	.97	1.38	1.72	1.94	2.09	2.35	2.79
31	2.41	---	1.89	1.60	---	.91	---	1.68	---	2.07	2.33	---
TOTAL	81.09	66.88	63.79	54.19	38.97	36.63	23.51	42.73	47.10	62.24	75.72	74.41
MEAN	2.62	2.23	2.06	1.75	1.39	1.18	.78	1.38	1.57	2.01	2.44	2.48
MAX	2.81	2.40	2.20	1.93	1.59	1.86	1.38	1.87	2.01	2.16	2.56	2.79
MIN	2.41	2.09	1.89	1.60	1.08	.91	.46	.72	1.26	1.66	2.28	2.21

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 datum is 1.67 ft above National Geodetic Vertical Datum of 1929. Data prior to 1993 water year are unpublished and in files of the U.S. Geological Survey.

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, 3.12 ft Oct. 4; minimum 0.69 ft Apr. 25.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.67	2.46	2.11	2.05	1.77	1.29	1.20	1.58	1.84	1.96	e2.36	2.33
2	2.69	2.44	2.10	2.03	1.77	1.26	1.21	1.55	1.82	1.94	e2.66	2.30
3	2.89	2.42	2.09	2.02	1.77	1.23	1.18	1.59	1.80	1.91	e2.76	2.28
4	e3.11	2.39	2.08	2.02	1.76	1.25	1.15	1.83	1.81	1.89	e2.78	2.25
5	e3.10	2.38	2.06	2.01	1.76	1.77	1.12	1.85	1.80	1.88	e2.76	2.22
6	e3.08	2.36	2.05	2.00	1.74	1.75	1.12	1.85	1.77	1.87	e2.75	2.20
7	e3.05	2.35	2.04	1.98	1.72	1.72	1.25	1.83	1.74	1.86	e2.73	2.24
8	e2.99	2.33	2.03	1.98	1.71	1.69	1.20	1.81	1.71	1.92	e2.70	2.33
9	e2.97	2.32	2.02	1.96	1.69	1.65	1.14	1.78	1.68	2.07	e2.66	2.40
10	e2.94	2.30	2.11	1.94	1.68	1.62	1.09	1.74	1.66	2.10	e2.62	2.42
11	e2.92	2.28	2.20	1.93	1.67	1.60	1.04	1.71	1.62	2.08	e2.58	2.42
12	e2.90	2.27	2.22	1.92	1.65	1.58	1.01	1.66	1.57	2.06	e2.54	2.53
13	e2.87	2.25	2.24	1.91	1.63	1.55	.98	1.60	1.52	2.03	e2.51	2.62
14	e2.84	2.24	2.25	1.90	1.63	1.52	.97	1.53	1.46	2.02	e2.50	2.75
15	e2.82	2.23	2.26	1.89	1.62	1.49	1.14	1.47	1.41	2.13	e2.52	2.83
16	e2.80	2.22	2.25	1.88	1.59	1.44	1.08	1.41	1.38	2.16	e2.51	2.82
17	e2.77	2.21	2.24	1.87	1.58	1.40	1.02	1.33	1.44	2.17	e2.49	2.80
18	e2.74	2.20	2.23	1.85	1.55	1.38	.95	1.25	1.44	2.20	e2.47	2.80
19	e2.72	2.19	2.21	1.84	1.52	1.37	.90	1.18	1.41	2.19	e2.44	2.80
20	e2.69	2.19	2.20	1.92	1.50	1.39	.86	1.12	1.36	2.19	e2.41	2.77
21	e2.67	2.17	2.18	1.95	1.48	1.34	.82	1.06	1.36	2.20	e2.40	2.74
22	e2.67	2.15	2.19	1.94	1.45	1.30	.78	1.02	1.41	2.22	e2.44	2.71
23	e2.66	2.14	2.19	1.93	1.43	1.27	.77	1.40	1.66	2.22	e2.42	2.67
24	e2.64	2.12	2.20	1.91	1.40	1.25	.75	1.72	1.70	2.24	e2.38	2.64
25	e2.62	2.12	2.18	1.89	1.38	1.21	.72	1.76	1.81	2.22	e2.35	2.61
26	2.60	2.12	2.16	1.86	1.37	1.18	.89	1.80	2.03	2.24	e2.34	2.59
27	2.58	2.11	2.14	1.84	1.34	1.16	1.49	1.79	2.02	2.28	e2.34	2.58
28	2.55	2.10	2.12	1.82	1.32	1.18	1.52	1.87	2.01	2.27	e2.39	2.62
29	2.53	2.10	2.11	1.80	---	1.18	1.49	1.87	2.01	2.26	e2.38	2.92
30	2.50	2.12	2.09	1.79	---	1.18	1.60	1.87	1.98	2.24	2.38	2.97
31	2.48	---	2.07	1.78	---	1.15	---	1.86	---	2.21	2.35	---
TOTAL	86.06	67.28	66.62	59.41	44.48	43.35	32.44	49.69	50.23	65.23	77.92	77.16
MEAN	2.78	2.24	2.15	1.92	1.59	1.40	1.08	1.60	1.67	2.10	2.51	2.57
MAX	3.11	2.46	2.26	2.05	1.77	1.77	1.60	1.87	2.03	2.28	2.78	2.97
MIN	2.48	2.10	2.02	1.78	1.32	1.15	.72	1.02	1.36	1.86	2.34	2.20

e Estimated

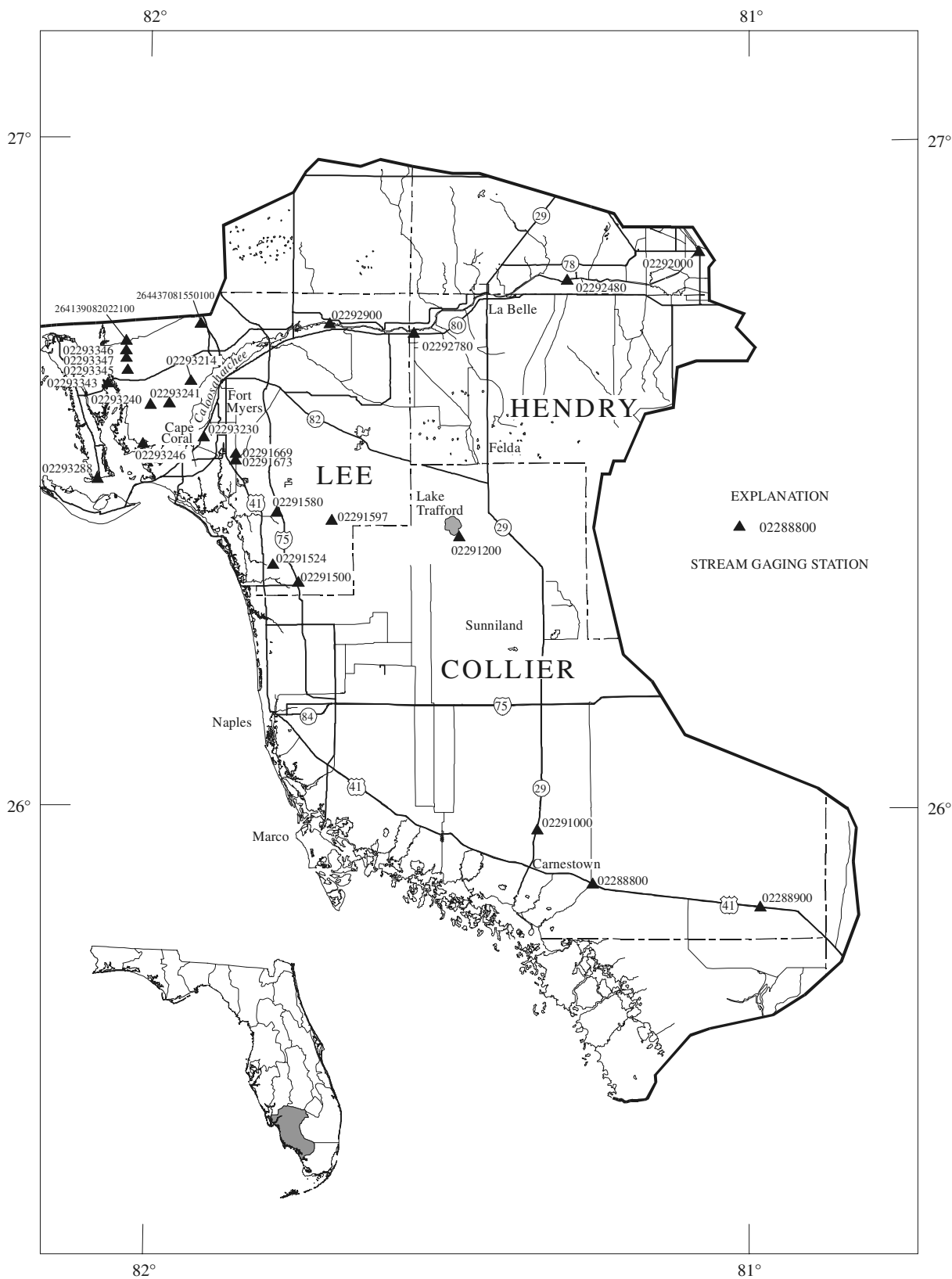


Figure 9. Location of gaging stations in the Big Cypress Swamp and southwestern coastal area, the Caloosahatchee River, Lake Trafford, Charlotte Harbor and the coastal area.

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

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.--No estimated daily discharges. Records poor. 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 46 complete years of discharge (1952-87, 1989-94, 1996, 1998-2001).

EXTREME STAGE FOR PERIOD OF RECORD.--Maximum gage height, 7.07 ft Aug. 26, 1995; minimum, 0.21 ft May 18, 1962 and May 18, 1972.

EXTREMES FOR STAGES FOR CURRENT YEAR.--Maximum gage height, 6.20 ft Sept. 14, 15; minimum, 0.55 ft June 13, 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.59	5.37	4.01	2.97	2.31	1.79	1.53	1.13	.70	2.11	5.61	5.30
2	5.56	5.35	3.97	2.95	2.29	1.77	1.52	1.11	.68	2.09	5.67	5.29
3	5.63	5.33	3.91	2.91	2.27	1.75	1.50	1.10	.66	2.07	5.84	5.33
4	5.82	5.31	3.86	2.89	2.25	1.76	1.49	1.10	.66	2.24	5.91	5.39
5	5.81	5.29	3.81	2.87	2.23	1.92	1.49	1.08	.65	2.38	5.90	5.37
6	5.79	5.26	3.76	2.85	2.21	1.96	1.48	1.06	.66	2.43	5.94	5.38
7	5.76	5.24	3.73	2.82	2.19	1.97	1.47	1.04	.66	2.54	5.90	5.45
8	5.73	5.21	3.69	2.79	2.17	1.96	1.46	1.03	.64	2.84	5.86	5.45
9	5.71	5.17	3.65	2.80	2.15	1.94	1.44	1.01	.63	3.21	5.85	5.44
10	5.68	5.13	3.76	2.77	2.14	1.94	1.43	.99	.61	3.50	5.83	5.50
11	5.64	5.08	3.84	2.75	2.12	1.93	1.41	.97	.60	4.17	5.83	5.62
12	5.60	5.02	3.78	2.72	2.11	1.91	1.39	.95	.58	4.77	5.87	5.70
13	5.57	4.95	3.70	2.70	2.09	1.88	1.37	.93	.56	4.82	5.84	5.87
14	5.53	4.90	3.64	2.68	2.08	1.85	1.35	.91	.57	4.97	5.83	6.14
15	5.51	4.83	3.59	2.65	2.05	1.82	1.33	.90	.61	5.32	5.79	6.20
16	5.48	4.76	3.54	2.64	2.04	1.79	1.31	.88	.72	5.41	5.75	6.17
17	5.46	4.70	3.50	2.61	2.02	1.76	1.30	.85	.84	5.42	5.71	6.11
18	5.49	4.64	3.45	2.59	2.00	1.73	1.30	.83	1.06	5.44	5.66	6.06
19	5.53	4.59	3.42	2.57	1.98	1.71	1.30	.81	1.14	5.48	5.62	6.02
20	5.52	4.55	3.39	2.55	1.96	1.70	1.29	.79	1.21	5.49	5.58	5.96
21	5.51	4.48	3.33	2.53	1.94	1.68	1.27	.78	1.56	5.51	5.59	5.89
22	5.50	4.40	3.30	2.53	1.92	1.66	1.26	.77	1.90	5.55	5.62	5.83
23	5.49	4.36	3.27	2.53	1.90	1.65	1.24	.78	1.94	5.69	5.57	5.78
24	5.48	4.32	3.23	2.50	1.88	1.63	1.22	.77	1.92	5.79	5.52	5.75
25	5.47	4.30	3.19	2.47	1.87	1.61	1.20	.77	1.88	5.84	5.47	5.69
26	5.46	4.28	3.15	2.45	1.85	1.60	1.19	.79	1.99	5.92	5.42	5.65
27	5.45	4.23	3.12	2.42	1.83	1.58	1.17	.77	2.09	5.96	5.38	5.63
28	5.43	4.16	3.10	2.40	1.81	1.57	1.16	.76	2.10	5.92	5.34	5.66
29	5.42	4.11	3.09	2.38	---	1.55	1.16	.75	2.10	5.87	5.31	5.95
30	5.41	4.07	3.05	2.36	---	1.55	1.15	.73	2.10	5.84	5.28	6.02
31	5.39	---	3.01	2.33	---	1.54	---	.71	---	5.71	5.27	---
TOTAL	172.42	143.39	108.84	81.98	57.66	54.46	40.18	27.85	34.02	140.30	175.56	171.60
MEAN	5.56	4.78	3.51	2.64	2.06	1.76	1.34	.90	1.13	4.53	5.66	5.72
MAX	5.82	5.37	4.01	2.97	2.31	1.97	1.53	1.13	2.10	5.96	5.94	6.20
MIN	5.39	4.07	3.01	2.33	1.81	1.54	1.15	.71	.56	2.07	5.27	5.29

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291200 LAKE TRAFFORD NEAR IMMOKALEE, FL

LOCATION.--Lat 26°26'08", long 81°29'25", in NW ¼ 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 mi², 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 non-recording gage in canal at county boat landing, 0.3 mi southeast. October 1, 1962, to November 25, 1968, non-recording 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, 21.69 ft Sept. 30; minimum, 17.74 ft June 4, 5, 13-15, 26, 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	19.52	19.26	19.13	18.76	18.56	18.21	e17.78	17.85	20.39	20.51
2	---	---	19.51	19.24	19.12	18.75	18.21	18.53	18.21	17.76	20.45	20.50
3	---	---	19.50	19.24	19.10	18.73	18.52	18.20	17.76	17.85	20.62	20.52
4	---	---	19.47	19.23	19.12	18.75	18.51	18.20	17.75	17.87	20.68	20.55
5	20.16	---	19.46	19.22	19.12	18.77	18.48	18.20	17.76	17.88	20.72	20.55
6	20.17	---	19.44	19.22	19.11	18.74	18.47	18.20	17.78	17.87	20.77	20.53
7	20.17	---	19.43	19.21	19.08	18.71	18.45	18.19	17.77	17.85	20.79	20.52
8	20.17	---	19.43	19.22	19.04	18.70	18.44	18.19	17.78	17.84	20.79	20.62
9	20.16	---	19.42	19.22	19.03	18.69	18.42	18.18	17.79	17.86	20.79	20.93
10	20.18	---	19.42	19.20	19.03	18.68	18.41	18.18	17.78	18.01	20.79	20.97
11	20.18	---	19.43	19.20	19.02	18.66	18.39	18.17	17.76	18.13	20.77	20.99
12	20.18	---	19.43	19.20	19.01	18.66	18.38	18.16	17.75	18.18	20.76	21.06
13	20.19	---	19.42	19.18	18.99	18.67	18.35	18.16	17.75	18.18	20.75	21.14
14	---	---	19.41	19.18	18.98	18.63	18.33	18.15	17.75	18.25	20.73	21.37
15	---	---	19.40	19.17	18.97	18.63	18.32	18.15	17.75	18.38	20.71	21.42
16	---	---	19.39	19.17	18.96	18.61	18.32	18.14	17.75	18.43	20.68	21.40
17	---	---	e19.38	19.17	18.95	18.59	18.30	18.14	17.75	18.46	20.67	21.38
18	---	---	---	19.16	18.90	18.56	18.29	---	17.76	18.49	20.72	21.36
19	---	---	e19.33	19.17	18.88	18.59	18.28	---	17.76	18.53	20.69	21.34
20	---	---	19.30	19.21	18.87	18.66	18.28	---	17.76	18.57	20.72	21.31
21	---	e19.59	19.29	19.20	18.86	18.63	18.27	---	17.76	18.63	20.71	21.27
22	---	19.58	19.29	19.19	18.85	18.60	18.26	---	17.77	18.79	20.69	21.23
23	---	19.57	19.26	19.19	18.83	18.57	18.25	---	17.78	18.97	20.67	21.19
24	e19.96	19.56	19.25	19.18	18.82	18.56	18.24	---	17.78	19.22	20.65	21.15
25	19.96	19.57	19.24	19.16	18.81	18.55	18.24	---	17.77	19.49	20.62	21.11
26	19.95	19.57	19.24	19.15	18.80	18.54	18.23	---	17.77	19.79	20.59	21.07
27	19.94	19.56	19.24	19.15	18.80	18.51	18.22	---	17.78	20.02	20.56	21.05
28	---	19.55	19.28	19.14	18.78	18.49	18.22	---	17.79	20.16	20.54	21.08
29	---	19.54	19.31	19.14	---	18.51	18.21	---	17.85	20.27	20.53	21.61
30	---	19.52	19.29	19.15	---	18.58	18.21	---	17.85	20.34	20.56	21.68
31	---	---	19.27	19.14	---	18.58	---	---	---	20.38	20.54	---
TOTAL	261.37	195.61	581.05	594.86	530.96	577.66	550.38	309.03	533.15	578.40	640.65	631.41
MEAN	20.11	19.56	19.37	19.19	18.96	18.63	18.35	18.18	17.77	18.66	20.67	21.05
MAX	20.19	19.59	19.52	19.26	19.13	18.77	18.56	18.21	17.85	20.38	20.79	21.68
MIN	19.94	19.52	19.24	19.14	18.78	18.49	18.21	18.14	17.75	17.84	20.39	20.50

e Estimated

02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°20'07", long 81°44'59", in SW ¼ 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.--Records good. No estimated daily discharges.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1941-54, 1988-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.04	3.74	3.28	3.21	3.21	3.27	3.27	3.05	2.94	3.54	7.11	8.41
2	8.57	3.68	3.28	3.21	3.22	3.26	3.27	3.04	2.93	3.51	7.81	8.82
3	8.10	3.62	3.28	3.21	3.22	3.25	3.27	3.04	2.91	3.46	8.97	9.38
4	7.87	3.57	3.28	3.21	3.21	3.26	3.27	3.03	2.89	3.47	9.50	9.46
5	7.93	3.50	3.26	3.21	3.21	3.27	3.27	3.03	2.95	4.00	9.64	9.37
6	7.84	3.46	3.25	3.21	3.21	3.27	3.26	3.02	2.98	3.94	9.70	9.19
7	7.65	3.45	3.24	3.21	3.21	3.26	3.26	3.02	2.99	3.75	9.70	9.19
8	7.35	3.43	3.23	3.21	3.20	3.27	3.25	3.02	2.98	3.65	9.50	8.94
9	7.00	3.42	3.23	3.22	3.20	3.27	3.22	3.01	2.96	3.54	9.30	9.00
10	6.66	3.42	3.23	3.22	3.20	3.27	3.20	3.01	2.94	3.47	9.08	9.29
11	6.39	3.40	3.23	3.22	3.20	3.26	3.18	3.01	2.92	3.49	8.84	9.38
12	6.13	3.38	3.23	3.22	3.20	3.26	3.17	3.00	2.92	3.56	8.77	9.50
13	5.92	3.36	3.22	3.21	3.20	3.25	3.16	2.99	2.90	3.54	8.76	9.95
14	5.71	3.35	3.21	3.21	3.19	3.25	3.15	2.98	2.91	3.75	8.54	11.02
15	5.55	3.35	3.22	3.20	3.19	3.24	3.13	2.99	2.92	4.00	8.28	11.24
16	5.38	3.34	3.22	3.19	3.19	3.29	3.11	2.99	2.93	4.00	7.98	11.26
17	4.96	3.34	3.22	3.20	3.18	3.30	3.08	2.93	2.93	3.91	7.71	11.25
18	4.79	3.34	3.22	3.19	3.17	3.27	3.07	2.91	2.94	3.83	7.50	11.19
19	4.69	3.33	3.22	3.19	3.17	3.29	3.06	2.98	2.96	3.76	7.38	11.10
20	4.61	3.33	3.23	3.20	3.17	3.30	3.06	3.05	3.03	3.74	7.35	11.11
21	4.52	3.33	3.22	3.20	3.18	3.29	3.08	3.09	3.12	4.12	7.15	11.11
22	4.46	3.32	3.22	3.22	3.21	3.27	3.07	3.13	3.17	5.00	7.00	11.00
23	4.35	3.31	3.21	3.22	3.20	3.26	3.06	3.14	3.20	6.21	7.06	10.83
24	4.25	3.31	3.21	3.21	3.19	3.26	3.06	3.09	3.21	7.37	7.04	10.67
25	4.19	3.31	3.21	3.21	3.19	3.25	3.06	3.08	3.21	8.25	7.59	10.43
26	4.12	3.30	3.21	3.20	3.18	3.24	3.05	3.09	3.22	8.49	7.44	10.09
27	4.05	3.30	3.21	3.19	3.20	3.22	3.05	3.08	3.23	8.47	7.09	9.85
28	3.98	3.30	3.22	3.19	3.26	3.23	3.04	3.08	3.25	8.20	6.76	9.87
29	3.90	3.30	3.22	3.20	---	3.23	3.04	3.06	3.26	7.73	6.57	11.06
30	3.84	3.28	3.21	3.21	---	3.27	3.06	3.00	3.46	7.46	7.04	11.24
31	3.79	---	3.21	3.21	---	3.27	---	2.96	---	7.17	7.86	---
TOTAL	177.59	101.87	100.13	99.41	89.56	101.15	94.28	93.90	91.16	152.38	250.02	304.20
MEAN	5.73	3.40	3.23	3.21	3.20	3.26	3.14	3.03	3.04	4.92	8.07	10.14
MAX	9.04	3.74	3.28	3.22	3.26	3.30	3.27	3.14	3.46	8.49	9.70	11.26
MIN	3.79	3.28	3.21	3.19	3.17	3.22	3.04	2.91	2.89	3.46	6.57	8.41

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	31	18	13	9.6	8.7	8.2	5.5	6.5	23	222	340
2	356	29	18	12	9.7	8.6	8.2	5.3	6.5	23	283	383
3	309	27	18	12	9.6	8.2	8.2	5.3	6.3	21	399	445
4	288	26	18	12	9.5	8.3	8.2	5.3	6.1	22	459	453
5	294	23	17	12	9.4	8.4	8.2	5.3	7.1	38	475	443
6	285	22	17	12	9.2	8.4	8.2	5.3	7.8	36	482	423
7	267	22	17	12	9.2	8.3	8.1	5.4	8.0	30	482	423
8	242	22	16	11	9.0	8.4	7.9	5.4	8.0	27	458	396
9	213	21	16	12	8.9	8.4	7.5	5.5	7.6	24	436	402
10	186	21	16	11	8.9	8.4	7.3	5.5	7.4	22	410	434
11	166	21	16	11	8.7	8.2	7.0	5.5	7.3	23	385	445
12	149	20	16	11	8.7	8.2	6.8	5.5	7.2	25	377	458
13	134	20	16	11	8.6	8.1	6.6	5.4	7.2	24	376	516
14	122	20	16	11	8.5	8.0	6.4	5.4	7.4	30	353	696
15	112	19	16	11	8.4	7.9	6.2	5.7	7.6	38	327	735
16	102	19	16	11	8.2	8.7	6.0	5.8	8.0	38	298	738
17	80	19	16	10	8.0	8.9	5.6	5.1	7.9	35	273	737
18	72	19	15	10	7.8	8.4	5.5	4.8	8.3	33	255	725
19	67	19	15	10	7.8	8.7	5.3	5.9	8.8	31	244	708
20	64	19	15	10	7.7	8.8	5.3	7.1	10	30	242	710
21	60	19	15	10	7.7	8.6	5.6	7.7	12	43	224	710
22	57	19	15	11	8.2	8.3	5.4	8.5	13	83	213	690
23	53	18	14	10	8.0	8.1	5.4	8.9	14	155	217	660
24	49	18	14	10	7.7	8.1	5.4	8.1	14	244	216	632
25	46	18	14	10	7.7	7.8	5.5	8.1	14	324	262	592
26	44	18	14	10	7.5	7.7	5.3	8.3	14	348	249	537
27	41	18	13	9.7	7.7	7.5	5.3	8.3	15	346	220	501
28	38	18	13	9.6	8.7	7.6	5.2	8.5	15	319	194	505
29	36	18	13	9.7	---	7.5	5.2	8.1	16	275	179	702
30	34	18	13	9.7	---	8.2	5.6	7.3	21	251	216	735
31	32	---	13	9.8	---	8.3	---	6.8	---	227	287	---
TOTAL	4405	621	479	334.5	238.6	255.7	194.6	198.6	299.0	3188	9713	16874
MEAN	142	20.7	15.5	10.8	8.52	8.25	6.49	6.41	9.97	103	313	562
MAX	407	31	18	13	9.7	8.9	8.2	8.9	21	348	482	738
MIN	32	18	13	9.6	7.5	7.5	5.2	4.8	6.1	21	179	340
AC-FT	8740	1230	950	663	473	507	386	394	593	6320	19270	33470

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

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951
MEAN	240	86.0	38.4	32.3	27.3	24.4	17.2	8.83	43.9	153	209	311
MAX	1097	387	219	185	184	226	207	55.4	331	569	709	1178
(WY)	1996	1996	1988	1995	1998	1998	1941	1941	1947	1992	1995	1995
MIN	7.01	1.73	1.51	1.25	.82	.86	.74	.72	.61	1.84	20.8	61.5
(WY)	1951	1943	1943	1951	1949	1949	1949	1950	1951	1944	1942	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	20370.6		36801.0			
ANNUAL MEAN	55.7		101		99.7	
HIGHEST ANNUAL MEAN					273	
LOWEST ANNUAL MEAN					24.1	
HIGHEST DAILY MEAN	460	Sep 29	738	Sep 16	2890	Sep 12 1940
LOWEST DAILY MEAN	6.8	Jun 18	4.8	May 18	.00	Jun 28 1940
ANNUAL SEVEN-DAY MINIMUM	7.0	Jun 13	5.3	Apr 23	.07	Jun 27 1940
MAXIMUM PEAK FLOW			750		2890	
MAXIMUM PEAK STAGE			11.32		13.68	
INSTANTANEOUS LOW FLOW			4.5		.00	
ANNUAL RUNOFF (AC-FT)	40410		72990		72250	
10 PERCENT EXCEEDS	172		397		288	
50 PERCENT EXCEEDS	17		14		22	
90 PERCENT EXCEEDS	7.9		6.3		1.2	

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.

02291524 SPRING CREEK HEADWATER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°21'42", long 81°47'27", in SE ¼ 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.--No estimated daily discharges. Records are good.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 13 complete water years of discharge (1989-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.34	6.98	6.68	6.59	6.56	6.51	6.97	6.67	6.46	7.31	7.77	7.54
2	8.20	6.93	6.68	6.58	6.56	6.50	6.95	6.65	6.46	7.28	8.24	7.51
3	8.10	6.88	6.68	6.58	6.57	6.50	6.92	6.64	6.46	7.22	8.99	7.52
4	8.16	6.84	6.68	6.59	6.57	6.52	6.89	6.63	6.47	7.21	8.47	7.51
5	8.09	6.82	6.68	6.55	6.58	6.53	6.87	6.62	6.58	7.19	8.09	7.50
6	7.92	6.81	6.67	6.55	6.58	6.53	6.88	6.60	6.65	7.15	7.89	7.47
7	7.84	6.79	6.67	6.57	6.58	6.52	6.88	6.59	6.63	7.12	7.80	7.40
8	7.78	6.77	6.67	6.55	6.58	6.52	6.87	6.58	6.61	7.09	7.70	7.35
9	7.71	6.75	6.67	6.58	6.58	6.52	6.86	6.58	6.60	7.07	7.63	7.34
10	7.66	6.74	6.68	6.56	6.58	6.52	6.85	6.57	6.59	7.09	7.61	7.78
11	7.63	6.73	6.68	6.57	6.58	6.52	6.85	6.56	6.58	7.17	7.58	7.90
12	7.61	6.73	6.69	6.56	6.62	6.52	6.85	6.54	6.57	7.18	7.64	7.83
13	7.58	6.72	6.69	6.58	6.58	6.52	6.85	6.52	6.56	7.16	7.70	8.10
14	7.56	6.72	6.68	6.57	6.56	6.52	6.84	6.51	6.54	7.27	7.92	9.27
15	7.52	6.71	6.67	6.56	6.56	6.52	6.83	6.50	6.53	7.33	7.81	8.92
16	7.46	6.71	6.66	6.56	6.55	6.52	6.83	6.49	6.53	7.47	7.72	8.36
17	7.41	6.71	6.66	6.56	6.54	6.51	6.82	6.48	6.52	7.43	7.65	8.10
18	7.38	6.70	6.66	6.56	6.54	6.51	6.80	6.48	6.53	7.34	7.62	7.95
19	7.35	6.70	6.66	6.56	6.53	6.53	6.79	6.48	6.60	7.25	7.69	7.98
20	7.32	6.71	6.65	6.60	6.52	6.59	6.80	6.46	6.68	7.23	7.64	8.47
21	7.30	6.70	6.67	6.57	6.52	6.58	6.77	6.46	6.85	7.21	7.58	8.17
22	7.27	6.69	6.73	6.57	6.52	6.57	6.75	6.49	7.21	8.13	7.54	7.96
23	7.25	6.69	6.69	6.57	6.52	6.57	6.74	6.49	7.21	9.17	7.52	7.84
24	7.22	6.69	6.66	6.57	6.52	6.56	6.72	6.48	7.12	9.51	7.51	7.73
25	7.20	6.70	6.64	6.56	6.52	6.55	6.70	6.47	7.04	9.07	7.59	7.67
26	7.17	6.70	6.62	6.56	6.51	6.54	6.69	6.47	6.98	8.64	7.54	7.61
27	7.14	6.70	6.62	6.56	6.51	6.53	6.68	6.47	6.94	8.53	7.50	7.60
28	7.11	6.70	6.65	6.55	6.51	6.58	6.67	6.47	7.16	8.16	7.48	7.75
29	7.09	6.69	6.66	6.55	---	6.64	6.67	6.47	7.47	7.94	7.45	8.70
30	7.07	6.69	6.65	6.56	---	6.69	6.68	6.46	7.36	7.78	7.44	8.35
31	7.02	---	6.61	6.56	---	6.88	---	6.46	---	7.66	7.55	---
TOTAL	233.46	202.40	206.66	203.56	183.45	203.12	204.27	202.34	202.49	236.36	239.86	237.18
MEAN	7.53	6.75	6.67	6.57	6.55	6.55	6.81	6.53	6.75	7.62	7.74	7.91
MAX	8.34	6.98	6.73	6.60	6.62	6.88	6.97	6.67	7.47	9.51	8.99	9.27
MIN	7.02	6.69	6.61	6.55	6.51	6.50	6.67	6.46	6.46	7.07	7.44	7.34

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291524 SPRING CREEK HEADWATER NEAR BONITA SPRINGS, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	3.6	1.6	1.9	1.9	1.4	5.0	.91	.17	8.4	20	9.6
2	17	3.3	1.6	1.9	1.9	1.4	4.8	.73	.15	8.0	33	9.0
3	15	2.9	1.6	1.9	1.9	1.4	4.5	.68	.14	7.3	59	8.9
4	16	2.6	1.6	2.0	2.0	1.5	4.1	.65	.18	7.2	39	8.7
5	15	2.4	1.6	1.7	2.0	1.6	3.8	.63	.85	7.1	28	8.4
6	12	2.4	1.5	1.8	2.1	1.5	3.9	.54	1.2	6.5	23	7.8
7	11	2.3	1.5	2.0	2.1	1.5	3.8	.47	1.0	6.3	21	7.0
8	10	2.2	1.5	1.9	2.0	1.5	3.6	.45	.93	5.9	18	6.9
9	9.2	2.0	1.5	2.1	2.0	1.4	3.5	.42	.86	5.7	16	7.3
10	8.3	2.0	1.6	2.0	2.1	1.4	3.4	.41	.80	6.0	15	14
11	8.1	1.9	1.6	2.0	2.1	1.4	3.3	.38	.79	7.0	14	17
12	7.9	1.9	1.7	2.0	2.4	1.4	3.2	.30	.76	7.2	15	16
13	7.7	1.8	1.7	2.1	2.1	1.3	3.2	.24	.69	6.9	15	23
14	7.5	1.8	1.6	2.1	1.9	1.4	3.0	.20	.59	8.4	18	79
15	7.3	1.7	1.6	2.0	1.9	1.3	2.9	.16	.54	9.2	16	56
16	6.9	1.8	1.6	2.0	1.8	1.3	2.8	.16	.54	11	15	34
17	6.5	1.8	1.7	1.9	1.8	1.2	2.7	.14	.55	11	13	27
18	6.3	1.7	1.8	1.9	1.7	1.2	2.5	.12	.61	9.4	13	23
19	6.2	1.7	1.8	2.0	1.6	1.4	2.4	.11	1.0	8.3	14	24
20	5.9	1.8	1.8	2.3	1.6	1.7	2.4	.07	1.6	7.9	13	34
21	5.8	1.8	2.1	2.1	1.5	1.6	2.0	.10	3.2	7.9	12	27
22	5.6	1.7	2.7	2.1	1.5	1.6	1.9	.20	7.1	22	11	22
23	5.5	1.7	2.4	2.0	1.5	1.6	1.7	.18	7.0	80	11	19
24	5.3	1.7	2.1	1.9	1.5	1.4	1.5	.14	6.0	100	10	17
25	5.2	1.7	2.0	1.9	1.5	1.4	1.4	.12	5.0	65	11	15
26	4.9	1.8	1.9	1.9	1.4	1.3	1.2	.14	4.4	44	10	14
27	4.7	1.8	2.0	1.9	1.4	1.2	1.1	.16	4.1	41	9.7	14
28	4.5	1.7	2.2	1.8	1.4	1.5	1.0	.16	6.7	30	9.3	16
29	4.4	1.7	2.4	1.8	---	1.9	.98	.15	10	24	8.8	32
30	4.2	1.6	2.4	1.9	---	2.4	.98	.13	9.0	21	8.4	25
31	3.9	---	2.1	1.9	---	4.1	---	.13	---	18	9.8	---
TOTAL	257.8	60.8	56.8	60.7	50.6	48.2	82.56	9.38	76.45	607.6	529.0	621.6
MEAN	8.32	2.03	1.83	1.96	1.81	1.55	2.75	.30	2.55	19.6	17.1	20.7
MAX	20	3.6	2.7	2.3	2.4	4.1	5.0	.91	10	100	59	79
MIN	3.9	1.6	1.5	1.7	1.4	1.2	.98	.07	.14	5.7	8.4	6.9
AC-FT	511	121	113	120	100	96	164	19	152	1210	1050	1230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	17.8	7.42	4.49	3.72	3.60	2.67	1.98	1.26	6.30	15.5	19.0	23.6			
MAX	95.9	26.5	14.1	9.45	15.3	11.8	5.56	6.41	28.9	42.0	46.1	52.6			
(WY)	1996	1999	1998	1995	1998	1998	1993	1991	1992	1999	1995	1995			
MIN	4.05	1.63	1.02	.71	.28	.11	.11	.18	.43	.90	5.16	9.20			
(WY)	1990	1990	1993	1997	1997	1997	1990	1989	1988	1988	1989	1996			

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1987 - 2001
ANNUAL TOTAL	2402.52	2461.49	
ANNUAL MEAN	6.56	6.74	9.17
HIGHEST ANNUAL MEAN			17.2
LOWEST ANNUAL MEAN			3.18
HIGHEST DAILY MEAN	108	Sep 18	100
LOWEST DAILY MEAN	.31	Jun 3	.07
ANNUAL SEVEN-DAY MINIMUM	.32	Jun 2	.12
MAXIMUM PEAK FLOW			128
MAXIMUM PEAK STAGE			9.77
INSTANTANEOUS LOW FLOW			.06
ANNUAL RUNOFF (AC-FT)	4770	4880	6650
10 PERCENT EXCEEDS	18	16	20
50 PERCENT EXCEEDS	2.0	2.1	3.4
90 PERCENT EXCEEDS	.66	.64	.56

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. (Corrected).

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.--Records good except for estimated daily discharges, which are poor.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.49	7.83	7.06	7.55	7.00	6.37	6.15	7.07	6.53	7.07	8.51	8.22
2	9.27	7.79	7.06	7.52	6.99	6.35	6.28	7.07	6.50	7.08	8.67	8.20
3	9.34	7.76	7.06	7.51	6.99	6.33	6.35	7.06	6.47	7.06	9.54	8.30
4	9.68	7.71	7.06	7.50	6.98	6.33	6.46	7.05	6.47	7.08	9.28	8.55
5	9.81	7.67	7.05	7.51	6.98	6.37	6.63	7.03	6.67	7.10	8.96	8.66
6	9.57	7.63	7.04	7.54	6.98	6.35	e7.09	6.98	6.96	7.10	8.74	8.53
7	9.28	7.59	7.04	7.58	6.96	6.34	e7.10	6.93	7.03	7.09	8.57	8.54
8	8.98	7.54	7.04	7.57	6.87	6.34	e7.11	6.89	7.04	7.08	8.45	8.62
9	8.75	7.49	7.04	7.50	6.76	6.34	e7.12	6.85	7.03	7.08	8.35	8.69
10	8.51	7.46	7.10	7.58	6.64	6.35	7.13	6.81	7.01	7.12	8.31	10.90
11	8.38	7.41	7.52	7.62	6.53	6.36	7.11	6.77	6.98	7.14	8.54	11.26
12	8.29	7.37	7.45	7.65	6.44	6.35	7.08	6.72	6.96	7.11	8.56	11.36
13	8.25	7.34	7.34	7.63	6.45	6.34	7.07	6.68	6.93	7.10	8.49	11.92
14	8.21	7.42	7.43	7.64	6.48	6.33	7.07	6.64	6.89	7.15	8.53	13.42
15	8.18	7.85	7.41	7.67	6.43	6.33	7.08	6.60	6.84	7.17	8.52	13.41
16	8.14	7.79	7.40	7.62	6.36	6.33	7.08	6.56	6.81	7.18	8.49	13.08
17	8.11	7.54	7.37	7.46	6.33	6.33	7.08	6.53	6.81	7.17	8.33	12.71
18	8.08	7.35	7.32	7.25	6.38	6.32	7.08	6.50	6.95	7.17	8.26	12.30
19	8.06	7.46	7.49	7.06	6.43	6.35	7.07	6.47	7.03	7.17	8.31	12.05
20	8.04	7.71	7.51	7.03	6.46	6.47	7.07	6.45	7.04	7.19	8.28	11.76
21	8.03	7.61	7.53	7.02	6.48	6.48	7.06	6.41	7.04	7.20	8.24	11.34
22	8.01	7.36	7.57	7.02	6.49	6.47	7.06	6.39	7.06	8.44	8.18	10.92
23	7.98	7.22	7.58	7.02	6.47	6.40	7.05	6.41	7.08	10.55	8.14	10.56
24	7.95	7.40	7.57	7.02	6.43	6.17	7.05	6.43	7.08	10.58	8.13	10.26
25	7.93	7.47	7.52	7.02	6.42	5.93	7.06	6.40	7.07	10.04	8.09	10.13
26	7.91	7.34	7.47	7.01	6.42	5.88	7.06	6.57	7.06	9.44	8.04	9.95
27	7.88	7.20	7.44	7.00	6.40	5.69	7.06	6.61	7.06	9.19	7.96	9.87
28	7.85	7.08	7.48	7.00	6.38	5.56	7.06	6.62	7.06	8.83	7.89	10.25
29	7.84	7.07	7.62	7.00	---	5.64	7.06	6.62	7.06	8.56	7.82	11.79
30	7.83	7.06	7.62	7.00	---	5.82	7.08	6.61	7.06	8.49	7.92	11.84
31	7.83	---	7.58	7.00	---	6.01	---	6.57	---	8.67	8.06	---
TOTAL	261.46	224.52	227.77	227.10	184.93	193.03	208.81	207.30	207.58	242.40	260.16	317.39
MEAN	8.43	7.48	7.35	7.33	6.60	6.23	6.96	6.69	6.92	7.82	8.39	10.58
MAX	9.81	7.85	7.62	7.67	7.00	6.48	7.13	7.07	7.08	10.58	9.54	13.42
MIN	7.83	7.06	7.04	7.00	6.33	5.56	6.15	6.39	6.47	7.06	7.82	8.20

e Estimated

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291580 NORTH BRANCH ESTERO RIVER AT ESTERO, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	2.9	.00	.73	.00	.00	.00	.00	.00	.01	13	9.2
2	29	2.5	.00	.64	.00	.00	.00	.00	.00	.01	17	9.2
3	31	2.2	.00	.59	.00	.00	.00	.00	.00	.00	40	11
4	43	1.9	.00	.56	.00	.00	.00	.00	.00	.01	32	16
5	47	1.5	.00	.59	.00	.00	.00	.00	.00	.02	23	19
6	39	1.3	.00	.70	.00	.00	e.00	.00	.00	.02	18	16
7	31	1.0	.00	.89	.00	.00	e.00	.00	.00	.02	15	17
8	23	.83	.00	.88	.00	.00	e.01	.00	.00	.01	12	19
9	18	.63	.00	.56	.00	.00	e.01	.00	.00	.01	11	21
10	13	.52	.08	.92	.00	.00	.02	.00	.00	.03	9.9	105
11	11	.39	.67	1.1	.00	.00	.01	.00	.00	.04	14	122
12	9.7	.28	.43	1.2	.00	.00	.00	.00	.00	.02	14	128
13	8.9	.22	.19	1.1	.00	.00	.00	.00	.00	.02	13	162
14	8.2	.47	.39	1.2	.00	.00	.00	.00	.00	.04	14	284
15	7.7	3.0	.33	1.4	.00	.00	.00	.00	.00	.06	14	282
16	7.0	2.5	.33	1.1	.00	.00	.00	.00	.00	.06	13	253
17	6.5	.86	.26	.45	.00	.00	.00	.00	.00	.05	10	221
18	6.0	.24	.18	.11	.00	.00	.00	.00	.00	.05	9.2	189
19	5.7	.58	.57	.00	.00	.00	.00	.00	.00	.05	10	171
20	5.4	1.8	.64	.00	.00	.00	.00	.00	.00	.06	9.4	151
21	5.1	1.1	.69	.00	.00	.00	.00	.00	.00	.07	8.8	124
22	4.9	.27	.88	.00	.00	.00	.00	.00	.00	15	7.8	100
23	4.5	.06	.93	.00	.00	.00	.00	.00	.01	82	6.9	82
24	4.1	.37	.85	.00	.00	.00	.00	.00	.01	83	6.8	68
25	3.9	.54	.66	.00	.00	.00	.00	.00	.01	59	6.2	62
26	3.7	.20	.49	.00	.00	.00	.00	.00	.00	37	5.4	55
27	3.4	.06	.40	.00	.00	.00	.00	.00	.00	29	4.4	52
28	3.1	.00	.52	.00	.00	.00	.00	.00	.00	20	3.6	68
29	2.9	.00	1.1	.00	---	.00	.00	.00	.00	14	2.9	153
30	2.9	.00	1.0	.00	---	.00	.00	.00	.00	13	4.0	156
31	2.9	---	.86	.00	---	.00	---	.00	---	17	6.3	---
TOTAL	426.5	28.22	12.45	14.72	0.00	0.00	0.05	0.00	0.03	369.66	374.6	3125.4
MEAN	13.8	.94	.40	.47	.000	.000	.002	.000	.001	11.9	12.1	104
MAX	47	3.0	1.1	1.4	.00	.00	.02	.00	.01	83	40	284
MIN	2.9	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.9	9.2
AC-FT	846	56	25	29	.00	.00	.1	.00	.06	733	743	6200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	MEAN	25.0	8.89	2.79	1.56	3.64	1.53	.18	.034	3.01	8.33	11.7	27.1
MAX	153	59.7	23.6	11.2	49.2	21.0	1.42	.26	24.1	30.8	82.4	104	104
(WY)	1996	1999	1998	1998	1998	1998	1987	1998	1996	1999	1995	2001	2001
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1990	1990	1990	1990	1990	1988	1989	1988	1989	1989	1989	1989	1989

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1987 - 2001

ANNUAL TOTAL		2139.40		4351.63						8.04			
ANNUAL MEAN		5.85		11.9						.000			1990
HIGHEST ANNUAL MEAN										17.9			1995
LOWEST ANNUAL MEAN										.000			1990
HIGHEST DAILY MEAN		204	Sep 18	284	Sep 14	366	Aug 26	1995					
LOWEST DAILY MEAN		.00	Jan 1	.00	Nov 28	.00	May 24	1987					
ANNUAL SEVEN-DAY MINIMUM		.00	Jan 1	.00	Nov 28	.00	May 29	1987					
MAXIMUM PEAK FLOW				310	Sep 14	381	Aug 25	1995					
MAXIMUM PEAK STAGE				13.70	Sep 14	14.41	Aug 25	1995					
INSTANTANEOUS LOW FLOW				.00	Jan 18	.00	May 24	1987					
ANNUAL RUNOFF (AC-FT)		4240		8630		5820							
10 PERCENT EXCEEDS		12		23		16							
50 PERCENT EXCEEDS		.00		.02		.01							
90 PERCENT EXCEEDS		.00		.00		.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.

02291597 SOUTH BRANCH ESTERO RIVER AT ESTERO, FL

LOCATION.--Lat 26°25'43", long 81°47'36", in NW ¼ 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.--Records fair except for estimated daily discharges, which are poor.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 12 complete water years of discharge (1989-98, 2000-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.02	e3.12	3.01	2.96	2.91	2.86	3.07	2.87	2.84	e3.07	3.80	3.81
2	4.60	3.11	3.01	2.96	2.91	2.86	3.03	2.87	2.84	e3.06	4.23	4.00
3	4.35	3.11	3.01	2.96	2.90	2.86	3.00	2.87	2.84	3.05	5.30	4.14
4	4.59	3.12	3.00	2.95	2.90	2.87	2.99	2.87	2.86	3.06	5.06	4.95
5	4.71	3.14	3.00	2.94	2.90	2.86	3.01	2.86	2.93	3.04	4.70	5.21
6	4.55	3.14	3.00	2.95	2.90	2.85	e3.11	2.86	2.91	3.04	4.49	4.84
7	4.34	3.13	3.00	2.94	2.89	2.86	e3.08	2.85	2.90	3.03	4.60	4.53
8	4.13	3.13	3.00	2.93	2.89	2.86	e3.05	2.85	2.88	3.02	4.34	4.32
9	3.94	3.12	2.99	2.94	2.89	2.86	3.01	2.85	2.87	3.01	4.10	4.28
10	3.77	3.10	2.99	2.92	2.88	2.86	2.99	2.85	2.86	3.06	3.93	6.21
11	3.66	3.09	3.00	2.94	2.88	2.86	2.98	2.84	2.86	3.09	4.05	6.12
12	3.56	3.08	3.00	2.92	2.88	2.86	2.96	2.84	2.85	3.07	4.47	6.04
13	3.51	3.08	2.99	2.92	2.88	2.86	2.95	2.84	2.85	3.06	4.79	6.51
14	3.48	3.08	2.98	2.92	2.88	2.86	2.95	2.84	2.84	3.16	5.09	8.76
15	3.43	3.08	2.98	2.92	2.88	2.86	2.94	2.84	2.84	3.31	4.45	8.41
16	3.36	3.07	2.97	2.92	2.87	2.86	2.94	2.84	2.83	3.46	4.10	7.78
17	3.33	3.07	2.97	2.92	2.87	2.86	2.93	2.84	2.84	3.52	3.90	7.15
18	3.30	3.07	2.96	2.93	2.87	2.86	2.91	2.84	2.87	3.83	3.74	6.63
19	3.27	3.06	2.97	2.92	2.87	2.88	2.90	2.84	2.90	3.84	3.72	7.05
20	3.25	3.07	2.97	2.92	2.87	2.89	2.89	2.84	e2.93	3.89	3.64	7.77
21	3.24	3.06	2.96	2.92	2.87	2.87	2.89	2.84	e2.99	4.00	3.62	7.14
22	3.22	3.05	2.96	2.92	2.86	2.86	2.88	2.85	e3.06	4.94	3.63	6.46
23	3.21	3.05	2.95	2.91	2.86	2.87	2.87	2.86	e3.07	6.20	3.53	5.84
24	3.20	3.05	2.95	2.91	2.86	2.87	2.86	2.86	e3.07	6.55	3.47	5.21
25	3.19	3.05	2.94	2.91	2.86	2.86	2.86	2.86	e3.08	5.77	3.44	4.81
26	3.18	3.05	2.94	2.90	2.86	2.86	2.86	2.88	e3.07	5.09	3.41	4.54
27	3.17	3.05	2.94	2.90	2.86	2.86	2.86	2.87	e3.08	4.65	3.37	4.47
28	3.16	3.04	2.98	2.90	2.86	2.88	2.86	2.87	e3.07	4.45	3.34	4.74
29	3.15	3.03	2.99	2.91	---	2.89	2.86	2.85	e3.07	4.22	3.32	6.45
30	3.14	3.02	2.98	2.92	---	e2.96	2.87	2.85	e3.07	4.02	3.41	6.29
31	3.13	---	2.97	2.92	---	3.07	---	2.84	---	3.83	3.55	---
TOTAL	113.14	92.42	92.36	90.70	80.61	89.10	88.36	88.43	87.97	118.39	124.59	174.46
MEAN	3.65	3.08	2.98	2.93	2.88	2.87	2.95	2.85	2.93	3.82	4.02	5.82
MAX	5.02	3.14	3.01	2.96	2.91	3.07	3.11	2.88	3.08	6.55	5.30	8.76
MIN	3.13	3.02	2.94	2.90	2.86	2.85	2.86	2.84	2.83	3.01	3.32	3.81

e Estimated

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291597 SOUTH BRANCH ESTERO RIVER AT ESTERO, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	e2.6	.97	.90	.76	.44	1.2	.18	.28	e3.5	9.8	13
2	46	2.5	.94	.93	.78	.45	.97	.19	.28	e1.6	24	19
3	35	2.4	.89	.94	.75	.44	.82	.19	.28	1.6	64	24
4	46	2.4	.87	.94	.75	.47	.79	.20	.34	1.7	57	55
5	51	2.6	.85	.92	.73	.45	.89	.19	.73	1.5	45	64
6	45	2.6	.80	.99	.68	.42	e1.4	.18	.50	1.4	36	52
7	36	2.5	.80	.95	.67	.44	e1.2	.18	.47	1.2	41	40
8	28	2.4	.76	.97	.66	.43	e1.0	.19	.42	1.0	30	31
9	21	2.3	.73	1.0	.64	.40	.79	.19	.41	.87	21	29
10	16	2.1	.73	.97	.61	.41	.69	.19	.39	1.0	16	103
11	13	2.0	.74	1.1	.60	.42	.64	.18	.38	1.1	20	99
12	11	1.9	.72	.95	.60	.42	.59	.19	.37	.91	36	96
13	9.8	1.9	.66	.94	.59	.42	.52	.19	.38	.80	49	115
14	8.9	1.9	.60	.92	.56	.42	.50	.18	.37	1.3	59	225
15	7.9	1.8	.62	.91	.56	.41	.48	.18	.36	2.6	35	205
16	6.7	1.8	.63	.92	.55	.41	.45	.20	.34	3.5	22	174
17	6.0	1.7	.63	.91	.55	.40	.40	.20	.37	4.3	15	144
18	5.5	1.6	.63	.93	.54	.40	.36	.20	.52	8.7	11	121
19	4.9	1.6	.67	.92	.54	.45	.33	.21	.60	8.5	11	142
20	4.6	1.6	.68	.92	.54	.47	.30	.23	e.68	9.2	8.9	173
21	4.4	1.5	.67	.89	.52	.42	.28	.23	e1.0	11	8.7	144
22	4.1	1.4	.68	.85	.49	.40	.26	.24	e1.5	44	9.0	114
23	3.9	1.4	.69	.84	.48	.42	.22	.27	e1.6	95	7.1	88
24	3.7	1.3	.69	.80	.48	.40	.21	.29	e1.5	110	6.1	66
25	3.6	1.3	.70	.80	.48	.36	.20	.28	e1.6	76	5.6	52
26	3.4	1.3	.68	.77	.48	.37	.20	.32	e1.6	51	5.0	42
27	3.2	1.3	.73	.76	.48	.36	.18	.31	e1.6	34	4.5	39
28	3.1	1.2	.91	.76	.47	.42	.18	.33	e1.6	26	4.1	50
29	3.0	1.1	1.0	.79	---	.45	.18	.29	e1.6	19	3.9	113
30	2.8	.99	.93	.83	---	e.69	.18	.28	e1.7	14	5.1	107
31	2.8	---	.94	.80	---	1.2	---	.28	---	9.8	7.5	---
TOTAL	501.3	54.99	23.54	27.82	16.54	14.06	16.41	6.96	23.77	546.08	677.3	2739
MEAN	16.2	1.83	.76	.90	.59	.45	.55	.22	.79	17.6	21.8	91.3
MAX	61	2.6	1.0	1.1	.78	1.2	1.4	.33	1.7	110	64	225
MIN	2.8	.99	.60	.76	.47	.36	.18	.18	.28	.80	3.9	13
AC-FT	994	109	47	55	33	28	33	14	47	1080	1340	5430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	32.5	12.4	4.23	3.08	5.27	3.42	1.26	.73	6.22	18.7	30.7	42.5			
MAX	220	59.5	28.6	13.6	57.5	31.5	8.66	4.69	29.8	60.7	126	142			
(WY)	1996	1999	1998	1998	1998	1998	1987	1987	1996	1992	1995	1995			
MIN	4.87	.61	.30	.29	.10	.10	.067	.015	.17	.85	2.60	4.91			
(WY)	1989	1993	1991	1997	1997	1997	2000	2000	1988	2000	1989	1990			

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1987 - 2001

ANNUAL TOTAL	3384.62	4647.77		
ANNUAL MEAN	9.25	12.7	13.0	
HIGHEST ANNUAL MEAN			33.6	1995
LOWEST ANNUAL MEAN			2.03	1989
HIGHEST DAILY MEAN	147	Sep 18	225	Sep 14
LOWEST DAILY MEAN	.00	May 8	.18	Apr 27
ANNUAL SEVEN-DAY MINIMUM	.00	May 8	.18	Apr 27
MAXIMUM PEAK FLOW			264	Sep 14
MAXIMUM PEAK STAGE			9.49	Sep 14
INSTANTANEOUS LOW FLOW			.15	Apr 29
ANNUAL RUNOFF (AC-FT)	6710	9220	9410	
10 PERCENT EXCEEDS	22	44	38	
50 PERCENT EXCEEDS	.76	.93	1.9	
90 PERCENT EXCEEDS	.04	.28	.18	

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.

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.

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 poor. 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 1999-2001 represent only flow over the top of the weir. Daily value discharge during water years 1999-2001 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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 9 complete water years of discharge (1989-90, 1992-98).

REVISIONS.--Discharge for water year 2000 has been revised based on an evaluation of the high end of the rating used, which produced higher discharge than warranted.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14	.00	.00	.00	.00	.00	.00	.00	.00	53	56
2	---	41	.00	.00	.00	.00	.00	.00	.00	.00	48	61
3	---	53	.00	.00	.00	.00	.00	.00	.00	.00	46	62
4	---	53	.00	.00	.00	.00	.00	.00	.00	.00	45	62
5	---	53	.00	.00	.00	.00	.00	.00	.00	.00	55	55
6	---	52	.00	.00	.00	.00	.00	.00	.00	.00	97	45
7	---	48	.00	.00	.00	.00	.00	.00	.00	.00	105	44
8	---	42	.00	.00	.00	.00	.00	.00	.00	.00	95	44
9	---	38	.00	.00	.00	.00	.00	.00	.00	.00	81	41
10	---	34	.00	.00	.00	.00	.00	.00	.00	.00	73	38
11	---	31	.00	.00	.00	.00	.00	.00	.00	.00	64	33
12	---	29	.00	.00	.00	.00	.00	.00	.00	.00	54	29
13	---	24	.00	.00	.00	.00	---	.00	.00	.00	46	27
14	---	21	.00	.00	.00	.00	---	.00	.00	.00	38	22
15	---	20	.00	.00	.00	.00	.00	.00	.00	.00	27	21
16	---	18	.00	.00	.00	.00	.00	.00	.00	.00	25	22
17	---	17	.00	.00	.00	.00	.00	.00	.00	.00	23	83
18	---	14	.00	.00	.00	.00	.00	.00	.00	.00	20	---
19	---	12	.00	.00	.00	.00	.00	.00	.00	.00	18	---
20	---	10	.00	.00	.00	.00	.00	.00	.00	.00	18	---
21	---	9.0	.00	.00	.00	.00	.00	.00	.00	.00	18	---
22	---	6.6	.00	.00	.00	.00	.00	.00	.00	.00	20	---
23	40	3.8	.00	.00	.00	.00	.00	.00	.00	.00	25	---
24	40	1.5	.00	.00	.00	.00	.00	.00	.00	.00	31	---
25	35	.74	.00	.00	.00	.00	.00	.00	.00	.00	33	---
26	31	.45	.00	.00	.00	.00	.00	.00	.00	.00	33	---
27	28	.08	.00	.00	.00	.00	.00	.00	.00	.00	40	---
28	25	.00	.00	.00	.00	.00	.00	.00	.00	14	48	---
29	22	.00	.00	.00	.00	.00	.00	.00	.00	40	43	---
30	19	.00	.00	.00	---	---	.00	.00	.00	63	56	---
31	15	---	.00	.00	---	---	.00	.00	---	65	55	---
TOTAL	255	646.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.00	1433	745
MEAN	28.3	21.5	.000	.000	.000	.000	.000	.000	.000	5.87	46.2	43.8
MAX	40	53	.00	.00	.00	.00	.00	.00	.00	65	105	83
MIN	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	18	21
AC-FT	506	1280	.00	.00	.00	.00	.00	.00	.00	361	2840	1480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	49.6	8.63	3.05	4.07	3.24	5.64	.50	.030	7.20	27.3	78.1	70.8
MAX	216	38.0	22.7	18.6	23.2	48.5	5.04	.31	42.1	153	195	238
(WY)	1996	1996	1998	1998	1998	1998	1998	1994	1992	1992	1995	1995
MIN	2.45	.000	.000	.000	.000	.000	.000	.000	.000	.079	2.79	26.3
(WY)	1990	1993	1990	1989	1989	1990	1988	1988	1988	1988	1993	1997

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1987 - 2000

ANNUAL MEAN										23.3		
HIGHEST ANNUAL MEAN										47.2		1995
LOWEST ANNUAL MEAN										6.84		1993
HIGHEST DAILY MEAN				96	Aug 8		105	Aug 7		860		Aug 27 1995
LOWEST DAILY MEAN				.00	Feb 13		.00	Nov 28		.00		Jan 17 1988
ANNUAL SEVEN-DAY MINIMUM				.00	Feb 13		.00	Nov 28		.00		Feb 25 1988
MAXIMUM PEAK STAGE							11.42	Sep 18		12.12		Aug 27 1995
ANNUAL RUNOFF (AC-FT)										16910		
10 PERCENT EXCEEDS				33			43			54		
50 PERCENT EXCEEDS				.00			.00			.00		
90 PERCENT EXCEEDS				.00			.00			.00		

REVISED

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291669 SIXMILE CYPRESS CREEK NORTH NEAR FORT MYERS, FL

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.75	10.45	5.51	5.51	5.52	5.42	5.57	5.43	4.83	5.63	6.53	11.10
2	7.97	10.18	5.51	5.51	5.52	5.42	5.56	5.42	4.82	5.62	6.50	11.14
3	6.42	9.81	5.51	5.51	5.50	5.42	5.55	5.42	4.80	5.61	e7.40	11.26
4	5.94	9.32	5.49	5.51	5.49	5.43	5.53	5.40	4.77	5.61	e7.50	11.27
5	6.46	8.78	5.49	5.51	5.48	5.46	5.54	5.38	4.77	5.61	e7.61	11.32
6	6.67	8.27	5.49	5.51	5.48	5.46	5.57	5.37	4.82	5.61	e7.40	11.30
7	7.09	7.74	5.49	5.51	5.48	5.47	5.55	5.34	4.87	5.59	e7.23	11.21
8	6.99	7.10	5.50	5.51	5.48	5.47	5.54	5.30	4.89	5.58	6.98	11.11
9	6.41	6.45	5.50	5.49	5.47	5.47	5.54	5.26	4.91	5.58	6.64	11.26
10	5.81	6.06	5.50	5.49	5.47	5.47	5.53	5.23	4.93	5.58	6.30	11.43
11	5.35	5.87	5.51	5.50	5.48	5.46	5.53	5.21	4.93	5.61	6.17	11.05
12	4.97	5.73	5.51	5.50	5.48	5.46	5.53	5.17	4.92	5.61	6.29	10.35
13	5.59	5.65	5.50	5.49	5.47	5.45	5.52	5.14	4.90	5.61	6.37	9.95
14	6.20	5.60	5.50	5.49	5.47	5.44	5.52	5.11	4.88	5.63	6.24	10.96
15	6.02	5.57	5.51	5.50	5.47	5.43	5.52	5.07	4.85	5.66	9.21	11.07
16	5.89	5.55	5.50	5.50	5.47	5.42	5.51	5.04	4.86	5.70	11.27	11.06
17	8.43	5.56	5.49	5.50	5.47	5.42	5.51	5.00	4.86	5.65	11.25	10.89
18	11.00	5.56	5.48	5.50	5.46	5.41	5.51	4.96	4.88	5.63	11.24	10.15
19	10.99	5.55	5.49	5.50	5.45	5.46	5.51	4.93	5.05	5.63	11.22	8.95
20	10.98	5.56	5.47	5.50	5.44	5.54	5.50	4.89	5.37	5.82	11.39	8.14
21	10.97	5.55	5.49	5.50	5.44	5.54	5.49	4.87	5.49	6.02	11.32	7.76
22	10.96	5.54	5.50	5.50	5.44	5.54	5.49	4.84	5.54	8.13	11.24	7.43
23	10.95	5.54	5.50	5.49	5.44	5.52	5.49	4.84	5.56	11.17	11.17	7.05
24	10.94	5.53	5.50	5.50	5.44	5.50	5.49	4.84	5.57	10.85	11.17	6.67
25	10.94	5.53	5.49	5.49	5.44	5.50	5.48	4.84	5.56	11.11	11.19	6.24
26	10.93	5.53	5.48	5.49	5.43	5.50	5.48	4.87	5.58	11.14	11.15	8.94
27	10.92	5.53	5.49	5.49	5.43	5.49	5.45	4.87	5.59	10.57	11.11	11.28
28	10.90	5.53	5.52	5.50	5.43	5.49	5.44	4.87	5.59	9.34	11.09	11.30
29	10.87	5.54	5.52	5.50	---	5.50	5.44	4.87	5.61	8.33	11.10	11.40
30	10.81	5.53	5.51	5.53	---	5.57	5.44	4.87	5.62	7.57	11.12	11.44
31	10.67	---	5.52	5.53	---	5.58	---	4.85	---	6.94	11.12	---
TOTAL	263.79	195.71	170.47	170.56	153.04	169.71	165.33	157.50	153.62	213.74	283.52	304.48
MEAN	8.51	6.52	5.50	5.50	5.47	5.47	5.51	5.08	5.12	6.89	9.15	10.15
MAX	11.00	10.45	5.52	5.53	5.52	5.58	5.57	5.43	5.62	11.17	11.39	11.44
MIN	4.97	5.53	5.47	5.49	5.43	5.41	5.44	4.84	4.77	5.58	6.17	6.24

e Estimated

02291669 SIXMILE CYPRESS CREEK NORTH NEAR FORT MYERS, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	61
2	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	84
3	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	146
4	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	151
5	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	182
6	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	171
7	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
8	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
9	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
10	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
11	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
12	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
13	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
14	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
15	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	80	---
16	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	153	---
17	4.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	140	---
18	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	134	---
19	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	121	---
20	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	229	---
21	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	182	---
22	9.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	131	---
23	9.0	.00	.00	.00	.00	.00	.00	.00	.00	---	97	---
24	7.6	.00	.00	.00	.00	.00	.00	.00	.00	---	95	---
25	7.0	.00	.00	.00	.00	.00	.00	.00	.00	---	104	---
26	6.1	.00	.00	.00	.00	.00	.00	.00	.00	---	84	79
27	4.2	.00	.00	.00	.00	.00	.00	.00	.00	---	64	157
28	2.7	.00	.00	.00	.00	.00	.00	.00	.00	---	53	169
29	1.1	.00	.00	.00	---	.00	.00	.00	.00	---	60	233
30	.23	.00	.00	.00	---	.00	.00	.00	.00	---	67	267
31	.00	---	.00	.00	---	.00	---	.00	---	---	73	---
TOTAL	111.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1867	1700
MEAN	7.45	.000	.000	.000	.000	.000	.000	.000	.000	.000	110	155
MAX	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	229	267
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	53	61
AC-FT	222	.00	.00	.00	.00	.00	.00	.00	.00	.00	3700	3370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	MEAN	49.6	8.01	2.80	3.73	2.99	5.17	.46	.027	6.60	27.3	78.9	70.8
MAX	216	38.0	22.7	18.6	23.2	48.5	5.04	.31	42.1	153	195	238	
(WY)	1996	1996	1998	1998	1998	1998	1998	1994	1992	1992	1995	1995	
MIN	2.45	.000	.000	.000	.000	.000	.000	.000	.000	.079	2.79	26.3	
(WY)	1990	1993	1990	1989	1989	1990	1988	1988	1988	1988	1993	1997	

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1987 - 2001
ANNUAL MEAN			23.3
HIGHEST ANNUAL MEAN			47.2
LOWEST ANNUAL MEAN			6.84
HIGHEST DAILY MEAN	105	Aug 7	860
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
MAXIMUM PEAK STAGE			11.53
ANNUAL RUNOFF (AC-FT)			16910
10 PERCENT EXCEEDS	36		54
50 PERCENT EXCEEDS	.00		.00
90 PERCENT EXCEEDS	.00		.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.

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

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. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark).

REMARKS.--Records poor. Downstream gage discontinued as of October 1, 1997. Flow can be regulated by two vertical lift gates, one on each side of the control weir. Records of discharge for water years 1999-2001 represent only flow over the top of the weir. Daily value discharge during water years 1999-2001 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 with gate flow included. No

distinctions in flow types prior to water year 1999 have been made.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 9 complete water years of discharge (1990-98).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.88	5.53	5.51	5.51	5.52	5.42	5.56	5.45	4.84	5.62	5.34	5.86
2	5.81	5.53	5.51	5.50	5.51	5.41	5.55	5.43	4.82	5.61	5.74	5.94
3	5.15	5.53	5.51	5.50	5.49	5.40	5.54	5.42	4.80	5.61	6.04	6.18
4	4.44	5.53	5.50	5.50	5.49	5.42	5.54	5.40	4.77	5.60	6.01	6.22
5	5.69	5.53	5.50	5.50	5.48	5.46	5.54	5.38	4.79	5.61	6.06	6.25
6	5.62	5.52	5.50	5.50	5.48	5.48	5.55	5.36	4.86	5.61	6.03	6.22
7	5.75	5.52	5.50	5.50	5.48	5.48	e5.54	5.34	4.92	5.60	5.96	6.53
8	5.61	5.53	5.51	5.50	5.48	5.48	e5.54	5.30	4.95	5.59	5.86	6.39
9	4.65	5.52	5.51	5.49	5.48	5.48	5.53	5.26	4.97	5.58	5.74	6.48
10	3.71	5.52	5.51	5.49	5.48	5.48	5.53	5.23	4.97	5.59	5.66	6.84
11	---	5.52	5.51	5.49	5.48	5.47	5.53	5.20	4.96	5.61	5.62	6.65
12	---	5.51	5.51	5.49	5.48	5.46	5.52	5.16	4.95	5.61	5.65	6.45
13	---	5.51	5.51	5.49	5.47	5.45	5.52	5.13	4.93	5.64	5.71	6.41
14	5.72	5.51	5.51	5.49	5.47	5.44	5.52	5.10	4.91	5.66	5.66	7.20
15	5.70	5.51	5.50	5.49	5.47	5.43	5.52	5.07	4.88	5.68	5.60	6.93
16	5.67	5.51	5.50	5.49	5.47	5.43	5.51	5.05	4.89	5.69	5.58	6.70
17	5.62	5.52	5.49	5.50	5.46	5.42	5.51	5.02	4.90	5.66	5.46	6.51
18	5.62	5.52	5.49	5.51	5.45	5.41	5.49	4.98	4.91	5.64	5.29	6.31
19	5.62	5.51	5.49	5.51	5.44	5.45	5.49	4.94	5.09	5.64	4.95	6.14
20	5.62	5.51	5.48	5.51	5.44	5.54	5.49	4.91	5.42	5.69	5.81	6.05
21	5.61	5.51	5.50	5.50	5.45	5.53	5.49	4.88	5.52	5.72	5.91	5.93
22	5.59	5.51	5.50	5.50	5.45	5.52	5.49	4.85	5.57	6.06	6.00	5.82
23	5.59	5.51	5.49	5.50	5.44	5.51	5.49	4.86	5.58	6.52	5.97	5.68
24	5.58	5.51	5.50	5.50	5.44	5.51	5.49	4.87	5.57	6.55	5.95	5.51
25	5.58	5.51	5.49	5.50	5.44	5.50	5.48	4.85	5.57	6.52	6.05	5.06
26	5.57	5.51	5.49	5.50	5.43	5.50	5.48	4.90	5.60	6.45	5.95	5.22
27	5.55	5.51	5.49	5.50	5.43	5.50	5.45	4.91	5.61	6.34	5.90	6.02
28	5.55	5.52	5.50	5.50	5.43	5.50	5.44	4.91	5.60	6.15	5.86	6.07
29	5.54	5.53	5.51	5.50	---	5.51	5.44	4.90	5.63	5.97	5.86	6.28
30	5.53	5.52	5.51	5.52	---	5.56	5.45	4.89	5.62	5.77	5.93	6.26
31	5.54	---	5.51	5.52	---	5.57	---	4.87	---	5.36	5.91	---
TOTAL	153.11	165.53	170.54	170.50	153.03	169.72	165.22	157.82	154.40	179.95	179.06	186.11
MEAN	5.47	5.52	5.50	5.50	5.47	5.47	5.51	5.09	5.15	5.80	5.78	6.20
MAX	5.88	5.53	5.51	5.52	5.52	5.57	5.56	5.45	5.63	6.55	6.06	7.20
MIN	3.71	5.51	5.48	5.49	5.43	5.40	5.44	4.85	4.77	5.36	4.95	5.06

e Estimated

02291673 TENMILE CANAL AT CONTROL NEAR ESTERO, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10	7.8	5.6	4.7	.21	18	2.6	.00	17	---	141
2	---	9.6	8.2	5.3	4.0	.14	15	1.9	.00	15	---	201
3	---	9.8	8.1	5.1	3.1	.07	14	1.3	.00	14	---	383
4	---	10	6.6	5.2	2.8	.49	14	.79	.00	14	---	414
5	---	9.8	6.7	4.9	2.4	1.1	15	.41	.00	14	---	436
6	---	9.3	6.8	5.2	2.3	1.7	16	.13	.00	14	---	427
7	---	9.4	6.8	4.9	2.3	1.7	e14	.00	.00	13	---	---
8	---	10	7.6	4.9	2.2	1.7	e14	.00	.00	13	---	---
9	---	9.3	7.3	4.3	2.1	1.6	13	.00	.00	13	---	---
10	---	9.0	7.3	4.0	2.2	1.6	12	.00	.00	15	---	---
11	---	8.4	7.7	4.1	2.2	1.3	11	.00	.00	19	---	---
12	---	8.3	7.6	3.5	2.0	1.0	11	.00	.00	21	---	---
13	---	8.2	7.5	3.3	2.0	.71	10	.00	.00	27	---	---
14	60	8.1	7.5	3.4	1.8	.57	10	.00	.00	33	---	---
15	52	7.9	7.2	3.4	1.7	.42	9.7	.00	.00	46	---	---
16	43	7.9	6.7	3.5	1.6	.28	9.0	.00	.00	47	---	---
17	29	8.7	6.3	4.1	1.5	.25	8.4	.00	.00	39	---	---
18	30	8.5	5.7	4.6	1.1	.13	6.9	.00	.00	34	---	---
19	29	7.8	5.7	4.6	.71	4.9	7.0	.00	.00	35	---	---
20	29	7.9	5.0	4.6	.51	14	6.9	.00	1.4	54	---	---
21	26	7.4	5.7	4.0	.65	12	6.8	.00	4.9	68	185	---
22	23	8.2	5.8	4.0	.67	11	6.6	.00	11	297	247	---
23	23	8.0	5.3	4.1	.57	10	6.1	.00	12	---	216	---
24	21	7.8	5.4	4.2	.49	10	5.4	.00	10	---	203	---
25	19	7.8	4.8	4.0	.44	9.6	5.1	.00	9.7	---	288	---
26	16	7.9	5.0	4.1	.41	9.0	4.7	.00	14	---	207	---
27	14	7.9	4.9	3.7	.37	8.8	3.0	.00	16	---	163	263
28	12	9.2	6.3	3.4	.32	8.6	2.4	.00	15	---	140	307
29	11	10	6.7	3.5	---	10	2.3	.00	19	---	144	462
30	10	9.2	6.8	5.2	---	19	2.6	.00	17	---	188	446
31	11	---	7.2	5.2	---	20	---	.00	---	---	175	---
TOTAL	458	261.3	204.0	133.9	47.14	161.87	279.9	7.13	130.00	862	2156	3480
MEAN	25.4	8.71	6.58	4.32	1.68	5.22	9.33	.23	4.33	39.2	196	348
MAX	60	10	8.2	5.6	4.7	20	18	2.6	19	297	288	462
MIN	10	7.4	4.8	3.3	.32	.07	2.3	.00	.00	13	140	141
AC-FT	908	518	405	266	94	321	555	14	258	1710	4280	6900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	137	29.7	20.1	22.5	27.1	18.2	5.88	9.39	58.9	149	228	241		
MAX	603	118	131	65.8	186	136	14.6	107	212	676	555	827		
(WY)	1996	1994	1998	1998	1998	1998	1994	1991	1991	1991	1990	1995		
MIN	14.7	2.84	.91	.020	.000	1.85	.000	.000	1.20	3.90	35.3	67.2		
(WY)	1989	1990	1991	1989	1989	1990	1999	1988	1988	1988	1993	1997		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL MEAN										90.4				
HIGHEST ANNUAL MEAN										165				1995
LOWEST ANNUAL MEAN										29.6				1993
HIGHEST DAILY MEAN				2170	Sep 18		462	Sep 29		2170			Sep 18	2000
LOWEST DAILY MEAN				.00	Jan 17		.00	May 7		.00			Apr 15	1988
ANNUAL SEVEN-DAY MINIMUM				.00	Apr 28		.00	May 7		.00			Apr 15	1988
MAXIMUM PEAK STAGE							7.55	Sep 14		8.34			Aug 26	1995
ANNUAL RUNOFF (AC-FT)										65510				
10 PERCENT EXCEEDS				93			37			200				
50 PERCENT EXCEEDS				7.9			6.6			11				
90 PERCENT EXCEEDS				.00			.00			.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.

CALOOSAHATCHEE RIVER

02292000 CALOOSAHATCHEE CANAL AT MOORE HAVEN, FL

LOCATION.--Lat 26°50'22", long 81°05'15", in NW ¼ NW ¼ sec.12, T.42 S., R.32 E., Glades County, Hydrologic Unit 03090205, on the west side of the lock structure approximately 75 ft north of lock control house, 0.1 mi west of control structure 77, 0.45 mi upstream from U.S. Highway 27, and 15 mi upstream from lock 2.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May to September 1913 (discharge measurements), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1938, published as Threemile Canal near Ritta.

REVISED RECORDS.--WDR FL-98-2A:1996-97

GAGE.--U.S. Army Corps of Engineers owned and operated satellite data collection platform with water-stage shaft encoders. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to January 17, 1952, at site 0.5 mi downstream, at datum 1.44 ft lower. January 17, 1952 to September 30, 1966, at site 0.5 mi downstream at present datum. October 1938 to September 1966, auxiliary water-stage recorder 0.2 mi upstream from Lake Hicpochee and 3.0 mi downstream. Since October 1966, auxiliary water-stage recorder on upstream side of hurricane gate structure and lock 1. U.S. Geological Survey satellite data collection platform removed October 19, 1998.

REMARKS.--Records poor. Flow regulated by operation of control structure S-77 at Lake Okeechobee. Gage height and discharge records revised October 1995 through September 1997, except 1996 canal gage height, based upon new elevation for lake and canal measuring point. Revised records are available in the files of the U.S. Geological Survey.

COOPERATION.-- Stage, gate-opening and lock operation record provided by U.S. Army Corps of Engineer. ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS--Figures represent 60 complete water years of discharge (1939-96, 1998-2000).

EXTREME LAKE STAGES FOR PERIOD OF RECORD.--Maximum lake gage height, 18.61 ft Oct. 23, 1995; minimum, 7.24 ft present datum, estimated Aug. 8, 1940.

EXTREME LAKE STAGES FOR CURRENT YEAR.--Maximum gage height, 14.50 ft Sept 30; minimum, 8.69 ft May 16.

EXTREME CANAL STAGES FOR PERIOD OF RECORD.--Maximum canal gage height, 16.98 ft present datum, Sept. 27, 1948; minimum, 7.14 ft present datum, estimated Aug. 8, 1940.

EXTREME CANAL STAGES FOR CURRENT YEAR.--Maximum gage height, 12.00 ft Sept. 14; minimum, 8.57 ft May 16.

LAKE
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.14	10.89	10.96	10.79	10.75	9.99	10.35	9.42	9.51	9.56	11.24	11.01
2	10.87	10.93	10.98	10.68	10.64	10.01	10.26	9.29	9.21	9.57	11.34	11.10
3	10.94	10.95	11.14	10.82	10.65	10.10	10.15	9.65	9.21	9.47	11.38	11.11
4	10.88	11.06	10.87	10.66	10.74	10.10	10.01	9.80	9.50	9.28	11.42	11.16
5	11.02	11.01	10.94	10.68	10.68	10.10	10.12	9.90	9.49	9.28	11.41	11.23
6	10.90	11.13	10.83	10.69	10.62	9.99	9.95	9.93	9.64	9.32	e11.48	11.30
7	10.83	10.89	11.00	10.58	10.65	9.87	10.10	9.69	9.76	---	11.55	11.25
8	11.08	10.85	10.79	10.67	10.70	9.69	10.25	9.65	9.63	---	11.39	11.16
9	11.08	10.84	10.97	10.67	10.67	9.80	9.99	9.42	9.50	---	10.94	11.12
10	10.98	10.90	11.01	10.87	10.68	10.06	9.61	9.36	9.45	9.20	10.91	11.18
11	10.84	11.26	10.98	10.95	10.73	10.05	9.64	9.24	9.49	9.29	11.09	11.05
12	10.71	11.48	11.00	10.81	10.57	10.04	9.68	9.35	9.24	9.49	11.16	10.94
13	10.69	11.40	11.07	10.78	10.58	9.99	9.57	9.31	9.26	9.46	11.04	11.02
14	10.90	11.03	11.20	10.86	10.58	9.80	9.43	9.01	9.29	9.59	11.25	11.27
15	11.11	10.64	11.07	10.79	10.65	9.86	9.51	9.09	9.27	9.97	11.12	11.18
16	11.03	10.80	11.15	10.72	10.37	9.59	9.40	8.75	9.27	10.65	11.14	11.03
17	10.77	10.87	11.16	10.81	10.35	9.77	9.25	8.88	9.15	10.92	11.05	11.01
18	11.05	10.98	11.17	10.89	10.35	10.18	9.15	8.80	9.17	10.62	11.06	11.03
19	10.94	11.08	10.98	10.79	10.40	10.36	9.35	8.92	9.25	10.38	10.97	10.92
20	11.03	11.06	10.55	10.70	10.41	10.40	9.64	8.98	9.29	10.39	11.01	11.05
21	11.11	11.18	10.78	10.82	10.26	10.27	9.82	8.81	9.42	10.35	10.96	---
22	11.02	11.07	10.93	10.88	10.20	10.07	9.98	8.87	9.57	10.49	10.98	---
23	11.03	10.89	11.00	10.90	10.19	9.96	9.55	8.89	9.63	10.57	10.97	---
24	11.05	11.02	11.04	10.95	10.49	9.84	9.62	8.96	9.59	11.01	10.99	11.07
25	11.08	10.72	11.08	10.99	10.51	9.95	9.44	9.09	9.58	11.16	11.00	11.14
26	10.97	10.99	11.23	10.86	10.29	9.78	9.54	9.07	9.76	11.31	11.03	10.87
27	10.81	11.09	10.98	10.71	10.10	9.56	9.66	9.11	10.45	11.37	11.06	10.71
28	10.95	10.80	10.80	10.83	9.99	9.74	9.58	9.23	10.05	11.26	11.05	10.62
29	11.12	10.85	10.67	10.83	---	9.98	9.72	9.23	9.87	11.18	11.03	10.62
30	11.10	11.17	10.71	10.78	---	10.14	9.71	9.20	9.88	11.10	10.99	11.12
31	10.90	---	10.74	10.71	---	10.27	---	9.24	---	11.12	11.00	---
TOTAL	339.93	329.83	339.78	334.47	293.80	309.31	292.03	286.14	285.38	287.36	345.01	298.27
MEAN	10.97	10.99	10.96	10.79	10.49	9.98	9.73	9.23	9.51	10.26	11.13	11.05
MAX	11.14	11.48	11.23	10.99	10.75	10.40	10.35	9.93	10.45	11.37	11.55	11.30
MIN	10.69	10.64	10.55	10.58	9.99	9.56	9.15	8.75	9.15	9.20	10.91	10.62

e Estimated

CALOOSAHATCHEE RIVER

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02292000 CALOOSAHATCHEE CANAL AT MOORE HAVEN, FL

CANAL
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.13	12.11	11.58	11.01	10.82	10.29	10.11	9.78	9.16	9.43	11.19	e11.95
2	12.20	12.08	11.51	11.23	10.89	10.24	10.42	9.54	9.13	9.36	11.37	e12.01
3	12.19	12.03	11.58	11.14	11.05	10.17	10.32	9.69	9.11	9.40	11.29	e11.99
4	11.93	12.02	11.69	10.89	10.84	10.09	10.17	9.87	9.26	9.20	11.28	e12.00
5	12.13	11.95	11.59	10.74	10.81	9.96	10.36	9.85	9.40	9.16	11.36	e12.01
6	12.19	11.97	11.43	10.74	10.84	10.06	10.42	9.87	9.51	9.20	e11.43	e11.99
7	12.30	11.98	11.47	10.67	10.83	10.03	10.26	9.69	9.57	---	e11.47	e12.02
8	12.39	11.98	11.34	10.72	10.96	10.22	10.21	9.74	9.48	---	e11.40	e12.10
9	12.82	11.82	11.40	10.71	10.83	10.02	10.12	9.49	9.40	---	e11.40	e12.16
10	12.52	11.68	11.42	10.93	10.79	10.24	10.09	9.41	9.35	9.09	e11.44	e12.30
11	12.43	11.80	11.37	10.98	10.82	10.17	9.89	9.32	9.36	9.10	e11.50	e12.45
12	12.47	11.88	11.36	10.79	10.78	10.12	10.09	9.36	9.20	9.23	e11.56	e12.64
13	12.36	11.83	11.40	10.92	10.83	9.79	9.84	9.31	9.19	9.26	e11.58	e12.81
14	12.25	11.66	11.43	10.94	10.73	9.97	9.85	9.08	9.25	9.39	e11.57	e12.56
15	12.29	11.87	11.44	10.91	10.69	9.97	9.84	9.14	9.24	9.76	11.60	e12.80
16	12.23	11.76	11.40	10.92	10.57	9.81	9.57	8.79	9.23	10.09	11.68	e13.25
17	12.14	11.54	11.14	10.87	10.46	10.11	9.78	8.87	9.13	10.25	11.71	e13.36
18	12.12	11.74	11.26	10.86	11.05	10.48	9.91	8.83	9.15	10.28	11.73	13.44
19	12.18	11.49	11.07	10.78	10.85	10.47	9.89	8.92	9.25	10.20	11.75	13.46
20	12.15	11.72	11.03	10.68	10.77	9.96	9.72	8.97	9.23	10.22	11.73	13.51
21	12.24	11.90	11.19	11.05	10.61	9.90	9.89	8.84	9.14	10.23	11.78	e13.60
22	12.36	11.72	11.25	10.93	10.56	10.06	10.03	8.85	9.13	10.30	11.92	e13.68
23	12.38	11.34	11.42	10.65	10.57	10.19	9.68	8.85	9.18	10.38	11.98	e13.74
24	12.33	11.47	11.42	10.81	10.68	10.21	9.67	9.08	9.18	10.78	11.94	13.67
25	12.21	11.46	11.43	10.81	10.60	9.99	9.50	9.03	9.19	10.88	11.92	13.68
26	12.13	11.49	11.31	10.93	10.51	10.15	9.70	9.01	9.34	10.98	e12.08	13.80
27	12.07	11.59	11.20	10.84	10.47	10.41	9.77	9.03	9.87	11.00	e12.06	13.86
28	12.04	11.60	10.88	10.88	10.18	10.36	9.65	9.12	9.86	10.99	e12.00	13.87
29	12.03	11.55	10.90	10.88	---	10.17	9.76	9.11	9.52	11.00	e11.97	14.15
30	12.03	11.64	10.80	10.72	---	10.28	9.77	9.09	9.50	10.97	e11.97	14.19
31	12.12	---	10.94	10.74	---	9.98	---	9.01	---	11.03	e11.92	---
TOTAL	379.36	352.67	350.65	336.67	300.39	313.87	298.28	286.54	279.51	281.16	361.58	389.05
MEAN	12.24	11.76	11.31	10.86	10.73	10.12	9.94	9.24	9.32	10.04	11.66	12.97
MAX	12.82	12.11	11.69	11.23	11.05	10.48	10.42	9.87	9.87	11.03	12.08	14.19
MIN	11.93	11.34	10.80	10.65	10.18	9.79	9.50	8.79	9.11	9.09	11.19	11.95

e Estimated

02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK NEAR LA BELLE, FL

LOCATION.--Lat 26°47'22", long 81°18'11", in SW ¼ sec.26, T.42 S., R.30 E., Glades County, Hydrologic Unit 03090205, near right bank, 500 ft upstream from Ortona Lock, 1.4 mi downstream from Long Hammock Creek, and 9.0 mi east of La Belle.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1948 to September 1950 (discharge measurements and gage heights), July 1971 to current year. Records of gage heights and discharge measurements can be found in the files of the U.S. Geological Survey.

REVISED RECORDS.--WDR FL-80-2A:1979; WDR FL-96-2A:1995.

GAUGE.--U.S. Army Corps of Engineers owned and operated satellite data collection platform with water-stage shaft encoders. Prior to September 29, 1998, similar equipment belonging to the U.S. Geological Survey was used. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated discharges, which are poor. Flow regulated by operation of control structures 77 and 78. Satellite data collection platform installed September 7, 1994. Extremes for downstream stages for the period of record are not available at the present time.

COOPERATION.--Stage, gate-opening and lock operation records provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 27 complete water years of discharge (1972-93, 1995, 1996-99).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.80 ft June 26, 1974; minimum, 8.59 ft May 16, 2001.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 11.81 ft Sept. 14; minimum, 8.59 ft May 16.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 6.72 ft Sept. 14; minimum, 2.09 ft Oct. 3.

UPSTREAM
GAUGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.11	10.90	11.09	10.88	10.80	10.05	10.45	9.61	9.61	9.66	e11.33	11.12
2	10.87	10.96	11.10	10.78	10.69	10.06	10.41	9.47	9.30	9.67	e11.44	11.21
3	10.93	11.04	11.25	10.92	10.73	10.16	10.28	9.80	9.31	9.56	11.48	11.21
4	10.84	11.18	10.98	10.73	10.79	10.15	10.12	9.97	9.61	9.35	11.51	11.26
5	10.99	11.12	11.05	10.73	10.72	10.11	10.28	10.07	9.61	9.33	11.52	11.32
6	10.91	11.25	10.96	10.75	10.69	10.03	10.10	10.09	9.75	9.37	11.59	11.33
7	10.89	11.00	11.12	10.63	10.73	9.93	10.25	9.87	9.87	9.44	11.65	11.28
8	11.14	10.98	10.90	10.73	10.82	9.78	10.39	9.82	9.73	---	11.48	11.19
9	11.15	10.93	11.11	10.71	10.76	9.87	10.12	9.58	9.59	---	11.04	11.13
10	11.09	10.98	11.13	10.97	10.74	10.16	9.75	9.52	9.53	e9.24	11.02	11.18
11	e11.06	11.35	11.09	11.06	10.81	10.13	9.76	9.40	9.57	e9.33	e11.16	11.10
12	e10.89	11.59	11.11	10.86	10.67	10.14	9.81	9.50	9.33	9.56	11.26	10.99
13	10.79	11.51	11.20	10.83	10.68	10.03	9.68	9.44	9.36	9.53	11.15	11.03
14	10.98	11.11	11.31	10.92	10.66	9.88	9.52	9.14	9.40	9.66	11.34	11.24
15	11.18	10.75	11.20	10.85	10.72	9.94	9.58	9.23	9.39	10.06	11.21	11.09
16	11.09	10.91	11.26	10.79	10.44	9.65	9.47	8.81	9.40	10.74	11.23	11.07
17	10.83	10.96	11.23	10.87	10.40	9.86	9.33	8.92	9.27	11.02	11.15	11.07
18	11.11	11.09	11.24	10.95	10.47	10.32	9.27	8.86	9.26	10.72	11.17	11.14
19	11.01	11.16	11.02	10.84	10.52	10.49	9.50	8.98	9.38	10.48	11.08	11.00
20	11.10	11.16	10.62	10.72	10.51	10.44	9.79	9.05	9.40	10.47	11.10	11.11
21	11.19	11.28	10.87	10.88	10.35	10.32	10.00	8.89	9.52	10.44	11.05	---
22	11.13	11.18	11.02	10.91	10.27	10.13	10.16	8.94	9.66	10.57	11.08	---
23	11.14	10.96	11.14	10.91	10.29	10.06	9.71	8.96	9.71	10.65	11.08	---
24	---	11.15	11.16	10.99	10.60	9.95	9.76	9.05	9.66	11.12	11.09	11.12
25	11.07	10.81	11.22	11.03	10.59	10.02	9.54	9.15	9.66	11.25	11.10	11.17
26	10.94	11.10	11.36	10.92	10.37	9.87	9.67	9.13	9.84	11.43	11.13	10.92
27	10.78	11.19	11.09	10.77	10.18	9.70	9.81	9.17	10.58	11.47	11.17	10.75
28	10.92	10.92	10.85	10.90	10.04	9.91	9.73	9.30	10.16	11.38	11.16	10.66
29	11.09	10.97	10.73	10.90	---	10.12	9.89	9.30	9.95	11.28	11.15	10.69
30	11.06	11.29	10.76	10.83	---	10.26	9.87	9.26	9.98	11.20	11.10	11.17
31	10.88	---	10.82	10.75	---	10.34	---	9.30	---	11.23	11.10	---
TOTAL	330.16	332.78	342.99	336.31	296.04	311.86	296.00	289.58	288.39	299.21	348.12	299.55
MEAN	11.01	11.09	11.06	10.85	10.57	10.06	9.87	9.34	9.61	10.32	11.23	11.09
MAX	11.19	11.59	11.36	11.06	10.82	10.49	10.45	10.09	10.58	11.47	11.65	11.33
MIN	10.78	10.75	10.62	10.63	10.04	9.65	9.27	8.81	9.26	9.24	11.02	10.66

e Estimated

CALOOSAHATCHEE RIVER

02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK NEAR LA BELLE, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.85	3.04	3.01	2.61	2.83	2.61	3.59	3.19	3.53	3.55	e2.96	3.02
2	2.82	2.97	2.98	2.64	2.78	2.66	3.52	3.18	3.54	3.54	e2.84	3.08
3	2.69	2.91	2.91	2.79	2.74	2.71	3.39	3.15	3.32	3.49	2.83	3.08
4	2.96	2.84	2.83	2.69	2.77	2.64	3.42	3.00	3.57	3.54	2.88	3.09
5	2.85	3.00	2.73	2.70	2.79	2.71	3.39	2.94	3.46	3.54	2.98	3.11
6	3.05	2.97	2.91	3.21	2.72	2.71	3.30	2.89	3.47	3.56	2.94	3.21
7	2.88	2.86	2.70	2.69	2.63	2.78	3.20	2.74	3.52	3.43	3.09	3.01
8	2.88	2.83	2.66	3.13	2.58	2.93	3.15	2.61	3.45	e3.60	3.11	2.99
9	2.91	2.94	2.84	3.05	2.64	3.01	3.10	2.70	3.52	---	2.98	3.07
10	2.74	3.01	2.72	2.90	2.73	3.00	2.87	2.60	3.38	---	3.02	3.15
11	2.87	3.14	2.79	2.90	2.63	2.98	2.79	2.65	3.57	e3.65	e3.14	3.03
12	2.92	3.21	2.99	2.99	2.65	3.02	2.76	2.67	3.56	3.55	2.97	2.84
13	2.82	3.23	3.01	3.02	2.62	2.95	2.74	2.53	3.45	3.52	3.06	3.33
14	2.91	3.09	3.09	3.04	2.69	2.89	2.78	2.58	3.58	3.59	3.09	5.01
15	2.99	2.88	3.12	3.04	2.75	2.92	2.67	2.49	3.43	3.55	3.09	4.12
16	2.91	2.80	3.15	3.01	2.74	2.89	2.66	2.61	3.45	3.71	3.02	3.29
17	3.01	2.87	3.23	3.02	2.72	2.81	2.59	2.59	3.43	3.57	3.00	3.05
18	3.05	2.90	3.16	2.95	2.56	2.80	2.46	2.59	3.53	3.47	2.96	2.94
19	3.04	3.02	3.00	2.89	2.63	2.96	2.47	2.59	3.49	3.49	2.97	2.85
20	3.02	3.18	2.88	3.04	2.62	3.32	2.58	2.61	3.51	3.53	3.34	2.92
21	2.97	3.21	2.82	3.00	2.57	3.47	2.69	2.66	3.53	3.55	3.10	---
22	3.00	3.00	2.94	3.02	2.49	3.57	2.49	2.70	3.59	3.58	2.99	---
23	3.07	2.89	3.05	3.06	2.49	3.62	2.58	3.06	3.55	3.79	2.96	---
24	3.05	3.15	3.11	3.08	2.55	3.67	2.71	3.58	3.56	3.61	3.09	3.15
25	3.04	2.94	3.16	2.99	2.54	3.73	2.60	3.50	3.61	3.52	3.10	3.09
26	3.00	3.10	3.18	2.88	2.53	3.69	2.56	3.39	3.48	3.54	2.94	3.05
27	2.99	3.13	3.16	2.97	2.55	3.57	2.64	3.35	3.56	3.58	2.98	2.88
28	3.01	3.07	3.16	2.95	2.63	3.46	2.76	3.35	3.45	3.49	3.05	2.82
29	3.09	2.96	2.99	2.94	---	3.36	2.82	3.37	3.54	3.61	3.12	2.80
30	3.16	2.94	2.75	2.90	---	3.49	2.95	3.40	3.56	3.29	3.15	2.86
31	3.12	---	2.57	2.88	---	3.40	---	3.41	---	3.07	3.11	---
TOTAL	91.67	90.08	91.60	90.98	74.17	96.33	86.23	90.68	105.19	102.51	93.86	84.84
MEAN	2.96	3.00	2.95	2.93	2.65	3.11	2.87	2.93	3.51	3.53	3.03	3.14
MAX	3.16	3.23	3.23	3.21	2.83	3.73	3.59	3.58	3.61	3.79	3.34	5.01
MIN	2.69	2.80	2.57	2.61	2.49	2.61	2.46	2.49	3.32	3.07	2.83	2.80

e Estimated

02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK NEAR LA BELLE, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	529	35	74	182	35	262	35	110	35	35	e116	35
2	514	35	35	35	75	277	35	35	35	35	e881	35
3	769	35	35	40	35	35	35	35	35	35	1100	35
4	926	90	35	112	35	35	35	35	35	35	885	123
5	825	128	362	626	124	35	35	35	35	35	388	35
6	853	35	164	1060	35	35	35	35	35	35	454	391
7	646	35	35	1530	155	229	35	77	35	35	1780	512
8	203	152	523	493	35	151	35	272	35	35	2390	1070
9	374	200	139	832	384	165	35	323	35	35	1810	1430
10	142	199	35	208	35	35	35	102	35	35	886	1540
11	e164	200	298	35	35	149	244	303	35	35	e485	1770
12	35	202	35	35	265	170	35	85	35	35	1160	1940
13	35	36	35	35	35	56	290	93	35	35	316	3400
14	35	35	35	35	368	356	35	300	35	35	351	3510
15	35	62	35	35	35	35	35	238	35	35	140	4480
16	35	202	35	35	205	158	249	329	35	35	97	3100
17	35	201	35	35	56	153	35	240	35	35	277	2520
18	35	202	35	35	110	74	357	356	35	35	119	2050
19	35	200	35	168	259	182	194	281	35	35	153	1530
20	35	170	430	136	35	35	517	279	35	35	419	1150
21	35	35	35	35	164	35	211	261	35	35	411	---
22	35	456	138	35	88	35	35	35	35	35	475	---
23	35	1730	35	35	341	35	391	35	35	35	645	---
24	35	555	35	35	78	35	94	35	35	35	e498	341
25	35	634	122	35	80	35	261	35	35	35	275	770
26	35	252	35	252	111	35	294	35	35	35	148	e889
27	35	35	35	35	344	35	377	35	35	35	95	1120
28	35	35	35	35	132	35	371	35	35	35	35	1320
29	35	35	147	35	---	35	134	35	35	35	35	1450
30	35	159	190	35	---	35	323	35	35	35	35	1430
31	35	---	464	164	---	35	---	35	---	35	35	---
TOTAL	6645	6380	3716	6433	3689	3012	4832	4174	1050	1085	16894	37976
MEAN	214	213	120	208	132	97.2	161	135	35.0	35.0	545	1407
MAX	926	1730	523	1530	384	356	517	356	35	35	2390	4480
MIN	35	35	35	35	35	35	35	35	35	35	35	35
AC-FT	13180	12650	7370	12760	7320	5970	9580	8280	2080	2150	33510	75330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001			
MEAN	917	626	479	805	1085	1197	1125	483	668	818	1307	1049																						
MAX	6690	5430	4799	4639	6842	8436	7449	2085	2624	3882	8724	6817																						
(WY)	1996	1996	1995	1995	1983	1983	1983	1983	1982	1974	1974	1995																						
MIN	40.4	10.1	7.01	8.20	6.16	14.9	37.8	52.3	10.1	.64	.23	12.6																						
(WY)	1973	1977	1974	1972	1982	1973	1973	1990	1990	1981	1981	1981																						

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1971 - 2001
ANNUAL MEAN			913
HIGHEST ANNUAL MEAN			3062
LOWEST ANNUAL MEAN			113
HIGHEST DAILY MEAN	4600	May 5	4480
LOWEST DAILY MEAN	35	Jan 7	35
ANNUAL SEVEN-DAY MINIMUM	35	Aug 6	35
ANNUAL RUNOFF (AC-FT)			661300
10 PERCENT EXCEEDS	1400		646
50 PERCENT EXCEEDS	245		35
90 PERCENT EXCEEDS	35		35

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.

CALOOSAHATCHEE RIVER

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL

LOCATION.--Lat 26°43'25", long 81°41'55", in SW ¼ 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 RECORD.--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 fair. Flow regulated by operation of salinity-control structure 79. 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 29 complete years of discharge (1967-94, 1996-97).

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, 6.04 ft Sept. 14; minimum, 2.34 ft Oct. 3, (estimated).

UPSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.99	3.24	3.21	2.79	3.00	2.74	3.72	3.42	3.69	3.68	3.12	3.17
2	e3.05	3.18	3.16	2.83	2.96	2.81	3.72	3.42	3.70	3.67	2.94	3.23
3	e2.93	3.09	3.09	2.96	2.93	2.86	3.58	3.36	3.49	3.62	2.94	3.24
4	e3.16	3.02	3.00	2.84	2.92	2.78	3.59	3.24	3.74	3.63	2.98	3.25
5	3.03	3.17	2.90	2.84	2.94	2.78	3.60	3.16	3.63	3.63	3.10	3.26
6	3.23	3.17	3.08	3.33	2.89	2.80	3.52	3.12	3.65	3.66	3.06	3.33
7	3.10	3.06	2.88	2.83	2.84	2.90	3.40	2.99	3.69	3.54	3.14	3.14
8	3.09	3.04	2.84	3.26	2.81	3.08	3.34	2.85	3.60	3.64	3.16	3.12
9	3.14	3.10	3.03	3.17	2.85	3.14	3.29	2.93	3.66	3.61	3.06	3.17
10	3.00	3.15	2.91	3.08	2.91	3.14	3.07	2.82	3.51	3.62	3.14	3.22
11	3.05	3.31	2.97	3.08	2.82	3.12	2.97	2.89	3.70	3.71	3.22	3.09
12	3.10	3.39	3.16	3.13	2.84	3.20	2.95	2.87	3.70	3.64	3.07	2.84
13	3.02	3.41	3.22	3.20	2.83	3.06	2.91	2.71	3.60	3.62	3.21	3.06
14	3.09	3.25	3.28	3.21	2.86	3.04	2.91	2.75	3.72	3.68	3.20	4.44
15	3.17	3.05	3.33	3.23	2.92	3.07	2.79	2.67	3.57	3.64	3.20	3.31
16	3.09	2.98	3.34	3.21	2.90	3.03	2.78	2.74	3.58	3.78	3.15	2.98
17	3.18	3.01	3.37	3.19	2.84	2.97	2.71	2.72	3.56	3.67	3.13	2.93
18	3.23	3.08	3.33	3.12	2.77	3.01	2.63	2.75	3.66	3.58	3.09	2.95
19	3.25	3.17	3.15	3.06	2.87	3.14	2.68	2.75	3.64	3.61	3.11	2.91
20	3.24	3.35	3.03	3.18	2.82	3.41	2.79	2.77	3.64	3.63	3.42	3.01
21	3.19	3.38	2.99	3.17	2.74	3.57	2.92	2.84	3.66	3.66	3.19	---
22	3.23	3.18	3.11	3.17	2.66	3.69	2.74	2.87	3.71	3.68	3.05	---
23	3.29	3.05	3.28	3.17	2.68	3.77	2.80	3.23	3.66	3.85	3.07	---
24	3.25	3.37	3.31	3.22	2.77	3.84	2.90	3.76	3.66	3.69	3.20	3.27
25	3.23	3.10	3.38	3.14	2.73	3.87	2.75	3.66	3.71	3.63	3.21	3.19
26	3.18	3.28	3.42	3.05	2.68	3.84	2.75	3.54	3.62	3.62	3.07	3.16
27	3.16	3.30	3.34	3.14	2.70	3.75	2.85	3.51	3.72	3.68	3.12	2.96
28	3.19	3.25	3.29	3.15	2.75	3.70	2.97	3.52	3.59	3.64	3.20	2.90
29	3.28	3.16	3.12	3.13	---	3.54	3.05	3.54	3.66	3.72	3.27	2.82
30	3.34	3.12	2.90	3.06	---	3.66	3.16	3.58	3.68	3.41	3.30	2.92
31	3.31	---	2.72	3.04	---	3.52	---	3.58	---	3.21	3.25	---
TOTAL	97.79	95.41	97.14	95.98	79.23	100.83	91.84	96.56	109.40	112.67	97.37	84.87
MEAN	3.15	3.18	3.13	3.10	2.83	3.25	3.06	3.11	3.65	3.63	3.14	3.14
MAX	3.34	3.41	3.42	3.33	3.00	3.87	3.72	3.76	3.74	3.85	3.42	4.44
MIN	2.93	2.98	2.72	2.79	2.66	2.74	2.63	2.67	3.49	3.21	2.94	2.82

e Estimated

CALOOSAHATCHEE RIVER

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02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL

DOWNSTREAM
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.20	e.55	.53	.09	.52	.72	.67	.11	.94	.89	.80	.96
2	.97	e.59	.79	-.14	.28	.93	.36	.48	1.05	1.02	1.00	1.02
3	1.19	.53	.61	-.29	-.06	1.21	.79	.58	.96	.98	1.45	.95
4	1.39	.48	.09	.13	.28	1.39	.95	.22	.98	1.05	1.63	.98
5	.89	e.79	.48	.45	.09	.53	.86	.47	.85	1.09	1.68	.89
6	.86	e.91	.66	.87	.11	.14	.79	.52	.78	1.07	1.41	.87
7	.64	e.76	.87	.89	.24	.26	.77	.54	.83	1.04	1.12	.96
8	.40	e.88	1.04	1.15	.13	.51	.85	.46	.77	1.06	1.14	1.05
9	e-.35	e1.09	1.06	.61	.24	.90	.90	.62	.88	1.08	1.21	1.22
10	e-.76	1.16	1.10	-.12	.34	1.13	.91	.93	.89	1.19	1.12	1.31
11	-.09	.69	1.24	.51	.26	.95	1.07	.82	1.07	1.28	1.03	1.08
12	e.14	e.67	1.34	.75	.24	.88	1.03	.95	1.09	1.32	1.09	1.33
13	e.24	e.76	1.19	.45	.14	1.31	1.10	1.07	.89	1.21	1.03	1.68
14	e.69	e1.28	1.19	.50	.21	.88	1.00	.93	.69	1.28	1.19	3.92
15	e.69	1.03	1.00	.40	.42	1.07	1.01	.99	.68	1.10	1.37	2.98
16	e.74	1.18	1.03	.42	.55	1.17	.96	.98	.64	1.25	1.50	1.92
17	e.81	1.55	1.03	.52	.67	.82	.73	.93	.57	1.35	1.31	1.90
18	e.75	1.04	.29	.63	.00	.46	-.08	.92	.66	1.33	1.33	1.81
19	e.71	1.41	.65	.93	-.07	.50	-.12	.89	.60	1.30	1.50	1.97
20	e.78	.76	-.07	.69	.53	1.19	.36	1.02	.63	1.18	1.33	1.99
21	e.65	-.34	.29	-.40	.70	1.10	.54	1.21	.78	1.46	1.10	---
22	e.53	-.23	.31	-.19	.78	.47	.34	1.36	.92	2.30	1.15	---
23	.21	.46	-.26	-.17	.68	.39	.50	1.51	1.05	3.15	1.03	---
24	e-.12	1.00	-.22	.00	.60	.59	.75	1.32	.93	1.92	.90	1.59
25	.46	1.59	-.36	.10	.78	.76	.90	1.33	.80	1.40	.81	1.74
26	e.83	1.34	.08	-.08	.73	.72	.57	1.47	.65	1.25	.67	1.24
27	e.88	.82	.87	.15	.53	.34	-.01	1.30	.43	1.12	.59	1.33
28	e.71	.73	1.57	.28	.77	.16	.49	1.11	.51	.85	.72	1.62
29	e.85	.66	1.01	.45	---	1.12	.31	1.15	.75	.80	.73	1.43
30	e.78	.57	.37	.82	---	1.34	.01	.96	.86	.97	.85	.97
31	e.62	---	-.11	.72	---	1.27	---	.82	---	.99	1.02	---
TOTAL	18.29	24.71	19.67	11.12	10.69	25.21	19.31	27.97	24.13	39.28	34.81	40.71
MEAN	.59	.82	.63	.36	.38	.81	.64	.90	.80	1.27	1.12	1.51
MAX	1.39	1.59	1.57	1.15	.78	1.39	1.10	1.51	1.09	3.15	1.68	3.92
MIN	-.76	-.34	-.36	-.40	-.07	.14	-.12	.11	.43	.80	.59	.87

e Estimated

CALOOSAHATCHEE RIVER

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1300	.00	.00	.00	.00	.00	440	.00	.00	488	1890	727
2	e1080	.00	.00	.00	.00	.00	337	.00	528	581	2870	1070
3	e1550	.00	.00	.00	.00	.00	186	.00	301	443	3960	1290
4	e2430	.00	.00	30	.00	.00	.00	.00	373	795	3530	1420
5	4530	.00	.00	134	.00	.00	.00	.00	542	584	4460	1940
6	3980	.00	.00	1820	.00	.00	.00	.00	466	588	4060	3120
7	2700	.00	.00	1980	.00	.00	.00	.00	464	377	5510	3420
8	1620	.00	.00	.00	.00	.00	.00	.00	316	300	5440	3960
9	e1630	.00	.00	823	.00	.00	.00	.00	298	494	4260	5400
10	e1120	.00	.00	.00	.00	.00	.00	.00	162	472	2830	4730
11	638	.00	.00	.00	.00	.00	.00	.00	.00	2160	2610	4880
12	e851	.00	.00	.00	.00	.00	.00	.00	306	1780	4050	7320
13	e307	.00	.00	.00	.00	.00	.00	.00	66	1950	2500	12100
14	e284	.00	.00	.00	.00	.00	.00	.00	326	12	2270	e14500
15	e435	.00	.00	.00	.00	.00	.00	.00	263	.00	1730	e13500
16	e282	.00	.00	.00	.00	.00	.00	.00	256	1300	1420	11700
17	.00	.00	.00	.00	.00	.00	.00	.00	246	3000	1490	9240
18	.00	.00	.00	.00	.00	.00	.00	.00	452	2630	1210	7090
19	.00	.00	.00	.00	.00	.00	.00	.00	690	2400	1100	6280
20	.00	.00	.00	.00	.00	.00	.00	.00	201	2480	5100	5080
21	.00	.00	.00	.00	.00	.00	.00	.00	311	2180	4650	---
22	.00	987	.00	.00	.00	.00	.00	.00	1150	2330	6410	---
23	.00	1520	.00	.00	.00	.00	.00	.00	1110	5740	5200	---
24	.00	1080	.00	.00	.00	.00	.00	1100	720	6850	3760	2710
25	.00	665	.00	.00	.00	.00	.00	948	695	5410	3160	2690
26	.00	179	.00	.00	.00	.00	.00	574	410	5750	2420	3460
27	.00	.00	.00	.00	.00	.00	.00	479	1070	4530	1240	4690
28	.00	.00	.00	.00	.00	.00	.00	284	855	3440	1250	4730
29	.00	.00	.00	.00	---	.00	.00	257	809	2920	918	7680
30	.00	.00	.00	.00	---	650	.00	148	831	2480	775	6440
31	.00	---	.00	.00	---	287	---	126	---	1090	899	---
TOTAL	24737.00	4431.00	0.00	4787.00	0.00	937.00	963.00	3916.00	14217.00	65554.00	92972	151167
MEAN	798	148	.000	154	.000	30.2	32.1	126	474	2115	2999	5599
MAX	4530	1520	.00	1980	.00	650	440	1100	1150	6850	6410	14500
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	775	727
AC-FT	49070	8790	.00	9500	.00	1860	1910	7770	28200	130000	184400	299800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

	2057	1101	667	1174	1393	1706	1247	756	1917	2411	2754	2378
MEAN	2057	1101	667	1174	1393	1706	1247	756	1917	2411	2754	2378
MAX	10390	6869	5519	7486	10080	10320	8198	2914	6053	7376	10750	9357
(WY)	1996	1970	1995	1970	1983	1983	1983	2000	1982	1974	1974	1995
MIN	84.7	23.9	.000	2.91	.000	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 FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1966 - 2001

ANNUAL MEAN										1571		
HIGHEST ANNUAL MEAN										5203		1970
LOWEST ANNUAL MEAN										296		1981
HIGHEST DAILY MEAN				5230	May 6		14500	Sep 14		21400		Mar 27 1970
LOWEST DAILY MEAN				.00	Jan 9		.00	Oct 17		.00		May 17 1981
ANNUAL SEVEN-DAY MINIMUM				.00	Feb 5		.00	Oct 17		.00		May 20 1981
ANNUAL RUNOFF (AC-FT)										1138000		
10 PERCENT EXCEEDS				2600			3690			5390		
50 PERCENT EXCEEDS				291			.00			498		
90 PERCENT EXCEEDS				.00			.00			8.6		

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.

CALOOSAHATCHEE RIVER

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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.--WRD 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.--Records are good except for estimated daily discharges, which are poor.

ANNUAL MEAN and RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.77	e5.39	5.28	5.25	5.28	5.27	5.50	5.28	5.22	5.33	5.48	5.58
2	5.74	e5.37	5.28	5.25	5.28	5.27	5.45	5.27	5.24	5.32	5.54	5.60
3	5.72	e5.37	5.28	5.25	5.27	5.27	5.42	5.25	5.27	5.31	5.66	5.70
4	5.86	e5.36	5.27	5.25	5.27	5.29	5.40	5.25	5.32	5.38	5.60	5.83
5	6.01	e5.35	5.28	5.25	5.27	5.33	5.39	5.24	5.31	5.43	5.57	5.94
6	6.00	e5.34	5.28	5.26	5.27	5.29	5.37	5.23	5.30	5.43	5.57	5.97
7	5.96	e5.33	5.28	5.26	5.27	5.26	5.36	5.23	5.29	5.44	5.52	6.01
8	5.93	e5.32	5.29	5.26	5.26	5.25	5.36	5.23	5.31	5.42	5.50	6.13
9	5.91	e5.31	5.29	5.26	5.27	5.25	5.35	5.22	5.34	5.42	5.45	6.03
10	5.91	5.31	5.29	5.25	5.27	5.25	5.34	5.21	5.31	5.39	5.45	5.96
11	5.92	5.30	5.29	5.25	5.27	5.25	5.34	5.21	5.30	5.38	5.44	5.70
12	5.93	5.30	5.29	5.26	5.27	5.25	5.33	5.21	5.29	5.37	5.43	5.72
13	5.94	5.30	5.28	5.26	5.27	5.25	5.33	5.21	5.30	5.37	5.47	5.84
14	5.94	5.30	5.27	5.26	5.27	5.25	5.32	5.21	5.29	5.39	5.44	6.40
15	5.95	5.30	5.27	5.26	5.27	5.25	5.31	5.21	5.28	5.60	5.41	5.94
16	5.96	5.29	5.27	5.26	5.27	5.26	5.31	5.21	5.28	5.90	5.39	5.73
17	5.97	5.29	5.27	5.26	5.27	5.26	5.30	5.21	5.28	5.67	5.41	5.61
18	5.97	5.30	5.26	5.26	5.26	5.26	5.27	5.21	5.27	5.58	5.48	5.56
19	5.97	5.30	5.26	5.27	5.25	5.34	5.26	5.20	5.28	5.54	5.44	5.75
20	5.96	5.29	5.25	5.27	5.25	5.40	5.26	5.20	5.27	5.50	5.60	6.00
21	5.96	5.28	5.24	5.26	5.26	5.35	5.26	5.20	5.35	5.50	5.60	5.73
22	5.96	5.26	5.25	5.25	5.26	5.33	5.26	5.20	5.52	6.09	5.60	5.63
23	5.96	5.27	5.25	5.25	5.26	5.32	5.27	5.23	5.45	7.38	5.60	5.58
24	5.96	5.28	5.25	5.25	5.26	5.31	5.27	5.23	5.40	6.68	5.75	5.53
25	5.96	5.28	5.25	5.25	5.26	5.31	5.28	5.23	5.38	5.71	5.72	5.54
26	5.86	5.29	5.25	5.25	5.27	5.31	5.28	5.22	5.37	5.70	5.64	5.52
27	5.64	5.29	5.25	5.26	5.27	5.30	5.26	5.22	5.36	5.58	5.60	5.60
28	5.50	5.29	5.27	5.26	5.27	5.29	5.26	5.22	5.35	5.52	5.56	5.64
29	5.44	5.29	5.28	5.26	---	5.31	5.26	5.22	5.36	5.46	5.53	5.76
30	5.42	5.29	5.26	5.27	---	5.51	5.27	5.22	5.34	5.47	5.52	5.67
31	e5.41	---	5.25	5.28	---	5.60	---	5.21	---	5.51	5.59	---
TOTAL	181.39	159.24	163.33	162.99	147.47	164.44	159.64	161.89	159.63	173.77	171.56	173.20
MEAN	5.85	5.31	5.27	5.26	5.27	5.30	5.32	5.22	5.32	5.61	5.53	5.77
MAX	6.01	5.39	5.29	5.28	5.28	5.60	5.50	5.28	5.52	7.38	5.75	6.40
MIN	5.41	5.26	5.24	5.25	5.25	5.25	5.26	5.20	5.22	5.31	5.39	5.52

e Estimated

CALOOSAHATCHEE RIVER

02293214 MEADE CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	e5.8	.85	.25	.92	1.0	9.7	1.4	.00	2.0	11	.99
2	19	e4.7	1.1	.27	1.1	1.0	6.8	.96	.03	1.3	15	1.5
3	18	e4.7	1.2	.25	1.1	.97	5.3	.44	1.1	1.0	23	5.4
4	30	e4.1	.89	.31	1.0	2.1	4.0	.42	2.1	4.9	18	12
5	47	e3.6	1.0	.30	1.0	3.5	3.1	.29	1.7	7.2	16	18
6	44	e3.1	.93	.41	1.0	1.8	2.4	.17	1.4	7.1	17	20
7	37	e2.7	1.0	.39	.97	.70	1.9	.08	1.1	7.7	13	22
8	32	e2.2	1.3	.42	.87	.30	1.9	.09	2.0	6.4	12	32
9	29	e1.8	1.4	.51	1.0	.24	1.8	.02	3.1	6.2	11	24
10	28	1.6	1.4	.23	1.0	.26	1.5	.00	1.9	4.5	12	21
11	28	1.6	1.4	.26	1.0	.24	1.2	.00	1.2	4.2	11	13
12	27	1.4	1.5	.44	1.1	.20	1.3	.00	1.0	3.7	10	15
13	27	1.4	1.0	.45	1.0	.13	1.2	.00	1.3	3.8	11	23
14	27	1.4	.76	.44	1.0	.13	1.0	.00	1.1	4.5	8.4	88
15	26	1.3	.88	.44	1.0	.17	.92	.00	.46	23	6.0	32
16	27	1.0	.67	.57	1.0	.23	.94	.00	.50	45	3.7	15
17	26	1.2	.60	.55	1.1	.14	.67	.00	.43	23	4.2	7.6
18	25	1.3	.38	.50	.84	.07	.19	.00	.30	16	6.9	4.5
19	24	1.2	.42	.67	.51	3.8	.06	.00	.35	14	3.8	24
20	22	1.2	.20	.74	.57	6.0	.11	.00	.20	11	13	39
21	21	.62	.14	.36	.75	3.2	.11	.00	5.0	11	11	15
22	20	.28	.32	.30	.76	1.9	.13	.00	13	70	11	8.5
23	19	.36	.26	.28	.89	1.6	.38	.09	8.7	321	9.6	5.6
24	18	.67	.28	.25	.83	1.2	.56	.03	6.1	176	19	3.2
25	17	.86	.22	.27	.76	1.0	.67	.00	4.6	27	15	3.5
26	8.9	1.0	.23	.32	.91	.80	.76	.00	3.9	26	9.3	2.8
27	7.1	1.1	.25	.44	1.1	.45	.55	.00	3.6	17	5.7	7.0
28	5.4	1.0	.84	.45	1.0	.30	.44	.00	3.0	13	2.9	9.3
29	4.6	1.0	1.0	.53	---	1.4	.43	.00	3.6	9.2	.87	17
30	5.8	.96	.57	.81	---	12	1.1	.00	2.8	9.8	.71	11
31	e6.9	---	.32	.91	---	16	---	.00	---	12	1.8	---
TOTAL	697.7	55.15	23.31	13.32	26.08	62.83	51.12	3.99	75.57	888.5	312.88	500.89
MEAN	22.5	1.84	.75	.43	.93	2.03	1.70	.13	2.52	28.7	10.1	16.7
MAX	47	5.8	1.5	.91	1.1	16	9.7	1.4	13	321	23	88
MIN	4.6	.28	.14	.23	.51	.07	.06	.00	.00	1.0	.71	.99
AC-FT	1380	109	46	26	52	125	101	7.9	150	1760	621	994

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	5.96	2.32	2.22	3.63	2.75	2.05	1.49	1.49	8.49	12.7	12.1	10.4			
MAX	22.5	10.7	9.69	9.98	16.3	5.80	4.48	5.05	24.8	29.0	38.3	22.9			
(WY)	2001	1999	1998	1999	1998	1998	1997	1997	1995	1995	1995	1995			
MIN	.000	.079	.052	.43	.11	.17	.000	.014	1.27	1.59	3.20	4.14			
(WY)	1989	1990	1997	2001	1994	1995	1990	1993	1988	1996	1991	1992			

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1987 - 2001

ANNUAL TOTAL	2235.65	2711.34		
ANNUAL MEAN	6.11	7.43	5.56	
HIGHEST ANNUAL MEAN			10.6	1995
LOWEST ANNUAL MEAN			2.28	1993
HIGHEST DAILY MEAN	79	Sep 18	321	Jul 23 2001
LOWEST DAILY MEAN	.00	May 27	.00	May 10 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 1	.00	May 10 1988
MAXIMUM PEAK FLOW			406	Jul 23
MAXIMUM PEAK STAGE			7.73	Jul 23
INSTANTANEOUS LOW FLOW			.00	May 20
ANNUAL RUNOFF (AC-FT)	4430	5380	4030	
10 PERCENT EXCEEDS	20	21	15	
50 PERCENT EXCEEDS	2.2	1.2	2.2	
90 PERCENT EXCEEDS	.10	.16	.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.

CALOOSAHATCHEE RIVER

245

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.
 ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 4 complete water years of discharge (1995-98, 2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.12	3.06	3.02	3.01	2.96	2.92	3.04	3.00	2.88	3.11	e3.10	3.12
2	3.11	3.06	3.02	3.01	2.97	2.92	3.03	2.99	2.89	3.11	e3.18	3.16
3	3.10	3.06	3.03	3.01	2.96	2.92	3.02	2.97	2.88	3.08	e3.34	3.24
4	3.17	3.06	3.02	3.01	2.97	3.00	3.01	2.96	2.88	3.10	e3.38	3.22
5	3.16	3.06	3.02	3.01	2.97	3.02	3.01	2.97	2.94	3.08	e3.24	3.19
6	3.12	3.06	3.02	3.00	2.98	2.99	3.02	2.97	2.96	3.06	e3.22	e3.34
7	3.10	3.06	3.02	3.00	2.98	2.99	3.01	2.96	2.99	3.05	e3.18	e3.30
8	3.09	3.05	3.02	3.00	2.97	2.98	3.01	2.95	2.96	3.05	e3.14	3.35
9	3.08	3.05	3.01	3.00	2.97	3.01	3.01	2.94	2.95	3.06	3.12	3.34
10	3.07	3.05	3.01	3.01	2.97	3.01	3.01	2.93	2.94	3.07	3.12	3.41
11	3.07	3.05	3.01	3.01	2.96	3.00	3.01	2.93	2.93	3.08	3.18	3.29
12	3.07	3.05	3.01	3.01	2.96	3.00	3.01	2.92	2.93	3.07	3.21	3.25
13	3.06	3.05	3.01	3.01	2.97	2.99	3.03	2.92	e2.96	3.10	3.19	3.26
14	3.07	3.05	3.00	3.01	2.97	2.99	3.03	2.93	e2.99	3.10	3.15	e3.70
15	3.07	3.05	3.00	3.02	2.96	2.99	3.03	2.93	3.01	e3.35	3.14	e3.48
16	3.07	3.05	3.00	3.02	2.96	2.99	3.03	2.92	3.03	e3.41	3.12	e3.29
17	3.06	3.05	3.00	3.00	2.97	2.99	3.02	2.92	3.02	3.12	3.19	e3.18
18	3.07	3.04	3.00	2.98	2.98	2.96	3.02	2.92	3.02	3.10	3.18	3.15
19	3.07	3.04	3.01	2.98	2.96	3.12	3.01	2.92	3.12	3.10	3.13	3.15
20	3.06	3.04	3.00	2.99	2.94	3.07	3.02	2.91	3.12	3.10	3.22	3.15
21	3.06	3.04	3.01	2.98	2.95	3.03	3.02	2.91	3.14	e3.10	3.15	3.13
22	3.06	3.04	3.02	2.99	2.94	3.02	3.01	2.91	3.10	e3.20	3.29	3.12
23	3.05	3.03	3.04	2.98	2.94	3.02	3.01	2.91	3.13	e3.59	3.22	3.12
24	3.05	3.02	3.05	2.98	2.95	3.03	3.01	2.91	3.11	e3.46	3.21	3.11
25	3.06	3.02	3.05	2.97	2.93	3.03	3.02	2.91	3.10	e3.15	3.24	3.09
26	3.06	3.03	3.05	2.98	2.94	3.03	3.02	2.92	3.11	e3.12	3.15	3.10
27	3.06	3.03	3.05	2.98	2.92	3.03	3.01	2.91	3.10	e3.11	3.13	3.15
28	3.06	3.02	3.05	2.98	2.92	3.03	3.02	2.91	3.10	e3.10	3.12	3.14
29	3.07	3.02	3.01	2.98	---	3.04	3.01	2.91	3.11	e3.10	3.12	3.24
30	3.07	3.02	3.00	2.98	---	3.11	3.00	2.89	3.11	e3.10	3.15	3.14
31	3.06	---	3.00	2.97	---	3.05	---	2.88	---	e3.10	3.15	---
TOTAL	95.45	91.31	93.56	92.86	82.82	93.28	90.51	90.83	90.51	97.43	98.66	96.91
MEAN	3.08	3.04	3.02	3.00	2.96	3.01	3.02	2.93	3.02	3.14	3.18	3.23
MAX	3.17	3.06	3.05	3.02	2.98	3.12	3.04	3.00	3.14	3.59	3.38	3.70
MIN	3.05	3.02	3.00	2.97	2.92	2.92	3.00	2.88	2.88	3.05	3.10	3.09

e Estimated

CALOOSAHATCHEE RIVER

02293230 WHISKEY CREEK AT FT. MYERS, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	6.8	2.2	1.1	.63	.37	7.3	3.0	.17	6.4	e22	25
2	12	6.8	2.3	1.0	.70	.38	6.1	2.5	.25	5.2	e35	33
3	12	6.8	2.5	1.0	.69	.48	5.4	1.7	.14	4.1	e72	51
4	27	6.7	2.3	.97	.71	6.3	4.6	1.3	.13	24	e83	42
5	21	6.5	2.0	.98	.76	4.1	4.6	1.5	1.6	19	e48	29
6	14	5.8	1.9	.93	.97	2.2	4.8	1.6	1.7	15	e43	e72
7	12	5.5	2.1	.83	.86	2.0	4.3	1.3	2.4	14	e35	e62
8	11	5.4	2.1	.84	.81	1.8	4.3	1.1	1.2	15	e28	81
9	9.3	5.4	1.8	.92	.77	2.9	4.3	.98	1.0	16	26	73
10	8.5	5.4	1.4	1.0	.73	2.9	4.3	.76	.84	17	24	93
11	8.5	5.4	1.4	.98	.80	2.5	4.3	.80	.78	19	37	60
12	8.3	5.2	1.4	.98	.80	2.4	4.3	.66	.72	17	42	50
13	7.9	5.0	1.3	.96	.83	2.2	5.5	.67	e1.3	23	38	52
14	8.1	5.0	1.2	1.0	.83	2.3	5.8	.72	e2.6	21	30	e200
15	8.2	4.8	1.2	1.4	.74	2.1	5.8	.72	4.1	e74	28	e114
16	8.1	4.7	1.1	1.3	.75	2.1	5.8	.66	5.2	e92	26	e59
17	7.6	4.1	1.1	.86	.89	2.0	5.3	.64	4.1	25	40	e35
18	8.1	3.9	1.1	.67	1.0	1.2	4.3	.65	4.6	22	35	31
19	8.5	3.5	1.4	.68	.73	31	3.8	.61	22	22	27	30
20	7.6	4.0	1.2	.81	.53	17	4.5	.53	25	22	45	29
21	7.3	4.0	1.3	.68	.70	11	4.5	.51	24	e22	30	26
22	7.2	3.8	1.8	.94	.62	9.6	4.0	.45	15	e39	63	25
23	6.9	3.3	2.6	.80	.60	9.6	3.4	.46	20	e154	43	25
24	6.7	2.8	2.9	.71	.71	9.4	3.9	.46	15	e107	43	23
25	7.1	2.8	3.0	.63	.56	9.4	4.2	1.2	12	e30	49	21
26	7.1	2.9	3.1	.71	.68	8.2	4.1	.60	12	e25	30	22
27	6.9	3.0	3.1	.74	.42	8.2	3.7	.48	9.8	e24	27	30
28	7.1	2.6	3.4	.71	.40	8.3	4.1	.48	8.3	e22	26	29
29	7.2	2.3	1.4	.78	---	11	3.6	.48	8.8	e22	25	49
30	7.2	2.1	1.1	.75	---	20	3.2	.25	7.5	e22	31	28
31	7.0	---	1.1	.65	---	8.4	---	.17	---	e22	31	---
TOTAL	300.4	136.3	57.8	27.31	20.22	201.33	138.1	27.94	212.23	961.7	1162	1499
MEAN	9.69	4.54	1.86	.88	.72	6.49	4.60	.90	7.07	31.0	37.5	50.0
MAX	27	6.8	3.4	1.4	1.0	31	7.3	3.0	25	154	83	200
MIN	6.7	2.1	1.1	.63	.40	.37	3.2	.17	.13	4.1	22	21
AC-FT	596	270	115	54	40	399	274	55	421	1910	2300	2970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	10.0	4.92	4.72	3.92	2.51	4.21	3.69	2.82
MAX	16.3	9.22	10.0	8.10	4.50	10.6	5.32	6.18
(WY)	1997	2000	1998	1996	1996	1998	2000	1996
MIN	3.81	1.41	1.52	.88	.72	1.00	1.35	.71
(WY)	1995	1997	1997	2001	2001	1995	1999	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1994 - 2001
ANNUAL TOTAL		4744.33	
ANNUAL MEAN		13.0	11.4
HIGHEST ANNUAL MEAN			13.1
LOWEST ANNUAL MEAN			8.88
HIGHEST DAILY MEAN	271	Sep 17	380
LOWEST DAILY MEAN	.56	May 25	.00
ANNUAL SEVEN-DAY MINIMUM	.80	May 23	.00
MAXIMUM PEAK FLOW		175	1280
MAXIMUM PEAK STAGE		3.64	4.65
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (AC-FT)		9410	8260
10 PERCENT EXCEEDS	22	34	24
50 PERCENT EXCEEDS	4.6	4.3	5.3
90 PERCENT EXCEEDS	1.3	.68	1.0

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.

CHARLOTTE HARBOR AND COASTAL AREA

247

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 S.W. 28th Street, 0.33 mi west of Skyline Boulevard, and 4.6 mi
 upstream from Calcoosahatchee 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.--No estimated daily discharges. Records fair.
 ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 12 complete water years of discharge (1990-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.46	3.12	3.09	3.07	3.07	2.92	3.39	3.07	2.84	3.39	3.40	3.33
2	3.42	3.11	3.09	3.07	3.07	2.92	3.34	3.06	2.84	3.55	3.53	3.32
3	3.39	3.11	3.10	3.08	3.07	2.91	3.31	3.06	2.84	3.43	3.92	3.33
4	3.46	3.12	3.09	3.08	3.07	2.93	3.29	3.05	2.82	3.37	3.82	3.37
5	3.57	3.12	3.09	3.08	3.06	2.96	3.26	3.04	2.82	3.35	3.74	3.38
6	3.61	3.12	3.09	3.08	3.06	2.94	3.24	3.03	2.84	3.37	3.63	3.35
7	3.64	3.11	3.09	3.08	3.05	2.92	3.22	3.02	2.83	3.43	3.55	3.35
8	3.71	3.12	3.09	3.08	3.04	2.91	3.21	3.02	2.83	3.38	3.49	3.39
9	3.56	3.12	3.09	3.08	3.04	2.90	3.20	3.02	2.82	3.35	3.44	3.38
10	3.48	3.11	3.10	3.06	3.04	2.90	3.19	3.01	2.81	3.33	3.43	3.61
11	3.43	3.10	3.10	3.07	3.04	2.89	3.17	3.00	2.80	3.33	3.48	3.66
12	3.39	3.09	3.10	3.07	3.03	2.89	3.16	3.00	2.80	3.31	3.55	3.60
13	3.40	3.09	3.09	3.07	3.03	2.89	3.15	3.00	2.80	3.31	3.64	3.72
14	3.42	3.09	3.08	3.07	3.04	2.89	3.14	2.99	2.80	3.37	3.54	5.05
15	3.37	3.09	3.08	3.08	3.03	2.89	3.13	2.99	2.81	3.40	3.45	4.57
16	3.32	3.08	3.08	3.08	3.02	2.88	3.13	2.98	2.81	3.45	3.42	4.03
17	3.29	3.09	3.07	3.08	3.02	2.87	3.12	2.97	2.80	3.43	3.38	3.78
18	3.25	3.09	3.07	3.08	3.01	2.86	3.09	2.96	2.80	3.49	3.36	3.60
19	3.22	3.10	3.07	3.08	2.99	3.00	3.08	2.95	2.83	3.46	3.31	3.53
20	3.19	3.10	3.07	3.09	2.98	3.16	3.08	2.94	2.83	3.43	3.64	3.63
21	3.17	3.09	3.07	3.08	2.97	3.12	3.07	2.93	2.83	3.41	3.49	3.56
22	3.15	3.07	3.07	3.08	2.97	3.11	3.08	2.92	2.85	4.24	3.43	3.50
23	3.14	3.07	3.07	3.07	2.96	3.10	3.08	2.92	2.94	6.22	3.39	3.46
24	3.13	3.07	3.06	3.07	2.96	3.10	3.08	2.91	3.00	6.03	3.37	3.43
25	3.13	3.09	3.06	3.06	2.95	3.09	3.08	2.90	3.02	4.50	3.35	3.48
26	3.12	3.10	3.06	3.06	2.94	3.09	3.07	2.89	3.10	4.11	3.33	3.46
27	3.12	3.11	3.06	3.06	2.94	3.09	3.05	2.88	3.23	3.82	3.32	3.53
28	3.12	3.10	3.09	3.06	2.93	3.08	3.05	2.88	3.19	3.66	3.30	3.71
29	3.12	3.09	3.10	3.07	---	3.10	3.04	2.87	3.23	3.56	3.29	3.82
30	3.12	3.09	3.09	3.08	---	3.32	3.06	2.86	3.29	3.51	3.33	3.73
31	3.12	---	3.08	3.08	---	3.46	---	2.84	---	3.45	3.33	---
TOTAL	103.02	92.96	95.54	95.30	84.38	93.09	94.56	91.96	87.05	114.44	107.65	108.66
MEAN	3.32	3.10	3.08	3.07	3.01	3.00	3.15	2.97	2.90	3.69	3.47	3.62
MAX	3.71	3.12	3.10	3.09	3.07	3.46	3.39	3.07	3.29	6.22	3.92	5.05
MIN	3.12	3.07	3.06	3.06	2.93	2.86	3.04	2.84	2.80	3.31	3.29	3.32

CHARLOTTE HARBOR AND COASTAL AREA

02293240 ARIES CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	2.3	1.4	1.6	1.9	.00	23	1.5	.00	22	19	8.2
2	22	2.1	1.5	1.4	2.1	.00	18	1.3	.00	38	34	7.3
3	19	2.1	1.9	1.8	2.1	.00	15	1.2	.00	24	82	8.0
4	27	2.2	1.4	1.9	2.3	.00	13	.94	.00	18	68	11
5	39	2.4	1.3	1.8	1.9	.00	10	.65	.00	16	57	12
6	44	2.2	1.5	1.9	1.9	.00	8.4	.11	.00	18	43	9.3
7	48	2.1	1.9	1.9	1.6	.00	7.8	.00	.00	24	34	9.3
8	58	2.2	1.9	1.9	1.2	.00	6.6	.00	.00	19	27	12
9	40	2.2	2.1	1.7	.99	.00	6.0	.00	.00	16	22	12
10	30	1.9	2.4	1.1	.94	.00	5.4	.00	.00	14	20	50
11	26	1.6	2.4	1.3	.82	.00	5.0	.00	.00	14	26	65
12	22	1.1	2.4	1.4	.54	.00	3.9	.00	.00	13	32	56
13	23	.94	2.1	1.4	.73	.00	3.4	.00	.00	13	43	73
14	26	1.0	1.6	1.5	.79	.00	3.1	.00	.00	18	32	319
15	21	.92	1.4	2.2	.45	.00	3.3	.00	.00	21	22	217
16	16	.68	1.2	2.4	.24	.00	2.9	.00	.00	25	18	119
17	14	1.3	1.0	2.4	.21	.00	2.3	.00	.00	23	14	79
18	11	1.4	.94	2.4	.08	.00	1.2	.00	.00	29	13	55
19	8.1	1.7	.94	2.5	.00	3.1	.77	.00	.00	26	8.2	47
20	6.3	1.9	.91	2.8	.00	6.3	.75	.00	.00	23	42	58
21	4.9	1.2	.81	2.2	.00	3.2	.73	.00	.00	21	25	50
22	3.8	.70	.94	2.2	.00	2.2	.86	.00	.00	137	18	41
23	3.1	.54	.85	1.9	.00	1.8	1.3	.00	.00	587	15	37
24	2.6	.73	.73	1.9	.00	1.2	1.4	.00	.00	537	13	34
25	2.3	1.6	.42	1.6	.00	.94	1.4	.00	.00	183	11	39
26	2.1	2.0	.75	1.4	.00	.94	.96	.00	2.8	114	9.4	36
27	1.9	2.2	1.1	1.3	.00	.63	.65	.00	7.2	71	8.1	45
28	2.1	1.9	2.3	1.4	.00	.20	.40	.00	4.5	48	6.3	67
29	2.4	1.6	3.0	1.6	---	1.2	.26	.00	7.1	36	5.9	83
30	2.4	1.5	2.5	2.2	---	17	1.1	.00	12	30	8.2	70
31	2.4	---	2.0	2.4	---	30	---	.00	---	24	8.1	---
TOTAL	555.4	48.21	47.59	57.4	20.79	68.71	148.88	5.70	33.60	2202	784.2	1729.1
MEAN	17.9	1.61	1.54	1.85	.74	2.22	4.96	.18	1.12	71.0	25.3	57.6
MAX	58	2.4	3.0	2.8	2.3	30	23	1.5	12	587	82	319
MIN	1.9	.54	.42	1.1	.00	.00	.26	.00	.00	13	5.9	7.3
AC-FT	1100	96	94	114	41	136	295	11	67	4370	1560	3430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	16.5	4.75	3.93	8.24	5.89	3.79	2.83	2.20	16.1	41.8	29.4	41.9
MAX	33.2	15.3	20.6	22.3	31.6	11.8	8.56	8.67	60.0	127	57.9	110
(WY)	1992	1999	1998	1999	1998	1998	1992	1996	1999	2000	2000	
MIN	2.52	.015	.40	1.25	.74	.23	.000	.000	.92	7.92	6.02	13.6
(WY)	1999	1997	1991	1990	2001	1997	1999	1994	1994	1994	1994	1996

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1990 - 2001

ANNUAL TOTAL	7162.56	5701.58	
ANNUAL MEAN	19.6	15.6	14.8
HIGHEST ANNUAL MEAN			27.9
LOWEST ANNUAL MEAN			5.73
HIGHEST DAILY MEAN	467	Sep 17	587
LOWEST DAILY MEAN	.00	Mar 7	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 2	.00
MAXIMUM PEAK FLOW			849
MAXIMUM PEAK STAGE			7.17
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	14210	11310	10740
10 PERCENT EXCEEDS	61	38	37
50 PERCENT EXCEEDS	2.4	2.0	4.7
90 PERCENT EXCEEDS	.00	.00	.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.

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.
 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.
 ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).
 REVISIONS.--Revised figures of discharge for September 11-30, 2000 water year, superseding those published in the 2000 report
 are given below. Revisions are based upon measurements taken in the 2001 water year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	.00	.00	2.0	1.4	.00	.00	.00	.00	8.2	26	19
2	17	2.6	.00	1.9	1.1	.00	.00	.00	.00	5.7	18	13
3	12	2.7	.00	1.7	.75	.00	.00	.00	.00	4.7	19	9.7
4	18	2.2	.00	1.5	1.2	.00	.00	.00	.00	4.9	14	9.2
5	32	2.3	.00	1.5	.95	.00	.00	.00	.00	6.3	14	8.0
6	22	2.0	.00	3.9	.27	.00	.00	.00	.00	4.7	20	7.2
7	16	1.9	.00	15	.05	.00	.00	.00	.00	4.1	17	6.1
8	12	1.7	.00	9.7	.00	.00	.00	.00	.00	6.1	12	9.1
9	10	1.5	.00	7.4	.00	.00	.00	.00	.00	8.9	9.2	12
10	9.4	1.4	.00	5.8	.00	.00	.00	.00	.00	19	6.7	11
11	7.8	1.4	.00	5.0	.00	.00	.00	.00	.00	16	5.5	10
12	7.0	1.6	.00	4.1	.00	.00	.00	.00	.00	12	11	8.7
13	7.0	1.3	.00	3.7	.00	.00	.00	.00	.00	8.3	15	7.4
14	6.5	1.1	.00	3.8	.00	.00	.00	.00	.00	6.6	11	6.5
15	4.1	.70	.00	2.7	.00	.00	.00	.00	.00	8.1	8.8	11
16	.01	.55	.00	2.4	.00	.00	.00	.00	.00	8.4	8.3	15
17	.42	.26	.00	2.1	.00	.00	.00	.00	.00	8.3	6.0	146
18	1.6	.04	.00	1.8	.00	.00	.00	.00	.00	7.8	4.8	153
19	2.1	.00	.00	1.5	.00	.00	.00	.00	.00	6.5	5.3	62
20	2.5	.00	.02	1.2	.00	.00	.00	.00	.00	5.3	6.8	40
21	2.9	.00	.25	1.5	.00	.00	.00	.00	.00	5.1	6.6	29
22	3.1	.00	.70	1.2	.00	.00	.00	.00	.00	4.2	5.8	23
23	2.6	.00	.96	.91	.00	.00	.00	.00	.00	3.7	5.5	19
24	2.3	.00	1.5	3.2	.00	.00	.00	.00	.00	3.3	8.5	20
25	1.7	.00	1.3	3.4	.00	.00	.00	.00	.00	3.1	7.7	17
26	.91	.00	.97	3.2	.00	.00	.00	.00	1.3	2.1	13	15
27	.00	.00	.69	2.5	.00	.00	.00	.00	18	1.7	9.9	21
28	.00	.00	1.0	2.5	.00	.00	.00	.00	25	3.5	8.6	43
29	.00	.00	1.4	2.2	.00	.00	.00	.00	15	5.3	8.0	29
30	.00	.00	1.5	1.9	---	.00	.00	.00	11	13	13	23
31	.00	---	1.8	1.7	---	.00	---	.00	---	15	22	---
TOTAL	220.94	25.25	12.09	102.91	5.72	0.00	0.00	0.00	70.30	219.9	347.0	802.9
MEAN	7.13	.84	.39	3.32	.20	.000	.000	.000	2.34	7.09	11.2	26.8
MAX	32	2.7	1.8	15	1.4	.00	.00	.00	25	19	26	153
MIN	.00	.00	.00	.91	.00	.00	.00	.00	.00	1.7	4.8	6.1
AC-FT	438	50	24	204	11	.00	.00	.00	139	436	688	1590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	6.62	1.91	1.69	3.05	1.89	1.44	.52	.57	8.16	10.2	10.1	12.4		
MAX	19.8	5.46	9.42	9.77	12.7	5.60	2.03	3.63	34.1	33.8	20.3	39.5		
(WY)	1996	1999	1998	1998	1998	1998	1987	1996	1995	1995	1995	1995		
MIN	.000	.007	.000	.000	.000	.000	.000	.000	.066	.038	4.48	2.39		
(WY)	1999	1997	1991	1997	1996	1995	1990	1988	1997	1999	1999	1987		

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1987 - 2000

ANNUAL TOTAL	2130.71	1807.01		
ANNUAL MEAN	5.84	4.94	4.95	
HIGHEST ANNUAL MEAN			11.5	1995
LOWEST ANNUAL MEAN			2.39	1997
HIGHEST DAILY MEAN	86	Jun 19	153	Sep 18 2000
LOWEST DAILY MEAN	.00	Feb 15	.00	Oct 27 1986
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 15	.00	Nov 19 1986
MAXIMUM PEAK FLOW			298	Sep 17 2000
MAXIMUM PEAK STAGE			7.07	Sep 17 1992
INSTANTANEOUS LOW FLOW			.00	May 22 1986
ANNUAL RUNOFF (AC-FT)	4230	3580	3580	
10 PERCENT EXCEEDS	20	14	12	
50 PERCENT EXCEEDS	.79	.34	1.5	
90 PERCENT EXCEEDS	.00	.00	.00	

REVISED

CALOOSAHATCHEE RIVER

02293241 SAN CARLOS CANAL AT CAPE CORAL, FL

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.43	4.73	3.95	3.20	3.65	3.50	5.35	4.92	4.55	5.21	5.44	5.41
2	5.38	4.68	3.91	3.22	3.69	3.51	5.28	4.92	4.51	5.34	5.53	5.39
3	5.36	4.68	3.90	3.20	3.70	3.50	5.23	4.91	4.40	5.30	5.82	5.41
4	5.40	4.65	3.89	3.19	3.67	3.51	5.21	4.90	4.37	5.30	5.73	5.41
5	5.45	4.61	3.88	3.20	3.69	3.57	5.19	4.89	4.47	5.32	5.72	5.44
6	5.42	4.56	3.86	3.20	3.71	3.56	5.18	4.87	4.65	5.38	5.93	5.42
7	5.38	4.53	3.82	3.19	3.71	3.53	5.17	4.86	4.61	5.44	5.67	5.50
8	5.34	4.49	3.84	3.20	3.69	3.47	5.16	4.85	4.61	5.41	5.55	5.68
9	5.31	4.45	3.82	3.24	3.70	3.47	5.15	4.83	4.58	5.45	5.47	5.61
10	5.27	4.45	3.80	3.24	3.69	3.47	5.14	4.81	4.52	5.37	5.57	5.67
11	5.24	4.43	3.79	3.24	3.68	3.44	5.13	4.79	4.50	5.36	5.65	5.66
12	5.22	4.39	3.80	3.28	3.69	3.44	5.12	4.78	4.51	5.33	5.64	5.64
13	5.22	4.37	3.76	3.32	3.71	3.46	5.12	4.77	4.49	5.32	5.78	5.61
14	5.19	4.35	3.71	3.34	3.69	3.45	5.12	4.76	4.45	5.38	5.58	6.22
15	5.16	4.33	3.69	3.38	3.66	3.42	5.12	4.75	4.44	5.41	5.48	5.84
16	5.15	4.29	3.64	3.44	3.67	3.51	5.11	4.74	4.41	5.47	5.42	5.59
17	5.14	4.28	3.58	3.47	3.67	3.60	5.09	4.73	4.40	5.39	5.43	5.47
18	5.12	4.25	3.53	3.46	3.64	3.66	5.07	4.71	4.41	5.47	5.52	5.41
19	5.10	4.21	3.52	3.49	3.63	3.87	4.99	4.70	4.43	5.49	5.44	5.51
20	5.11	4.20	3.48	3.53	3.64	4.19	4.96	4.69	4.41	5.42	5.78	5.71
21	5.09	4.17	3.41	3.55	3.63	4.28	4.96	4.68	4.37	5.41	5.64	5.53
22	5.07	4.13	3.41	3.57	3.60	4.35	4.95	4.67	4.43	6.21	5.74	5.44
23	5.05	4.09	3.38	3.61	3.59	4.44	4.95	4.66	4.50	7.17	5.62	5.40
24	5.02	4.08	3.33	3.61	3.56	4.51	4.95	4.65	4.55	6.47	5.60	5.37
25	4.99	4.07	3.30	3.58	3.51	4.56	4.95	4.64	4.57	5.66	5.53	5.39
26	4.96	4.06	3.28	3.59	3.51	4.65	4.95	4.63	4.66	5.61	5.49	5.36
27	4.96	4.04	3.23	3.60	3.52	4.74	4.93	4.62	4.83	5.54	5.47	5.42
28	4.94	4.02	3.19	3.60	3.52	4.80	4.92	4.62	4.84	5.48	5.45	5.48
29	4.90	3.98	3.23	3.62	---	4.86	4.91	4.60	4.90	5.44	5.43	5.57
30	4.86	3.96	3.22	3.65	---	5.20	4.92	4.60	5.01	5.44	5.43	5.49
31	4.80	---	3.20	3.67	---	5.43	---	4.57	---	5.50	5.44	---
TOTAL	160.03	129.53	111.35	105.68	102.02	122.95	152.28	147.12	136.38	171.49	172.99	166.05
MEAN	5.16	4.32	3.59	3.41	3.64	3.97	5.08	4.75	4.55	5.53	5.58	5.54
MAX	5.45	4.73	3.95	3.67	3.71	5.43	5.35	4.92	5.01	7.17	5.93	6.22
MIN	4.80	3.96	3.19	3.19	3.51	3.42	4.91	4.57	4.37	5.21	5.42	5.36

02293241 SAN CARLOS CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	.00	.00	.00	.00	.00	11	.00	.00	5.2	16	15
2	14	.00	.00	.00	.00	.00	7.2	.00	.00	11	24	13
3	13	.00	.00	.00	.00	.00	4.9	.00	.00	7.6	51	14
4	15	.00	.00	.00	.00	.00	4.0	.00	.00	7.6	39	14
5	19	.00	.00	.00	.00	.00	3.1	.00	.00	8.1	39	16
6	17	.00	.00	.00	.00	.00	2.7	.00	.00	12	63	15
7	14	.00	.00	.00	.00	.00	2.3	.00	.00	14	32	21
8	12	.00	.00	.00	.00	.00	2.3	.00	.00	12	21	38
9	9.7	.00	.00	.00	.00	.00	1.9	.00	.00	14	16	30
10	7.4	.00	.00	.00	.00	.00	1.8	.00	.00	8.7	30	36
11	6.2	.00	.00	.00	.00	.00	1.6	.00	.00	7.9	36	36
12	5.3	.00	.00	.00	.00	.00	1.6	.00	.00	6.6	38	33
13	5.2	.00	.00	.00	.00	.00	1.5	.00	.00	6.6	51	30
14	3.8	.00	.00	.00	.00	.00	1.5	.00	.00	9.4	29	115
15	3.0	.00	.00	.00	.00	.00	1.5	.00	.00	12	21	56
16	2.7	.00	.00	.00	.00	.00	1.5	.00	.00	15	17	29
17	2.3	.00	.00	.00	.00	.00	1.0	.00	.00	11	18	18
18	1.8	.00	.00	.00	.00	.00	.48	.00	.00	16	24	14
19	1.3	.00	.00	.00	.00	.00	.00	.00	.00	18	18	24
20	1.5	.00	.00	.00	.00	.00	.00	.00	.00	12	50	40
21	1.1	.00	.00	.00	.00	.00	.00	.00	.00	12	35	22
22	.48	.00	.00	.00	.00	.00	.00	.00	.00	108	45	16
23	.09	.00	.00	.00	.00	.00	.00	.00	.00	330	32	13
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	170	30	11
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	38	25	12
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	32	21	10
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	25	19	15
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	20	18	18
29	.00	.00	.00	.00	---	.05	.00	.00	.00	16	16	26
30	.00	.00	.00	.00	---	6.4	.00	.00	.52	17	16	20
31	.00	---	.00	.00	---	17	---	.00	---	20	17	---
TOTAL	173.87	0.00	0.00	0.00	0.00	23.45	51.88	0.00	0.52	1002.7	907	770
MEAN	5.61	.000	.000	.000	.000	.76	1.73	.000	.017	32.3	29.3	25.7
MAX	19	.00	.00	.00	.00	17	11	.00	.52	330	63	115
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.2	16	10
AC-FT	345	.00	.00	.00	.00	47	103	.00	1.0	1990	1800	1530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	6.55	1.77	1.58	2.85	1.76	1.39	.60	.53	7.62	11.6	11.4	12.4			
MAX	19.8	5.46	9.42	9.77	12.7	5.60	2.03	3.63	34.1	33.8	29.3	39.5			
(WY)	1996	1999	1998	1998	1998	1998	1987	1996	1995	1995	2001	1995			
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.017	.038	4.48	2.39			
(WY)	1999	2001	1991	1997	1996	1995	1990	1988	2001	1997	1999	1987			

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR
ANNUAL TOTAL		1722.60		2929.42												
ANNUAL MEAN		4.71		8.03												
HIGHEST ANNUAL MEAN										5.10						
LOWEST ANNUAL MEAN										11.5						1995
HIGHEST DAILY MEAN										2.39						1997
LOWEST DAILY MEAN																
ANNUAL SEVEN-DAY MINIMUM																
MAXIMUM PEAK FLOW																
MAXIMUM PEAK STAGE																
INSTANTANEOUS LOW FLOW																
ANNUAL RUNOFF (AC-FT)		3420		5810						3690						
10 PERCENT EXCEEDS		14		23						13						
50 PERCENT EXCEEDS		.00		.00						1.4						
90 PERCENT EXCEEDS		.00		.00						.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.

CALOOSAHATCHEE RIVER

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 good.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.11	3.81	3.77	4.35	4.24	3.96	4.81	3.74	3.95	4.83	4.86	5.20
2	5.09	3.80	3.73	4.33	4.30	3.99	4.82	3.74	4.00	4.89	4.92	5.20
3	5.09	3.82	3.68	4.24	4.27	3.99	4.81	3.61	3.90	4.75	5.17	5.27
4	5.14	3.81	3.69	4.06	4.20	3.95	4.78	3.68	4.00	4.65	5.16	5.25
5	5.38	3.76	3.74	4.00	4.23	4.08	4.71	3.61	4.18	4.66	5.12	4.83
6	5.66	3.74	3.72	4.00	4.30	4.18	4.72	3.44	4.27	4.74	5.12	4.67
7	5.61	3.74	3.77	4.00	4.27	4.19	4.68	3.46	4.20	4.79	5.03	4.73
8	5.50	3.74	3.83	4.07	4.22	4.14	4.60	3.58	4.26	4.77	4.95	4.88
9	5.45	3.70	3.79	4.17	4.25	4.22	4.62	3.52	4.23	4.80	4.90	4.78
10	5.43	3.73	3.73	4.17	4.22	4.23	4.63	3.34	4.10	4.80	5.04	4.89
11	5.38	3.72	3.75	4.14	4.15	4.19	4.54	3.37	4.13	4.81	5.30	4.87
12	5.34	3.70	3.81	4.22	4.17	4.25	4.40	3.26	4.23	4.80	5.42	4.84
13	5.28	3.70	3.81	4.25	4.25	4.36	4.41	3.05	4.20	4.81	5.60	5.01
14	4.91	3.69	3.75	4.25	4.24	4.37	4.35	3.07	4.20	4.88	5.48	5.92
15	4.82	3.67	3.83	4.29	4.18	4.31	4.17	3.26	4.27	4.92	5.39	5.62
16	4.77	3.64	3.84	4.38	4.21	4.36	4.15	3.23	4.27	5.02	5.19	5.30
17	4.74	3.70	3.87	4.35	4.20	4.26	4.18	3.13	4.22	5.02	4.95	5.05
18	4.73	3.71	3.95	4.28	4.14	4.09	4.13	3.29	4.29	5.05	5.00	4.83
19	4.68	3.69	4.06	4.32	4.14	4.23	3.97	3.30	4.39	5.03	4.87	4.87
20	4.60	3.71	4.08	4.34	4.20	4.54	3.96	3.26	4.38	5.00	5.41	5.06
21	4.46	3.74	4.06	4.32	4.19	4.52	3.90	3.37	4.28	5.03	5.29	4.95
22	4.35	3.75	4.16	4.36	4.10	4.47	3.74	3.58	4.36	5.73	5.29	4.87
23	4.25	3.81	4.17	4.39	4.12	4.46	3.77	3.64	4.47	7.09	5.23	4.84
24	4.18	3.87	4.16	4.35	4.04	4.41	3.88	3.61	4.50	6.50	5.25	4.84
25	4.06	3.86	4.23	4.28	3.93	4.29	3.84	3.74	4.54	5.47	5.23	4.87
26	3.96	3.86	4.34	4.30	3.98	4.29	3.69	3.75	4.62	5.24	5.18	4.83
27	3.93	3.87	4.32	4.28	4.08	4.29	3.74	3.70	4.66	5.25	5.14	4.87
28	3.84	3.85	4.39	4.24	4.05	4.20	3.67	3.84	4.58	5.21	5.12	5.01
29	3.74	3.79	4.50	4.25	---	4.07	3.54	4.02	4.69	5.24	5.04	5.19
30	3.69	3.74	4.47	4.33	---	4.33	3.61	4.00	4.75	5.23	5.10	5.16
31	3.75	---	4.38	4.31	---	4.73	---	3.88	---	4.98	5.21	---
TOTAL	146.92	112.72	123.38	131.62	116.87	131.95	126.82	109.07	129.12	157.99	159.96	150.50
MEAN	4.74	3.76	3.98	4.25	4.17	4.26	4.23	3.52	4.30	5.10	5.16	5.02
MAX	5.66	3.87	4.50	4.39	4.30	4.73	4.82	4.02	4.75	7.09	5.60	5.92
MIN	3.69	3.64	3.68	4.00	3.93	3.95	3.54	3.05	3.90	4.65	4.86	4.67

02293243 COURTNEY CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	.00	.00	.67	.02	.00	23	.00	.00	17	26	30
2	44	.00	.00	.29	.10	.00	23	.00	.00	21	30	29
3	44	.00	.00	.02	.13	.00	23	.00	.00	17	54	33
4	48	.00	.00	.00	.00	.00	19	.00	.00	16	51	35
5	71	.00	.00	.00	.00	.00	14	.00	.00	18	46	30
6	95	.00	.00	.00	.03	.00	16	.00	.00	24	45	15
7	90	.00	.00	.00	.10	.00	14	.00	.00	29	42	18
8	81	.00	.00	.00	.00	.00	9.6	.00	.00	27	42	32
9	76	.00	.00	.00	.00	.00	12	.00	.00	29	39	24
10	74	.00	.00	.00	.00	.00	14	.00	.00	28	53	36
11	68	.00	.00	.00	.00	.00	9.1	.00	.00	29	77	36
12	63	.00	.00	.00	.00	.00	2.5	.00	.00	27	85	33
13	61	.00	.00	.00	.00	1.1	2.5	.00	.00	27	98	51
14	40	.00	.00	.00	.00	1.2	.98	.00	.00	33	89	120
15	31	.00	.00	.10	.00	.28	.01	.00	.02	36	80	99
16	27	.00	.00	1.7	.00	.56	.00	.00	.01	46	62	77
17	24	.00	.00	.92	.00	.13	.00	.00	.00	45	37	54
18	23	.00	.00	.13	.00	.00	.00	.00	.03	47	39	32
19	19	.00	.00	.23	.00	1.1	.00	.00	.99	44	25	36
20	13	.00	.00	.46	.00	7.7	.00	.00	.53	40	74	56
21	5.0	.00	.00	.31	.00	6.0	.00	.00	.10	42	62	45
22	.90	.00	.00	.98	.00	3.3	.00	.00	.14	102	60	36
23	.04	.00	.00	2.1	.00	3.0	.00	.00	1.9	194	52	33
24	.00	.00	.00	.72	.00	1.0	.00	.00	2.5	157	52	33
25	.00	.00	.00	.09	.00	.10	.00	.00	3.2	89	49	36
26	.00	.00	.64	.04	.00	.00	.00	.00	7.1	72	41	32
27	.00	.00	.51	.07	.00	.00	.00	.00	8.1	72	35	36
28	.00	.00	2.3	.00	.00	.00	.00	.00	3.8	67	31	51
29	.00	.00	7.1	.00	---	.00	.00	.00	9.0	68	22	68
30	.00	.00	5.1	.32	---	1.9	.00	.00	11	65	25	65
31	.00	---	1.7	.29	---	17	---	.00	---	39	33	---
TOTAL	1045.94	0.00	17.35	9.44	0.38	44.37	182.69	0.00	48.42	1567	1556	1311
MEAN	33.7	.000	.56	.30	.014	1.43	6.09	.000	1.61	50.5	50.2	43.7
MAX	95	.00	7.1	2.1	.13	17	23	.00	11	194	98	120
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	16	22	15
AC-FT	2070	.00	34	19	.8	88	362	.00	96	3110	3090	2600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	12.3	4.35	3.52	7.05	6.25	3.82	1.18	.62	11.7	23.7	23.7	22.7			
MAX	33.7	29.9	34.2	44.0	66.7	39.3	6.09	2.64	59.7	72.2	57.3	54.5			
(WY)	2001	1999	1998	1998	1998	1998	2001	1991	1999	1998	2000	1995			
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.60	4.02			
(WY)	1989	1989	1988	1989	1988	1989	1988	1988	1988	1994	1999	1987			

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1987 - 2001
ANNUAL TOTAL	5423.63	5782.59	
ANNUAL MEAN	14.8	15.8	10.3
HIGHEST ANNUAL MEAN			28.2
LOWEST ANNUAL MEAN			3.51
HIGHEST DAILY MEAN	193	Sep 17	194 Jul 23
LOWEST DAILY MEAN	.00	Mar 1	.00 Oct 24
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 1	.00 Oct 24
MAXIMUM PEAK FLOW			222 Jul 23
MAXIMUM PEAK STAGE			7.54 Jul 23
INSTANTANEOUS LOW FLOW			.00 May 14
ANNUAL RUNOFF (AC-FT)	10760	11470	7450
10 PERCENT EXCEEDS	53	52	30
50 PERCENT EXCEEDS	.84	.03	.13
90 PERCENT EXCEEDS	.00	.00	.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.

CHARLOTTE HARBOR AND COASTAL AREA

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 N.W. 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 are good.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT)SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.55	2.48	2.42	2.40	2.41	2.31	2.52	2.43	2.28	2.55	2.58	2.54
2	2.54	2.47	2.42	2.40	2.41	2.30	2.50	2.42	2.26	2.55	2.70	2.53
3	2.54	2.47	2.42	2.40	2.40	2.30	2.49	2.42	2.26	2.53	2.86	2.53
4	2.68	2.47	2.41	2.40	2.40	2.32	2.49	2.41	2.26	2.54	2.71	2.67
5	2.67	2.47	2.41	2.40	2.40	2.35	2.49	2.41	2.31	2.53	2.66	2.72
6	2.60	2.47	2.41	2.40	2.39	2.33	2.49	2.42	2.41	2.53	2.69	2.61
7	2.58	2.46	2.41	2.40	2.38	2.32	2.49	2.41	2.41	2.53	2.61	2.58
8	2.56	2.46	2.41	2.41	2.38	2.31	2.49	2.41	2.41	2.51	2.58	2.58
9	2.55	2.46	2.42	2.45	2.38	2.31	2.48	2.41	2.41	2.51	2.57	2.60
10	2.54	2.46	2.42	2.43	2.38	2.31	2.48	2.40	2.41	2.51	2.56	2.74
11	2.53	2.46	2.42	2.42	2.38	2.31	2.48	2.40	2.40	2.52	2.56	2.66
12	2.53	2.45	2.43	2.42	2.38	2.30	2.47	2.39	2.40	2.53	2.57	2.69
13	2.52	2.45	2.43	2.41	2.38	2.30	2.47	2.38	2.40	2.53	2.58	2.79
14	2.52	2.45	2.42	2.41	2.38	2.31	2.47	2.37	2.39	2.54	2.56	3.71
15	2.52	2.45	2.42	2.41	2.38	2.31	2.46	2.37	2.38	2.54	2.55	2.95
16	2.52	2.44	2.42	2.41	2.37	2.31	2.46	2.37	2.36	2.54	2.54	2.70
17	2.52	2.45	2.42	2.41	2.37	2.31	2.45	2.36	2.36	2.52	2.54	2.64
18	2.52	2.45	2.40	2.41	2.37	2.30	2.44	2.35	2.36	2.53	2.53	2.61
19	2.51	2.45	2.40	2.41	2.35	2.37	2.42	2.34	2.41	2.52	2.53	2.59
20	2.51	2.45	2.40	2.42	2.34	2.45	2.42	2.34	2.41	2.53	2.62	2.58
21	2.51	2.44	2.39	2.41	2.34	2.42	2.42	2.33	2.43	2.54	2.60	2.57
22	2.50	2.43	2.40	2.40	2.33	2.41	2.42	2.33	2.51	3.15	2.59	2.59
23	2.50	2.43	2.40	2.39	2.33	2.41	2.42	2.34	2.51	3.92	2.55	2.58
24	2.49	2.43	2.40	2.39	2.33	2.41	2.42	2.34	2.49	3.19	2.54	2.56
25	2.49	2.44	2.40	2.39	2.32	2.41	2.43	2.34	2.48	2.76	2.53	2.62
26	2.49	2.45	2.39	2.39	2.32	2.41	2.43	2.33	2.48	2.75	2.53	2.58
27	2.49	2.44	2.39	2.39	2.32	2.40	2.42	2.33	2.49	2.69	2.53	2.61
28	2.49	2.43	2.41	2.39	2.31	2.40	2.42	2.33	2.48	2.62	2.52	2.63
29	2.49	2.43	2.44	2.40	---	2.42	2.42	2.31	2.53	2.59	2.53	2.69
30	2.49	2.42	2.42	2.40	---	2.59	2.42	2.30	2.55	2.60	2.56	2.60
31	2.48	---	2.41	2.40	---	2.59	---	2.29	---	2.60	2.54	---
TOTAL	78.43	73.51	74.76	74.57	66.23	73.30	73.68	73.38	72.24	82.00	80.12	80.05
MEAN	2.53	2.45	2.41	2.41	2.37	2.36	2.46	2.37	2.41	2.65	2.58	2.67
MAX	2.68	2.48	2.44	2.45	2.41	2.59	2.52	2.43	2.55	3.92	2.86	3.71
MIN	2.48	2.42	2.39	2.39	2.31	2.30	2.42	2.29	2.26	2.51	2.52	2.53

02293345 SHADROE CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	3.2	1.1	.72	.84	.00	8.2	1.7	.00	10	13	7.7
2	8.2	3.0	1.1	.69	.86	.00	6.7	1.5	.00	9.8	39	7.1
3	8.0	2.7	1.1	.68	.74	.00	5.8	1.3	.00	7.7	79	7.0
4	36	2.7	.92	.68	.67	.05	5.3	1.2	.00	8.6	37	40
5	29	2.7	.87	.67	.61	.09	5.3	1.2	.25	8.0	26	40
6	15	2.6	.86	.69	.46	.00	5.3	1.4	.86	7.7	33	18
7	12	2.4	.87	.69	.41	.00	5.0	1.2	.86	7.5	18	13
8	11	2.3	.99	.87	.35	.00	5.0	1.1	.86	6.5	13	13
9	9.2	2.2	1.1	2.1	.26	.00	4.6	1.0	.86	6.1	11	16
10	7.6	2.2	1.2	1.3	.30	.00	4.5	.86	.86	6.1	9.9	48
11	7.2	2.2	1.2	1.1	.35	.00	4.5	.82	.77	7.5	9.9	26
12	6.9	2.0	1.3	1.0	.36	.00	4.1	.61	.63	7.6	12	37
13	6.5	1.8	1.3	.99	.38	.00	3.7	.45	.61	7.6	13	56
14	6.3	1.9	1.1	.92	.50	.00	3.6	.34	.45	8.7	10	687
15	6.1	1.9	1.1	.90	.44	.00	3.3	.34	.27	9.1	8.9	111
16	6.1	1.6	1.1	.92	.39	.00	3.0	.27	.08	8.7	8.3	37
17	6.0	1.9	1.0	.92	.34	.00	2.7	.17	.00	7.4	7.8	25
18	5.9	2.2	.76	.98	.27	.00	2.1	.11	.23	7.6	7.3	19
19	5.6	2.2	.69	.94	.03	1.3	1.5	.00	.86	6.7	6.9	16
20	5.3	2.3	.63	1.0	.00	2.6	1.5	.00	.86	7.7	19	14
21	5.3	1.7	.54	.80	.00	1.5	1.5	.00	1.6	8.9	17	13
22	4.9	1.4	.69	.68	.00	1.2	1.5	.00	6.4	216	14	15
23	4.3	1.5	.69	.57	.00	1.1	1.5	.00	6.1	903	9.0	15
24	4.1	1.5	.69	.52	.00	1.0	1.6	.00	4.4	260	8.0	12
25	4.0	1.9	.65	.52	.00	1.0	1.8	.00	3.7	48	7.0	21
26	4.0	2.2	.58	.52	.00	1.0	1.9	.00	3.9	47	7.0	14
27	3.9	1.8	.52	.52	.00	.87	1.5	.00	4.3	33	6.7	20
28	3.9	1.4	1.1	.56	.00	.78	1.4	.00	3.7	20	6.3	22
29	3.8	1.3	1.6	.64	---	3.7	1.4	.00	9.5	14	7.5	35
30	3.6	1.2	1.2	.67	---	19	1.6	.00	9.9	16	10	18
31	3.3	---	.87	.76	---	19	---	.00	---	15	8.5	---
TOTAL	252.0	61.9	29.42	25.52	8.56	54.19	101.4	15.57	62.81	1737.5	483.0	1422.8
MEAN	8.13	2.06	.95	.82	.31	1.75	3.38	.50	2.09	56.0	15.6	47.4
MAX	36	3.2	1.6	2.1	.86	.19	8.2	1.7	9.9	903	79	687
MIN	3.3	1.2	.52	.52	.00	.00	1.4	.00	.00	6.1	6.3	7.0
AC-FT	500	123	58	51	17	107	201	31	125	3450	958	2820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	17.7	5.54	3.28	5.40	5.42	3.76	2.27	2.56	7.75	20.1	18.6	25.4			
MAX	114	17.1	15.5	19.3	38.2	13.1	7.98	14.4	22.3	63.6	68.4	75.8			
(WY)	1996	1996	1998	1998	1998	1998	1987	1987	1992	1995	1995	1995			
MIN	2.56	.50	.000	.82	.31	.37	.030	.000	.011	3.31	3.43	3.77			
(WY)	1989	1991	1991	2001	2001	1990	2000	1999	1988	1988	1989	1990			

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1987 - 2001

ANNUAL TOTAL	3134.63	4254.67		
ANNUAL MEAN	8.56	11.7	9.46	
HIGHEST ANNUAL MEAN			21.8	1995
LOWEST ANNUAL MEAN			3.70	1990
HIGHEST DAILY MEAN	586	Sep 17	903	Jul 23 2001
LOWEST DAILY MEAN	.00	Apr 4	.00	Feb 20 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 4	.00	Feb 20 1988
MAXIMUM PEAK FLOW			1580	Jul 23 2001
MAXIMUM PEAK STAGE			4.49	Jul 23 1995
INSTANTANEOUS LOW FLOW			.00	Feb 20
ANNUAL RUNOFF (AC-FT)	6220	8440	6860	
10 PERCENT EXCEEDS	18	16	20	
50 PERCENT EXCEEDS	2.2	1.6	3.5	
90 PERCENT EXCEEDS	.00	.00	.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.

CHARLOTTE HARBOR AND COASTAL AREA

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.--Records are poor.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).

REVISIONS.--Gage heights 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.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.82	2.53	2.50	2.46	2.52	2.20	2.54	2.43	2.04	2.54	3.08	2.67
2	2.79	2.53	2.51	2.48	2.50	2.19	2.54	2.42	2.04	2.54	3.09	2.74
3	2.77	2.52	2.51	2.46	2.48	2.19	2.53	2.40	2.04	2.54	3.30	2.87
4	2.80	2.52	2.50	2.47	2.45	2.20	2.53	2.38	2.02	2.54	3.21	3.02
5	2.83	2.52	2.51	2.47	2.44	2.22	2.52	2.38	2.17	2.53	3.15	3.10
6	2.79	2.52	2.51	2.47	2.43	2.21	2.52	2.37	2.44	2.53	3.25	3.03
7	2.77	2.52	2.52	2.49	2.42	2.19	2.51	2.34	2.47	2.54	3.13	3.01
8	2.75	2.52	2.51	2.50	2.41	2.18	2.51	2.34	2.49	2.53	3.06	3.00
9	2.73	2.52	2.50	2.52	2.40	2.17	2.51	2.33	2.51	2.52	3.01	3.01
10	2.71	2.52	2.50	2.51	2.40	2.16	2.51	2.31	2.52	2.51	2.96	3.11
11	2.70	2.52	2.50	2.49	2.39	2.15	2.50	2.30	2.50	2.53	2.94	3.15
12	2.68	2.51	2.51	2.50	2.38	2.14	2.50	2.27	2.50	2.53	2.94	3.17
13	2.68	2.51	2.51	2.50	2.37	2.14	2.49	2.26	2.50	2.53	2.95	3.33
14	2.67	2.51	2.50	2.50	2.37	2.14	2.50	2.24	2.49	2.53	2.90	4.13
15	2.67	2.51	2.49	2.50	2.34	2.13	2.49	2.24	2.47	2.54	2.88	3.64
16	2.63	2.51	2.49	2.50	2.34	2.11	2.48	2.23	2.48	2.58	2.87	3.26
17	2.56	2.51	2.49	2.51	2.33	2.12	2.48	2.22	2.47	2.61	2.86	3.10
18	2.56	2.52	2.49	2.51	2.32	2.11	2.48	2.20	2.46	2.65	2.86	3.02
19	2.56	2.51	2.49	2.51	2.30	2.15	2.47	2.18	2.50	2.67	2.86	2.99
20	2.60	2.52	2.49	2.49	2.28	2.23	2.45	2.16	2.48	2.67	3.00	3.06
21	2.64	2.50	2.49	2.47	2.28	2.21	2.45	2.14	2.48	2.71	2.95	2.97
22	2.64	2.49	2.49	2.45	2.25	2.20	2.45	2.15	2.50	3.06	2.91	2.92
23	2.63	2.50	2.47	2.47	2.24	2.20	2.43	2.15	2.51	4.42	2.85	2.88
24	2.61	2.50	2.46	2.49	2.25	2.18	2.43	2.13	2.51	4.20	2.93	2.85
25	2.58	2.50	2.45	2.50	2.24	2.17	2.44	2.11	2.52	3.50	2.91	2.86
26	2.58	2.51	2.45	2.49	2.22	2.16	2.45	2.10	2.51	3.29	2.87	2.84
27	2.57	2.51	2.44	2.49	2.23	2.17	2.43	2.10	2.51	3.14	2.85	2.90
28	2.55	2.51	2.47	2.50	2.21	2.17	2.43	2.10	2.51	3.05	2.84	2.94
29	2.55	2.51	2.50	2.50	---	2.18	2.43	2.09	2.53	2.98	2.73	3.02
30	2.54	2.51	2.49	2.49	---	2.47	2.42	2.07	2.54	2.94	2.61	2.95
31	2.54	---	2.47	2.50	---	2.55	---	2.05	---	3.13	2.60	---
TOTAL	82.50	75.39	77.21	77.19	65.79	67.99	74.42	69.19	72.71	87.58	91.35	91.54
MEAN	2.66	2.51	2.49	2.49	2.35	2.19	2.48	2.23	2.42	2.83	2.95	3.05
MAX	2.83	2.53	2.52	2.52	2.52	2.55	2.54	2.43	2.54	4.42	3.30	4.13
MIN	2.54	2.49	2.44	2.45	2.21	2.11	2.42	2.05	2.02	2.51	2.60	2.67

CHARLOTTE HARBOR AND COASTAL AREA

02293346 HORSESHOE CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	e.46	.00	.00	e.10	.00	e.35	.00	.00	e.41	134	7.0
2	43	e.40	e.01	.00	.00	.00	e.35	.00	.00	e.38	136	19
3	37	e.29	.00	.00	.00	.00	e.20	.00	.00	e.57	226	49
4	46	e.29	.00	.00	.00	.00	e.19	.00	.00	e.51	186	90
5	53	e.30	.00	.00	.00	.00	e.16	.00	.00	e.28	159	119
6	45	e.31	.00	.00	.00	.00	e.09	.00	.00	e.31	202	94
7	40	e.28	e.08	.00	.00	.00	e.05	.00	.00	e.36	148	85
8	35	e.28	e.06	e.02	.00	.00	e.03	.00	.00	e.22	120	84
9	29	e.29	.00	e.16	.00	.00	.00	.00	e.02	e.10	96	87
10	26	e.26	.00	.00	.00	.00	e.05	.00	e.09	e.10	90	126
11	22	e.18	.00	.00	.00	.00	.00	.00	.00	e.35	91	140
12	19	e.10	e.02	.00	.00	.00	.00	.00	.00	e.30	86	147
13	17	e.09	e.05	.00	.00	.00	.00	.00	e.01	e.31	89	216
14	15	e.12	.00	.00	.00	.00	.00	.00	.00	e.33	74	636
15	15	e.08	.00	.00	.00	.00	.00	.00	.00	e.54	67	391
16	8.9	e.06	.00	.00	.00	.00	.00	.00	.00	2.2	61	215
17	1.3	e.05	.00	.00	.00	.00	.00	.00	.00	5.1	58	147
18	1.2	e.12	.00	e.01	.00	.00	.00	.00	.00	10	59	117
19	1.6	e.08	.00	e.03	.00	.00	.00	.00	.00	13	55	109
20	5.3	e.12	.00	.00	.00	.00	.00	.00	.00	14	101	135
21	9.8	.00	.00	.00	.00	.00	.00	.00	.00	24	82	101
22	10	.00	.00	.00	.00	.00	.00	.00	.00	137	69	84
23	8.3	.00	.00	.00	.00	.00	.00	.00	.00	819	50	71
24	6.1	e.01	.00	.00	.00	.00	.00	.00	e.06	687	75	62
25	3.4	e.03	.00	.00	.00	.00	.00	.00	e.13	324	64	65
26	2.9	e.06	.00	.00	.00	.00	.00	.00	e.02	226	54	60
27	1.7	.00	.00	.00	.00	.00	.00	.00	e.04	158	48	78
28	1.1	e.04	.00	.00	.00	.00	.00	.00	e.05	124	43	90
29	1.0	e.04	.00	.00	---	.00	.00	.00	e.30	100	21	118
30	e.74	.00	.00	.00	---	1.1	.00	.00	e.40	85	2.4	94
31	e.57	---	.00	.00	---	1.0	---	.00	---	159	2.0	---
TOTAL	555.91	4.34	0.22	0.22	0.10	2.10	1.47	0.00	1.12	2892.37	2748.4	3836.0
MEAN	17.9	.14	.007	.007	.004	.068	.049	.000	.037	93.3	88.7	128
MAX	53	.46	.08	.16	.10	1.1	.35	.00	.40	819	226	636
MIN	.57	.00	.00	.00	.00	.00	.00	.00	.00	.10	2.0	7.0
AC-FT	1100	8.6	.4	.4	.2	4.2	2.9	.00	2.2	5740	5450	7610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	29.0	10.2	7.34	10.2	12.8	10.9	5.92	7.82	34.1	58.2	54.7	57.1			
MAX	93.0	27.4	60.5	62.4	130	72.9	27.8	43.4	88.1	115	134	128			
(WY)	1996	1999	1998	1998	1998	1998	1987	1991	1995	1991	1995	2001			
MIN	4.44	.14	.007	.007	.004	.030	.000	.000	.037	8.90	27.5	12.7			
(WY)	1990	2001	2001	2001	2001	1997	1999	1999	2001	2000	2000	1990			

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1987 - 2001

ANNUAL TOTAL	4122.25	10042.25	
ANNUAL MEAN	11.3	27.5	24.6
HIGHEST ANNUAL MEAN			50.1
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	315	Sep 17	819
LOWEST DAILY MEAN	.00	Feb 28	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 15	.00
MAXIMUM PEAK FLOW			1220
MAXIMUM PEAK STAGE			4.86
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	8180	19920	17830
10 PERCENT EXCEEDS	40	90	65
50 PERCENT EXCEEDS	.96	.00	7.6
90 PERCENT EXCEEDS	.00	.00	.02

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.

CHARLOTTE HARBOR AND COASTAL AREA

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.

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.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1988-2001).

REVISIONS.--Revised figures of discharge for the 2000 water year based upon weir logs from the City of Cape Coral, superseding those previously published are shown below.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	22	8.4	1.7	.00	.00	.00	.00	.00	1.9	32	138
2	50	27	7.1	1.6	.00	.00	.00	.00	.00	1.9	27	112
3	38	21	6.1	1.3	.00	.00	.00	.00	.00	1.4	50	99
4	48	20	6.1	.97	.00	.00	.00	.00	.00	12	59	124
5	89	19	5.6	.80	.00	.00	.00	.00	.00	9.8	46	131
6	70	19	4.5	.85	.00	.00	.00	.00	.00	3.2	57	109
7	71	18	4.1	3.3	.00	.00	.00	.00	.00	2.6	50	147
8	62	17	4.2	3.3	.00	.00	.00	.00	.00	3.2	37	225
9	55	16	3.5	3.3	.00	.00	.00	.00	.00	5.2	29	141
10	46	15	2.6	3.9	.00	.00	.00	.00	.00	6.9	28	81
11	45	14	2.3	3.1	.00	.00	.00	.00	.00	3.4	26	78
12	44	14	1.7	1.9	.00	.06	.00	.00	.00	3.2	91	51
13	42	14	1.5	.94	.00	.00	.00	.00	.00	3.6	94	37
14	43	14	1.5	.79	.00	.00	.00	.00	.00	3.0	72	29
15	43	12	6.0	.50	.00	.00	.00	.00	.00	7.6	61	23
16	43	9.8	5.0	.28	.00	.00	.00	.00	.00	3.6	57	16
17	41	9.8	3.4	.00	.00	.00	.00	.00	.00	2.7	51	420
18	38	9.8	5.6	.00	.00	.00	.00	.00	.00	13	44	290
19	38	9.8	8.2	.00	.00	.00	.00	.00	.00	24	40	172
20	38	8.8	6.5	.00	.00	.00	.00	.00	.00	19	38	154
21	36	6.7	5.5	.00	.00	.00	.00	.00	.00	16	35	163
22	36	5.9	4.9	.00	.00	.00	.00	.00	.00	19	33	129
23	34	5.4	5.1	.00	.00	.00	.00	.00	.00	15	31	106
24	33	5.1	4.6	1.8	.00	.00	.00	.00	.00	11	31	97
25	32	4.6	3.7	.34	.00	.00	.00	.00	.26	11	32	84
26	30	6.0	2.9	.00	.00	.00	.00	.00	4.0	10	64	78
27	29	12	2.5	.00	.00	.00	.00	.00	6.3	9.0	56	99
28	28	11	3.4	.00	.00	.00	.00	.00	3.9	9.8	54	188
29	24	9.0	2.8	.00	.00	.00	.00	.00	2.7	7.7	54	145
30	23	9.1	2.3	.00	---	.00	.00	.00	2.3	15	103	122
31	23	---	2.0	.00	---	.00	---	.00	---	22	129	---
TOTAL	1321	384.8	133.6	30.67	0.00	0.06	0.00	0.00	19.46	276.7	1611	3788
MEAN	42.6	12.8	4.31	.99	.000	.002	.000	.000	.65	8.93	52.0	126
MAX	89	27	8.4	3.9	.00	.06	.00	.00	6.3	24	129	420
MIN	23	4.6	1.5	.00	.00	.00	.00	.00	.00	1.4	26	16
AC-FT	2620	763	265	61	.00	.1	.00	.00	39	549	3200	7510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	34.0	14.6	9.66	10.8	11.5	8.36	4.09	5.89	27.5	42.3	42.7	45.3		
MAX	88.1	47.0	53.5	59.6	98.2	41.1	12.0	25.6	79.5	92.9	114	126		
(WY)	1996	1988	1998	1998	1998	1998	1994	1991	1995	1995	1995	2000		
MIN	7.51	2.52	1.00	.23	.000	.002	.000	.000	.28	8.93	16.4	7.21		
(WY)	1989	1991	1997	1997	2000	2000	1999	1999	1998	2000	1999	1987		

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1987 - 2000

ANNUAL TOTAL	6025.18	7565.29	
ANNUAL MEAN	16.5	20.7	22.0
HIGHEST ANNUAL MEAN			39.1
LOWEST ANNUAL MEAN			12.7
HIGHEST DAILY MEAN	240	Jul 2	420
LOWEST DAILY MEAN	.00	Feb 20	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 9	.00
MAXIMUM PEAK FLOW			671
MAXIMUM PEAK STAGE			4.16
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	11950	15010	15930
10 PERCENT EXCEEDS	48	60	55
50 PERCENT EXCEEDS	5.1	2.5	9.1
90 PERCENT EXCEEDS	.00	.00	.12

REVISED

CHARLOTTE HARBOR AND COASTAL AREA

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02293347 HERMOSA CANAL AT CAPE CORAL, FL

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.97	2.56	2.49	2.48	2.48	2.33	2.53	2.46	2.29	2.53	3.07	2.61
2	2.94	2.77	2.49	2.48	2.48	2.32	2.52	2.46	2.28	2.52	3.08	2.67
3	2.93	2.74	2.50	2.48	2.48	2.32	2.51	2.45	2.28	2.51	3.28	2.80
4	3.00	2.70	2.49	2.47	2.47	2.34	2.51	2.45	2.31	2.51	3.14	2.91
5	3.06	2.67	2.49	2.47	2.47	2.36	2.51	2.44	2.41	2.50	3.10	2.95
6	3.01	2.64	2.49	2.47	2.45	2.34	2.51	2.44	2.52	2.50	3.18	2.86
7	2.97	2.55	2.49	2.48	2.45	2.32	2.50	2.42	2.50	2.50	3.05	2.82
8	2.94	2.52	2.49	2.48	2.45	2.31	2.50	2.41	2.49	2.50	2.98	2.81
9	2.91	2.51	2.50	2.51	2.44	2.31	2.50	2.40	2.49	2.50	2.94	2.83
10	2.89	2.51	2.50	2.49	2.44	2.30	2.50	2.39	2.48	2.50	2.93	2.97
11	2.87	2.51	2.51	2.49	2.44	2.30	2.50	2.38	2.48	2.52	2.95	2.97
12	2.86	2.50	2.51	2.49	2.44	2.30	2.50	2.37	2.47	2.52	2.94	2.97
13	2.80	2.50	2.52	2.49	2.44	2.30	2.49	2.36	2.47	2.52	2.95	3.08
14	2.74	2.50	2.51	2.49	2.43	2.30	2.49	2.35	2.47	2.52	2.90	4.03
15	2.73	2.50	2.51	2.49	2.42	2.29	2.49	2.35	2.47	2.52	2.88	3.50
16	2.66	2.50	2.50	2.49	2.42	2.29	2.49	2.34	2.46	2.55	2.86	3.13
17	2.56	2.50	2.49	2.49	2.41	2.29	2.48	2.34	2.46	2.64	2.86	2.98
18	2.55	2.50	2.48	2.49	2.41	2.29	2.48	2.33	2.47	2.70	2.87	2.91
19	2.55	2.50	2.48	2.50	2.39	2.35	2.47	2.33	2.49	2.72	2.87	2.89
20	2.56	2.51	2.48	2.50	2.38	2.43	2.46	2.32	2.48	2.74	3.00	2.96
21	2.58	2.50	2.47	2.49	2.37	2.41	2.46	2.32	2.49	2.79	2.96	2.89
22	2.59	2.49	2.47	2.48	2.36	2.40	2.46	2.33	2.54	3.13	2.94	2.85
23	2.58	2.49	2.48	2.47	2.36	2.41	2.45	2.34	2.53	4.25	2.89	2.81
24	2.58	2.49	2.47	2.47	2.35	2.41	2.46	2.34	2.51	3.92	2.93	2.78
25	2.56	2.50	2.47	2.46	2.35	2.41	2.46	2.33	2.50	3.35	2.87	2.80
26	2.55	2.51	2.47	2.46	2.34	2.41	2.48	2.32	2.50	3.19	2.83	2.78
27	2.54	2.50	2.46	2.46	2.34	2.41	2.47	2.32	2.50	3.09	2.82	2.84
28	2.54	2.50	2.48	2.46	2.33	2.41	2.46	2.32	2.49	3.03	2.80	2.89
29	2.54	2.50	2.51	2.46	---	2.43	2.45	2.32	2.52	2.98	2.73	2.95
30	2.54	2.50	2.50	2.47	---	2.59	2.46	2.31	2.53	2.98	2.60	2.88
31	2.53	---	2.49	2.47	---	2.57	---	2.30	---	3.18	2.58	---
TOTAL	84.63	76.17	77.19	76.88	67.59	73.25	74.55	73.34	73.88	86.91	90.78	88.12
MEAN	2.73	2.54	2.49	2.48	2.41	2.36	2.49	2.37	2.46	2.80	2.93	2.94
MAX	3.06	2.77	2.52	2.51	2.48	2.59	2.53	2.46	2.54	4.25	3.28	4.03
MIN	2.53	2.49	2.46	2.46	2.33	2.29	2.45	2.30	2.28	2.50	2.58	2.61

CHARLOTTE HARBOR AND COASTAL AREA

02293347 HERMOSA CANAL AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	9.6	2.0	1.5	1.4	.00	4.7	.74	.00	4.7	108	.16
2	95	49	2.1	1.4	1.5	.00	3.8	.64	.00	4.0	99	2.5
3	93	42	2.4	1.3	1.4	.00	3.1	.12	.00	3.5	213	15
4	114	34	2.2	1.1	.86	.00	3.1	.11	.00	3.2	163	36
5	129	28	2.0	.89	.75	.00	3.3	.03	4.2	2.8	146	42
6	109	21	2.0	.99	.27	.00	3.2	.01	4.3	2.7	176	22
7	95	6.9	2.0	1.3	.05	.00	2.6	.00	2.4	2.5	132	14
8	81	4.4	2.0	1.5	.04	.00	2.9	.00	2.1	2.4	108	13
9	70	3.6	2.3	3.3	.00	.00	2.4	.00	1.8	2.4	95	15
10	59	3.3	2.7	2.2	.00	.00	2.5	.00	1.6	2.5	94	58
11	51	3.1	3.2	1.9	.00	.00	2.3	.00	1.3	4.4	98	74
12	46	2.9	3.3	2.0	.00	.00	2.3	.00	1.1	4.2	96	98
13	34	2.5	3.9	1.9	.00	.00	2.1	.00	1.1	4.0	100	140
14	37	2.8	3.2	1.9	.00	.00	2.0	.00	1.0	3.8	86	576
15	41	2.9	3.1	2.0	.00	.00	1.9	.00	.85	4.2	78	312
16	27	2.4	2.3	2.1	.00	.00	1.8	.00	.54	7.0	74	158
17	8.4	2.4	2.1	2.0	.00	.00	1.6	.00	.51	21	73	108
18	7.0	2.5	1.7	2.0	.00	.00	1.3	.00	.87	34	76	87
19	7.2	2.5	1.4	2.4	.00	.00	.92	.00	1.9	38	75	81
20	8.3	3.1	1.3	2.4	.00	.00	.54	.00	1.4	43	116	102
21	12	2.4	.99	2.1	.00	.00	.29	.00	2.5	54	98	81
22	13	1.8	1.1	1.5	.00	.00	.33	.00	6.6	161	88	71
23	12	1.9	1.3	.84	.00	.00	.13	.00	4.7	745	71	61
24	11	2.1	1.1	.82	.00	.00	.39	.00	3.0	533	78	52
25	8.5	2.4	.89	.63	.00	.00	.67	.00	2.5	243	57	57
26	7.1	3.0	.77	.50	.00	.00	1.3	.00	2.4	182	46	52
27	6.4	2.9	.51	.50	.00	.00	.87	.00	2.3	144	38	68
28	6.0	2.5	1.7	.52	.00	.00	.45	.00	2.1	125	31	81
29	6.1	2.5	3.3	.55	---	2.4	.27	.00	4.7	108	17	98
30	5.7	2.3	2.6	.87	---	14	.76	.00	5.3	107	.93	80
31	5.1	---	1.8	1.1	---	11	---	.00	---	173	.00	---
TOTAL	1309.8	252.7	63.26	46.01	6.27	27.40	53.82	1.65	63.07	2769.3	2730.93	2654.66
MEAN	42.3	8.42	2.04	1.48	.22	.88	1.79	.053	2.10	89.3	88.1	88.5
MAX	129	49	3.9	3.3	1.5	14	4.7	.74	6.6	745	213	576
MIN	5.1	1.8	.51	.50	.00	.00	.13	.00	.00	2.4	.00	.16
AC-FT	2600	501	125	91	12	54	107	3.3	125	5490	5420	5270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	34.6	14.2	9.11	10.1	10.8	7.87	3.94	5.50	25.8	45.4	45.8	48.2			
MAX	88.1	47.0	53.5	59.6	98.2	41.1	12.0	25.6	79.5	92.9	114	126			
(WY)	1996	1988	1998	1998	1998	1998	1994	1991	1995	1995	1995	2000			
MIN	7.51	2.52	1.00	.23	.000	.002	.000	.000	.28	8.93	16.4	7.21			
(WY)	1989	1991	1997	1997	2000	2000	1999	1999	1998	2000	1999	1987			

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1987 - 2001

ANNUAL TOTAL	7351.65	9978.87		
ANNUAL MEAN	20.1	27.3	22.4	
HIGHEST ANNUAL MEAN			39.1	1995
LOWEST ANNUAL MEAN			12.7	1990
HIGHEST DAILY MEAN	420	Sep 17	745	Jul 23
LOWEST DAILY MEAN	.00	Jan 17	.00	Feb 9
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 17	.00	Feb 9
MAXIMUM PEAK FLOW			1090	Jul 23
MAXIMUM PEAK STAGE			4.76	Jul 23
INSTANTANEOUS LOW FLOW			.00	Jun 2
ANNUAL RUNOFF (AC-FT)	14580	19790	16210	
10 PERCENT EXCEEDS	78	95	57	
50 PERCENT EXCEEDS	1.8	2.3	8.6	
90 PERCENT EXCEEDS	.00	.00	.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.

264437081550100 GATOR SLOUGH AT U.S. 41 NEAR FT. MYERS, FL

LOCATION.--Lat 26°44'38", long 81°54'59", in SE ¼ NE ¼ SW ¼ sec.9, T.43 S., R.24 E., Lee County, Hydrologic Unit 03100103, 325 ft upstream of bridge on U.S. Highway 41, 4.4 mi north of State Road 78, and 8.3 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1973 to 1984 (annual maximum gage heights only), June 1984 to current year. Prior to 1984, published as Gator Slough near Ft. Myers, FL.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to April 26, 1988, at site 325 ft downstream on upstream side of bridge on U.S. Highway 41 at datum -1.07 ft lower. Gage was extended into deeper water at same location May 27, 1997.

REMARKS.--Records good except for estimated daily discharges, which are poor.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 17 complete water years of discharge (1985-2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.66	15.70	15.32	15.02	15.01	14.99	15.53	15.07	15.02	e15.37	16.79	16.39
2	16.54	15.69	15.32	15.02	15.00	14.99	15.47	15.06	15.02	e15.35	16.83	16.75
3	16.43	15.69	15.32	15.02	15.00	14.98	15.43	15.06	15.02	e15.33	17.29	16.70
4	16.42	15.68	15.30	15.02	15.00	15.00	15.42	15.05	15.02	15.36	17.18	16.62
5	16.49	15.67	15.30	15.02	15.01	15.00	15.41	15.05	15.02	15.36	17.03	16.62
6	16.43	15.67	15.29	15.02	15.01	15.00	15.41	15.04	15.02	15.35	16.94	16.69
7	16.34	15.68	15.28	15.02	15.00	15.00	15.41	15.04	15.02	15.35	16.85	17.04
8	16.28	15.69	15.28	15.01	15.00	15.00	15.41	15.04	15.02	15.45	16.76	17.02
9	16.23	15.68	15.27	15.02	15.00	15.00	15.40	15.04	15.03	15.42	16.69	16.94
10	16.20	15.68	15.27	15.02	15.00	15.00	15.40	15.04	15.02	15.39	16.63	17.00
11	16.30	15.65	15.27	15.02	15.00	15.00	15.39	15.04	15.02	15.45	16.57	17.15
12	16.31	15.63	15.27	15.01	15.00	15.00	15.38	15.04	15.02	15.63	16.53	16.98
13	16.26	15.59	15.26	15.02	15.00	15.00	15.37	15.03	15.02	15.73	16.51	17.03
14	16.23	15.58	15.24	15.01	15.00	15.00	15.36	15.03	15.02	15.76	16.50	17.84
15	16.21	15.58	15.24	15.01	15.00	15.00	15.34	15.03	15.02	15.98	16.48	17.67
16	16.04	15.55	15.24	15.01	15.00	15.00	15.32	15.03	15.02	16.51	16.46	17.21
17	15.78	15.54	15.24	15.01	15.00	15.00	15.30	15.03	15.02	16.39	16.53	16.94
18	15.72	15.53	15.22	15.01	15.00	15.00	15.27	15.03	15.02	16.22	16.89	16.80
19	15.70	15.49	15.22	15.01	15.00	15.08	15.25	15.03	15.02	16.09	16.77	16.77
20	15.70	15.47	15.21	15.01	14.99	15.07	15.23	15.02	15.02	16.13	16.67	16.84
21	15.69	15.45	15.18	15.01	14.99	15.07	15.18	15.02	15.03	16.38	16.60	16.74
22	15.69	15.43	15.16	15.01	14.99	15.07	15.12	15.02	15.04	16.73	16.59	16.65
23	15.68	e15.40	15.13	15.01	14.99	15.06	15.10	15.02	15.03	18.16	16.53	16.57
24	15.68	e15.38	15.09	15.01	14.99	15.05	15.10	15.02	15.31	18.26	16.53	16.53
25	15.68	e15.37	15.08	15.01	14.99	15.05	15.09	15.02	15.25	17.68	16.48	16.51
26	15.68	e15.37	15.04	15.01	14.99	15.04	15.08	15.02	15.06	17.56	16.43	16.50
27	15.68	e15.36	15.03	15.01	14.99	15.04	15.08	15.02	15.02	17.35	16.39	16.58
28	15.68	e15.35	15.03	15.01	14.99	15.04	15.07	15.02	15.02	17.04	16.34	16.69
29	15.67	15.33	15.03	15.01	---	15.10	15.07	15.02	15.17	16.84	16.30	16.84
30	15.67	15.32	15.03	15.01	---	15.50	15.07	15.02	15.23	16.83	16.29	16.79
31	15.69	---	15.02	15.01	---	15.58	---	15.02	---	17.01	16.33	---
TOTAL	496.76	466.20	471.18	465.42	419.94	466.71	458.46	466.02	451.57	503.46	515.71	505.40
MEAN	16.02	15.54	15.20	15.01	15.00	15.06	15.28	15.03	15.05	16.24	16.64	16.85
MAX	16.66	15.70	15.32	15.02	15.01	15.58	15.53	15.07	15.31	18.26	17.29	17.84
MIN	15.67	15.32	15.02	15.01	14.99	14.98	15.07	15.02	15.02	15.33	16.29	16.39

e Estimated

CHARLOTTE HARBOR AND COASTAL AREA

264437081550100 GATOR SLOUGH AT U.S. 41 NEAR FT. MYERS, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	1.2	.00	.00	.00	.00	1.3	.00	.00	e.35	36	7.8
2	18	1.1	.00	.00	.00	.00	.85	.00	.00	e.27	36	17
3	14	1.1	.00	.00	.00	.00	.64	.00	.00	e.24	58	15
4	14	1.0	.00	.00	.00	.00	.57	.00	.00	.33	49	13
5	17	.95	.00	.00	.00	.00	.54	.00	.00	.30	39	12
6	15	.96	.00	.00	.00	.00	.51	.00	.00	.29	33	16
7	12	1.0	.00	.00	.00	.00	.51	.00	.00	.28	28	31
8	10	1.1	.00	.00	.00	.00	.50	.00	.00	.74	24	30
9	8.8	1.1	.00	.00	.00	.00	.47	.00	.00	.56	21	24
10	8.2	1.0	.00	.00	.00	.00	.47	.00	.00	.49	19	31
11	11	.88	.00	.00	.00	.00	.45	.00	.00	.97	17	43
12	11	.71	.00	.00	.00	.00	.39	.00	.00	2.7	15	28
13	9.7	.51	.00	.00	.00	.00	.36	.00	.00	4.2	15	32
14	8.9	.47	.00	.00	.00	.00	.32	.00	.00	4.9	14	107
15	8.4	.47	.00	.00	.00	.00	.25	.00	.00	10	13	94
16	5.7	.35	.00	.00	.00	.00	.19	.00	.00	27	13	50
17	1.9	.33	.00	.00	.00	.00	.14	.00	.00	22	15	28
18	1.4	.28	.00	.00	.00	.00	.09	.00	.00	17	26	23
19	1.2	.17	.00	.00	.00	.00	.06	.00	.00	13	21	22
20	1.2	.12	.00	.00	.00	.00	.02	.00	.00	14	18	25
21	1.2	.09	.00	.00	.00	.00	.00	.00	.00	24	15	22
22	1.1	.05	.00	.00	.00	.00	.00	.00	.00	41	15	19
23	1.0	e.00	.00	.00	.00	.00	.00	.00	.00	145	13	17
24	1.1	e.00	.00	.00	.00	.00	.00	.00	.16	154	13	16
25	1.1	e.00	.00	.00	.00	.00	.00	.00	.05	105	11	16
26	1.1	e.00	.00	.00	.00	.00	.00	.00	.00	93	9.7	16
27	1.1	e.00	.00	.00	.00	.00	.00	.00	.00	77	8.5	19
28	1.0	e.00	.00	.00	.00	.00	.00	.00	.00	57	7.3	23
29	1.0	.00	.00	.00	---	.00	.00	.00	.00	44	6.3	29
30	.97	.00	.00	.00	---	.93	.00	.00	.10	42	6.1	28
31	1.1	---	.00	.00	---	1.7	---	.00	---	49	6.6	---
TOTAL	213.17	14.94	0.00	0.00	0.00	2.63	8.63	0.00	0.31	950.62	621.5	853.8
MEAN	6.88	.50	.000	.000	.000	.085	.29	.000	.010	30.7	20.0	28.5
MAX	24	1.2	.00	.00	.00	1.7	1.3	.00	.16	154	58	107
MIN	.97	.00	.00	.00	.00	.00	.00	.00	.00	.24	6.1	7.8
AC-FT	423	30	.00	.00	.00	5.2	17	.00	.6	1890	1230	1690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	8.30	2.53	1.79	2.12	2.10	1.82	.89	2.27	11.9	18.6	17.0	16.1						
MAX	39.8	8.32	14.7	15.1	23.8	18.6	4.38	28.3	47.3	41.5	49.7	41.9						
(WY)	1996	1988	1998	1998	1998	1998	1998	1991	1995	1991	1995	1995						
MIN	.96	.012	.000	.000	.000	.000	.000	.000	.010	1.66	1.24	.79						
(WY)	1990	1989	1989	1989	1986	1989	1989	1986	2001	1998	1990	1990						

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1984 - 2001

ANNUAL TOTAL	1784.18	2665.60	
ANNUAL MEAN	4.87	7.30	7.15
HIGHEST ANNUAL MEAN			17.5
LOWEST ANNUAL MEAN			.64
HIGHEST DAILY MEAN	93	Sep 18	154 Jul 24
LOWEST DAILY MEAN	.00	Mar 16	.00 Nov 23
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 29	.00 Nov 23
MAXIMUM PEAK FLOW			183 Jul 23
MAXIMUM PEAK STAGE			18.63 Jul 23
INSTANTANEOUS LOW FLOW			.00 Feb 21
ANNUAL RUNOFF (AC-FT)	3540	5290	5180
10 PERCENT EXCEEDS	17	23	21
50 PERCENT EXCEEDS	.86	.00	1.4
90 PERCENT EXCEEDS	.00	.00	.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.

CHARLOTTE HARBOR AND COASTAL AREA

264139082022100 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 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."

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

REMARKS.--Records good, except for estimated daily discharges, which are poor. Formerly published as, "near Ft. Myers, Fl."

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 14 complete water years of discharge (1985-97, 2001).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.88	2.52	2.47	e2.43	2.41	2.22	e2.68	2.43	2.29	2.53	e2.89	2.64
2	2.82	2.50	2.46	e2.43	2.41	2.21	e2.53	2.43	2.28	2.52	e2.95	2.72
3	2.77	2.49	2.47	e2.43	2.41	2.21	e2.50	2.40	2.28	2.51	e3.39	2.75
4	2.81	2.49	2.46	e2.43	2.39	2.23	e2.48	2.40	2.31	2.51	e3.28	2.85
5	2.82	2.50	2.46	e2.44	2.39	2.26	2.47	2.39	2.41	2.50	e3.13	3.01
6	2.79	2.50	2.45	e2.44	2.38	e2.27	2.48	2.38	2.52	2.50	e3.04	2.94
7	2.74	2.45	2.46	e2.44	2.38	e2.30	2.47	2.36	2.50	2.49	e2.96	2.99
8	2.72	2.48	2.46	e2.44	2.38	e2.31	2.48	2.37	2.49	2.51	e2.84	2.99
9	2.71	2.47	2.46	e2.45	2.36	e2.31	2.48	2.33	2.49	2.50	2.75	2.96
10	2.70	2.49	2.46	e2.45	2.34	e2.32	2.48	2.31	2.48	2.49	2.72	3.04
11	2.68	2.48	2.46	2.44	2.35	e2.33	2.47	2.30	2.48	2.50	2.69	3.22
12	2.66	2.49	e2.47	2.44	2.34	2.34	2.47	2.28	2.47	2.49	2.68	3.15
13	2.64	2.46	e2.47	2.44	2.33	2.34	2.47	2.28	2.47	2.49	2.69	3.17
14	2.61	2.48	e2.45	2.44	2.31	2.35	2.47	2.29	2.47	2.48	2.68	3.98
15	2.59	2.49	e2.45	2.44	2.31	2.36	2.47	2.27	2.47	2.58	2.66	3.82
16	2.57	2.48	e2.46	2.44	2.30	e2.37	2.45	2.27	2.46	2.86	2.64	3.46
17	2.56	2.48	e2.46	2.44	2.29	e2.38	2.46	2.27	2.46	2.82	2.63	3.17
18	2.58	2.48	e2.46	2.44	2.29	e2.39	2.46	2.26	2.47	2.80	2.70	3.04
19	2.59	2.48	e2.47	2.44	2.28	e2.45	2.46	2.25	2.49	2.74	2.73	2.94
20	2.59	2.46	e2.46	2.44	2.26	e2.46	2.45	2.24	2.48	2.71	2.75	3.08
21	2.59	2.48	e2.44	2.44	2.26	e2.47	2.42	2.25	2.49	2.72	2.71	3.01
22	2.59	2.48	e2.42	2.43	2.25	e2.45	2.44	2.23	2.54	2.94	2.66	2.89
23	2.57	2.48	e2.40	2.42	2.25	2.45	2.43	2.25	2.53	3.88	2.65	2.82
24	2.56	2.48	e2.39	2.42	2.24	2.45	2.44	2.23	2.51	4.02	2.75	2.77
25	2.54	2.49	e2.40	2.41	2.24	2.46	2.45	2.22	2.50	3.68	2.70	2.75
26	2.53	2.49	e2.40	2.41	2.24	2.47	2.46	2.21	2.50	3.52	2.65	2.75
27	2.52	2.48	e2.40	2.41	2.23	2.46	2.44	2.21	2.50	e3.36	2.62	2.79
28	2.52	2.48	e2.42	2.41	2.22	2.47	2.43	2.19	2.49	e3.16	2.60	2.84
29	2.53	2.47	e2.44	2.41	---	2.49	2.40	2.24	2.52	e3.01	2.58	2.98
30	2.52	2.47	e2.43	2.41	---	2.71	2.41	2.31	2.53	e2.90	2.60	2.95
31	2.51	---	e2.43	2.41	---	2.73	---	2.30	---	e2.93	2.62	---
TOTAL	81.81	74.47	75.79	75.36	64.84	74.02	74.00	71.15	73.88	87.65	85.94	90.47
MEAN	2.64	2.48	2.44	2.43	2.32	2.39	2.47	2.30	2.46	2.83	2.77	3.02
MAX	2.88	2.52	2.47	2.45	2.41	2.73	2.68	2.43	2.54	4.02	3.39	3.98
MIN	2.51	2.45	2.39	2.41	2.22	2.21	2.40	2.19	2.28	2.48	2.58	2.64

e Estimated

CHARLOTTE HARBOR AND COASTAL AREA

264139082022100 GATOR SLOUGH AT SR 765 AT CAPE CORAL, FL

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	5.9	1.0	e.00	.00	.00	e46	.02	.00	9.7	e43	34
2	76	4.1	.31	e.00	.00	.00	e7.6	.03	.00	8.8	e93	60
3	59	2.6	.77	e.00	.00	.00	e4.5	.00	.00	8.2	e422	72
4	77	2.7	.29	e.00	.00	.00	e3.5	.00	.00	7.9	e342	133
5	83	3.7	.41	e.00	.00	.00	2.0	.00	6.8	7.3	e242	216
6	70	3.7	.37	e.00	.00	e.00	2.7	.00	8.2	6.8	e200	167
7	50	.99	.36	e.00	.00	e.00	2.2	.00	5.8	6.5	e171	201
8	45	2.2	.14	e.00	.00	e.00	2.6	.00	5.2	7.8	e129	200
9	44	1.5	.33	e.00	.00	e.00	2.6	.00	4.7	6.1	90	182
10	39	2.9	.40	e.00	.00	e.00	2.5	.00	4.2	5.4	78	236
11	36	2.2	.14	.00	.00	e.00	2.3	.00	3.6	6.4	64	378
12	33	2.8	e.68	.00	.00	.00	2.3	.00	3.2	4.6	57	318
13	27	.94	e.51	.00	.00	.00	2.1	.00	4.0	4.8	62	345
14	21	2.4	e.00	.00	.00	.00	2.1	.00	4.0	3.4	57	1400
15	16	2.6	e.00	.00	.00	.00	1.9	.00	3.7	34	49	1100
16	12	2.0	e.00	.00	.00	e.00	.94	.00	3.1	122	44	629
17	12	2.1	e.00	.00	.00	e.00	1.5	.00	3.0	99	39	346
18	13	2.3	e.15	.00	.00	e.00	1.5	.00	3.7	88	65	241
19	16	1.6	e.91	.00	.00	e3.0	.65	.00	5.7	67	75	178
20	17	.95	e.38	.00	.00	e1.4	.11	.00	4.8	52	83	275
21	17	2.0	e.00	.00	.00	e2.0	.00	.00	6.4	58	63	217
22	17	1.8	e.00	.00	.00	e.74	.03	.00	13	170	47	146
23	13	1.9	e.00	.00	.00	.11	.01	.00	9.7	1230	45	111
24	11	1.8	e.00	.00	.00	.44	.00	.00	7.6	1300	82	88
25	8.2	2.5	e.00	.00	.00	.93	.11	.00	6.9	440	61	79
26	6.8	2.7	e.00	.00	.00	1.5	.66	.00	6.7	270	40	77
27	6.2	2.3	e.00	.00	.00	1.4	.01	.00	6.6	e189	31	94
28	6.2	1.6	e.00	.00	.00	1.8	.00	.00	6.2	e98	25	119
29	7.0	1.2	e.00	.00	---	7.0	.00	.00	10	e51	22	201
30	6.4	1.2	e.00	.00	---	53	.01	.00	11	e27	26	182
31	5.2	---	e.00	.00	---	61	---	.00	---	e46	31	---
TOTAL	957.0	69.18	7.15	0.00	0.00	134.32	92.43	0.05	157.80	4434.7	2878	8025
MEAN	30.9	2.31	.23	.000	.000	4.33	3.08	.002	5.26	143	92.8	268
MAX	107	5.9	1.0	.00	.00	61	46	.03	13	1300	422	1400
MIN	5.2	.94	.00	.00	.00	.00	.00	.00	.00	3.4	22	34
AC-FT	1900	137	14	.00	.00	266	183	.1	313	8800	5710	15920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	69.1	20.5	7.65	12.3	7.94	13.0	10.5	13.8	66.0	111	129	111						
MAX	253	42.2	18.9	38.1	20.1	41.5	43.2	58.0	215	284	359	268						
(WY)	1996	1997	1988	1987	1993	1987	1987	1991	1995	1995	1997	2001						
MIN	17.4	2.31	.23	.000	.000	.000	.44	.002	.24	9.15	55.3	23.3						
(WY)	1989	2001	2001	2001	1997	1997	1985	2001	1985	2000	1993	1990						

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1984 - 2001

ANNUAL TOTAL							16755.63											
ANNUAL MEAN							45.9			48.2								
HIGHEST ANNUAL MEAN										92.7								1995
LOWEST ANNUAL MEAN										21.7								1990
HIGHEST DAILY MEAN				576	Sep 18		1400	Sep 14		1400	Sep 14	2001						
LOWEST DAILY MEAN				.00	Dec 14		.00	Dec 14		.00	Apr 6	1985						
ANNUAL SEVEN-DAY MINIMUM				.00	Dec 21		.00	Dec 21		.00	May 2	1985						
MAXIMUM PEAK FLOW							2550	Sep 14		2550	Sep 14	2001						
MAXIMUM PEAK STAGE							4.61	Sep 14		4.61	Sep 14	2001						
INSTANTANEOUS LOW FLOW							.00	May 29		.00	May 29	2001						
ANNUAL RUNOFF (AC-FT)							33230			34900								
10 PERCENT EXCEEDS				132			109			130								
50 PERCENT EXCEEDS				9.4			2.1			16								
90 PERCENT EXCEEDS				.31			.00			.50								

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.

SURFACE WATER QUALITY RECORDS
FIELD MEASUREMENTS

SURFACE WATER QUALITY RECORDS

FIELD MEASUREMENTS

MULTIPLE STATION ANALYSES

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
02282100	CYPRESS CREEK C AT S-37A,	26 12 20 N	080 07 57 W	10-26-00	1023	452	40.0
		26 12 20 N	080 07 57 W	01-17-01	1330	610	70.0
		26 12 20 N	080 07 57 W	04-17-01	1044	498	58.0
		26 12 20 N	080 07 57 W	07-18-01	1100	482	56.0
02282700	MIDDLE RIVER CANAL AT S-36	26 10 22 N	080 10 47 W	10-26-00	1246	602	66.0
		26 10 22 N	080 10 47 W	01-18-01	1200	600	76.0
		26 10 22 N	080 10 47 W	04-17-01	1406	586	74.0
		26 10 22 N	080 10 47 W	07-17-01	1424	595	54.0
02282701	MIDDLE RIVER CANAL BL S-36	26 10 22 N	080 10 44 W	10-26-00	1246	654	82.0
		26 10 22 N	080 10 44 W	01-18-01	1201	9870	3250
		26 10 22 N	080 10 44 W	04-17-01	1408	5830	1760
02283200	PLANTATION RD CA AT S-33 N	26 08 05 N	080 11 42 W	10-26-00	0943	362	32.0
		26 08 05 N	080 11 42 W	01-18-01	1215	425	56.0
		26 08 05 N	080 11 42 W	04-18-01	0955	305	50.0
		26 08 05 N	080 11 42 W	07-17-01	1111	217	36.0
02283201	PLANTATION RD CA BL S-33 N	26 08 05 N	080 11 40 W	10-26-00	0943	485	30.0
		26 08 05 N	080 11 40 W	01-18-01	1216	3330	1000
		26 08 05 N	080 11 40 W	04-18-01	0958	486	40.0
		26 08 05 N	080 11 40 W	07-17-01	1112	306	36.0
02285000	NORTH NEW RIVER CANAL NEAR	26 05 39 N	080 13 48 W	10-27-00	1255	666	52.0
		26 05 39 N	080 13 48 W	01-19-01	1230	522	78.0
		26 05 39 N	080 13 48 W	04-18-01	1316	501	76.0
		26 05 39 N	080 13 48 W	07-19-01	1339	407	56.0
02285001	NORTH NEW RIVER CANAL BL C	26 05 39 N	080 13 50 W	10-27-00	1330	762	124
		26 05 39 N	080 13 50 W	01-19-01	1305	5720	1820
		26 05 39 N	080 13 50 W	04-18-01	1420	3790	1080
		26 05 39 N	080 13 50 W	07-19-01	1405	426	52.0
02285101	NORTH NEW RIVER CA AT SR7	26 05 15 N	080 12 00 W	10-27-00	1330	6600	2000
		26 05 15 N	080 12 00 W	01-19-01	1300	9550	3150
		26 05 15 N	080 12 00 W	04-18-01	1416	5690	1700
		26 05 15 N	080 12 00 W	07-19-01	1400	455	54.0
260037080100700	HOLLYWOOD CANAL AT HOLLYWO	26 00 37 N	080 10 07 W	10-27-00	1005	597	48.0
		26 00 37 N	080 10 07 W	01-29-01	1330	8660	2550
		26 00 37 N	080 10 07 W	04-17-01	1413	1040	200
		26 00 37 N	080 10 07 W	07-26-01	1149	2260	620
260104080101300	HOLLYWOOD CANAL AT JOHNSON	26 01 04 N	080 10 13 W	10-27-00	1121	2050	720
		26 01 04 N	080 10 13 W	01-29-01	1416	8550	2800
		26 01 04 N	080 10 13 W	04-17-01	1145	2460	840
		26 01 04 N	080 10 13 W	07-26-01	1130	4110	1080
260132080094900	HOLLYWOOD CANAL AT TAFT ST	26 01 32 N	080 09 49 W	10-27-00	1227	9150	3100
		26 01 32 N	080 09 49 W	01-29-01	1207	15400	5400
		26 01 32 N	080 09 49 W	04-18-01	1532	11200	3900
		26 01 32 N	080 09 49 W	07-26-01	1532	9280	2850

VOLUME 2A: SOUTH FLORIDA

SURFACE WATER QUALITY RECORDS

FIELD MEASUREMENTS

MULTIPLE STATION ANALYSES

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
260212080112500	HOLLYWOOD CANAL AT N46 AVE	26 02 12 N	080 11 25 W	10-27-00	1400	601	70.0
		26 02 12 N	080 11 25 W	01-29-01	1358	914	215
		26 02 12 N	080 11 25 W	06-25-01	1530	839	195
		26 02 12 N	080 11 25 W	07-26-01	1530	470	92.0
260225080095800	HOLLYWOOD CANAL AT N29 AVE	26 02 25 N	080 09 58 W	10-27-00	1309	11500	3700
		26 02 25 N	080 09 58 W	01-29-01	1358	24700	7600
		26 02 25 N	080 09 58 W	04-18-01	1517	29900	10600
		26 02 25 N	080 09 58 W	07-26-01	1520	9930	3050
260956080094200	MIDDLE RIVER CA AT OAKLAND	26 09 56 N	080 09 42 W	10-26-00	1258	588	52.0
		26 09 56 N	080 09 42 W	01-18-01	1220	3140	900
		26 09 56 N	080 09 42 W	04-17-01	1325	1400	310
		26 09 56 N	080 09 42 W	07-18-01	1430	711	90.0
261000080084900	N FORK MIDDLE RIVER AT AND	26 10 00 N	080 08 49 W	10-26-00	1341	3500	980
		26 10 00 N	080 08 49 W	01-18-01	1300	13900	4500
		26 10 00 N	080 08 49 W	04-17-01	1443	8240	2600
		26 10 00 N	080 08 49 W	07-18-01	1500	3180	1000
261010080090400	N FORK MIDDLE R AT NW 34 S	26 10 10 N	080 09 04 W	10-26-00	1336	1850	445
		26 10 10 N	080 09 04 W	01-18-01	1241	13200	4300
		26 10 10 N	080 09 04 W	04-17-01	1437	7740	2450
		26 10 10 N	080 09 04 W	07-18-01	1454	3550	1000
261019080100300	ROYAL PALM ISLES CA (C-13F	26 10 19 N	080 10 03 W	10-26-00	1258	582	46.0
		26 10 19 N	080 10 03 W	01-18-01	1110	1470	335
		26 10 19 N	080 10 03 W	04-17-01	1315	1050	195
		26 10 19 N	080 10 03 W	07-18-01	1420	596	48.0
261019080100600		26 10 19 N	080 10 06 W	10-26-00	1255	610	68.0
261019080100600	ROYAL PALM ISLES CA (C-13F	26 10 19 N	080 10 06 W	01-18-01	1100	9860	3100
		26 10 19 N	080 10 06 W	04-17-01	1320	6900	2150
		26 10 19 N	080 10 06 W	07-18-01	1424	1810	425
261020080091700	N FORK MIDDLE R AT NW 9 AV	26 10 20 N	080 09 17 W	10-26-00	1315	2120	560
		26 10 20 N	080 09 17 W	01-18-01	1235	920	195
		26 10 20 N	080 09 17 W	04-17-01	1418	1880	490
		26 10 20 N	080 09 17 W	07-18-01	1436	308	30.0
261034080093500	CA-13 FEEDER CA AT 10TH AV	26 10 34 N	080 09 35 W	10-26-00	1202	445	52.0
		26 10 34 N	080 09 35 W	01-18-01	0930	395	44.0
		26 10 34 N	080 09 35 W	04-17-01	1240	357	42.0
		26 10 34 N	080 09 35 W	07-18-01	1259	316	32.0
261952080074500	E-3 CA AT SW 18TH ST IN BO	26 19 52 N	080 07 45 W	10-18-00	1005	504	44.0
		26 19 52 N	080 07 45 W	12-04-00	1025	618	66.0
		26 19 52 N	080 07 45 W	01-03-01	0959	573	58.0
		26 19 52 N	080 07 45 W	02-06-01	0943	589	66.0
		26 19 52 N	080 07 45 W	03-05-01	1118	543	78.0
		26 19 52 N	080 07 45 W	04-09-01	1046	515	52.0
		26 19 52 N	080 07 45 W	05-07-01	1005	539	58.0
		26 19 52 N	080 07 45 W	06-05-01	1242	374	52.0
		26 19 52 N	080 07 45 W	07-09-01	1207	514	30.0
		26 19 52 N	080 07 45 W	08-06-01	1256	427	38.0
		26 19 52 N	080 07 45 W	09-20-01	1234	469	42.0

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NATIONAL WATER-QUALITY ASSESSMENT
(NAWQA) DATA

NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey 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; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

02281200 - HILLSBORO CANAL AT S-6 NEAR SHAWANO

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	AGENCY COL-LECTING SAMPLE NUMBER (00027)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	SAMPLE LOC-ATION, DIST UP-STREAM (FEET) (72105)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH DIS-WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	
APR 19...	80020	1028	9.27	.00	146.00	100.0	770	4.9	60	7.9	1180	23.0	26.0
MAY 24...	80020	1028	9.18	.00	146.00	100.0	763	5.3	66	7.6	873	31.5	26.5
JUN 27...	80020	1028	10.53	.00	146.00	100.0	770	.8	10	7.2	1270	29.5	27.0
JUL 25...	80020	1028	10.68	2250	146.00	100.0	766	2.5	31	7.2	987	33.0	27.0
AUG 15...	80020	1028	11.29	.00	146.00	100.0	764	.3	4	7.0	1280	32.0	28.0
SEP 19...	80020	1028	9.27	2590	146.00	100.0	764	1.7	22	7.1	1340	31.5	27.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	SODIUM AD-SORP-TION RATIO AS NA (00931)	SODIUM, DIS-SOLVED (MG/L) PERCENT (00930)	SODIUM CACO3 (00932)	ALKA-LINITY WAT TOT FIELD (MG/L) AS HCO3 (39086)	BICAR-BONATE DIS IT FIELD (MG/L) AS CL (00453)	CHLO-RIDE, DIS-SOLVED (MG/L) AS F (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS SIO2 (00950)	SILICA, DIS-SOLVED (MG/L) AS (00955)
APR 19...	50	350	91.1	28.9	8.27	3	111	40	296	361	169	.8	14.7
MAY 24...	61	250	61.3	22.4	8.08	2	79.4	40	184	224	120	.5	8.0
JUN 27...	33	350	91.0	30.4	7.76	3	127	43	319	389	190	.9	18.3
JUL 25...	53	330	86.9	26.7	9.07	2	71.2	31	274	334	106	.8	14.1
AUG 15...	17	390	99.8	33.5	8.02	3	116	39	370	451	171	1.0	21.6
SEP 19...	11	410	104	35.7	7.59	2	115	38	395	482	173	1.1	23.1

VOLUME 2A: SOUTH FLORIDA

NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM
02281200 - HILLSBORO CANAL AT S-6 NEAR SHAWANO

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00631)
APR 19...	54.0	1.04	--	766	658	.155	1.9	2.3	.20	2.4	.518	2.29	.539
MAY 24...	58.0	.72	--	532	468	.128	1.4	1.5	.16	1.4	.015	.066	.019
JUN 27...	63.4	1.10	--	812	721	.419	2.1	2.0	.54	2.3	.106	.469	.143
JUL 25...	56.1	.88	3930	647	546	.269	2.5	2.5	.35	5.0	2.43	10.8	2.51
AUG 15...	46.4	1.08	--	796	720	.606	2.5	2.8	.78	2.6	.037	.164	.056
SEP 19...	53.4	1.16	5950	850	753	.798	2.9	3.3	1.03	3.2	.292	1.29	.349

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, TOTAL (MG/L AS N) (00605)	NITRO- GEN,PAR TICULATE WAT FLT SUSP (MG/L AS N) (49570)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHATE, DIS- SOLVED (MG/L AS PO4) (00660)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, INORG + PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
APR 19...	.069	.021	1.7	2.1	.176	2.8	--	.009	<.007	.034	1.3	30	20
MAY 24...	.013	.004	1.3	1.4	.109	1.5	--	.009	<.007	.025	.7	22	M
JUN 27...	.122	.037	1.7	1.5	.059	2.1	--	.006	<.007	.018	.4	31	20
JUL 25...	.273	.083	2.2	2.3	.068	5.1	.319	.122	.104	.137	1.0	39	30
AUG 15...	.062	.019	1.9	2.2	.212	2.8	--	.008	<.007	.035	1.1	37	50
SEP 19...	.187	.057	2.1	2.5	.492	3.6	.120	.043	.039	.089	9.6	43	30

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,4-D METHYL ESTER, WATER FLTRD REC (50470)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD REC (38746)	2,6-DI-ETHYL ANILINE WAT FLT GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U (UG/L) (49308)	3-KETO CARBO-FURAN WATER FLTRD REC (UG/L) (50295)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, GF 0.7U (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT REC (UG/L) (49314)	ALDI-CARB, FLTRD, GF 0.7U (UG/L) (49312)
APR 19...	E2.5	<.086	.12	<.05	<.002	<.06	<.072	<.004	<.06	<.002	<.16	<.03	<.08
MAY 24...	E1.9	--	--	--	<.002	--	--	<.004	--	<.002	--	--	--
JUN 27...	5.9	--	--	--	<.002	--	--	<.004	--	<.002	--	--	--
JUL 25...	5.8	--	--	--	<.002	--	--	<.004	--	<.002	--	--	--
AUG 15...	8.3	--	--	--	<.002	--	--	<.004	--	<.002	--	--	--
SEP 19...	11.6	--	--	--	<.002	--	--	<.004	--	<.002	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ALPHA-BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BARBAN SURROG-ATE WTR FLT SCD 2060, RE PERCENT (90640)	BENDIO-CARB, WATER FLTRD REC (UG/L) (50299)	BEN-FLUR-ALIN WAT FLD GF, REC (UG/L) (82673)	BEN-SUL-FURON WATER METHYL FLTRD REC (UG/L) (50300)	BEN-TA-ZON, WATER, FLTRD, GF 0.7U (UG/L) (61693)	BRO-MACIL, WATER, DISS, REC (UG/L) (38711)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U (UG/L) (04029)	BUTYL-ATE, WATER, REC (UG/L) (49311)	CAF-FEINE, WATER FLTRD REC (UG/L) (04028)	CAF-FEINE-C13 SURROG, WAT FLT REC PERCENT (50305)	(99959)
APR 19...	<.005	4.36	E24	<.061	<.010	<.022	<.0482	E.03	<.08	<.06	<.002	<.081	E20
MAY 24...	<.005	.965	--	--	<.010	--	--	--	--	--	<.002	--	--
JUN 27...	<.005	.450	--	--	<.010	--	--	--	--	--	<.002	--	--
JUL 25...	<.005	1.13	--	--	<.010	--	--	--	--	--	<.002	--	--
AUG 15...	<.005	.080	--	--	<.010	--	--	--	--	--	<.002	--	--
SEP 19...	<.005	.039	--	--	<.010	--	--	--	--	--	<.002	--	--

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DATE	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL, WATER, FLTRD, 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN, WATER, FLTRD, 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER, WATER, FLTRD, (UG/L) (61188)	CHLORI-MURON, WATER, FLTRD, REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT,FLT REC (UG/L) (49306)	CHLOR-PYRIFOS, DIS-SOLVED, REC (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL-MONO-ACID, WAT,FLT REC (UG/L) (49304)	DCPA-WATER, FLTRD, 0.7 U GF, REC (UG/L) (82682)
APR 19...	<.06	<.041	<.06	<.020	<.11	<.037	<.05	.006	<.04	<.018	<.05	<.07	<.003
MAY 24...	--	<.041	--	<.020	--	--	--	<.005	--	<.018	--	--	<.003
JUN 27...	--	<.041	--	<.020	--	--	--	<.005	--	<.018	--	--	<.003
JUL 25...	--	<.041	--	<.020	--	--	--	<.005	--	<.018	--	--	<.003
AUG 15...	--	<.041	--	<.020	--	--	--	<.005	--	<.018	--	--	<.003
SEP 19...	--	<.041	--	<.020	--	--	--	<.005	--	<.018	--	--	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DEETHYL-ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL-DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L) (04039)	DEISO-PROPYL ATRAZIN, WATER, DISS, REC (UG/L) (04038)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED, (UG/L) (39572)	DICAMBA-WATER, FLTRD, REC (UG/L) (38442)	DICHLOR-PROP, WATER, FLTRD, REC (UG/L) (49302)	DI-ELDRIN, DIS-SOLVED, REC (UG/L) (39381)	DINOSEB-WATER, FLTRD, REC (UG/L) (49301)	DIPHEN-AMID, WATER, FLTRD, REC (UG/L) (04033)	DISUL-FOTON, WATER, FLTRD, 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, REC (UG/L) (49300)	EPTC-WATER, FLTRD, 0.7 U GF, REC (UG/L) (82668)
APR 19...	E.113	<.06	M	98	.005	<.10	<.05	<.005	<.04	<.06	<.021	<.08	<.002
MAY 24...	E.044	--	--	109	<.005	--	--	<.005	--	--	<.021	--	<.002
JUN 27...	.008	--	--	123	<.005	--	--	<.005	--	--	<.021	--	<.002
JUL 25...	E.034	--	--	116	<.005	--	--	<.005	--	--	<.021	--	<.002
AUG 15...	E.004	--	--	122	<.005	--	--	<.005	--	--	<.021	--	<.002
SEP 19...	E.003	--	--	109	<.005	--	--	<.005	--	--	<.021	--	<.002

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUMET- SULAM WATER FLTRD REC (UG/L) (61694)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOPOS WATER FLTRD, GF 0.7U DISS (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC (UG/L) (91065)	HYDROXY ATRA- ZINE WATER FLTRD REC (UG/L) (50355)	IMAZ- AQUIN WATER FLTRD REC (UG/L) (50356)	IMID- IMAZE- THAPYR WATER FLTRD REC (UG/L) (50407)	ACLOP- RID WATER FLTRD REC (UG/L) (61695)	LINDANE DIS- SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)
APR 19...	<.009	<.005	<.07	<.0866	<.06	<.003	86	<.193	<.103	<.088	<.1060	<.004	<.07
MAY 24...	<.009	<.005	--	--	--	<.003	98	--	--	--	--	<.004	--
JUN 27...	<.009	<.005	--	--	--	<.003	98	--	--	--	--	<.004	--
JUL 25...	<.009	<.005	--	--	--	<.003	108	--	--	--	--	<.004	--
AUG 15...	<.009	<.005	--	--	--	<.003	93	--	--	--	--	<.004	--
SEP 19...	<.009	<.005	--	--	--	<.003	73	--	--	--	--	<.004	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL- AXYL WATER FLTRD REC (UG/L) (50359)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH- OMYL WATER FLTRD REC (UG/L) (61696)	METH- OMYL WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MET- SUL- FURON METHYL WAT FLT REC (UG/L) (61697)
APR 19...	<.035	<.027	<.06	<.06	<.057	<.08	<.0102	E.02	<.050	<.006	.060	<.006	<.1138
MAY 24...	<.035	<.027	--	--	--	--	--	--	<.050	<.006	E.011	<.006	--
JUN 27...	<.035	<.027	--	--	--	--	--	--	<.050	<.006	<.013	<.006	--
JUL 25...	<.035	<.027	--	--	--	--	--	--	<.050	<.006	.144	<.006	--
AUG 15...	<.035	<.027	--	--	--	--	--	--	<.050	<.006	E.005	<.006	--
SEP 19...	<.035	<.027	--	--	--	--	--	--	<.050	<.006	E.012	<.006	--

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DATE	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	ORY- ZALIN, WATER, FLTRD 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER FLTRD REC (UG/L) (50410)	OXAMYL, WATER, FLTRD 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT (UG/L) (82683)	PER- METHRIN CIS WAT FLT (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
APR													
19...	<.002	<.007	<.07	<.065	<.07	<.064	<.02	<.003	<.007	<.002	<.010	<.006	<.011
MAY													
24...	<.002	<.007	--	--	--	--	--	<.003	<.007	<.002	<.010	<.006	<.011
JUN													
27...	<.002	<.007	--	--	--	--	--	<.003	<.007	<.002	<.010	<.006	<.011
JUL													
25...	<.002	<.007	--	--	--	--	--	<.003	<.007	<.002	<.010	<.006	<.011
AUG													
15...	<.002	<.007	--	--	--	--	--	<.003	<.007	<.002	<.010	<.006	<.011
SEP													
19...	<.002	<.007	--	--	--	--	--	<.003	<.007	<.002	<.010	<.006	<.011

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PIC- LORAM, WATER, FLTRD GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO- PHAM, WATER, FLTRD 0.7U REC (UG/L) (49236)	PRO- ICONA- ZOLE , WATER FLTRD 0.7U REC (UG/L) (50471)	PRO- POXUR, WATER, FLTRD 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD 0.7U REC (UG/L) (38548)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SULFO- MET- RURON METHYL WTR FLT (UG/L) (50337)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
APR													
19...	<.07	<.015	<.004	<.010	<.011	<.023	<.07	E.009	<.06	<.093	.019	<.039	E.006
MAY													
24...	--	<.015	<.004	<.010	<.011	<.023	--	--	--	--	.017	--	E.004
JUN													
27...	--	<.015	<.004	<.010	<.011	<.023	--	--	--	--	<.011	--	<.016
JUL													
25...	--	<.015	<.004	<.010	<.011	<.023	--	--	--	--	<.011	--	<.016
AUG													
15...	--	<.015	<.004	<.010	<.011	<.023	--	--	--	--	<.011	--	<.016
SEP													
19...	--	<.015	<.004	<.010	<.011	<.023	--	--	--	--	<.011	--	<.016

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DATE	TER- BACIL, WATER, DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD GF, REC (UG/L) (82678)	TRI- BENURON WATER METHYL FLTRD (UG/L) (61159)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT GF, REC (UG/L) (82661)	UREA 3(4-CHLOR OPHENYL METHYL REC (UG/L) (61692)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SUS- PENDEDED (T/DAY) (80155)
APR											
19...	<.10	<.034	<.017	<.005	<.002	<.07	<.10	<.009	<.0915	3	--
MAY											
24...	--	<.034	<.017	<.005	<.002	--	--	<.009	--	1	--
JUN											
27...	--	<.034	<.017	<.005	<.002	--	--	<.009	--	3	--
JUL											
25...	--	<.034	<.017	<.005	<.002	--	--	<.009	--	10	61
AUG											
15...	--	<.034	<.017	<.005	<.002	--	--	<.009	--	5	--
SEP											
19...	--	<.034	<.017	<.005	<.002	--	--	<.009	--	74	518

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252414080333200 - C-111 CANAL 100 FT ABV S-177 NR HOMESTEAD

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	AGENCY COL-LECTING SAMPLE NUMBER (00027)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SAMPLE LOC-ATION, DIST-RICTION (FEET) (72105)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, PH (PER-CENT SATUR-ATION) (00301)	WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 19...	80020	1028	4.02	312	10	1800	767	.6	7	7.2	478	32.0	25.0
NOV 16...	80020	1028	3.90	.00	10	1800	765	5.1	60	7.5	497	31.5	24.0
DEC 21...	80020	1028	3.57	.00	10	1800	769	5.9	66	7.7	519	18.5	21.5
JAN 25...	80020	1028	3.08	.00	25	1800	771	8.2	85	8.0	569	19.0	17.5
FEB 22...	80020	1028	2.71	65	60	1800	769	3.3	39	7.4	658	29.5	23.5
APR 18...	80020	1028	2.44	27	--	1800	767	5.9	73	7.6	669	24.0	26.5
MAY 23...	80020	1028	1.78	.00	--	1800	763	5.0	63	7.5	521	27.0	27.0
JUN 26...	80020	1028	3.98	184	--	1800	768	2.0	25	7.2	496	32.0	26.0
JUL 24...	80020	1028	3.89	348	--	1800	765	1.4	17	7.2	509	32.5	25.0
AUG 14...	80020	1028	E4.12	E183	--	1800	764	.5	6	7.1	504	32.0	26.0
SEP 18...	80020	1028	E3.66	E349	--	1800	764	.5	6	6.9	490	32.0	25.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	HARD-NESS NONCARE DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARD-NESS TOTAL AS CACO3 (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM PERCENT (00932)	ALKA-LINITY WAT DIS-TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)
OCT 19...	--	190	69.8	4.63	2.71	.6	18.7	17	198	242	32.9	E.2	4.9
NOV 16...	--	200	70.9	4.59	2.44	.7	21.3	19	200	244	33.4	.2	4.4
DEC 21...	--	210	73.0	5.58	2.54	.7	22.9	19	208	253	35.8	.2	5.2
JAN 25...	0	230	77.5	8.13	2.18	.9	29.6	22	227	276	44.9	.2	6.2
FEB 22...	--	250	80.5	11.1	2.49	1	37.2	24	257	354	62.2	.2	6.6
APR 18...	--	250	82.4	10.6	2.90	1	38.2	25	255	311	57.8	.2	6.6
MAY 23...	2	210	72.8	5.94	2.75	.8	24.9	21	204	249	38.3	.2	4.9
JUN 26...	3	200	70.4	5.17	2.31	.6	20.7	18	194	237	33.9	.2	5.5
JUL 24...	--	200	73.5	5.11	3.95	.6	19.4	17	208	254	31.1	E.2	4.9
AUG 14...	--	200	73.2	4.72	3.75	.6	19.1	17	218	266	30.9	E.1	4.9
SEP 18...	--	200	73.3	4.87	4.71	.6	18.2	16	207	253	31.2	E.1	4.7

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 252414080333200 - C-111 CANAL 100 FT ABV S-177 NR HOMESTEAD

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
OCT													
19...	3.2	.38	234	278	256	.008	.59	.60	.01	--	--	--	<.005
NOV													
16...	1.9	.38	--	277	259	.061	.51	.57	.08	.55	.041	.181	.043
DEC													
21...	2.8	.41	--	299	273	.120	.62	.64	.15	.69	.063	.279	.069
JAN													
25...	1.6	.46	--	341	307	.184	.88	.85	.24	1.0	.118	.522	.122
FEB													
22...	1.8	.54	69.1	394	377	.262	1.2	1.4	.34	1.2	.033	.146	.037
APR													
18...	1.9	.54	28.9	397	354	.093	.80	.98	.12	.87	.064	.283	.067
MAY													
23...	3.3	.42	--	308	275	.004	.44	.47	.01	--	--	--	<.005
JUN													
26...	1.2	.39	142	286	256	.112	.48	.55	.14	.49	.014	.062	.015
JUL													
24...	5.0	.38	263	280	268	.104	.44	.51	.13	.46	.020	.089	.023
AUG													
14...	4.7	.39	--	289	272	.102	.50	.49	.13	.51	.007	.031	.009
SEP													
18...	6.3	.36	--	263	268	.168	.42	.47	.22	.48	.053	.235	.060

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,PAR WAT FLT SUSP (MG/L AS N) (49570)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHATE, DIS- SOLVED (MG/L AS PO4) (00660)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. (MG/L AS C) (00694)	CARBON, INOR- GANIC, TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT													
19...	--	<.001	.59	.59	.044	--	--	<.006	<.007	.011	.3	<.1	7.5
NOV													
16...	.007	.002	.45	.50	.073	.61	--	<.006	<.007	.008	.6	--	7.5
DEC													
21...	.020	.006	.50	.52	.049	.71	--	<.006	<.007	E.003	.3	<.1	8.0
JAN													
25...	.013	.004	.69	.67	<.022	.97	--	E.004	<.007	.007	.3	--	12
FEB													
22...	.013	.004	.94	1.1	.050	1.4	--	E.003	<.007	.012	.4	--	17
APR													
18...	.010	.003	.71	.89	.190	1.0	--	E.004	<.007	.013	1.4	--	14
MAY													
23...	.003	.001	.43	.47	.068	--	--	<.006	<.007	.010	.4	--	8.4
JUN													
26...	.003	.001	.37	.44	.049	.57	--	<.006	<.007	.007	.5	--	7.2
JUL													
24...	.010	.003	.34	.41	.053	.54	.043	.019	.014	.031	.4	--	6.2
AUG													
14...	.007	.002	.40	.39	.054	.50	.021	.015	.007	.037	.4	--	6.2
SEP													
18...	.023	.007	.26	.30	.037	.53	--	E.003	E.004	.013	.3	--	5.8

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED REC (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
OCT 19...	.3	20	7.7	<.002	<.004	<.002	<.005	.010	<.010	<.002	<.041	<.020	<.005
NOV 16...	.6	<10	<3.2	<.002	<.004	<.002	<.005	.008	<.010	<.002	<.041	<.020	<.005
DEC 21...	.3	<10	<3.2	<.002	<.004	<.002	<.005	.008	<.010	<.002	<.041	<.020	<.005
JAN 25...	--	M	<3.2	<.002	<.004	<.002	<.005	E.005	<.010	<.002	<.041	<.020	E.002
FEB 22...	--	80	6.3	<.002	<.004	<.002	<.005	E.005	<.010	<.002	<.041	<.020	<.005
APR 18...	--	10	E2.0	<.002	<.004	<.002	<.005	.012	<.010	<.002	<.041	<.020	<.005
MAY 23...	--	<10	<3.0	<.002	<.004	<.002	<.005	.013	<.010	<.002	<.041	<.020	<.005
JUN 26...	--	50	5.1	<.002	<.004	<.002	<.005	.008	<.010	<.002	<.041	<.020	<.005
JUL 24...	--	M	7.9	<.002	<.004	<.002	<.005	.007	<.010	<.002	<.041	<.020	<.005
AUG 14...	--	10	16.5	<.002	<.004	<.002	<.005	E.006	<.010	<.002	<.041	<.020	<.005
SEP 18...	--	M	14.0	<.002	<.004	<.002	<.005	.008	<.010	<.002	<.041	<.020	<.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC (PERCENT) (91063)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT FLTRD 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC (PERCENT) (91065)	LINDANE DIS- SOLVED (UG/L) (39341)
OCT 19...	<.018	<.003	<.006	93	<.005	<.005	<.021	<.002	<.009	<.005	<.003	79	<.004
NOV 16...	<.018	<.003	<.006	109	<.005	<.005	<.021	.015	<.009	<.005	<.003	99	<.004
DEC 21...	<.018	<.003	E.004	109	<.005	<.005	<.021	<.002	<.009	<.005	<.003	103	<.004
JAN 25...	<.018	<.003	<.006	102	<.005	<.005	<.021	E.002	<.009	<.005	<.003	92	<.004
FEB 22...	<.018	<.003	<.006	93	<.005	<.005	<.021	<.002	<.009	<.005	<.003	95	<.004
APR 18...	<.018	<.003	<.006	93	<.005	<.005	<.021	<.002	<.009	<.005	<.003	81	<.004
MAY 23...	<.018	<.003	<.006	109	<.005	<.005	<.021	<.002	<.009	<.005	<.003	85	<.004
JUN 26...	<.018	<.003	<.006	113	<.005	<.005	<.021	<.002	<.009	<.005	<.003	107	<.004
JUL 24...	<.018	<.003	<.006	92	<.005	<.005	<.021	<.002	<.009	<.005	<.003	87	<.004
AUG 14...	<.018	<.003	E.002	114	<.005	<.005	<.021	<.002	<.009	<.005	<.003	106	<.004
SEP 18...	<.018	<.003	<.006	99	<.005	<.005	<.021	<.002	<.009	<.005	<.003	105	<.004

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL-AZIN-PHOS WAT FLT GF, REC (UG/L) (82686)	METHYL-PARA-THION WAT FLT GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT 19...	<.035	<.027	<.050	<.006	E.009	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
NOV 16...	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
DEC 21...	<.035	<.027	<.050	<.006	E.006	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JAN 25...	<.035	<.027	<.050	<.006	E.005	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
FEB 22...	<.035	<.027	<.050	<.040	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
APR 18...	<.035	<.027	E.049	<.006	E.004	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAY 23...	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JUN 26...	<.035	<.027	E.003	<.006	E.004	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JUL 24...	<.035	E.010	<.050	<.006	E.011	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
AUG 14...	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
SEP 18...	<.035	<.027	<.050	<.006	.015	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUPOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 19...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009
NOV 16...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009
DEC 21...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009
JAN 25...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.012	<.034	<.017	<.005	<.002	<.009
FEB 22...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009
APR 18...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.027	<.034	<.017	<.005	<.002	<.009
MAY 23...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.006	<.034	<.017	<.005	<.002	<.009
JUN 26...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009
JUL 24...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.006	<.034	<.017	<.005	<.002	<.009
AUG 14...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009
SEP 18...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.003	<.034	<.017	<.005	<.002	<.009

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SEDI- MENT, DIS- CHARGE, SUS- PENDED	
	(MG/L) (80154)	(T/DAY) (80155)
OCT		
19...	1	.84
NOV		
16...	1	--
DEC		
21...	.0	--
JAN		
25...	1	--
FEB		
22...	1	.18
APR		
18...	4	.29
MAY		
23...	2	--
JUN		
26...	3	1.5
JUL		
24...	10	9.4
AUG		
14...	14	--
SEP		
18...	7	--

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