Water Resources Data Florida Water Year 2001

Volume 1A. Northeast Florida Surface Water

Water-Data Report FL-01-1A





UNITED STATES DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

Charles G. Groat, Director

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

For additional information write to Subdistrict Chief, Water Resources Division U.S. Geological Survey 224 West Central Parkway, Suite 1006 Altamonte Springs, Florida 32714

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:

Volume 1. Northeast Florida

Volume 2. South Florida

Volume 3. Southwest Florida

Volume 4. Northwest Florida

This report was prepared for publication by S.M. Dickerson under the supervision of Donna M. Schiffer and Howard G. George. The following individuals contributed significantly to the collection, processing and tabulation of the data:

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Water resources data for the 2001 water year in Florida consist of continuous or daily discharge for 404 streams, periodic discharge for 17 streams, continuous or daily stage for 105 streams, periodic stage for 1 stream, peak stage and discharge for 41 streams; continuous or daily elevations for 11 lakes, periodic elevations for 45 lakes; continuous ground-water levels for 424 wells, periodic ground-water levels for 1,326 wells; quality-of-water data for 79 surface-water sites and 114 wells.

The data for northeast Florida include continuous or daily discharge for 150 streams, periodic discharge for 3 streams, continuous or daily stage for 22 streams, periodic stage for 0 streams; peak stage and discharge for 0 streams; continuous or daily elevations for 10 lakes, periodic elevations for 20 lakes; continuous ground water levels for 55 wells, periodic groundwater levels for 619 wells; quality-of-water data for 40 surface-water sites and 57 wells.

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

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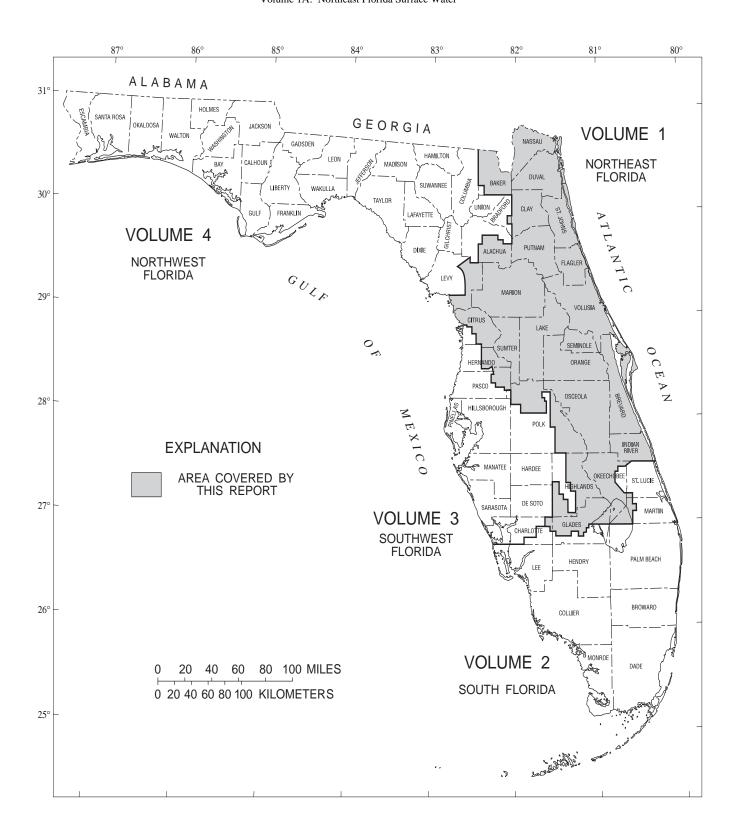


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Water temperature
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Dissolved Trace Element Concentrations
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STREAM AND LAKE GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

The following list shows the surface water sites where streamflow, stage, lake elevation, or water quality data are collected.

[Letters after station name designate type of data published: (d) discharge, (c) chemical, (t) water temperature, (e) elevation, gage heights, or contents.]

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03070204 ST. MARYS RIVER BASIN		
North Prong St. Marys River at Moniac, GA (d)	02229000	36
03070205 COASTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVERS		
Mills Creek near Italia: Alligator Creek at Callahan (d)	02231280	41
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St. Johns Headwaters: Fort Drum Creek at Sunshine State Parkway near Fort Drum (d)	02231342	45
Blue Cypress Creek near Fellsmere (d)	02231396	46
Sixmile Creek near Kenansville (d)		
Wolf Creek near Kenansville (d)		
St. Johns River near Melbourne (d,e)	02232000	50
Pennywash Creek near Deer Park (d)		
Wolf Creek near Deer Park (d)		
Taylor Creek near Cocoa (d)		
St. Johns River near Christmas (d,e,c,t)		
Econlockhatchee River at Magnolia Ranch near Bithlo (d)		
Little Econlockhatchee River near State Highway 434 near Oviedo (d)		
Econlockhatchee River near Chuluota (d)	02233500	72
St. Johns River above Lake Harney, near Geneva (d,e)	02234000	73
Lake Jesup: Howell Creek near Altamonte Springs (d)	02234308	75
Howell Creek near Slavia (d)		
Howell Creek at State Highway 434 near Oviedo (d)	02234344	77
Soldier Creek near Longwood (d)		
Gee Creek near Longwood (d)		
St. Johns River near Sanford (d,e,c,t)	02234500	81
Wekiva Springs near Apopka (d)	02234610	89
Wekiva River near Apopka (d)		
Little Wekiva River near Altamonte Springs (d)		
Little Wekiva River near Longwood (d)		
Wekiva River at Old RR Crossing near Sanford (d)		
Black Water Creek near Cassia (d,c,t)		
Blue Springs near Orange City (d,c,t)		
St. Johns River near De Land (d,e,c,t)		
St. Johns River at Astor (d,e)	02236125	112
03080102 OCKLAWAHA RIVER BASIN		
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Big Creek near Clermont (d)	02236500	116
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Palatlakaha River at Cherry Lake Outlet, near Groveland (d,e)		

	Station number	Page
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Palatlakaha River below spillway at Cherry Lake Outlet,	02225001	120
near Groveland (e)		
Palatlakaha River below Structure M-6 near Mascotte (e)		
Palatlakaha River at Structure M-5 near Okahumpka (e)		
Palatlakaha River below Structure M-5 near Okahumpka (e)		
Palatlakaha River below Structure M-4 near Okahumpka (e)		
Palatlakaha River at Structure M-l near Okahumpka (d,e)		
Little Lake Harris (part of Lake Harris):	0.000.000.00	2.70
Church Lake near Groveland (e)	0223/3/0	358
Apopka-Beauclair Canal:		
Apopka-Beauclair Canal near Astatula (d,e)		
Apopka-Beauclair Canal below dam, near Astatula (e)		
Wolf Branch at FCRR near Mount Dora (d)	02237734	132
West Crooked Lake near Eustis (e)	02237753	359
Lake Umatilla at Umatilla (e)		
Haines Creek (continuation of Palatlakaha River) at Lisbon (d,e)		
Lake Griffin:	02238001	
Holly Lake near Umatilla (e)		
Ocklawaha River above Moss Bluff Dam, at Moss Bluff (e)		
Ocklawaha River at Moss Bluff (d,e)		
Lake Weir Outlet:		
Silver Springs (head of Silver River) near Ocala (d,e,c,t)		
Ocklawaha River near Conner (d,e)		
Prairie Creek near Gainesville (d,e)		
Camps Canal (connection of Prairie Creek to River Styx):		
Paynes Prairie	00010051	
Hogtown Creek near Arredondo (d)		
Camps Canal near Rochelle (d,e)		
Orange Lake:		
Orange Creek at Orange Springs (d)		
Ocklawaha River at Rodman Dam, near Orange Springs (d,e)		
Wiscenancous Water-Quanty Records.		
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St. Johns River below Ocklawaha River:		
Cross-Florida Barge Canal at Buckman Lock, near Palatka (d)	02244032	161
St. Johns River at Buffalo Bluff, near Satsuma (d,c,t)	02244040	162
Crescent Lake (head of Dunns Creek):		
Haw Creek: Middle Haw Creek near Korona (d)	02244320	166
Little Haw Creek:	02211320	
Little Haw Creek near Seville (d)		
Haw Creek at Mouth near Seville (d)		
Rice Creek near Springside (d)		
Etonia Creek:		
Lake Johnson:	00015050	
Etonia Creek at Bardin (d)		
St. Johns River at Dancy Point near Spuds (c,t)		
Deep Creek near Hastings (d)	02245255	178
Deep Creek at Spuds (d)		
Sixmile Creek near Picolata (d)		
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Julington Creek:		
Big Davis Creek at Bayard (d)		
St. Johns River at Buckman Bridge at Jacksonville (c,t)	301124081395901	195
Fishing Creek at Wesconnet Blvd. at Jacksonville (c,t)	02246435	196
Fishing Creek at 110th Street at Jacksonville (c,t)		
South Branch Big Fishweir Creek at Cassat Avenue at Jacksonville (c,t)		
St. Johns River at Jacksonville (d,e,c,t)	02246500	200
St. Johns River at Dames Point Bridge at Jacksonville (c,t)		
Pablo Creek (merges with Intracoastal Waterway) at Jacksonville (d)	02240828	212
03080201 COASTAL AREA BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET		
San Sebastian River at St. Augustine (d)		
Moultrie Creek at Moultrie (d)		
Halifax River:	02247027	217
Lehigh Canal near Flagler Beach (d)	02247258	218
Tomoka River:	02247490	210
Tiger Bay Canal near Daytona Beach (d)		
Eleventh Street Canal at Holly Hill (d)	02247509	221
Tomoka River near Holly Hill (d)		
Tomoka River near Ormond Beach (d)		
Reed Canal at South Daytona (d)		
Halifax Canal near Harbor Oaks (d)		
Spruce Creek near New Smyrna Beach (d)		
Haulover Canal near Mims (d,c,t)		
03080202 COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET		
Indian River (Intracoastal Waterway):		
Eau Gallie River at Heather Glen circle at Melbourne(d)	02249007	232
Crane Creek at U.S. Highway 1 at Melbourne (d)		
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93080203 COASTAL AREA BETWEEN SEBASTIAN INLET AND ST. LUCIE RIVER		
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Fellsmere Canal near Micco (d)		
Saint Sebastian River at RR Bridge (c,t)		
North Canal near Vero Beach (d)		
Main Canal at Vero Beach (d)		
South Canal near Vero Beach (d)	02253500	247
03090103 FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST	0007.5700	2.40
Fisheating Creek at Palmdale (d)	02256500	249
03090101 KISSIMMEE RIVER BASIN		
Kissimmee River headwaters: Alligator Lake near Ashton (e)	02260800	365
Lake Mary Jane near Narcoossee (e)	02261900	366
East Lake Tohopekaliga:	022 (2000	250
Boggy Creek near Taft (d)	02262900	250
Shingle Creek:		
C-2 Canal near Vineland (d)		
Lake Bryan near Vineland (e)		
Bonnet Creek Headwaters:		
Bay Lake near Vineland (e)		
South Lake near Vineland (e)	02263868	369

	Station
	number Page
03090101 KISSIMMEE RIVER BASINContinued	
Bonnet Creek:	
South Lake Outlet at S-15 near Vineland (d)	. 02263869
Lake Butler at Windermere (e)	
Cypress Creek at Vineland (d,c,t)	
Cypress Creek Canal at S-103A near Vineland (e)	
Black Lake Outlet at S-101A at Lake Buena Vista (d)	
Lateral 101 at S-101 near Lake Buena Vista (d)	. 02264060
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Bonnet Creek near Kissimmee (e,c,t)	
Shingle Creek at Campbell (d)	
Reedy Creek at S-46 near Vineland (d)	. 02266025
Whittenhorse Creek near Vineland (d)	
Whittenhorse Creek at S-411 near Doctor Phillips (d)	
Trout Lake near Clermont (e)	
Lateral 405 at S-405A, near Doctor Phillips (d)	
Lateral 405 below S-405, near Vineland (c,t)	
Lateral 410 at S-410 near Vineland (d)	
Lateral 405 below L-410 near Vineland (c,t)	
Reedy Creek above U.S. Highway 192 near Vineland (c,t)	
Reedy Creek near Vineland (d,c,t)	
Davenport Creek near Loughman (d,c,t)	
Reedy Creek at S-40 near Loughman (e,c,t)	
Reedy Creek below S-40 near Loughman (d)	
Reedy Creek near Loughman (d,c,t)	
Reedy Creek at State Highway 531 near Poinsianna (d)	. 02266550
Cypress Lake near St. Cloud (e)	
Lake Hatchineha:	
Lake Marion near Haines City (e)	
Lake Pierce near Waverly (e)	. 02266900
Catfish Creek near Lake Wales (d)	. 02267000 296
Lake Kissimmee:	
Lake Weohyakapka at Indian Lake Estates (e)	
Lake Rosalie near Lake Wales (e)	
Lake Marian near Kenansville (e)	
Kissimmee River at S-65 near Lake Wales (d,e)	
Kissimmee River below S-65, near Lake Wales (e)	
Kissimmee River near Lorida (e)	
Kissimmee River at C-38 near Lorida (e)	. 02269149
Lake Arbuckle near Avon Park (e)	02269600 377
Arbuckle Creek (continuation of Livingston Creek) near De Soto City (d)	
Lake Istokpoga near De Soto City (e)	
Kissimmee River at S-65E, near Okeechobee (d,e)	
Kissimmee River below S-65E, near Okeechobee (e)	
ANALONA V LAVID CAVET CAVOTED	
03090201 LAKE OKEECHOBEE Lake Okeechobee (e)	02276400 380
· ,	. 02270400
03100101 PEACE RIVER BASIN	
Peace River:	
Lake Hancock:	
Lake Arietta near Auburndale (e)	
Lake Whistler near Auburndale (e)	
Ariana Lake at Auburndale (e)	. 02294303
03100205 HILLSBOROUGH RIVER BASIN	
Hillsborough River: Fox Branch near Socrum (d,e,c,t)	02201000 203
Fox Dianch heat Socium (u,e,c,t)	. 02301900

	Station number	Page
03100208 WITHLACOOCHEE RIVER BASIN		
Lake Mattie (head of Withlacoochee River):		
Lake Juliana near Polk City (e)	02310760	387
Pony Creek:		
Lake Helene near Polk City (e)		
Withlacoochee River near Cumpressco (d,e,c,t)	02310947	311
Lake Deeson near Lakeland (e)		
Withlacoochee-Hillsborough overflow near Richland (d,e)		
Withlacoochee River near Dade City (d,e)		
Clear Lake at San Antonio (e)		
Dade City Canal near Dade City (d,e,c,t)		
Withlacoochee River at Trilby (d,e)	02312000	319
Little Withlacoochee River:		
Bayroot Slough:		
Bayroot Slough Headwaters near Bay Lake (d)		
Little Withlacoochee River near Tarrytown (d,c,t)		
Little Withlacoochee River at Rerdell (d,c,t)		
Withlacoochee River at Croom (d,e,c,t)		
Withlacoochee River near Floral City (d,e,c,t)		
Jumper Creek Canal near Bushnell (d,e,c,t)		
Shady Brook near Sumterville (d)	02312667	334
Lake Panasoffkee:		
Lady Lake near Lady Lake (e)		
Lake Panasoffkee near Lake Panasoffkee (e)		
Outlet River at Panachoochee Retreats (d,e,c,t)		
Withlacoochee River at Wysong Dam, at Carlson (d,e)		
Tsala Apopka outfall canal at S-353, near Hernando (d,e,c,t)		
Tsala Apopka outfall canal below S-353, near Hernando (e,c,t)		
Withlacoochee River near Holder (d,e)		
Rainbow Springs near Dunnellon (d		
Withlesselve River at Dunnellon (e,c,t)		
Withlesses has Pierre below Inglis Dam, near Dunnellon (d)		
Withlacoochee River below Inglis Dam, near Dunnellon (e)		
Withlacoochee River Bypass Channel, near Inglis (d)		
Discharge at miscellaneous sites		

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in 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. Those stations with an asterisk (*) after the station number are currently operated as stations with periodic observations. Discontinued project stations with less than 3 years of record 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.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

Station name number (mi²) record		Station	Drainage area	Period of
Ocean Pond at Olustee (e) 02228700 13.1 1975-78 South Frong St. Marys Kiver near Sanderson (d) 02230000 57.8 1955-60 Turkey Creek at MacCelenny (d) 02230000 19.9 1955-77 South Frong St. Marys River at Clien St. Mary (d) 02231233 1.98 1905-77 St. Marys River near Gross (d) 02231232 19.8 1965-77 St. Marys River near Gross (d) 02231299 400 1983-85 COASTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVER ST. JOHNS Marsh near Fort Pierce (e) 02231300 - 1957-71 St. Johns Marsh near Fort Pierce (e) 02231300 - 1957-71 St. Johns Headwaters near Vero Beach (e) 02231300 295 1995-69 St. Johns Headwaters near Vero Beach (e) 02231300 205 1995-69 Stee Cypress Lake near Felismer (e) 02231300 489 1995-69 Stee Cypress Lake near Felismer (e) 02231300 489 1995-69 Blue Cypress Lake near Felismer (e) 02231400 489 1995-69 Lake Poinsett near Cocoa (Station name	number	(mi^2)	record
South Prong St. Marys River near Sanderson (d) 02229500 157.8 1955-60 17they Creek at Macclenny (d) 02230000 156 1950-71 1955-77 190th Prong St. Marys River at Glen St. Mary (d) 02230500 156 1950-71	S	Γ. MARYS RIVER BASIN		
Turkey Creek at Macclenmy (d)	Ocean Pond at Olustee (e)	02228700	13.1	1975-78
South Prong St. Marys River at Glen St. Mary (d) 02231530 156 1950-71 St. Marys River near Gross (d) 02231253 1,360 1966-75,1980 1966-75	South Prong St. Marys River near Sanderson (d)	02229500	57.8	1955-60
Little St. Marys River near Hilliard (d) 2231250 1,360 1965-67,1980 **COASTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVER** Nassau Sound near Amelia City (e) 02231299 400 1983-85 **ST. JOHNS RIVER BASIN ABOVE OCKLAWAILA RIVER** St. Johns Marsh near Fort Pierce (e) 02231300 - 1955-77 1942-93 Cow Log Branch at Yeehaw Junction (d) 02231390 20.5 1956-95 Blue Cypress Lake near Fellamere (e) 02231400 480 1997-98 Elake Washington near Eau Gallie (e) 02231400 1,025 1942-92 Lake Poinsett near Cocoa (e) 022323100 1,025 1942-92 Lake Poinsett near Cocoa (e) 02232413 50.0 1997-98 Lake Poinsett near Cocoa (e) 02232413 50.0 1997-98 Lake Since Area Fish Hole Road near Christmas (d) 02232460 47.0 1997-98 Lake Susannah near Orlando (e) 02233448 0,04 1993-98 Lake Susannah near Orlando (e) 02233448 0,04 1993-99 Lake Susannah near Orlando (e) 02233448 0,04 1993-99 Lake Susannah near Orlando (e) 02233410 1997-99 Lake Geneva at Geneva (e) 02233410 1997-99 Lake Geneva at Geneva (e) 02233448 0,04 1993-99 Lake Spien near Orlando (e) 02233410 1997-99 Lake Geneva at Geneva (e) 02233410 1997-99 Lake Geneva at Geneva (e) 02233410 1997-99 Lake Geneva at Geneva (e) 02233410 1997-99 Lake Wannemissett near Deland (e) 02233410 1997-99 Lake Wannemissett near Deland (e) 0223410 1997-99 Lake Abdira at Orlando (e) 0223420 1997-99 Lake Abdira at Orlando (e) 0223420 1997-99 Lake Abdira at Orlando (e) 02342340 1997-99 Lake Abdira near Orlando (e	Turkey Creek at Macclenny (d)	02230000	19.9	1955-77
COANTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVERS 1983-85		02230500	156	1950-71
Nassau Sound near Amelia City (e)	Little St. Marys River near Hilliard (d)	02231250	19.8	1965-67
Nassau Sound near Amelia City (e)	St. Marys River near Gross (d)	02231253	1,360	1966-75,1980-90
ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER St. Johns Marsh near Fort Pierce (e)	COASTAL AREA BET	WEEN ST. MARYS AND ST. JOH	NS RIVERS	
St. Johns Marsh near Fort Pierce (e)	Nassau Sound near Amelia City (e)	02231299	400	1983-85
St. Johns Headwaters near Vero Beach (e) 02231350 297 1942-93 1956-68 1956-69 1956-69 1956-69 1956-69 1956-68 1956-69 1956-68 1956-69 1956-68 1956	ST. JOHNS RIVE	R BASIN ABOVE OCKLAWAHA	RIVER	
Cow Log Branch at Yeehaw Junction (d) 02231390 20.5 1956-95 Blue Cypress Lake near Fellsmere (e) 0223160 489 1956-68 Crabgrass Creek near Holopaw (d) 0223165 30.2 1997-98 Lake Vashington near Eau Gallie (e) 02232100 1,025 1942-98 Lake Poinsett near Cocoa (e) 02233413 52.0 1969-75 Clear Lake near Cocoa (e) 02233420 0.26 1952-58 Jim Creek at Fish Hole Road near Christmas (d) 02233420 0.60 1952-58 Lake Susannah near Orlando (e) 02233445 0.60 1943-49 Lake Susannah near Orlando (e) 02233445 0.60 1943-49 Lake Corrine near Orlando (e) 02233448 0.34 1943-49 Lake Corrine near Orlando (e) 02233450 2.09 1943-64 Lake Cartherine at Chulutota (e) 02233450 2.09 1943-64 Lake Geneva at Geneva (e) 02233102 1.10 1957-79 Lake Geneva at Geneva (e) 02233102 1.0 1957-79 Lake Winnemissett near Deland (e)	· · · · · · · · · · · · · · · · · · ·			
Blue Cypress Lake near Fellsmere (e) 02231400 489 1956-68 Crabgrass Creek near Hollopaw (d) 02231565 30.2 1997-98 Lake Washington near Eau Gallie (e) 02232100 1,025 1942-92 1942-92 1		02231350	297	1942-93
Crabgrass Creek near Holopaw (d) 02231565 30.2 1997-98 Lake Washington near Eau Gallie (e) 02232100 1,025 1942-92 Lake Poinsett near Cocoa (e) 022323403 1,272 1942-98 Taylor Creek above S-164, near Cocoa (e) 02232413 52.0 1969-75 Clear Lake near Cocoa (e) 02233420 0.26 1952-88 Lim Creek at Fish Hole Road near Christmas (d) 02233426 47.0 1997-98 Econlockhatchee Tributary near Bithlo (d) 02233445 0.60 1943-49 Lake Spier near Orlando (e) 02233448 0.34 1943-49 Lake Corrine near Orlando (e) 02233448 0.34 1943-49 Lake Corrine near Orlando (e) 02233450 2.09 1943-64 Lake Cartherine at Chulutota (e) 02233450 2.0 9 1943-64 Lake Cartherine at Chulutota (e) 02233900 0.46 1975-79 Lake Geneva at Geneva (e) 02233490 1.40 1965-66, 1981 Lake Winnemissett near Osteen (d) 02234160 1.10 1965-98 De		02231390	20.5	1956-95
Lake Washington near Eau Gallie (e) 02232100 1,025 1942-92 Lake Poinsett near Cocoa (e) 02233200 1,272 1942-98 Taylor Creek above S-164, near Cocoa (e) 02232413 52.0 1969-75 Clear Lake near Cocoa (e) 02232420 0.26 1952-58 Jim Creek at Fish Hole Road near Christmas (d) 02232460 47.0 1997-98 Econlockhatche Tributary near Bithlo (d) 02233445 0.60 1943-49 Lake Susannah near Orlando (e) 02233448 0.34 1943-49 Lake Spier near Orlando (e) 02233450 2.09 1943-64 Lake Catherine act Chuluota (e) 02233450 2.09 1943-64 Lake Catherine act Chuluota (e) 02233755 0.15 1975-79 Deep Creek near Osteen (d) 02234100 140 1965-66,1981 Lake Winnemissett near Deland (e) 02234100 1.10 1965-98 Deep Creek Diversion Canal near Osteen (d) 02234200 0.52 1943-56 Lake Winnemissett near Deland (e) 02234200 0.52 1943-56 Park Lake		02231400	489	1956-68
Lake Poinsett near Cocoa (e)		02231565	30.2	1997-98
Taylor Creek above S-164, near Cocoa (e)	Lake Washington near Eau Gallie (e)	02232100	1,025	1942-92
Taylor Creek above S-164, near Cocoa (e) 02232413 52.0 1969-75 196	Lake Poinsett near Cocoa (e)	02232300	1,272	1942-98
Clear Lake near Cocoa (e) 02232420 0.26 1952-58 Increek at Fish Hole Road near Christmas (d) 02232460 47.0 1997-98 Increek at Fish Hole Road near Christmas (d) 02233102 1.83 1976-89 Increek at Fish Hole Road near Christmas (d) 02233445 0.60 1943-49 Increed Sandard Road Road Road Road Road Road Road Roa				
Jim Creek at Fish Hole Road near Christmas (d) 02233460 47.0 1997-98 Econlockhatchee Tributary near Bithlo (d) 02233102 1.83 1976-89 Lake Susannah near Orlando (e) 02233445 0.60 1943-49 Lake Spier near Orlando (e) 02233450 2.09 1943-64 Lake Catherine at Chuluota (e) 02233755 0.15 1975-79 Lake Geneva at Geneva (e) 02233900 0.46 1975-79 Lake Winnemissett near Deland (e) 02234100 1.10 1965-98 Deep Creek near Osteen (d) 02234100 1.10 1965-98 Deep Creek Diversion Canal near Osteen (d) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 0223420 0.52 1942-56 Lake Adair at Orlando (e) 02234210 0.12 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Howen at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234294 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>0.26</td> <td></td>	· · · · · · · · · · · · · · · · · · ·		0.26	
Econlockhatchee Tributary near Bithlo (d) 02233102 1.83 1976-89 Lake Susannah near Orlando (e) 02233445 0.60 1943-49 Lake Spier near Orlando (e) 02233450 2.09 1943-64 Lake Cortrine near Orlando (e) 02233755 0.15 1975-79 Lake Catherine at Chuluota (e) 02233700 0.46 1975-79 Deep Creek near Osteen (d) 02234100 140 1965-66, 1981 Lake Winnemissett near Deland (e) 02234180 70 1935, 1956, 1981 Deep Creek Diversion Canal near Osteen (d) 02234200 0.52 1943-56 Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234205 1.27 1942-56 Park Lake at Orlando (e) 02234210 0.12 1942-56 Lake Highland at Orlando (e) 02234210 0.12 1942-56 Lake Injudical (e) 02234220 0.22 1942-56 Lake Rown at Orlando (e) 02234220 0.22 1942-56 Lake Rown at Orlando (e) 02234294 <td< td=""><td></td><td></td><td></td><td></td></td<>				
Lake Susannah near Orlando (e) 02233445 0.60 1943-49 Lake Spier near Orlando (e) 02233448 0.34 1943-49 Lake Corrine near Orlando (e) 02233450 2.09 1943-64 Lake Catherine at Chuluota (e) 02233755 0.15 1975-79 Lake Geneva at Geneva (e) 02233900 0.46 1975-79 Lake Winnemissett near Osteen (d) 02234160 1.10 1965-66,1981 Lake Winnemissett near Deland (e) 02234180 70 1935,1956, 98 Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935,1956, 98 Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234215 2.10 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Rowena at Orlando (e) 0223429 0.22 1942-56 Lake Rowen at Orlando (e) 0223429 <			1.83	1976-89
Lake Corrine near Orlando (e) 02233450 2.09 1943-64 Lake Catherine at Chuluota (e) 02233755 0.15 1975-79 Lake Geneva at Geneva (e) 02233400 0.46 1975-79 Deep Creek near Osteen (d) 02234100 140 1965-66,1981 Lake Winnemissett near Deland (e) 02234160 1.10 1965-98 Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935, 1956, Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234205 1.27 1942-56 Park Lake at Orlando (e) 02234215 1.10 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Rowena at Orlando (e) 02234220 0.22 1942-56 Lake Rowena at Orlando (e) 02234220 0.22 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234294 0.6			0.60	
Lake Catherine at Chuluota (e) 02233755 0.15 1975-79 Lake Geneva at Geneva (e) 02233900 0.46 1975-79 Deep Creek near Osteen (d) 02234100 140 1965-66,1981 Lake Winnemissett near Deland (e) 02234180 1.10 1965-66,1981 Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935, 1956, 1986 Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234205 1.27 1942-56 Lake Torlando (e) 02234210 0.12 1942-56 Lake Highland at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Nowena at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234226 5.13 1942-56 Lake Charity near Maitland (e) 02234240 5.13 1942-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Hope at Maitland (e) 02234297 1.67 </td <td>Lake Spier near Orlando (e)</td> <td>02233448</td> <td>0.34</td> <td>1943-49</td>	Lake Spier near Orlando (e)	02233448	0.34	1943-49
Lake Geneva at Geneva (e) 02233900 0.46 1975-79 Deep Creek near Osteen (d) 02234100 140 1965-66,1981 Lake Winnemissett near Deland (e) 02234160 1.10 1965-66,1981 Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935, 1956, 1964-66, 198 Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234205 1.27 1942-56 Park Lake at Orlando (e) 02234210 0.12 1942-56 Lake Oncord at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Rowen at Orlando (e) 02234225 3.27 1942-56 Lake Rowen at Orlando (e) 02234226 5.13	Lake Corrine near Orlando (e)	02233450	2.09	1943-64
Deep Creek near Osteen (d) 02234100 140 1965-66,1981 1997-98 1997-99 1997-98 1997-98 1997-98 1997-98 1997-98 1997-98 1997-98 1997-98 1997-98 1997-98 1997-99 199	Lake Catherine at Chuluota (e)	02233755	0.15	1975-79
Lake Winnemissett near Deland (e) 02234160 1.10 1965-98 Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935, 1956, 1966, 198 Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234210 0.12 1942-56 Park Lake at Orlando (e) 02234210 0.12 1942-56 Lake Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Rowena at Orlando (e) 02234220 5.13 1942-45 Lake Rowen at Orlando (e) 02234220 5.13 1942-45 Lake Rowen at Orlando (e) 02234220 5.13 1942-56 Lake Rowen at Orlando (e) 0223429 5.34 1948-56 Lake Rowen at Orlando (e) 0223429 5.6 5.94		02233900	0.46	1975-79
Lake Winnemissett near Deland (e) 02234160 1.10 1965-98 Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935, 1956, 1956, 1966-66, 198 Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234210 0.12 1942-56 Park Lake at Orlando (e) 02234210 0.12 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Rowena at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234294 6.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234365	Deep Creek near Osteen (d)	02234100	140	1965-66,1981-92
Deep Creek Diversion Canal near Osteen (d) 02234180 70 1935, 1956, 1964-66, 198	Laka Winnemissatt near Daland (a)	02224160	1.10	
1964-66, 198 Spring Lake at Orlando (e) 02234205 1.27 1942-56 Lake Adair at Orlando (e) 02234210 0.12 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234225 3.27 1942-56 Lake Highland at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Hope at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Hope at Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234366 0.45 1987-93 Soldier Creek at Lake Mary (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234428 0.11 1975-79 Lake Mary at Lake Mary (e) 02234434 1.56 1941-48, 1977-97 Lake Charm at Oviedo (e) 02234434 1.56 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234439 2,582 1920-95				
Spring Lake at Orlando (e) 02234200 0.52 1943-56 Lake Adair at Orlando (e) 02234205 1.27 1942-56 Park Lake at Orlando (e) 02234210 0.12 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-56 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Righland at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234294 5.13 1942-45 Lake Sue at Orlando (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234294 0.66 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Hope at Maitland winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek Headwaters at Lake Mary (e) 02234366 0.45 <td>Deep Creek Diversion Canal near Osteen (d)</td> <td>02234180</td> <td>70</td> <td>1935, 1936, 1964-66, 1981-92</td>	Deep Creek Diversion Canal near Osteen (d)	02234180	70	1935, 1936, 1964-66, 1981-92
Park Lake at Orlando (e) 02234210 0.12 1942-56 Lake Concord at Orlando (e) 02234215 2.10 1942-52 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Ivanhoe at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234366 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88	Spring Lake at Orlando (e)	02234200	0.52	
Lake Concord at Orlando (e) 02234215 2.10 1942-52 Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Ivanhoe at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland at Winter Park (e) 02234297 1.67 1971-79 Lake Mowell near Casselberry (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234366 0.45 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234494 0.88 1975-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e)	Lake Adair at Orlando (e)	02234205	1.27	1942-56
Lake Highland at Orlando (e) 02234220 0.22 1942-56 Lake Ivanhoe at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland at Winter Park (e) 02234297 1.67 1971-79 Lake Howell near Casselberry (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Monroe near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e)<	Park Lake at Orlando (e)	02234210	0.12	1942-56
Lake Ivanhoe at Orlando (e) 02234225 3.27 1942-56 Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234499 2,582 1941-48, 1977-97 Lake Monroe near Sanford (e) 0	Lake Concord at Orlando (e)	02234215	2.10	1942-52
Lake Rowena at Orlando (e) 02234240 5.13 1942-45 Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	Lake Highland at Orlando (e)	02234220	0.22	1942-56
Lake Sue at Orlando (e) 02234261 6.34 1948-56 Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	Lake Ivanhoe at Orlando (e)	02234225	3.27	1942-56
Lake Charity near Maitland (e) 02234294 0.66 1971-79 Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234418 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	Lake Rowena at Orlando (e)	02234240	5.13	1942-45
Lake Faith at Maitland (e) 02234296 0.71 1971-79 Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	Lake Sue at Orlando (e)	02234261	6.34	1948-56
Lake Hope at Maitland (e) 02234297 1.67 1971-79 Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	Lake Charity near Maitland (e)		0.66	1971-79
Lake Maitland at Winter Park (e) 02234300 20.6 1945-64 Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	Lake Faith at Maitland (e)	02234296	0.71	1971-79
Lake Howell near Casselberry (e) 02234318 27.8 1975-79 Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95				
Soldier Creek Headwaters at Lake Mary (d) 02234365 7.86 1987-93 Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	* /			
Soldier Creek at Lake Mary (d) 02234367 9.16 1987-93 County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	• • •			
County Home Run near Lake Mary (e) 02234386 0.45 1983-86 Island Lake at Longwood (e) 02234394 1.29 1970-79 Lake Mary at Lake Mary (e) 02234414 0.88 1975-79 Lake Charm at Oviedo (e) 02234428 0.11 1975-98 Lake Jesup near Sanford (e) 02234434 156 1941-48, 1977-97 Lake Monroe near Sanford (e) 02234499 2,582 1920-95	· · · · · · · · · · · · · · · · · · ·			
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Lake Monroe near Sanford (e) 02234499 2,582 1920-95				
				· · · · · · · · · · · · · · · · · · ·
St. Johns River near DeBary (e) 02234519 2,600 1987-89				
Lake Brantley near Forest City (e) 02234638 1.56 1975-79	Lake Brantiey near Forest City (e)	02234638	1.56	19/5-79

WATER RESOURCES DATA FOR FLORIDA, 2001 Volume 1A: Northeast Florida Surface Water

		Drainage	Period			
Station name	Station number	area (mi²)	of record			
ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVERContinued						
Lake Silver at Orlando (e)	02234800	0.51	1959-64			
Lake Fairview at Orlando (e)	02234810	3.73	1948-55			
Lake Wekiva near Maitland (e)	02234814	13.4	1969-95			
Lake Wekiva Outlet near Maitland (d)	02234815	13.4	1969-74			
Lake Herrick near Orlando (e)	02234900	1.94	1966-68			
Lake Sherwood near Orlando (e)	02234930	17.1	1966-68			
Bear Lake near Forest City (e)	02234942	1.59	1975-79			
Lake Orienta at Altamonte Springs (e)	02234943	1.61	1970-79			
Cranes Roost at Altamonte Springs (e)	02234988	2.89	1978-79			
Eleventh Hole Pond at Altamonte Springs (e)	02234995	1.25	1971-79			
Linden Lake at Lake Mary (e)	02234999	0.62	1973-79			
Lake Dorr near Altoona (headwaters of Black Water Creek) (e)	02235150	26.5	1965-98			
Mount Plymouth Lake at Mount Plymouth (e)	02235260	1.30	1983-98			
Pine Lake near Cassia (e)	02235900	1.79	1967-69			
Alexander Springs Creek near Paisley (e)	02236100		1959-65			
Lake Odom near DeLeon Springs	02236119	1.33	1981-90			
Deep Creek near Barberville (d)	02236120	35.4	1964-95			
Price Creek near Pierson (d)	02236157	6.21	1979-82			
Lake Delancy near Eureka (e)	02236190	30.0	1953-60			
OCKLAW.	AHA RIVER BASIN					
Lake Kerr near Eureka (e)	02236200	102	1936-98			
Lake George near Salt Springs (e)	02236210	3,721	1936-98			
Lake Lowery (head of Ocklawaha River) near Haines City (e)	02236250	5.4	1960-95			
Little Creek at Cooper's Ranch near Clermont (d)	02236600	9.90	1960-62			
Lake Nellie near Clermont (e)	02236808	13.3	1979-89			
Lake Louisa (continuation of Big Creek) near Clermont (e)	02236820	121	1957-95			
Lake Apshawa near Minneola (e)	02236860	1.48	1953-98			
Cherry Lake near Groveland (e)	02236880	165	1956-95			
Palatlakaha River near Mascotte (e)	02237000	182	1945-95			
Palatlakaha River below spillway, near Mascotte (e)	02237001	182	1964-95			
Pitts Pond near Okahumpka (e)	02237176	0.07	1967-69			
Lake Harris at Leesburg (e)	02237520	357	1936-50, 1956-93			
Dead River near Tavares (d)	02237522	420	1942-56, 1993-96			
Johns Lake at Oakland (e)	02237540	40.1	1959-98			
Lake Florence at Montverde (e)	02237561	0.63	1967-69			
Lake Apopka at Winter Garden (e)	02237600	128	1935-93			
Lake Francis near Plymouth (e)	02237660*	0.67	1959-67			
Wolf Branch above State Road 46 near Mount (d)	02237733	2.80	1991-94			
Lake Dicie at Eustis (e)	02237752	0.11	1971-73			
Lake Dora at Mount Dora (e)	02237800	236	1935-93			
Lake Eustis at Eustis (e)	02237900	646	1935-93			
Silver Lake near Leesburg (e)	02238020	1.50	1983-95			
Nicotoon Lake near Altoona (e)	02238170	19.2	1967-69			
Lake Yale at Grand Island (e)	02238200	67.6	1959-98			
Lake Griffin at Leesburg (e)	02238300	775	1936-93			
Ocklawaha River near Ocala (d)	02239000	1,018	1930-68			
Silver River near Ocala (e)	02239501		1969-72			
Lake Bryant near Silver Springs (e)	02240200	9.86	1936-95			
Hatchet Creek near Fairbanks (d)	02240783	34.7	1995-98			
Little Hatchet Creek at Gainesville (d)	02240806	3.24	1995-98			
		2.21				

	Station	Drainage area	Period of	
Station name	number 	(mi ²)	record 	
OCKLAWAHA RIV	ER BASINContinued			
ewnans Lake (head of Prairie Creek) near Gainesville (e)	02240900	114	1936-95	
ynes Prairie Inflow near Rochelle (e)	02240930		1978-81	
ke Kanapaha at Arredondo (e)	02240958	8.65	1971-95	
mblin Creek at Gainesville (d)	02240976	1.00	1997-98	
vens Arm near Gainesville (e)	02240980	3.00	1965-67	
vens Arm at Gainesville (d)	02240982	5.67	1997-98	
veetwater Branch at Gainesville (e)	02240988	2.64	1997-98	
chloosa Creek at Grove Park (d)	02241900	37.4	1995-98	
ST. JOHNS RIVER BASIN B	ELOW OCKLAWAHA	RIVER		
chloosa Lake at Lochloosa (e)	02242400	88.0	1936-95	
ange Lake at Orange Lake (e)	02242450	1,012	1933-95	
ange Lake at Orange Lake (e) ange Lake Outlet near Citra (d)	02242451	1,012	1941-95	
ange Creek near Island Grove (d)	02242460	1,010 Indeterminate	1997-98	
chloosa Slough near Lochloosa (d) ttle Orange Creek near Johnson (d)	02242500 02243300	Indeterminate 42.6	1947-55, 1982- 1995-98	
ttle Orange Creek near Johnson (d)	02243300	42.0	1995-98	
klawaha River near Orange Springs (d)	02243500	2,657	1930-52	
eep Creek near Kenwood (d)	02243609	6.34	1995-98	
ke Ocklawaha near Orange Springs (e)	02243958	2.747	1969-95	
klawaha River at Riverside Landing near Orange Springs (d)	02244000	2,840	1943-68	
ddle Haw Creek at Relay Station, near Bunnell (d)	02244300	54.6	1964-66	
ke Winona near Deland (e)	02244350	1.35	1965-98	
ue Pond Outlet near Keystone Heights (d)	02244551	2.32	1958-97	
nd Hill Lake near Keystone Heights (e)	02244600	11.0	1957-65, 1976-	
nd Hill Lake Outlet near Keystone Heights (d)	02244601	11.5	1959-97	
agnolia Lake near Keystone Heights (e)	02244650	14.4	1958-98	
agnolia Lake Outlet near Keystone Heights (d)	02244651	14.4	1956-97	
ligator Creek near Keystone Heights (d)	02244690	15.0	1994-97	
ch Lommond near Keystone Heights (e)	02244700	0.90	1959-98	
ooklyn Lake at Keystone Heights(e)	02244750	17.4	1957-61, 1965	
ystal Lake near Keystone Heights (e)	02244760	3.42	1994-98	
ke Bedford near Keystone Heights (e)	02244766	5.0	1994-98	
keGeneva at Keystone Heights (e)	02244800	35.5	1957-61, 1965	
bble Lake near Keystone Heights (e)	02244850	0.19	1945-98	
ke Johnson (Little Lake) near Keystone Heights (e)	02244900	6.37	1945-98	
ke Johnson (Big Lake) near Keystone Heights (e)	02244905	6.37	1959-98	
ring Lake near Keystone Heights (e)	02244908	1.62	1994-98	
ke Grandin near Interlachen (e)	02244950	3.71	1957-95	
Johns River at Palatka (e)	02244450	7,094	1970-82	
eorges Lake near Florahome (e)	02245010	5.33	1982-95	
ce Creek near Palatka (e)	02245200	349	1970-73, 1994	
uth Fork Black Creek near Camp Blanding (d)	02245400	34.8	1957-60	
ngsley Lake (head of North Fork Black Creek) at Camp Blanding (e)	02245700	6.84	1945-95	
owell Creek near Fiftone (d)	02245918	6.1	1992-95	
well Creek at Lake Fretwell Dam near Maxville (d)	02245922	8.1	1992-95	
e 2 Outflow Ditch near Maxville (d)	02245924	Indeterminate	1992-95	
orth Fork Black Creek near Highland (d)	02245800	50.5	1957-60	
ellow Water Creek near Maxville (e)	02245900	21.9	1975-77	
1 Taylor Creek near Maxville (d)	02245913	15.7	1992-95	
te 1 Outflow Ditch near Maxville (d)	02245915	Indeterminate	1992-95	
well Creek above Perimeter Road Bridge near Maxville (d)	02245925	Indeterminate	1992-95	
•				
owell Creek near Maxville (d)	02245927	8.7	1992-95	
ormorant Branch near Mandarin (e)	02246202	1.62	1976-81	
* /	02246460			
illiamson Creek at Cedar Hills (d) COoy Creek at Jacksonville (e)	02246460 02246497	0.92 3.51	1971-86 1975-77,	

WATER RESOURCES DATA FOR FLORIDA, 2001 Volume 1A: Northeast Florida Surface Water

	Station	Drainage area	Period of	
Station name	number	(mi ²)	record	
ST. JOHNS RIVER BASIN BI	ELOW OCKLAWAHA RIVE	RContinued		
Strawberry Creek near Arlington (d,e) Red Bay Branch Tributary at Jacksonville (d)	02246520 02246522	2.86 0.57	1989-95 1975-86	
Trout River at Dinsmore (e) Sixmile Creek at Pickettville (e)	02246660 02246645	20.9 12.1	1975-77 1975-78	
Cedar Swamp Creek at Jacksonville (d)	02246832	3.40	1974-92	
COASTAL AREA BETWEEN ST.	JOHNS RIVER AND PONCE	E DE LEON INLET		
Moultrie Creek at State Highway 207, near St. Augustine (d) Moultrie Creek at St. Augustine (d) Bellevue Canal at Daytona Beach (d)	02246900 02247000 02247465	19.8 11.2	1961-92 1939-64 1982-85	
Bayless Blvd. Canal at Daytona Beach (d)	02247403		1982-85	
Wally Hoffmeyer Canal at Daytona Beach (d) Williamson Blvd. Ditch at Daytona Beach (d)	02247498 02247499	 	1982-85 1983-85	
Tomoka River near Daytona Beach (d) Eleventh Street Canal near Holly Hill(d) B-19 Canal at Willow Run Boulevard near Port Orange(d)	02247500 02247508 02248037	76.2	1942-46,1983-8 1982-92 1988-92	
B-19 Canal at Port Orange(d)	02248040		1982-92	
COASTAL AREA BETWEEN PON	CE DE LEON INLET AND S	EBASTIAN INLET		
County Line Road Ditch near Scottsmoor (d) Addison Creek near Titusville (d)	02248357 02248510	Indeterminate 4.1	1994-96 1989-96	
Horse Creek near Melbourne (d)	02248900	1.2	1989-92	
Eau Gallie River near Eau Gallie (d) Crane Creek at Melbourne (d) C-1 Canal at Red Bug Circle near Palm Bay (d)	02249000 02249500 02249950	2.69 12.6 Indeterminate	1955-57 1951-68 1988-92	
C-10 Canal at Malabar Road at Palm Bay (d) C-69 Canal at Palm Bay Road at Palm Bay (d)	02249970 02249990	Indeterminate Indeterminate	1988-92 1988-92	
Turkey Creek near Palm Bay (d)	02250000	95.5	1956-68	
Goat Creek near Valkaria (d) Kid Creek at Valkaria (d) Trout Creek at Grant (d)	02250500 02250600 02250700	11.9 0.70 15.0	1989-96 1989-92 1989-96	
COASTAL AREA BETWEEN S			1,0,,,0	
Fellsmere Canal near Fellsmere (d)	02251765	78.4	1955-68	
• • • • • • • • • • • • • • • • • • • •			1933-08	
FISHEATING CREEK BASIN AND INFL				
Fisheating Creek near Venus (d) Harney Pond Canal at S-71 near Lakeport (d)	02256000 02257800	311	1955-66 1962-89	
Indian Prairie Canal near Lakeport (d)	02259000		1931-33	
Indian Prairie Canal at S-72, near Okeechobee (d)	02259200		1962-89	
Indian Prairie Canal near Okeechobee (d)	02259500		1939-50	
East Lake Tohopekaliga at St. Cloud (e)	02263400	308	1941-68	
St. Cloud Canal at S-59, near St. Cloud (d) Bay Lake Outlet at S-105A, near Vineland (d)	02263500 02263851	308 14.8	1942-68 1968-71	
Lake Tohopekaliga at Kissimmee (e)	02264900	620	1942-89	
KISSIM	MEE RIVER BASIN			
Myrtle-Mary Jane Canal near Narcoossee (d)	02261500	111	1949-68	
Lake Hart near Narcoossee (e)	02262200	166	1941-69	
Lake Conway at Pinecastle (e)	02262800	12.7	1952-98	
South Port Canal at S-61 near St. Cloud (d)	02265000	620	1942-68	
Lake Gentry near St. Cloud (e)	02265400	44.6	1949-68	
Canoe Creek near St. Cloud (d)	02266000	86.5	1949-59	

WATER RESOURCES DATA FOR FLORIDA, 2001

Volume 1A: Northeast Florida Surface Water

	Station	Drainage area	Period of	
Station name	number 	(mi ²)	record	
KISSIMMEE RIVI	ER BASINContinued			
Horse Creek at Davenport (d)	02266700	22.8	1960-62	
Lake Pierce near Waverly (e)	02266900*	8.9	1947-71	
Lake Hatchineha near Lake Wales (e)	02267400	1,162	1942-76	
Sissimmee River near Lake Wales (d)	02267500	 40.6	1942-68	
ake Kissimmee near Lake Wales (e)	02268900	49.6	1929-89	
Lissimmee River Below Lake Kissimmee, near Lake Wales (d)	02269000	1,607	1933-69	
Kissimmee River at Fort Kissimmee (e)	02269100	1,911	1941-67	
teedy Creek near Frostproof (d)	02269500	60.9	1946-71	
Carter Creek near Sebring (d)	02270000	38.6	1954-66	
Stearns Creek near Lake Placid (d)	02271000	44.0	1955-67	
ake Huntley near Lake Placid (e)	02271580	9.54	1951-63	
Lake Clay near Lake Placid (e)	02271600	11.7	1951-63	
Lake Apthorpe near Lake Placid (e)	02271620	15.3	1955-60	
stokpoga Canal near Cornwell (d)	02272000		1933-68	
Kissimmee River near Basinger (e)	02272500	2,709	1931-59,	
			1963-64	
Canal 41A at S-68, near Lake Placid (d)	02273200		1964-89	
Canal 41A at S-84, near Okeechobee (d)	02273300		1963-89	
Caylor Creek near Basinger (d)	02274000	15.7	1955-89	
Caylor Creek above S-1, near Okeechobee (e)	02274330	62.2	1969-89	
Villiamson Ditch at S-7, near Okeechobee (d)	02274495	35.4	1964-89	
'aylor Creek above Okeechobee (d)	02274500	98.7	1955-82	
Taylor Creek at Okeechobee (d)	02275000	115	1932-33	
PEACE R	IVER BASIN			
Lake Alfred at Lake Alfred (e)	02293461	2.93	1985-94	
Lake Gibson near Lakeland (e)	02294224	4.31	1969-94	
WITHLACOOC	HEE RIVER BASIN			
Lake Mattie near Polk City (e)	02310780	14.7	1960-62	
Withlacoochee River near Eva (d)	02310800	130	1958-93	
Pony Creek near Polk City (d)	02310900	9.50	1960-62	
Big Gant Canal at Structure S-11, near Webster (e)	02312194	18	1970-92	
Sig Gant Canal at Structure WC-2, at Rerdell (e)	02312197	30	1970-92	
ig Gant Canal below Structure at Rerdell (e) ake Lindsey near Brooksville (e)	02312198	30 3.07	1970-92	
	02312520		1965-68	
Vithlacoochee River near Istachatta (e)	02312560	 15 4	1983-87	
umper Creek near Bevilles Corner (d)	02312632	15.4	1979-81	
umper Creek Canal near Sumterville (d)	02312635	28.6	1976-91	
umper Creek Canal near Wahoo (d) .ake Deaton near Wildwood (d)	02312645 02312688	50.6	1979-91 1978-94	
Chitty Chatty Creek near Wildwood (d)	02312686	12.4 38	1978-94	
emitty Chatty Creek hear Whawood (d)	02312070	36	1963-66, 1978	
ake Okahumpka near Wildwood (e)	02312691	49	1978-94	
ady Lake near Lady Lake (e)	02312694*	4.67	1970-73	
ake Miona near Oxford (e)	02312696	38	1978-94	
Vithlacoochee River above Wysong Dam at Carlson (e)	02312719	1,520	1962-88	
eslie Heifner Canal near Floral City (e)	02312772*	,	1983, 1984-87	
Leslie Heifner Canal below Control near Floral City (e) The Orange State Canal near Floral City (e)	02312773 02312786*		1984-86 1983-86	
Isala Apopka Lake at Floral City (e)	02312700	Indeterminate	1957-92	
Isala Apopka Lake at Fioral City (e) Isala Apopka Lake at Inverness (e)	02312800	Indeterminate	1957-92	
Sala Apopka Lake at Hernando (e)	02312950	Indeterminate	1936-50, 1957	
Sala Apopka Lake at Spivey Lake near Inverness (e)	02312877		1984-87	
ake Rousseau near Dunnellon (e)	02313229	2,020	1964-91	
Withlacoochee River Bypass Channel below Structure, near Inglis (e)	02313251		1969-82	
Withlocoochee River at Crackertown	02313265		1967-91	

WATER RESOURCES DATA FOR FLORIDA, 2001 Volume 1A: Northeast Florida Surface Water

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State 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 Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Florida."

This report series includes records of stage, discharge, and water quality of streams, stage, contents, water quality of lakes and reservoirs, and water levels and water quality of ground-water wells. Volume 1A contains records for continuous or daily discharge for 150 streams, periodic discharge for 3 streams, continuous or daily stage for 22 streams, periodic stage for 0 streams, peak stage and discharge for 0 stream, continuous or daily elevations for 10 lakes, and periodic elevations for 20 lakes. The area encompassed in this report is shown in figure 1. The data presented here represent part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Florida.

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. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Florida were published in U.S. Geological 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 Distribution Branch, Text Products Section, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey 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-01-1A." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in 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 District Office at the address given on the back of the title page or by telephone (407) 865-7575.

COOPERATION

The U.S. Geological Survey and agencies of the State of Florida have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

U.S. Army Corps of Engineers, Jacksonville District Florida Game and Fresh Water Fish Commission St. Johns River Water Management District South Florida Water Management District Southern Division Naval Facilities Engineering Command, Charleston, SC Southwest Florida Water Management District City of Cocoa City of Daytona Beach City of Jacksonville Jacksonville Electric Authority Lake County Water Authority Reedy Creek Improvement District

Organizations that provided data are acknowledged in station descriptions.

Volume 1A: Northeast Florida Surface Water SUMMARY OF HYDROLOGIC CONDITIONS

RAINFALL: Rainfall during the 2001 water year was below normal. Based on rainfall data at six NOAA stations, the rainfall for the 12-month period, from October 2000 through September 2001, ranged from 11.32 in. above normal at Winter Haven to 6.95 in. below normal at Ocala. The following summary lists departure from the 30-year (1961-1990) normal for each of the stations.

Departure from the 30-year normal rainfall (1961-1990)

	Octob	er-December	Jan	uary-March	Apı	ril-June	July-S	eptember	Wa	ter Year
	Total		Total		Total		Total		Total	
Station	Rainfall	<u>Departure</u>	Rainfall	<u>Departure</u>	Rainfall	<u>Departure</u>	Rainfall	<u>Departure</u>	Rainfall	Departure
Jacksonville AP	3.15	-4.66	7.07	-3.85	8.77	-3.24	27.92	7.34	46.91	-4.41
Ocala	2.32	-4.79	11.15	.73	8.76	-5.36	22.41	2.47	44.64	-6.95
Daytona Beach	2.87	-6.69	11.24	2.48	7.31	-4.36	29.23	11.33	50.65	2.76
Orlando	4.01	-2.86	4.60	-3.93	15.58	-2.91	31.57	11.53	55.76	7.65
Winter Haven	4.73	-1.60	*6.63	-1.75	11.17	-1.36	36.62	16.03	59.15	11.32
Vero Beach	6.73	-4.49	6.14	-2.10	9.32	-3.92	*26.48	6.10	46.80	-4.41

^{*-}Partial data - appended to average and/or total values computed with 1-9 daily values missing (March, Winter Haven), (September, Vero Beach).

SURFACE-WATER DISCHARGE: Data for the current year and period of record for 10 selected stream gaging sites are summarized in table 1.

Annual Means: After a year of below normal rainfall, discharges throughout the report area ranged from 24 to 87 percent below the period-of-record mean at nine of the ten sites shown. Discharge at one site, Fisheating Creek at Palmdale, was above the period-of-record mean. Overall, flow at the ten selected sites averaged 52 percent below the means for the period of record, and 144 percent above the means for the previous water year (2000).

<u>Seasonal Patterns</u>: Generally, mean monthly discharges rise and fall in two cycles each year. An annual high in September or October is followed by a low in November or December which is followed by another high in March or April and an annual low in May or June. This semi-annual pattern is the result of convective and tropical storms in late summer and early fall, and continental frontal storms in late winter and early spring.

Extremes: New extremes were observed for the current year at three of the ten representative sites. A new minimum daily mean was observed at St. Johns River near Cocoa (02232400), Ocklawaha River near Conner (02240000), and Withlacoochee River near Holder (02313000). A new lowest annual mean discharge was observed for the current year at Ocklawaha River near Conner (02240000) and Withlacoochee River near Holder (02313000).

Generally, discharges of the 9 selected surface-water sites indicated an increase from 2000 levels. Of the 9 selected surface-water sites presented, discharges at 4 were above the previous water-year mean. The departure from the 30-year average rainfall in 2001 for the six rainfall stations presented in the table above averaged 1.0 inches above normal. The change in average departure for these six rainfall stations from 2000 to 2001 was 5.9 inches (from an average deficit of 5.1 inches in 2000 to an average surplus of 1.0 inches in 2001 from the 30-year average).

Table 1.--Mean discharge for the 2001 water year and mean annual discharges computed from base period discharges

Station number	Station name	Long- mean annual		Mean discharge 2001 water year (ft ³ /s)	Departure from long-term mean annual discharge (percent)	Change from previous year (percent)
02231000	St. Marys River <u>basin</u> St. Marys River near Macclenny	1927-01	647	113	-82	-13
02231000	St. Johns River basin	1527 01	047	113	02	13
02232400	St. Johns River near Cocoa	1954-01	998	753	-24	-33
02236000 02240000	St. Johns River near De Land Ocklawaha River near Conner	1934-01 1931-46,	3,052	1,688	-45	-29
		1978-01	1,075	491	-54	-19
02256500	<u>Fisheating Creek basin</u> Fisheating Creek at Palmdale	1931-01	253	321	27	279
	Kissimmee River basin					
02266300 02268903	Reedy Creek near Vineland Kissimmee River at S-65, near Lake Wales	1966-01 1970-01	40.1 902	24.5 314	-39 -65	11 -58
	Withlacoochee River basin					
02312000	Withlacoochee River at Trilby	1928-01	324	115	-64	628
02312200 02313000	Little Withlacoochee River at Rerdell Withlacoochee River near Holder	1958-01 1928-01	73.7 1,005	14.4 127	-80 -87	704 -28

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SPECIAL NETWORKS AND PROGRAMS

<u>Hydrologic Benchmark Network</u> is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in 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.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. 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.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.nrel.colostate.edu/NADP

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 53 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 is available through the world wide web at:

http://water.usgs.gov/nawqa/nawqa_home.html

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. 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 indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention 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 8-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.

Latitude-Longitude System

The identification numbers for wells 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 below.)

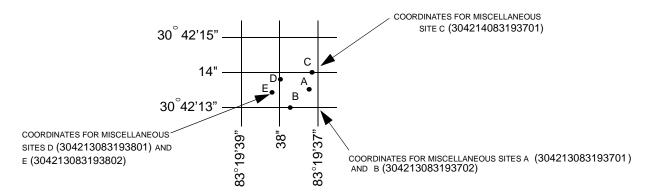


Figure 2.--System for numbering miscellaneous sites (latitude and longitude)

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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 continuous 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 continuous 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.

Continuous records of stage are obtained with electronic water-stage recorders 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, Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's), 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 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.

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

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; 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. The following comments clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate 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 Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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

PERIOD OF RECORD.--This 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.--Published records, because of new information, 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 Definition of Terms), 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 be flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") The remarks paragraph is 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 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.

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.

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.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR 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.

Data table of daily mean values

The daily table 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 discharges, respectively, for the 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 YEARS _-_, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. 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 STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current 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" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When 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 statistic table.

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 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.)

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 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 $1 \text{ ft}^3/\text{s}$; to the nearest tenth between 1.0 and $10 \text{ ft}^3/\text{s}$; 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.

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 Altamonte Springs 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.

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 <u>continuous-record station</u> is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A <u>partial-record station</u> is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A <u>miscellaneous</u> 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 "continuous 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 or obtained via data collection platform. 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. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 6a and 6b.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made, as described by Wagner and others (2000). Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating continuous water-quality records [<, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical	Ratings					
property	Excellent	Good	Fair	Poor		
Water temperature	≤±0.2°C	$> \pm 0.2 \text{ to } 0.5^{\circ}\text{C}$	$> \pm 0.5 \text{ to } 0.8^{\circ}\text{C}$	> ± 0.8°C		
Specific conductance	<u>≤ +</u> 3%	$> \pm 3$ to 10%	> ± 10 to 15%	> <u>+</u> 15%		
Dissolved oxygen	$\leq \pm 0.3 \text{ mg/L}$	$>$ \pm 0.3 to 0.5 mg/L	$>$ \pm 0.5 to 0.8 mg/L	$>$ \pm 0.8 mg/L		
рН	<u>≤ ±</u> 0.2 unit	$> \pm 0.2$ to 0.5 unit	$>$ \pm 0.5 to 0.8 unit	> <u>+</u> 0.8 unit		
Turbidity	<u>≤ +</u> 5%	$> \pm 5$ to 10%	> ± 10 to 15%	> <u>+</u> 15%		

Arrangement of Records

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

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ 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, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON 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 chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the Geological Survey Florida office whose address is given on the back of the title page of this report.

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.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Florida Office.

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.

Dissolved Trace Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols will take place during the 1995 water year.

Laboratory Measurements

Samples for indicator bacteria and daily samples for specific conductance are analyzed in Tampa office. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado and Ocala, Florida. Methods used to 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, Chapter A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

In March 1989 the National Water-Quality Laboratory in Arvada, Colorado 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 October 1982 and July 1989. Sulfate values for NASQAN stations (02301500) Alafia River at Lithia, FL and (02296750) Peace River at Arcadia, FL have not been corrected for this bias. Sulfate values for other stations in this report were determined in Ocala, Florida, and the turbidimetric method was not used.

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 water- quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

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

COOPERATION.--Records provided by a cooperating organization or obtained for the 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. Potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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

Remark Codes

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

PRINT OUTPUT	REMARK
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.
cl	Value qualifier code for holding time exceeded by the laboratory.

Rounding Clarification

Values for some constituents analyzed by routine methods are tabulated with extraneous trailing zeros that are not significant digits. Extraneous zeros result because data obtained from low-level methods that have better (lower) detection limits are stored under the same parameter code as data obtained by routine analytical methods. Precision varies for different analytical methods used to determine the same constituent. The presence of trailing zeroes after the decimal in values printed in this report does not necessarily indicate that the method used for the determination is as precise as the level implied by the rightmost zero.

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 or products, and user charges, can be obtained locally from each of the Water Resources Division Offices (See address on the back of the title page).

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 substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the 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/m³), and periphyton and benthic organisms in grams per square meter (g/m²). (See also "Biomass")

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-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")

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 (μm³) 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 geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3 \pi r^3$ cone $1/3 \pi r^3 h$ cylinder $\pi r^3 h$.

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...

From cell volume, total algal biomass expressed as biovolume (μ m³/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. (See also "Aquifer")

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 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 "Daily mean suspended-sediment concentration," "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.

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 feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that 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 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.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:

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

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

Horizontal datum (See "Datum")

Hydrologic 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_o 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

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

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

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

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA 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 intermediates. 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, μ 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, μg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in 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 streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD 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 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 x 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 $[mg C/(m^2/time)]$ for periphyton and macrophytes or per volume $[mg C/(m^3/time)]$ 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 [mg O/(m²/time)] for periphyton and macrophytes or per volume [mg O/(m³/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 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 (7Q₁₀) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the 7Q₁₀ 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 7Q₁₀.

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

Return period (See "Recurrence interval")

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 (7Q10) 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 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "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 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")

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: *Hexagenia*

Species: Hexagenia limbata

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 $^{\circ}$ C or spawning temperature preference less than 16 $^{\circ}$ C and native distribution is considered to be predominantly north of 45 $^{\circ}$ 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 bedload 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.

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 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")

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.

- Volume 1A: Northeast Florida Surface Water
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.
- 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.: USGS–TWRI book 3, chap. A9. 1989. 27 p.
- 3-Alo. Discharge ratings at gaging stations, by E.J. Kennedy: USGS-TWRI book 3, chap. Alo. 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.
- 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. Greeson, 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.

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.
- 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.
- 9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.
- 9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
- 9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

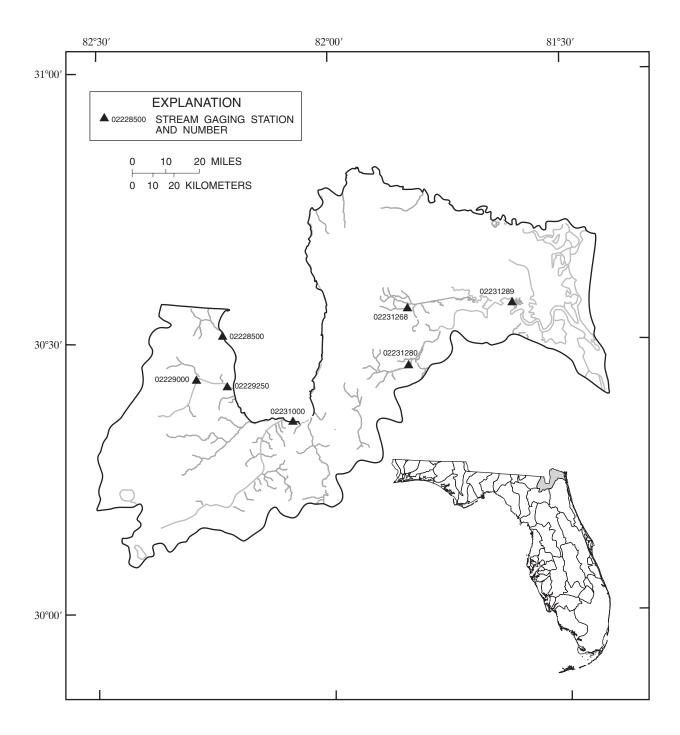


Figure 3.--Location of stream gaging stations in the St. Marys River basin and the coastal area between the St. Marys and St. Johns Rivers.

02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA

LOCATION.--Lat 30°31'03", long 82°13'50", in NW^{1}_{4} sec.8, T.1 N., R.21 E., Baker County, FL, Hydrologic Unit 03070204, near right bank at downstream side of bridge on State Highway 2 and 94, 0.2 mi upstream from Georgia Southern & Florida Railway bridge, 0.4 mi west of Moniac, 1.0 mi downstream from Moccasin Creek, and 122 mi upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 \min^2 , approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to September 1989. October 1989 to July 1990 (discharge measurements only), August 1990 to current year.

REVISED RECORDS. -- WSP 1234; Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.40 ft above sea level. Prior to June 30, 1934, nonrecording gage at site 800 ft downstream at datum 3.22 ft higher. Oct. 3, 1950 to Oct. 17, 1988, water-stage recorder, Oct. 17, 1988 to Aug. 10, 1990, non-recording gage, at present site and datum.

REMARKS. -- Records poor.

		DISCHARG	E, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2000 TC) SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	84 84 69 59	6.2 5.4 4.9 4.6 4.3	6.5 6.3 6.1 5.7 5.5	17 16 15 15	13 13 12 13 16	6.1 6.1 6.2 12	63 54 47 43 40	5.2 4.6 4.0 3.3 2.7	.00 .00 .00 .00	20 28 25 21 20	5.0 5.1 6.2 5.0 5.2	.33 1.4 6.6 8.6
6 7 8 9 10	50 54 55 50 45	4.2 4.1 3.8 3.5 3.6	5.3 5.0 4.8 4.7 5.0	15 14 15 15	e18 e19 e18 e17 e16	13 12 10 9.7	37 35 32 30 27	2.3 1.8 1.7 1.6 1.2	.00 .00 .00 .00	17 14 11 8.6 7.1	15 13 10 8.0 6.2	11 9.9 8.9 7.9 6.9
11 12 13 14 15	41 38 36 33 31	3.2 3.0 2.9 3.0 3.3	5.2 5.5 5.5 5.3 5.3	14 16 16 16 16	e14 e13 e12 e11 10	9.7 9.0 27 33 31	25 23 20 19 17	.93 .66 .53 .36	.00 11 29 23 17	5.9 4.8 5.2 25 23	4.9 4.6 4.2 3.5 3.0	6.0 5.5 10 14 19
16 17 18 19 20	28 26 24 22 21	3.2 3.1 3.1 3.1 3.4	5.3 5.5 5.6 5.3 5.3	15 15 14 14 17	10 9.7 9.0 8.4 8.0	79 98 96 121 201	21 21 18 15 14	.14 .10 .06 .05	13 17 18 35 38	16 13 9.6 7.6 6.5	2.6 2.0 1.7 1.9 2.1	19 17 14 13
21 22 23 24 25	20 18 17 15 14	3.3 3.2 3.2 3.2 7.5	5.1 5.1 4.9 4.7 4.5	19 18 18 18 15	7.7 7.4 7.1 7.0 7.2	248 206 164 131 107	12 11 9.3 8.2 8.3	.04 .04 .03 .02	37 34 31 28 24	7.9 7.2 6.2 5.6 4.6	1.8 1.5 1.4 1.0	10 40 45 34 31
26 27 28 29 30 31	13 12 10 9.1 8.1 7.1	9.4 8.8 8.0 7.3 6.9	4.7 4.9 7.3 20 19	11 11 10 10 9.8	7.0 6.7 6.4 	96 85 72 65 70 70	10 8.9 7.6 6.4 5.7	.01 .00 .00 .00 .00	19 19 20 19 19	3.7 3.0 2.7 2.5 2.3 3.4	.56 .41 .25 .15 .10	29 25 22 19 16
TOTAL MEAN MAX MIN CFSM IN.	1047.3 33.8 84 7.1 .21 .24	136.7 4.56 9.4 2.9 .03	206.9 6.67 20 4.5 .04	455.8 14.7 19 9.8 .09	316.6 11.3 19 6.4 .07	2118.8 68.3 248 6.1 .43 .49	688.4 22.9 63 5.7 .14 .16	31.66 1.02 5.2 .00 .01	451.00 15.0 38 .00 .09 .10	337.4 10.9 28 2.3 .07	117.21 3.78 15 .10 .02 .03	472.03 15.7 45 .33 .10
		ONTHLY MEAN										
MEAN MAX (WY) MIN (WY)	146 914 1951 .003 1955	54.4 520 1970 .000 1955	91.7 498 1977 .13 1955	170 583 1986 .19 1934	234 1427 1998 .21 1934	238 1203 1959 .40 1955	191 2238 1973 .20 1934	68.0 540 1964 .23 1955	84.0 775 1957 .040 1954	114 802 1928 .000 1954	176 726 1971 .006 1954	195 1592 1928 .023 1954
SUMMAR	Y STATIST	ICS	FOR 2	000 CALEN	DAR YEAR	. F	OR 2001 WA	TER YEAR	2	WATER Y	EARS 1921	L - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			9506.76 26.0 267 .00 .00 .16 2.21 57 17	Sep 9 May 29 May 29	-Jun 18	6379.80 17.5 248 .00 .00 255 8.71 .11 1.48 37 9.7	May 27 Mar 21 Mar 21	/-Jun 11	147 377 16.3 11400 .0 11600 22.9 .9 12.4 396 45	Apr 00 Son 00 Jun Apr 08 Apr 02	1973 1955 5 1973 ne years 16 1921 5 1973 5 1973	

e Estimated

02229000 MIDDLE PRONG ST. MARYS RIVER AT TAYLOR, FL

LOCATION.--Lat $30^{\circ}26^{\circ}10^{\circ}$, long $82^{\circ}17^{\circ}15^{\circ}$, in $SW^{\frac{1}{2}}_{4}$ sec.2, T.1 S., R.20 E., Baker County, Hydrologic Unit 03070204, near center of span on upstream side of bridge on State Highway 125, 0.5 mi southeast of Taylor, 0.9 mi upstream from Little River, and 7.4 mi upstream from mouth.

DRAINAGE AREA. -- 125 mi², approximately.

PERIOD OF RECORD.--October 1955 to September 1967, April 1976 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 89.51 ft above sea level (Florida Department of Transportation bench mark). Prior to April 1976 at same site at datum 0.11 ft lower.

REMARKS.--Records fair.

		DISCHAF	RGE, CUBIO			WATER YI Y MEAN V	EAR OCTOBER ALUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	171 151 133 120 110	6.6 6.0 5.5 5.0 4.6	1.8 1.7 1.6 1.6	2.2 2.0 1.9 1.8 1.7	1.7 1.7 1.8 2.0 2.0	.77 .75 .74 2.3 5.7	27 23 20 17 15	.36 .34 .31 .30	.09 .11 .10 .07	.33 .33 .32 .32	.59 .50 .46 .43	.29 .39 .60 .50
6 7 8 9 10	100 91 83 75 66	4.2 3.8 3.5 3.2 2.9		1.6 1.5 1.5 1.4	2.1 1.9 1.6 1.5	4.2 3.4 2.8 2.4 2.3	13 11 10 8.7 7.3	. 28 . 25 . 26 . 26 . 26	.08 .12 .19 .21 .27	.29 .27 .25 .25	1.2 1.1 .99 .82 .70	.39 .37 .35 .32
11 12 13 14 15		2.6 2.4 1.9 1.7	1.5	1.4 1.5 1.5 1.6 1.6	1.3 1.2 1.2 1.1	1.9 1.7 6.3 8.0 7.5	6.1 4.9 3.9 3.2 2.7	.26 .24 .24 .24 .23 .18	. 28 . 47 . 41 . 36 . 34	.22 .22 .22 .35 .31	.70 .65 .66 .60	.34 .42 .58 .75
16 17 18 19 20	29 26 23 21 19	1.3 1.3 1.2 1.2	1.4 1.3 1.3 1.2	1.6 1.6 1.5 1.5	1.0 1.0 .93 .89	15 18 20 26 51	2.5 2.2 1.7 1.4 1.1	.17 .16 .15 .14 .13	. 29	.27	.49 .43 .43 .51	1.2 .95 .80 .69
	17 16 14 13 12	1.0 .98 .96 .92 1.7		1.4 1.4 1.5 1.5		54 46 40 35 32	.88 .76 .64 .54	.12 .11 .10 .09	. 36 . 36 . 35 . 34 . 30	. 27 . 33 . 35 . 36 . 36 . 32	.53 .46 .41 .35	.97 2.0 2.2 2.1 2.3
26 27 28 29 30 31	11 10 9.2 8.4 7.8 7.2	2.1 2.5 2.4 2.0 1.9	.85 .89 1.2 2.1 2.5 2.4	1.4 1.4 1.3 1.4	.76 .74 .73 	31 29 26 25 28 29	.49 .45 .41 .37 .37	.07 .06 .06 .09 .10	. 29 . 30 . 30 . 31 . 34	.25 .31 .47 .82 .51	.27 .26 .24 .24 .23	2.1 1.9 1.6 1.4 1.2
TOTAL MEAN MAX MIN CFSM IN.	1565.6 50.5 171 7.2 .40 .47	77.86 2.60 6.6 .92 .02	43.52 1.40 2.5 .85 .01	47.9 1.55 2.2 1.3 .01	34.90 1.25 2.1 .73 .01	555.76 17.9 54 .74 .14	187.13 6.24 27 .37 .05	5.75 .19 .36 .06 .00	8.03 .27 .47 .06 .00	10.29 .33 .82 .22 .00	17.20 .55 1.3 .23 .00	29.08 .97 2.3 .29 .01
STATIS							, BY WATER					
MEAN MAX (WY) MIN (WY)	123 729 1995 .56 1991	24.4 151 1985 .83 1979	57.5 362 1998 .66 1956	120 484 1986 .92 1956	176 985 1998 1.25 2001	205 645 1959 1.23 2000	110 718 1984 .78 2000	65.2 630 1964 .12 2000	48.1 361 1957 .24 2000	66.3 346 1997 .33 2001	126 384 1966 .38 1990	127 977 1964 .21 1990
SUMMAR	Y STATIST	ICS	FOR :	2000 CALEN	DAR YEAF	R 1	FOR 2001 WA	TER YEAR		WATER YE	ARS 1956	- 2001
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN ANNUAL ANNUAL 10 PER 50 PER	NNUAL TOTAL 8699.92 NNUAL MEAN 23.8 IIGHEST ANNUAL MEAN OWEST ANNUAL MEAN OWEST DAILY MEAN 444 Sep 1: OWEST DAILY MEAN .05 Jul 2: NNUAL SEVEN-DAY MINIMUM .07 Jun 6: IAXIMUM PEAK FLOW IAXIMUM PEAK STAGE I			L	.06 .08 181 5.53	Oct 1 May 27, May 25 Oct 1 Oct 1 May 26-	28, Jun	104 289 1.30 3610 6 .05 .07 3920 14.49 4,5 .03 .84 11.35 286 26	Sep Jul Jun Sep Sep Jun	1964 1956 13 1964 21 2000 8 2000 12 1964 12 1964 6 1985		

02229250 MIDDLE PRONG ST. MARYS RIVER NEAR TAYLOR, FL

LOCATION.--Lat $30^{\circ}25^{\circ}57^{\circ}$, long $82^{\circ}13^{\circ}52^{\circ}$, in SW $^{1}_{4}$ sec.5, T.1 S., R.21 E., Baker County, Hydrologic Unit 03070204, near left bank on downstream side of bridge on State Highway 127, 2.0 mi upstream from mouth, and 3.6 mi east of Taylor.

DRAINAGE AREA.--186 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 68.80 ft above sea level.

REMARKS.--Records fair.

		DISCHAR	GE, CUBIO	C FEET PER		WATER YE 7 MEAN VA		2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	167 150 134 120 110	7.3 6.8 6.4 5.9 5.5	3.6 3.5 3.3 3.2 2.9	5.0 4.7 4.4 4.2 4.1	4.1 4.1 4.0 4.3 5.0	2.3 2.1 1.5 4.3 8.1	40 36 32 29 26	3.1 2.9 2.8 2.6 2.4	.78 .74 .71 .69 .68	1.2 1.2 1.1 1.1	1.3 1.3 1.1 .96 1.6	.39 .39 .51 1.2 1.6
6 7 8 9 10	99 89 81 73 65	5.2 4.9 4.7 4.5 4.2	2.8 2.9 2.8 2.9 2.9	4.1 4.0 3.8 3.7 3.7	4.9 4.8 4.6 4.2 3.8	11 8.8 7.7 7.1 6.8	24 21 17 17 16	2.3 2.2 2.1 2.0 1.9	.67 .74 1.1 1.2 1.6	.94 .87 .80 .77 .71	4.1 6.7 6.2 5.4 4.8	1.3 .96 .81 .72 .68
11 12 13 14 15	58 52 46 41 37	4.0 3.9 3.7 3.7 3.5	2.9 2.9 2.9 2.9 2.9	3.4 3.6 3.7 3.7 3.6	3.2 2.8 2.7 3.2 3.2	6.5 6.2 18 23 18	14 12 11 9.6 8.8	1.8 1.7 1.7 1.6 1.5	2.0 2.1 1.7 1.3 .89	.67 .63 .75 1.0 .78	4.4 2.7 1.8 1.4 1.3	.70 .74 .88 1.3 1.9
16 17 18 19 20	33 30 27 23 21	3.4 3.3 3.1 3.1 3.0	2.9 2.8 2.6 2.5 2.3	3.5 3.4 3.2 2.9 3.0	2.8 2.1 2.0 1.9 1.7	31 35 35 43 72	8.4 7.6 7.1 6.7 6.2	1.5 1.4 1.3 1.2	.65 .55 .64 1.7 2.8	.78 .71 .69 .62 .75	1.1 .85 .85 .92 .72	2.2 2.2 1.9 1.7 1.4
21 22 23 24 25	19 17 16 14 13	2.9 2.8 2.7 2.7 4.0	2.4 2.4 2.4 2.4 2.4	2.9 3.1 3.6 3.8 3.8	1.6 1.7 1.8 1.8	81 73 64 56 49	5.8 5.4 5.0 4.6 4.4	1.1 1.1 1.0 .92 .89	2.8 2.6 2.2 1.9	.85 .87 .82 .77 .75	.63 .59 .54 .53 .47	1.2 1.2 1.5 3.0 3.0
26 27 28 29 30 31	12 11 10 9.3 8.6 7.9	4.2 4.3 4.4 4.3 4.0	2.4 2.4 3.1 4.9 5.5 5.3	3.7 3.6 3.4 3.7 3.9	1.4 2.3 2.2 	47 44 40 37 41 43	4.2 4.0 3.7 3.5 3.3	.86 .81 .77 .82 .80	1.5 1.5 1.4 1.3 1.3	.68 .64 .65 .88	.40 .36 .33 .30 .30	2.8 2.8 2.9 2.5 2.1
MEAN MAX MIN	1593.8 51.4 167 7.9	126.4 4.21 7.3 2.7	94.0 3.03 5.5 2.3	114.6 3.70 5.0 2.9	2.99 5.0 1.4	922.4 29.8 81 1.5	393.3 13.1 40 3.3	49.02 1.58 3.1 .75	41.34 1.38 2.8 .55	26.12 .84 1.5 .62	54.31 1.75 6.7 .30	46.48 1.55 3.0 .39
MEAN MAX (WY) MIN (WY)	270 984 1999 12.4 1998	29.2 70.0 1998 4.21	111 431 1998 3.03 2001	170 620 1998 3.70 2001	427 1616 1998 2.99 2001	7 - 2001, 194 723 1998 3.64 2000	65.1 178 1997 2.30 2000	YEAR (WY 66.6 318 1997 .94 2000	22.8 109 1997 .93 2000	83.8 412 1997 .84 2001	121 560 1997 1.75 2001	51.8 184 2000 1.55 2001
SUMMAR	Y STATISTI	ICS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1997	- 2001
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU INSTAN 10 PER 50 PER		EAN EAN AN MINIMUM OW AGE OW FLOW EDS		9045.82 24.7 406 .46 .49 58 3.1 .84	Sep 19 Jun 9		3545.37 9.71 167 .30 .35 175 5.25 29 2.9 .74	Oct 1 Aug 29 Aug 27 Oct 1 Oct 1 Aug 28	,30	4250 17.9	Feb: 0 Aug 29, 5 Aug : Feb: 5 Feb: 9 Aug 28-	17 1998 17 1998

02231000 ST. MARYS RIVER NEAR MACCLENNY, FL

LOCATION.--Lat 30°21'31", long 82°04'54", in $NW^{1/4}_{4}$ sec.2, T.2 S., R.22 E., Baker County, Hydrologic Unit 03070204, on right bank 200 ft downstream from site of former Stokes Bridge, 1 mi downstream from confluence of North and South Prongs, 6 mi northeast of Macclenny, and 100 mi upstream from mouth.

DRAINAGE AREA.--700 \min^2 , approximately, includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD. -- October 1926 to current year.

REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 40.00 ft above sea level (levels by Mees and Mees). Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939 to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft upstream, at same datum.

REMARKS. -- Records fair.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	EAR OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	334 326 303 268 240	43 41 39 38 37	39 38 37 35 34	56 52 49 47 46	41 44 45 48 49	32 33 34 41 57	217 197 176 157 143	35 33 33 31 30	14 14 14 14	110 321 398 260 208	116 207 204 165 149	22 30 55 81 140
6 7 8 9 10	218 199 192 181 165	36 35 34 33	34 34 33 34 34	45 44 44 43 43	50 51 49 47 45	67 62 54 48 46	132 122 113 104 96	28 27 26 25 24	14 17 18 24 25	161 124 96 78 66	330 595 443 306 237	323 396 339 235 161
11 12 13 14 15	150 136 124 114 105	31 30 30 30 29	34 34 35 35 35	43 44 44 44 45	44 42 42 41 41	44 42 44 67 91	89 82 76 70 65	23 24 23 22 21	36 70 83 84 82	57 50 50 138 147	182 144 116 97 82	122 110 131 321 1080
16 17 18 19 20	97 90 84 78 74	28 28 28 28 29	35 34 33 32 32	45 44 43 42 40	40 39 38 37 36	105 196 233 243 328	62 58 58 56 53	20 19 18 17 16	65 54 68 167 308	123 88 70 62 60	69 58 53 66 69	1680 1620 1290 1010 786
21 22 23 24 25	70 66 62 59 57	28 28 28 29 38	32 33 33 33 34	39 40 42 42 41	36 35 34 34 33	477 474 396 334 286	51 48 46 44 42	16 15 14 14 14	438 346 211 154 122	155 267 267 212 197	63 47 39 34 30	557 379 297 291 304
26 27 28 29 30 31	54 52 49 48 46 44	42 48 47 44 41	34 33 38 45 55	41 40 40 39 39 40	33 32 31 	255 236 218 202 203 219	41 40 39 38 37	14 14 13 13 14	98 85 74 71 78	144 101 79 73 69 75	27 24 21 19 18 19	323 315 288 248 207
TOTAL MEAN MAX MIN MED CFSM IN.	4085 132 334 44 97 .19 .22	1032 34.4 48 28 32 .05	1120 36.1 59 32 34 .05	1346 43.4 56 39 43 .06	1137 40.6 51 31 41 .06	5167 167 477 32 105 .24 .27	2552 85.1 217 37 64 .12 .14	650 21.0 35 13 20 .03	2862 95.4 438 14 70 .14	4306 139 398 50 110 .20 .23	4029 130 595 18 69 .19	13141 438 1680 22 300 .63 .70
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	812 6240 1948 22.7 1932	271 4155 1948 15.9 1932	371 2470 1948 18.0 1932	611 2404 1942 21.7 1932	862 5940 1998 20.2 1934	945 4928 1959 44.7 1932	747 6564 1973 25.7 1935	311 3303 1964 20.4 1932	349 2642 1957 18.8 1935	580 2183 1928 31.3 1954	909 3296 1945 24.9 1954	1006 6340 1964 21.4 1990
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	FOR 2001 WAT	TER YEAR		WATER YEA	ARS 1927	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANTI ANNUAL ANNUAL		CAN CAN LIN MINIMUM LIGE DW FLOW CFSM) CNCHES)		42802 117 1370 *13 13 .17 2.27 207	Sep 10 May 29		41427 113 1680 13 14 1740 9.90 13 .16 2.20 275			647 2285 90.1 27600 12 13 28100 23.25 6 12 .92 12.55 1610	Sep : May : May : Sep : Sep :	1948 1955 25 1947 22 1932 29 2000 25 1947 13 1964 22 1932
50 PERC	CENT EXCEE	DS		52 21			48 24			220 37		

^{*} May 29-31, Jun 1-4, 10, 2000

02231000 ST. MARYS RIVER NEAR MACCLENNY, FL--Continued

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

					Dilli.	L PILLET VILL	БОББ					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.42 4.36 4.21 3.97 3.76	1.69 1.67 1.64 1.63 1.61	1.60 1.58 1.56 1.54 1.53	1.80 1.74 1.71 1.68 1.66	1.58 1.61 1.64 1.68 1.69	1.42 1.43 1.45 1.57 1.79	3.39 3.19 2.99 2.82 2.68	1.34 1.31 1.30 1.28 1.25	.97 .97 .96 .97	2.35 4.21 4.78 3.79 3.34	2.52 3.42 3.39 3.05 2.89	1.31 1.44 1.82 2.17 2.81
6 7 8 9 10	3.59 3.43 3.37 3.28 3.13	1.59 1.58 1.56 1.55 1.53	1.52 1.52 1.51 1.52 1.52	1.64 1.63 1.63 1.62 1.61	1.71 1.73 1.70 1.67 1.63	1.93 1.86 1.75 1.67 1.63	2.57 2.47 2.36 2.26 2.17	1.23 1.20 1.19 1.18 1.16	.98 1.03 1.05 1.15 1.18	2.90 2.54 2.23 2.01 1.86	4.30 5.86 5.05 4.20 3.69	4.32 4.79 4.43 3.68 3.04
11 12 13 14 15	2.99 2.85 2.72 2.61 2.51	1.51 1.50 1.49 1.49	1.52 1.52 1.53 1.54 1.54	1.61 1.62 1.62 1.63 1.64	1.61 1.59 1.58 1.57 1.55	1.60 1.58 1.60 1.92 2.21	2.09 2.00 1.92 1.85 1.78	1.15 1.15 1.14 1.13 1.11	1.35 1.84 2.01 2.03 1.99	1.74 1.64 1.63 2.70 2.80	3.22 2.86 2.57 2.36 2.18	2.64 2.51 2.73 4.24 7.76
16 17 18 19 20	2.42 2.34 2.27 2.19 2.13	1.47 1.47 1.47 1.47 1.48	1.54 1.52 1.50 1.49 1.49	1.63 1.62 1.60 1.58 1.56	1.54 1.53 1.52 1.50 1.49	2.36 3.25 3.58 3.65 4.30	1.74 1.69 1.69 1.66 1.62	1.10 1.08 1.05 1.03 1.02	1.77 1.63 1.80 2.91 4.13	2.55 2.16 1.93 1.83 1.81	2.01 1.87 1.78 1.98 2.02	9.71 9.53 8.53 7.60 6.70
21 22 23 24 25	2.08 2.03 1.98 1.94 1.91	1.47 1.46 1.47 1.48 1.61	1.49 1.49 1.49 1.49	1.55 1.56 1.59 1.59 1.57	1.48 1.46 1.45 1.45	5.26 5.24 4.78 4.33 3.97	1.58 1.54 1.51 1.47 1.45	1.01 1.00 .98 .97 .97	5.04 4.41 3.33 2.79 2.47	2.88 3.88 3.89 3.44 3.31	1.93 1.71 1.58 1.50 1.43	5.66 4.67 4.12 4.07 4.16
26 27 28 29 30 31	1.87 1.83 1.80 1.77 1.75	1.67 1.74 1.72 1.67 1.63	1.49 1.48 1.54 1.65 1.79 1.85	1.57 1.56 1.55 1.54 1.55 1.56	1.43 1.42 1.41 	3.72 3.56 3.40 3.25 3.26 3.40	1.43 1.41 1.40 1.39 1.36	.96 .96 .95 .95	2.21 2.05 1.92 1.88 1.97	2.80 2.35 2.08 2.02 1.96 2.04	1.38 1.33 1.29 1.26 1.23 1.25	4.30 4.24 4.04 3.74 3.40
MEAN MAX MIN	2.68 4.42 1.72	1.56 1.74 1.46	1.54 1.85 1.48	1.61 1.80 1.54	1.56 1.73 1.41	2.80 5.26 1.42	1.98 3.39 1.36	1.10 1.34 .95	1.99 5.04 .96	2.63 4.78 1.63	2.49 5.86 1.23	4.47 9.71 1.31

CAL YR 2000 MEAN 2.14 MAX 8.80 MIN 1.02 WTR YR 2001 MEAN 2.20 MAX 9.71 MIN .95

02231268 ALLIGATOR CREEK AT CALLAHAN, FL

LOCATION.--Lat $30^{\circ}33^{\circ}59^{\circ}$, long $81^{\circ}50^{\circ}01^{\circ}$, in NW^{1}_{4} sec. 29, T.2 N., R.25 E., Nassau County, Hydrologic Unit 03070205, on downstream side of bridge on U.S. Highway 1, 0.2 mi northwest of the intersection of U.S. Highway 1 and State Highway 200 at Callahan.

DRAINAGE AREA. -- 14.0 mi².

PERIOD OF RECORD. -- October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS. -- Records poor.

		DISCHAR	GE, CUBIC	C FEET PER		WATER Y	EAR OCTOBER ALUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.6 2.7 1.9 1.6 1.4	. 27 . 28 . 27 . 26 . 28	1.7 1.5 1.4 1.4	4.9 3.6 2.9 2.6 2.3	2.8 3.1 3.2 3.4 3.6	1.4 e1.6 e2.5 e12 e14	e7.0 e5.2 e4.0 e3.3 e2.6	.06 .06 .06 .06	.03 .03 .03 .03	e.14 e.14 e.13 e.12 e.60	7.1 e10 e12 e10 e8.0	e6.0 e18 e42 e60 e48
6 7 8 9 10	1.3 1.3 1.3 1.1	.31 .36 .36 .38	e1.3 e1.1 e1.0 e1.4 e1.6	2.3 2.2 2.2 2.2 2.2	3.7 3.2 2.8 2.6 2.5	e7.5 e5.5 e5.0 e5.2 e6.0	e2.1 1.8 1.6 1.4	.06 .05 .06 .05	.03 .07 .09 .20	e.40 e.30 e.20 e.10 e.05	e15 e54 e22 e12 e9.0	e40 e27 e12 4.3 3.1
11 12 13 14 15	.76 .57 .42 .33	. 43 . 41 . 45 . 49 . 52	e1.8 e1.9 e2.0 e1.8 e2.1	2.1 2.3 2.3 2.4 2.4	2.4 2.3 2.3 2.3 2.2	e5.8 e5.5 e8.4 e11 e10	1.0 .81 .60 .44	.05 .46 .08 .05	.17 1.4 .10 2.0 1.7	e.03 .02 1.3 1.6 3.0	e7.5 e5.0 e4.0 e3.0 e2.8	8.6 12 128 158 121
16 17 18 19 20	.22 .17 .15 .13	.59 .67 .74 .81	e2.0 e2.2 e2.0 e1.8 e1.6	2.3 2.3 2.2 2.2 2.1	2.2 2.1 2.1 1.9	e15 e16 e15 e21 e29	.58 .56 .45 .28	.05 .05 .05 .05	1.1 .73 1.9 2.2 2.6	2.5 1.1 .54 1.3 4.1	e2.5 e2.0 e2.5 e30 e18	97 31 15 10 7.2
21 22 23 24 25	.16 .18 .17 .16	1.0 1.0 1.0 1.1 3.2	e2.0 e2.4 e2.0 e1.8 e1.7	2.0 2.0 2.2 2.4 2.5	1.8 1.8 1.7 1.6	e19 e14 e11 e10 e9.5	.10 .07 .06 .06	.05 .05 .05 .05	1.8 1.1 .99 1.2 1.1	3.7 7.0 6.8 3.0 1.2	e10 e6.0 e5.0 e4.0 e3.0	5.3 15 24 14 8.7
26 27 28 29 30 31	.16 .18 .17 .19 .21	2.7 3.1 2.9 2.4 1.9	e1.6 e1.6 3.5 5.3 11 8.1	2.4 2.3 2.2 2.1 2.0 2.3	1.6 1.5 	e9.0 e8.0 e7.5 e8.2 e12 e9.5	.06 .06 .06 .06	.04 .04 1.1 .09 .03	.66 .37 .23 e.18 e.16	1.1 4.0 6.6 3.4 1.5 2.6	e2.0 e1.5 e1.0 e.90 e.85 e1.5	7.2 6.6 4.9 3.5 2.5
TOTAL MEAN MAX MIN CFSM IN.	22.22 .72 3.6 .13 .05	29.55 .99 3.2 .26 .07 .08	1.0 .17 .20	. 20	3.7 1.5 .17 .17	10.2 29 1.4 .73 .84	.10	1.1 .03 .01 .01		58.57 1.89 7.0 .02 .13 .16	272.15 8.78 54 .85 .63 .72	939.9 31.3 158 2.5 2.24 2.50
							, BY WATER					
MEAN MAX (WY) MIN (WY)	17.4 89.9 1997 .028 1982	4.78 22.5 1994 .60 1991	10.2 73.3 1998 .98 1991	19.5 50.6 1998 2.40 2001	22.6 126 1998 2.35 2001	17.6 41.7 1986 2.10 2000	9.73 26.4 1983 1.20 2001	2.78 13.1 1984 .037 1995	5.66 47.4 1991 .023 1993	7.17 54.1 1991 .083 1993	17.1 99.1 1998 .11 1990	17.3 69.1 1985 .086 1990
SUMMARY	Y STATIST	ICS	FOR 2	2000 CALENI	DAR YEAR	1	FOR 2001 WA	TER YEAR		WATER Y	YEARS 1982	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	MEAN F ANNUAL M ANNUAL M F DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE CFSM) INCHES) EDS EDS		1137.42 3.11 168 .00 .00 .22 3.02 5.6 1.1	Sep 7 Many da May 23	ays	.02 .03 209	Sep 13		12.6 36.5 3.3 878 .(931 14.5 12.2 26	0 34 Oct Oct Som Oct	1998 2000 8 1996 e years e years 8 1996 8 1996

e Estimated

02231280 THOMAS CREEK NEAR CRAWFORD, FL

LOCATION.--Lat 30°27'39", long 81°49'57", in NW^{1}_{4} sec.32, T.1 N., R.25 E., Duval County, Hydrologic Unit 03070205, on downstream side of bridge on Acree Road, 4.4 mi southeast of Crawford, 4.4 mi northwest of Dinsmore, 7.1 mi south of Callahan, and 24 mi upstream from mouth.

DRAINAGE AREA. -- 29.9 mi².

PERIOD OF RECORD.--January 1965 to current year.

REVISED RECORDS.--WDR FL-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1950 reached a stage of 23.3 ft, from floodmark pointed out by local resident.

		DISCHA	RGE, CUBI	C FEET PEI	R SECOND, DAILY	WATER YE MEAN VA		R 2000 TO) SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	15 12 9.7 9.3	3.5 3.4 3.5 3.4 3.4	6.2 6.0 6.2 5.9 5.8	9.7 8.7 8.2 7.8 7.6	8.2 9.1 9.1 9.8 12	5.2 5.4 6.5 13 21	11 8.8 7.6 6.9 6.5	2.5 2.6 2.3 2.2 2.1	.96 1.0 1.1 .85 .72	3.5 3.0 2.7 2.5 3.8	4.4 10 11 14 10	12 29 76 259 173
6 7 8 9 10	11 9.2 8.9 7.8 6.9	3.4 3.5 4.0 4.0 3.8	5.7 5.5 5.4 5.4 5.6	7.5 7.3 7.2 7.2 6.9	9.8 8.2 7.5 7.1 6.8	12 8.6 7.2 6.6 7.7	6.2 5.9 5.3 4.9 4.6	1.9 1.9 2.2 2.1 1.9	.67 .63 .81 1.6 2.0	3.6 3.3 4.5 3.8 2.9	36 63 61 41 14	128 120 148 94 55
11 12 13 14 15	6.7 5.9 5.5 5.1 4.7	3.6 3.5 3.5 3.6 3.7	5.8 6.0 6.1 6.0 6.1	6.9 7.5 8.1 7.7 7.4	6.8 6.6 6.5 6.6	7.9 7.2 11 14 11	4.3 4.0 3.8 3.5 3.3	1.7 1.8 5.2 4.5 3.2	2.4 6.4 12 6.2 3.7	2.6 2.4 3.0 21 28	11 8.4 6.8 5.3 4.6	61 76 422 625 1070
16 17 18 19 20	4.4 4.1 4.0 3.8 3.9	3.7 3.8 3.9 3.9 4.4	6.0 6.2 6.0 5.8 5.9	7.1 6.9 6.8 6.8	6.4 6.1 5.9 5.8 5.7	15 22 17 23 72	3.4 3.4 3.1 2.9 2.9	2.5 2.0 1.7 1.5	3.3 2.4 5.3 34 42	8.3 5.2 4.0 3.6 3.4	4.4 3.9 3.8 23 57	584 283 175 119 84
21 22 23 24 25	4.3 4.4 4.1 4.1 4.1	4.5 4.3 4.2 4.3	5.9 6.0 5.9 5.8 5.8	6.5 6.4 6.9 7.8 7.3	5.7 5.6 5.5 5.5	71 30 17 13	2.9 2.8 2.7 2.7 3.1	1.5 1.5 1.3 1.1	12 20 13 9.7 7.0	5.0 5.9 5.3 4.3 4.0	30 13 9.1 6.8 5.4	60 44 40 52 58
26 27 28 29 30 31	4.1 4.0 3.8 3.7 3.6 3.6	16 11 8.2 7.2 6.7	5.8 5.8 7.7 22 19	6.8 6.5 6.3 6.3 7.3	5.7 5.6 5.4 	12 10 9.0 8.8 14	3.0 2.9 2.6 2.5 2.5	.99 .96 .95 1.0 1.1	4.8 3.9 4.4 4.2 4.2	3.5 5.4 4.9 3.7 3.0 3.6	4.5 3.9 3.4 3.4 3.1	43 31 24 20 17
TOTAL MEAN MAX MIN CFSM IN.	193.7 6.25 15 3.6 .21	150.9 5.03 16 3.4 .17	219.3 7.07 22 5.4 .24 .27	224.7 7.25 9.7 6.3 .24 .28	195.3 6.97 12 5.4 .23 .24	504.1 16.3 72 5.2 .54 .63	130.0 4.33 11 2.5 .14	59.70 1.93 5.2 .95 .06	211.24 7.04 42 .63 .24 .26	163.7 5.28 28 2.4 .18 .20	478.3 15.4 63 3.1 .52	4982 166 1070 12 5.55 6.20
STATIST	TICS OF M	ONTHLY ME	AN DATA F	OR WATER	YEARS 1965	- 2001,	BY WATER	YEAR (WY	()			
MEAN MAX (WY) MIN (WY)	40.7 294 1993 1.54 1982	17.8 182 1970 2.62 1991	25.0 171 1998 3.46 1991	38.4 104 1986 6.58 1985	53.1 280 1998 6.97 2001	47.2 170 1970 5.43 2000	30.3 254 1973 2.44 1968	14.8 92.6 1966 1.26 2000	23.0 109 1973 .65 2000	29.6 169 1991 2.04 1977	47.0 185 1968 1.05 1999	51.6 238 1979 1.16 1990
SUMMARY	Y STATIST	ICS	FOR	2000 CALEI	NDAR YEAR	F	OR 2001 W	ATER YEAR	?	WATER Y	EARS 1965	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT ANNUAL ANNUAL 10 PERC 50 PERC	MEAN I ANNUAL ANNUAL M I DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW CFSM) INCHES) EDS EDS		.0	Sep 7 1 Jul 21 1 May 31		FOR 2001 WATER YEAR 7512.94 20.6 1070 Sep 15 .63 Jun 7 .83 Jun 2 1430 Sep 15 19.03 Sep 15 .54 Jun 7 .69 9.35 29 5.9 2.4				0 Sep 26-2 1 May 3 Oct 0 Oct	31 2000 4 1992

a From floodmark

02231289 NASSAU RIVER NEAR HEDGES, FL

LOCATION.--Lat 30°34'28" long 81°36'32", in land grant 47, T.2 N., R.27 E., Nassau County, Hydrologic Unit 03070205, near left bank on upstream side of bridge on U.S. Highway 17, 0.5 mi north of Halfmoon Island, 1.8 mi south of Hedges, and about 21 mi upstream from mouth.

DRAINAGE AREA.--274 mi^2 , approximately, does not include Inconstantion Creek.

PERIOD OF RECORD.--April 1983 to September 1985 and October 1986 to September 1988, October 1988 to September 1992 (gage heights only), October 1992 to September 1994 (gage heights and discharge measurements only), October 1994 to September 1996 (gage heights only), October 1996 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter and data-collection platform. Datum of gage is 10.00 ft below sea level. Prior to June 22, 1991 gage was at present site and datum. June 22, 1991 to August 22, 1996 at site 200 ft upstream at present datum. August 1985 to April 1998 auxiliary water-stage recorder about 5.0 mi downstream.

REMARKS.--Records fair. There is no record, Dec. 15, 2000 to Sept. 30, 2001 due to bridge construction. Discharge represents net of much larger upstream and downstream discharge. The gage height record published is the high and low tide event for each day. Maximum daily discharge, maximum daily reverse flow, and maximum peak stage may have been exceeded during periods of no record.

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

		DISCHA	RGE, CUBI	C FEET PER	DAILY	MEAN VA		2000 10	PELIFMRE	SK 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	e1280	642									
2	2350	832	504									
3	1410	828	542									
4	643	549	410									
5	342	-22	943									
6 7	-33 -1140	-179 873	783 503									
8	-1140	76	422									
9	-392	-75	-174									
10	693	655	-564									
10	0,5	033	501									
11	334	-1090	79									
12	30	47	702									
13	-14	454	46									
14	477	1250	1210									
15	749	627										
16	523	946										
17	602	1230										
18	844	553										
19	662	-590										
20	242	267										
20		20,										
21	50	1570										
22	-117	2.2										
23	-1550	81										
24	-445	-623										
25	177	988										
26	124	996										
27	817	677										
28	e2870	594										
29	605	764										
30	828	923										
31	989											
TOTAL	12890	14483.2	6048									
MEAN	416	483	432									
MAX	2870	1570	1210									
MIN	-1550	-1090	-564									
STATIST	TICS OF	MONTHLY ME.	AN DATA F	OR WATER Y	EARS 1983	- 2001,	BY WATER	YEAR (WY)				
MEAN	986	1398	1375	1679	1508	1629	1274	823	1386	1230	1524	1282
MAX	2465	4111	3587	3566	3104	3908	4040	3191	4465	5826	7110	6780
(WY)	1998	1985	1997	1984	1984	1984	1984	1985	1997	1997	1997	1997
MIN	416	340	432	484	412	398	191	116	191	-28.5	57.7	140
(WY)	2001	1987	2001	1987	1989	1989	1989	1988	1986	1986	2000	1998
SUMMARY	Y STATIS	TICS	FOR	2000 CALEN	IDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	ARS 1983	- 2001
				68066 -			22401 2					
ANNUAL				67966.5			33421.2			1000		
ANNUAL				294			446			1338		1005
	r annual									3966		1997
	ANNUAL			2870	0 20		2070	0-+ 00		266	C	2000
	C DAILY			-1830	Oct 28		2870 -1550	Oct 28 Oct 23		11300 -3370		2 1985
	DAILY M	EAN AY MINIMUM		-1830 -692	May 30 Sep 21		-1550	Oct 23		-3370 -692		26 1988 21 2000
	SEVEN-D M PEAK S			022	DCD ZI			Oct 0		14.88		7 1996
	TENT EXC			978			1240	. 000 1		3600	JUL	, 1220
	CENT EXC			267			542			892		
	CENT EXC			-585			-493			-300		

e Estimated

Note.--Negative figures indicate reverse flow.

COASTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVERS

02231289 NASSAU RIVER NEAR HEDGES, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
	OCTO	DBER	NOVE	EMBER	DEC	EMBER	JANUA	ARY	FEBRU	JARY	MARC	'H
1	13.74	11.62	12.98	9.89	12.61	8.55						
2	13.37	10.69	12.88	9.44	12.65	8.86						
3 4	13.12 13.02	9.95 9.89	12.80 12.77	9.37 9.42		10.15 10.29						
5	12.81	9.33	12.87	9.64	12.75	9.72						
6	12.65	9.03	12.97	10.12	12.69	9.27						
7	12.78	8.94	12.76	9.44	12.68	8.76						
8 9	13.11 13.15	9.71 10.65	12.78 12.91	9.22 9.10	12.72 12.77	8.33 7.96						
10	13.00	9.95	12.83	8.82	13.06	8.33						
11	12.91	9.34	13.18	8.76	13.17	8.61						
12	12.91	9.31	13.10	9.71	13.17	8.30						
13 14	13.08 13.14	9.42 9.61	13.35 13.12	9.49 9.22	13.28 13.05	8.17 8.69						
15	13.14	9.36	13.12	8.66								
1.0	12 10	0.16	12 10	0 07								
16 17	13.10 13.14	9.16 9.25	13.10 12.87	8.97 8.89								
18	13.11	9.12	12.87	8.75								
19 20	13.07 13.11	9.07 9.69	13.13 12.99	9.71 9.88								
21 22	13.06 13.10	9.40 9.46	12.57 12.70	8.23 8.03								
23	13.43	9.80	12.70	8.01								
24	13.45	10.86	12.74	8.16								
25	13.37	10.48	13.09	9.16								
26	13.41	10.27	12.80	8.26								
27 28	13.38 13.18	10.38 9.73	12.71 12.65	7.94 7.85								
29	13.17	9.46	12.59	8.19								
30 31	13.18 12.99	9.90 9.51	12.47	8.03								
MAX MIN	13.74 12.65	11.62 8.94	13.37 12.47	10.12 7.85	13.28 12.61	10.29 7.96						
DAY	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
DAY												
	APF	RIL	MA	ΑY	J	UNE	JUI	ĽY	AUGU	JST	SEPTEM	IBER
1				ΑY								
1 2 3	APF 	RIL	M2 	 7A	J1 	UNE 	JUI 	 	AUGU 	JST 	SEPTEM	IBER
1 2 3 4	APF	 	M2 	 AY	J1 	UNE 	JUI 	 	AUGU	JST 	SEPTEM	IBER
1 2 3 4 5	APF	 	M2 	 	JI 	UNE 	JUI 		AUGU 	JST 	SEPTEM	BER
1 2 3 4 5	APF	 	M2 	AY	J1 	UNE 	JUI 	 	AUGU 	JST 	SEPTEM	IBER
1 2 3 4 5	APF	 	M2	 	JI	UNE	JUI 	 	AUGU	JST	SEPTEM	BER
1 2 3 4 5 6 7 8 9	APF	 	M2	 	JI 	UNE	JUI 	 	AUG	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9	APF		M2	AY	 	UNE	JUI 	 	AUGU	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9 10	APF		M2	AY		UNE	JUI		AUGU	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9	APF		M2	AY	 	UNE	JUI 	 	AUGU	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9 10 11 12 2 13	APF	RIL	M2	 		UNE	JUI	 	AUGU	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9 10	APF	RIL	M2	AY		UNE	JUI	 	AUGU	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	APF		M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	APF		M2	AY	 	UNE	JUI	 	AUGU	JST	SEPTEM	IBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	APF	RIL	M2	AY		UNE	JUI	 	AUGU	UST	SEPTEM	IBER
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	APF		M2	AY		UNE	JUI	 	AUGU	JST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	APF	RIL	M2			UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	APF		M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	APF	RIL	M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	APF		M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	APF	RIL	M2			UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	APF	RIL	M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	APF	RIL	M2			UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	APF		M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	APF	RIL	M2			UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MAX	APF		M2	AY		UNE	JUI		AUGU	UST	SEPTEM	IBER
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	APF	RIL	M2			UNE	JUI		AUGU	UST	SEPTEM	IBER

YEAR HIGH MAXIMUM 13.74 MINIMUM 12.47 LOW MAXIMUM 11.62 MINIMUM 7.85

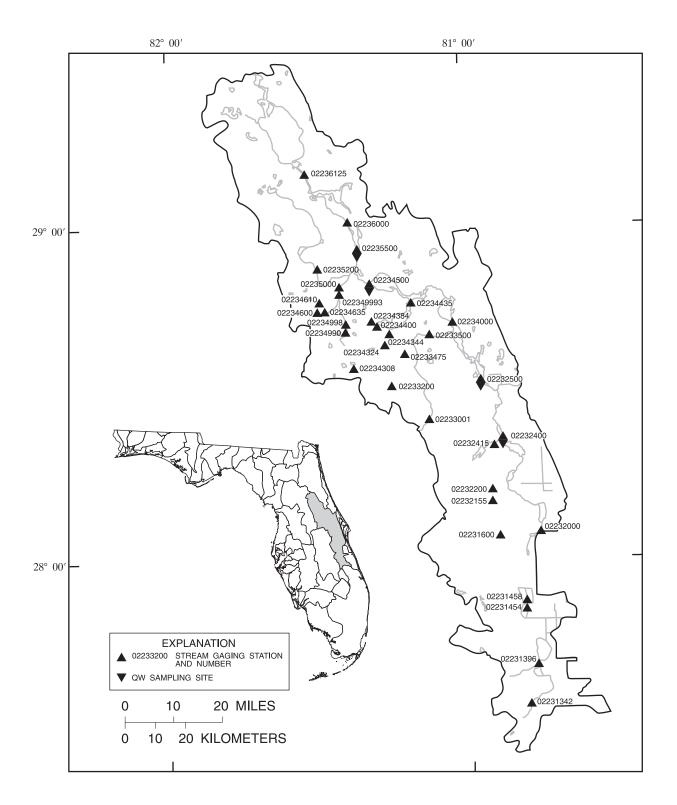


Figure 4.--Location of stream gaging stations in the St. Johns River basin above the Ocklawaha River.

02231342 FORT DRUM CREEK AT SUNSHINE STATE PARKWAY, NEAR FORT DRUM, FL

LOCATION.--Lat $27^{\circ}34^{\circ}06^{\circ}$, long $80^{\circ}47^{\circ}47^{\circ}$, in $NE^{\frac{1}{2}}_{4}$ sec.35, T. 33 S., R.35 E., Okeechobee County, Hydrologic Unit 03080101, near center of downstream side of southbound bridge on Sunshine State Parkway, 2.7 mi southeast of the Fort Drum Service Plaza, and 3.0 mi north of Fort Drum.

DRAINAGE AREA. -- 52.6 mi².

PERIOD OF RECORD.--July 1969 to July 1970 (discharge measurements only), June 1977 to current year.

REVISED RECORDS.--WDR FL-79-1: 1978 (M).

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (levels by Brevard Engineering Co.). REMARKS.--Records good.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN VA	EAR OCTOBER ALUES	2000 TO) SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	27 21 28 63 70	1.2 1.1 .91 .80 .73	.16 .13 .12 .13	.52 .56 .58 .57	.80 .72 .62 .59		36 25 19 16 13	.00 .00 .00 .24 .13	.50 1.1 .79 .89 2.0	20 15 11 14 48	59 110 166 216 262	38 45 39 33 29
6 7 8 9 10	64 54 45 37 30	.62 .59 .56 .49	.14 .13 .13 .14	.53 .44 .45 .51	.43 .35 .29 .21	.00 .00 .00 .00	9.5 5.8 3.7 2.5 1.7	.00 .00 .00 .00	2.6 2.8 4.4 9.9	68 57 49 98 148	318 262 196 140 106	27 39 82 126 443
11 12 13 14 15	25 26 18 14 12	.44 .41 .32 .23	.16 .17 .17 .17 .13	. 44 . 51 . 47 . 48 . 57		.00 .00 .00 .00	1.5 1.3 1.8 2.0 1.5	.00 .00 .00 .00	15 14 15 15	267 254 255 249 371	85 82 125 138 130	506 378 277 307 407
16 17 18 19 20	9.2 7.4 6.3 5.3 4.7	.17 .18 .24 .29	.11 .10 .07 .07	.59 .62 .66 .65	.00 .00 .00 .00			.00 .00 .00 .00		443 371 298 280 227	125 116 114 169 137	382 294 223 163 119
21 22 23 24 25	4.4 4.3 3.7 3.6 3.4	.26 .20 .14 .14	.12 .17 .18 .20	.81 .95 1.4 1.3	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .19 .69	25 26 27 29 28	220 268 258 217 169	108 109 126 97 72	93 74 64 58 56
26 27 28 29 30 31	3.0 2.6 2.2 1.9 1.6 1.3	.14 .14 .16 .29 .44 .36 .31 .24	.15 .11 .27 .84 .79	1.1 .99 .97 .90 .90	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.06 .48 3.7 2.1 1.1 .57	26 26 30 29 24	128 106 91 84 79 68	57 47 40 36 42 38	53 66 71 91 100
TOTAL MEAN MAX MIN CFSM IN.		12.72 .42 1.2 .14 .01	6.21 .20 .84 .07 .00	22.45 .72 1.4 .44 .01	4.98 .18 .80 .00 .00	68.00 2.19 46 .00 .04	141.52 4.72 36 .00 .09		499.98 16.7 30 .50 .32 .35	5231 169 443 11 3.21 3.70	3828 123 318 36 2.35 2.71	4683 156 506 27 2.97 3.31
STATIST	CICS OF M	ONTHLY MEA	N DATA FO	OR WATER YE	ARS 1977	- 2001	, BY WATER	YEAR (WY	()			
MEAN MAX (WY) MIN (WY)	79.2 384 2000 .017 1989	34.6 276 1988 .42 1981	20.7 79.0 1998 .027 1982	27.9 125 1979 .72 2001	31.3 166 1983 .18 2001	43.3 229 1998 .26 1999	16.6 80.3 1993 .009 1999	12.1 134 1979 .000 1981	37.8 193 1982 .000 1981	67.3 227 1991 .096 1981	81.5 222 1995 2.69 1980	107 467 1979 1.83 1980
SUMMARY	STATIST:	ICS	FOR 2	2000 CALENI	OAR YEAR	I	FOR 2001 WA	TER YEAF	ર	WATER YEA	RS 1977	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			4066.46 11.1 97 .00 .00 .21 2.88 31 4.4	Jul 31 Many da May 19	ys	15106.23 41.4 506 .00 .00 548 37.16 .79 10.68 133	Sep 11 Many d Feb 14 Sep 10 Sep 10	l days 4 9,11 ,11	47.3 95.3 6.14 1330 .00 1410 38.50 .90 12.21 122 15	Mar Mos Mos Sep Mar	1995 1981 21 1998 t years t years 4 1979 21 1998	

02231396 BLUE CYPRESS CREEK NEAR FELLSMERE, FL

LOCATION.--Lat $27^{\circ}43^{\circ}40^{\circ}$, long $80^{\circ}48^{\circ}19^{\circ}$, in $NW^{1/4}_{4}$ sec.2, T. 32 S., R.35 E., Indian River County, Hydrologic Unit 03080101, on private road 2 mi upstream from Blue Cypress Lake and 12.8 mi west of Fellsmere.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--Water years 1969-70, 1985-90 (low flow measurements only), December 1995 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (St. Johns River Water Management District bench mark). Prior to Oct. 1, 1999, at present site at datum 6.47 ft lower.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor.

		DISCHAR	GE, CUBIC	C FEET PE		WATER YE MEAN VA	AR OCTOBEF	2000 TC) SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	22 18 20 35 39	1.3 1.2 1.1 .94 .87	.56 .46 .33 .24	1.0 1.0 .97 .94 .86	1.1 1.1 1.0 1.0	.00 .00 .00 .00	1.6 1.3 1.1 .97	.00 .00 .00 .00	6.4 6.5 6.4 13	88 69 53 46 47	135 218 e230 e420 e460	50 46 43 44 46
6 7 8 9 10	36 33 25 17 13	.78 .74 .64 .51	.12 .10 .08 .01	.83 .79 .80 .79	.95 .97 .90 .81	.00 .00 .00 .00	.55 .38 .26 .09	.00 .00 .00 .00	9.2 8.1 10 23 34	51 49 53 71 86	e380 e325 e405 e572 519	122 249 419 582 1460
11 12 13 14 15	10 8.7 7.4 6.5 5.5	.30 .16 .12 .10	.00 .00 .00 .00	.79 .82 .82 .87	.74 .74 .80 .76 .73	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	34 31 28 21 17	116 141 147 151 199	607 563 440 364 320	1260 1080 891 954 1160
16 17 18 19 20	4.8 4.3 3.8 3.3 3.0	.00 .00 .00 .00	.08 .17 .16 .14	.93 .98 1.0 .96 1.0	.67 .53 .31 .23	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	27 35 50 116 82	263 301 283 273 284	269 241 262 326 393	1080 886 726 598 504
21 22 23 24 25	2.9 2.9 2.6 2.4 2.1	.00 .00 .00 .00	.13 .21 .22 .21 .21	1.1 1.1 1.2 1.3 1.3	.07 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	57 51 44 58 81	329 337 338 280 233	359 320 285 245 221	426 362 310 269 251
26 27 28 29 30 31	2.0 2.0 1.8 1.7 1.6	.00 .00 .29 .60 .58	.15 .14 .34 .90 1.1	1.4 1.3 1.3 1.3 1.3	.00	.00 .00 .00 .00 .00		.00 1.6 8.7 15 11 6.8	112 137 143 132 113	188 179 185 191 172 146	188 161 129 103 83 64	242 260 283 354 461
TOTAL MEAN MAX MIN CFSM IN.	338.8 10.9 39 1.5 .10	10.71 .36 1.3 .00 .00	7.45 .24 1.1 .00 .00	31.59 1.02 1.4 .74 .01	15.27 .55 1.1 .00 .01	0.51 .016 .51 .00 .00	7.05 .23 1.6 .00 .00	43.10 1.39 15 .00 .01	1496.6 49.9 143 6.4 .48 .53	5349 173 338 46 1.64 1.90	9607 310 607 64 2.95 3.40	15418 514 1460 43 4.89 5.46
STATIST	rics of M	ONTHLY MEA	N DATA FO	OR WATER	YEARS 1996	- 2001,	BY WATER	YEAR (WY	")			
MEAN MAX (WY) MIN (WY)	224 821 2000 10.9 2001	187 760 1998 .36 2001	102 435 1998 .24 2001	102 519 1998 1.02 2001	125 711 1998 .55 2001	105 553 1998 .016 2001	26.8 91.5 1996 .13 1999	5.00 14.6 1997 .073 2000	45.2 121 1999 .000 2000	67.6 173 2001 3.23 2000	217 440 1997 19.6 2000	204 514 2001 38.2 2000
SUMMARY	Y STATIST	ICS	FOR 2	2000 CALE	NDAR YEAR	F	OR 2001 W	ATER YEAR	2	WATER YE	ARS 1996	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			3263.60 8.92 95 Sep 12 .00 Many days .00 May 13 .085 1.16 26 2.2			ys	1540 28.39 .84 11.45 314	Sep 10 Many d Nov 16 Sep 10 Sep 10	lays ;)	121 282 64.8 3260 .00 .3430 a29.01 1.15 15.67	Mar Mar Oct 1 Nov 1	1998 1999 17 1999 ny days ny days 17 1999 14 1997
	CENT EXCE			.00			1.0			19 .00		

e Estimated a At present datum

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02231454 SIXMILE CREEK NEAR KENANSVILLE, FL

LOCATION.--Lat $27^{\circ}52^{\circ}00^{\circ}$, long $80^{\circ}48^{\circ}18^{\circ}$, in $SE^{\frac{1}{4}}$ sec.15, T. 30 S., R.35 E., Brevard County, Hydrologic Unit 03080101, on left bank of levee at west edge of St. Johns Marsh, 11.6 mi east of Kenansville, 15 mi south of U.S. Highway 192, 19 mi west of Sebastian.

DRAINAGE AREA. -- 11.6 mi².

PERIOD OF RECORD. -- February 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS. -- Records poor.

	-	DISCHARG	E, CUBIC	FEET PER	SECOND, W		AR OCTOBER	2000 TO	SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.8 1.7 1.9 2.1 2.0	.39 .37 .34 .33	.06 .06 .05 .05	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .01 .13 .14	3.1 4.1 5.0 5.7 4.9	9.5 6.5 4.1 3.0 2.3	30 29 46 86 77	11 8.6 6.2 4.6 3.5
6 7 8 9 10	1.9 1.7 1.6 1.4	. 29 . 27 . 24 . 23 . 22	.04 .04 .04 .04	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.17 .19 .22 .22	4.0 3.8 11 18 15	2.2 2.4 2.2 4.4 6.4	61 59 56 51 48	3.2 4.6 8.1 14 30
11 12 13 14 15	1.3 1.2 1.1 1.1	.19 .17 .16 .15	.03 .03 .03 .02	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.17 .15 .11 .08	12 8.7 6.5 4.6 3.7	9.1 17 15 17 58	49 50 48 47 46	36 45 54 66 82
16 17 18 19 20	.91 .85 .82 .78	.11 .11 .10 .10	.02 .02 .02 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .01 .00 .00	4.7 9.8 9.6 7.1 5.2	59 37 22 18 22	44 43 43 44 41	85 84 83 81 79
21 22 23 24 25	.72 .71 .66 .64	.08 .08 .07 .07	.01 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .08 .19	3.7 3.5 4.5 7.6	20 41 56 46 41	38 35 32 30 30	77 75 72 70 71
26 27 28 29 30 31	.57 .54 .52 .48 .45	.07 .08 .08 .07 .06	.00 .00 .00 .01 .01	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	1.4 2.1 2.5 3.2 3.3 3.0	17 13 15 16 13	40 40 40 37 34 32	34 31 27 23 20 16	68 70 72 73 75
TOTAL MEAN MAX MIN	33.53 1.08 2.1 .43	5.01 .17 .39 .06	0.69 .022 .06 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	17.91 .58 3.3 .00	252.8 8.43 18 3.1	744.1 24.0 59 2.2	1314 42.4 86 16	1511.8 50.4 85 3.2
STATIST					ARS 1995		BY WATER	•)			
MEAN MAX (WY) MIN (WY)	18.3 68.3 1996 .77 1998	12.5 70.1 1998 .000 1997	5.75 31.4 1998 .000 1997	6.04 30.4 1998 .000 1997	4.23 22.5 1998 .000 1997	3.48 16.7 1998 .000 1997	3.05 8.87 1995 .000 1997	.26 .80 1995 .000 1999	1.76 8.43 2001 .000 2000	5.26 24.0 2001 .006 1997	11.4 42.4 2001 .26 1997	22.1 81.1 1995 .000 1996
SUMMARY	STATISTI	CS	FOR 2	000 CALEND	AR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1995	5 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			680.85 1.86 68 .00 .00	Jul 31 Many day May 31	rs	3879.84 10.6 86 .00 .00 94 22.44 44 .14	Aug 4 Many da Dec 22 Aug 4 Aug 4	ays	6.89 14.9 .18 596 .00 .00 844 25.07 20	Nov Ma Ma Nov Nov	1998 1997 15 1997 any days any days 14 1997 14 1997	

02231458 WOLF CREEK NEAR KENANSVILLE, FL

LOCATION.--Lat $27^{\circ}53'39"$, long $80^{\circ}49'17"$, in $NE^{\frac{1}{4}}$ sec.9, T. 30 S., R.35 E., Brevard County, Hydrologic Unit 03080101, on right bank at west edge of St. Johns Marsh, 10.7 mi east of Kenansville, 13 mi south of U.S. Highway 192, and 21 mi west of Sebastian.

DRAINAGE AREA. -- 8.6 mi².

PERIOD OF RECORD. -- February 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records poor.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YEZ MEAN VAI	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e9.2 e8.8 e8.5 e10 e12	e1.2 e1.1 e.98 e.86 e.80	.52 .52 .55 .55	.81 .85 .85 .85	.75 .75 .75 .74	.77 .83 .84 .88	1.5 1.1 .94 .88	.84 .72 1.3 2.5 1.6	2.7 4.8 2.8 2.1 1.9	3.8 2.7 2.1 1.8 2.0	e21 e38 e80 e79 e60	4.3 6.5 9.0 12 15
6 7 8 9 10	e13 e12 e10 e9.5 e9.0	e.74 e.69 e.62 e.56 e.54	.57 .57 .56 .56	.91 .92 .92 .97 .98	.72 .70 .69 .69	.86 .79 .81 .80	.82 .82 .92 .97	1.2 .93 1.2 1.0	1.6 1.6 5.7 4.5 3.5	1.9 3.6 3.5 9.0	e56 e52 e47 e41 e38	16 14 12 9.9 7.7
11 12 13 14 15	e8.6 e8.0 e7.2 e6.5 e6.0	e.51 e.48 e.46 e.45 e.43	.63 .63 .63 .68	.98 .95 .95 .95	.66 .69 .67 .66	.85 .85 .86 .94	1.1 1.1 1.0 1.1 .88	.77 .76 .72 .68 .67	2.5 1.8 1.8 1.4 1.2	14 e15 e17 e35 e63	e39 e37 e33 e29 e26	6.1 2.7 3.0 5.1 7.6
16 17 18 19 20	e5.3 e4.8 e4.3 e4.0 e3.8	e.44 .45 .47 .47 .45	.69 .67 .69 .69	.92 .92 .91 .92	.64 .63 .64 .64	.92 .94 .95 1.0	.72 .66 .60 .60	.64 .59 .53 .50	1.8 3.3 3.4 2.4 1.7	e46 e28 e18 e18 e19	e18 e17 e16 e17 e14	8.0 7.3 6.8 6.6 6.4
21 22 23 24 25	e3.6 e3.3 e3.1 e2.9 e2.6	. 45 . 48 . 49 . 49 . 47	.70 .72 .72 .72 .74	.85 .85 .86 .81	.70 .69 .70 .83	.81 .76 .70 .69	.60 .57 .56 .51	.50 .55 1.7 1.5	1.3 1.8 3.4 4.5 7.6	e28 e49 e53 e40 e37	e11 e9.4 e7.7 e6.3 e5.0	6.2 6.0 5.8 5.6 5.8
26 27 28 29 30 31	e2.4 e2.1 e1.9 e1.6 e1.4 e1.2	.49 .49 .49 .50 .52	.75 .74 .76 .78 .78	.81 .78 .78 .77 .75	.78 .80 .77 	.63 .61 .63 .79 2.4 1.6	.56 .47 .42 .44 .68	4.3 2.3 1.9 2.5 2.3 1.8	6.0 4.9 7.4 7.7 5.6	e36 e36 e34 e33 e27 e25	e4.4 e3.6 e2.8 e2.1 2.0 2.7	5.8 6.2 6.1 6.5 6.6
TOTAL MEAN MAX MIN CFSM IN.	186.6 6.02 13 1.2 .70	17.57 .59 1.2 .43 .07	20.44 .66 .80 .52 .08	27.10 .87 .98 .75 .10	19.78 .71 .83 .63 .08	28.04 .90 2.4 .61 .11	23.47 .78 1.5 .42 .09	39.54 1.28 4.3 .49 .15	102.7 3.42 7.7 1.2 .40 .44	714.4 23.0 63 1.8 2.68 3.09	815.0 26.3 80 2.0 3.06 3.53	226.6 7.55 16 2.7 .88 .98
STATIS'	TICS OF M	ONTHLY ME	AN DATA FO	OR WATER Y	EARS 1995	5 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	31.9 112 1996 2.67 1997	15.1 56.9 1998 .59 2001	19.7 106 1998 .66 2001	10.2 48.1 1998 .87 2001	6.15 26.3 1998 .71 2001	7.04 21.4 1998 .36 1997	8.86 30.9 1995 .50 1999	1.70 4.95 1995 .72 1999	11.9 70.5 1999 .23 1998	12.9 24.7 1995 .42 1998	17.0 33.1 1995 5.74 1998	18.7 80.7 1995 3.82 1996
SUMMAR'	Y STATIST	CICS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1995	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILLY MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				1792.85 4.90 84 Jul 31 .30 Jun 22 .36 Jun 16			.45 20.88 .42 .71 9.61	Aug 3 Apr 28 Nov 14 Sep 15, Apr 27-		13.2 24.1 2.4(220 .00 250 21.59	Jun 1) May 1 Nov 1 Oct 1	1998 1997 18 1999 30 1995 14 1997 19 1995
							17 .98 .56				38 2.3 .47	

e Estimated * Many days 1995, 1998 water years

02231600 JANE GREEN CREEK NEAR DEER PARK, FL

LOCATION.--Lat $28^{\circ}04^{\circ}27^{\circ}$, long $80^{\circ}53^{\circ}18^{\circ}$, in $SE^{1/4}_{4}$ sec.2, T.28 S., R.34 E., Osceola County, Hydrologic Unit 03080101, near right bank on upstream side of bridge on county road, 1.2 mi southeast of Deer Park, 2 mi downstream from confluence of Crabgrass and Bull Creeks, and 5.8 mi upstream from mouth.

DRAINAGE AREA.--248 mi²

PERIOD OF RECORD. -- October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.55 ft above sea level.

REMARKS.--Records fair. Since April 1990, flow regulated to some extent by flood control lift gates (S161A), approximately 1.5 mi upstream of the gage.

-		DISCHA	RGE CIBIC	TEET DER	SECOND	WATER VI	EAR OCTOBER	2000 TC	SEDTEMBI	ZR 2001		
		DISCIA	MGE, CODI	, redi fek		MEAN V		2000 10	SEF TEMBI	SK 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	153 160 171 189 191	17 16 15 14 13	2.4 2.2 2.1 2.0 1.9	.49 .42 .39 .35	.86 .90 .91 .97	.24 .19 .15 .18	.58 .67 .69 .67	.00 .00 .04 .00	.00 .00 .00 .00	12 11 10 9.7	147 152 170 204 363	363 324 275 232 202
6 7 8 9 10	199 219 224 212 193	12 11 10 9.2 8.5	1.8 1.7 1.6 1.5	.27 .22 .20 .19 .16	.94 .92 .92 .90	.11 .08 .04 .01	.73 .89 .99 1.0	.00 .00 .00 .00	.00 .10 .11 .12	13 12 11 13 12	628 945 1140 1210 1170	203 217 215 239 323
11 12 13 14 15	171 146 123 103 86	7.8 7.2 6.6 6.4 6.1	1.5 1.6 1.6 1.5	.16 .18 .17 .19	.83 .80 .80 .78	.00 .00 .00 .00	.92 .85 .77 .65	.00 .00 .00 .00	.28 .66 .62 1.1 2.7	12 11 9.8 13 21	1090 1030 972 950 1040	430 554 629 826 1190
16 17 18 19 20	71 59 50 43 38	5.7 5.2 4.8 4.5 4.2	1.3 1.2 1.1 1.0 .94	.27 .33 .36 .38	.69 .66 .60 .53	.00 .00 .00 .00	.33 .20 .11 .05	.00 .00 .00 .00	4.1 5.1 5.9 6.2 6.2	23 27 48 82 87	880 789 865 1100 1080	1560 1710 1700 1590 1440
21 22 23 24 25	35 33 29 27 25	3.8 3.5 3.3 3.1 3.0	.89 .82 .75 .73	.58 .68 .76 .74	.42 .40 .34 .43	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	6.1 6.8 8.4 9.5 9.8	91 110 160 158 152	1040 979 899 831 748	1280 1120 980 855 757
26 27 28 29 30 31	24 23 21 20 19 18	3.1 3.1 2.9 2.7 2.6	.67 .68 .66 .62	.76 .76 .74 .76 .83		. 22		.00 .00 .00 .00	9.4 9.3 10 12 12	153 168 172 167 161 153	671 604 573 534 478 418	661 617 576 522 474
TOTAL MEAN MAX MIN CFSM IN.	99.2 224 18 .40 .46	7.18 17 2.6 .03 .03	1.28 2.4 .56 .01		.97 .30 .00	.24 .00 .00	12.25 .41 1.0 .00 .00 .00	.001 .04 .00 .00	4.22 12 .00 .02 .02	2092.5 67.5 172 9.7 .27	23700 765 1210 147 3.08 3.56	22064 735 1710 202 2.97 3.31
										254	224	470
MIN	453 2930 1957 .79 1981	1353 1995 .000 1981	820 1998 1.03 1994	115 970 1958 .45 2001	149 1148 1966 .68 2001	205 1729 1960 .049 2001	83.4 536 1973 .000 1956	26.3 268 1957 .000 1956	183 1857 1968 .000 1956	254 1483 1974 .000 1977	324 1432 1964 .16 2000	479 2324 1979 17.7 1996
SUMMARY S				2000 CALEN		I	FOR 2001 WAS	TER YEAR		WATER Y	EARS 1954	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				Oct 8 Many da Apr 24	ys	.00 1730	Sep 17 Many d Mar 10 Sep 17 Sep 17	ays ,18	211 726 39.0 17000 .00 .00 10.99 .88 11.55 580 39) Mai) Mai Oct 5 Oct	1960 1981 17 1956 ny days ny days 17 1956 17 1956	

02232000 ST. JOHNS RIVER NEAR MELBOURNE, FL

LOCATION.--Lat $28^{\circ}05^{\circ}04^{\circ}$, long $80^{\circ}45^{\circ}08^{\circ}$, in $NW^{1/4}_{4}$ sec.5, T.28 S., R.36 E., Brevard County, Hydrologic Unit 03080101, near center of span on upstream side of bridge on U.S. Highway 192, 1.1 mi downstream from Sawgrass Lake, 1.7 mi upstream from Lake Washington, 9.2 mi west of Melbourne, and 262 mi upstream from mouth.

DRAINAGE AREA.--968 mi².

PERIOD OF RECORD. --October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1304.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 11.22 ft above sea level. Prior to July 26, 1940, nonrecording gage, and July 26, 1940 to Jan. 11, 1973, water-stage recorder at site 200 ft upstream at same datum. Oct. 1, 1969 to Oct. 5, 1972, and Oct. 1, 1982 to Sept. 30, 1983, water-stage recorder for Lake Washington near Eau Gallie (station 02232100) used as auxiliary gage for this station.

REMARKS .-- Records poor .

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN V		ER 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	127 233 255 440 505	104 100 e94 e89 e83	45 27 -32 19 14	39 8.4 34 44 60	2.6 30 18 37 42	26 42 41 35 4.6	41 21 53 28 27	-31 -10 -1.8 -19 -3.5	.18 3.6 80 .32 1.3	20 20 21 39 31	1080 1220 1370 1440 1690	2360 2310 2270 2150 2080
6 7 8 9 10	611 585 519 419 678	e80 e77 75 66 38	44 4.5 46 12 21	39 36 29 9.4 30	48 34 43 41 20	8.2 12 26 31 -8.1	43 28 44 32 28	-11 -15 -7.9 -8.4 -3.8	7.1 4.5 11 14 16	25 50 40 34 93	1970 2090 2300 2490 2680	1990 1870 1870 1970 1890
11 12 13 14 15	644 576 581 508 465	20 73 60 45 32	47 16 52 22 53	41 43 3.8 59 24	23 42 53 45 38	33 45 16 -6.4 37	26 18 25 3.4 36		18 30 21 -4.5	104 88 102 75 128	2810 2830 2820 2820 2970	1810 1890 1970 2140 2240
16 17 18 19 20	413 365 312 282 184	50 -30 33 41 -9.4	58 20 37 40 26	27 31 35 63 16	45 -13 44 72 47		.74 9.6 -25 -6.1 -2.6	2.0	5.3 .30 2.5 5.2 -2.0	176 169 187 266 346	2920 2830 2880 3020 3070	2320 2630 2980 3250 3380
21 22 23 24 25	268 161 156 183 195	48 36	37 .77 40 -29 24	60 26	33 41 8.3 67 41	-4.2 3.8 -13 18 10	-14 -12 -8.9 -11 -14	-8.1 .09 -17 -20 -21	6.0 14 11 12 18	397 579 734 799 855	3080 3090 3010 2950 2880	3390 3440 3400 3430 3280
26 27 28 29 30 31	144 157 149 141 104 116	40 47 5.5 15 29	96 51 40 6.8 42 24	46 53 31 57 43 23	17 20 30 	-3.7 -32 24 14 45 32	-41 -7.9 -9.8 -19 37	-10 2.7 -4.3 2.6 -5.6 -9.3	20 11 24 28 25	873 864 886 920 1000 1040	2760 2730 2640 2560 2490 2420	3250 3290 3290 3130 3070
TOTAL MEAN MAX MIN	10476 338 678 104	1467.1 48.9 104 -30	904.07 29.2 96 -32	1096.6 35.4 63 3.8	968.9 34.6 72 -13	509.8 16.4 45 -32	292.07 9.74 53 -41	-253.71 -8.18 3.6 -31	312.00 10.4 30 -4.5	10961 354 1040 20	77910 2513 3090 1080	78340 2611 3440 1810
STATIST	ICS OF M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 1940	- 2001,	, BY WATER	R YEAR (WY	")			
MEAN MAX (WY) MIN (WY)	1646 6377 1954 87.7 1962	979 3062 1995 31.7 1962	556 2753 1988 21.9 1962	417 2338 1998 9.44 1962	420 2782 1998 4.68 1962	471 2608 1960 1.03 1962	358 2161 1998 .000 1956	164 852 1993 -23.5 2000	320 3073 1968 -32.7 1984	616 3007 1968 10.9 1981	864 2652 1960 15.8 1981	1286 5424 1953 75.0 1950
SUMMARY	STATIST	'ICS	FOR	2000 CALEN	DAR YEAR	F	FOR 2001 V	VATER YEAR	1	WATER YEA	ARS 1940	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		ı	45685.32 125 678 -77 -41 372 75 -18	Oct 10 May 30 May 26		182983.8 501 3440 -41 -18 6.5 2450 39 -7.3	Sep 22 Apr 26 Apr 25 66 Sep 26		676 1756 93.9 18000 -118 -78 9.66 1740 305 50	Oct May Jun Sep	1960 1981 18 1956 23 1984 18 1984 30 1960	

e Estimated

Note.--Negative figures indicate reverse flow

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02232000 ST. JOHNS RIVER NEAR MELBOURNE, FL--Continued

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

	DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.19 3.18 3.28 3.51 3.60	3.00 2.97 2.94 	2.49 2.49 2.50 2.49 2.47	2.25 2.26 2.24 2.23 2.20	2.06 2.06 2.05 2.03 2.01	1.70 1.67 1.62 1.61 1.67	1.65 1.67 1.66 1.68 1.69	1.21 1.18 1.20 1.27 1.26	.90 .89 .90 .89	1.71 1.74 1.75 1.76 1.80	4.23 4.31 4.42 4.51 4.64	5.57 5.52 5.48 5.42 5.33
6 7 8 9 10	3.63 3.66 3.68 3.74 3.69	2.80 2.79 2.76 2.74	2.43 2.43 2.41 2.41 2.40	2.20 2.19 2.17 2.21 2.17	2.00 1.99 1.97 1.96 1.96	1.63 1.58 1.55 1.51 1.53	1.68 1.68 1.67 1.67	1.25 1.23 1.23 1.20 1.17	.90 .89 .89 .91	1.88 2.01 2.05 2.17 2.35	4.78 4.90 5.02 5.14 5.25	5.27 5.27 5.28 5.27 5.27
11 12 13 14 15	3.68 3.68 3.66 3.64 3.61	2.74 2.71 2.69 2.67 2.67	2.40 2.40 2.39 2.39 2.38	2.15 2.15 2.18 2.15 2.14	1.96 1.95 1.94 1.92 1.90	1.49 1.46 1.43 1.48 1.42	1.64 1.62 1.61 1.61 1.58	1.15 1.14 1.12 1.08 1.04	.99 1.08 1.12 1.17 1.25	2.49 2.58 2.65 2.75 2.85	5.36 5.42 5.46 5.51 5.62	5.22 5.26 5.32 5.50 5.64
16 17 18 19 20	3.56 3.52 3.47 3.42 3.39	2.64 2.62 2.62 2.59 2.63	2.37 2.37 2.37 2.35 2.35	2.14 2.14 2.13 2.10 2.14	1.87 1.89 1.88 1.81 1.78	1.42 1.44 1.46 1.39 1.39	1.57 1.54 1.54 1.45 1.42	1.01 .99 .97 .92 .89	1.26 1.26 1.26 1.26 1.25	2.90 2.96 3.12 3.37 3.47	5.65 5.69 5.73 5.79 5.82	5.75 5.84 5.94 6.06 6.13
21 22 23 24 25	3.37 3.36 3.32 3.29 3.24	2.59 2.56 2.54 2.51 2.50	2.32 2.32 2.31 2.34 2.32	2.15 2.13 2.15 2.11 2.11	1.77 1.75 1.76 1.75	1.38 1.37 1.35 1.32 1.30	1.40 1.38 1.35 1.32 1.31	.84 .81 .84 .89	1.24 1.27 1.35 1.42 1.48	3.62 3.91 3.96 3.99 4.02	5.87 5.90 5.89 5.88 5.85	6.18 6.22 6.24 6.28 6.36
26 27 28 29 30 31	3.22 3.18 3.13 3.10 3.06 3.03	2.53 2.54 2.53 2.53 2.51	2.28 2.27 2.27 2.30 2.28 2.27	2.09 2.08 2.07 2.05 2.04 2.05	1.75 1.74 1.71 	1.29 1.30 1.23 1.23 1.44 1.54	1.38 1.26 1.22 1.20 1.18	.98 .95 .94 .92 .94	1.51 1.55 1.62 1.67 1.69	4.05 4.08 4.10 4.12 4.14 4.18	5.82 5.79 5.76 5.70 5.65 5.61	6.43 6.49 6.50 6.46 6.48
MEAN MAX MIN	3.42 3.74 3.03	2.66 3.00 2.50	2.37 2.50 2.27	2.15 2.26 2.04	1.89 2.06 1.71	1.46 1.70 1.23	1.51 1.69 1.18	1.05 1.27 .81	1.19 1.69 .89	2.98 4.18 1.71	5.39 5.90 4.23	5.80 6.50 5.22

CAL YR 2000 MEAN 2.62 MAX 3.74 MIN 1.26 WTR YR 2001 MEAN 2.66 MAX 6.50 MIN .81

02232155 PENNYWASH CREEK NEAR DEER PARK, FL

LOCATION.--Lat $28^{\circ}10^{\circ}54^{\circ}$, long $80^{\circ}53^{\circ}44^{\circ}$, in NW $\frac{1}{4}$ sec.35, T.26 S., R.34 E., Osceola County, Hydrologic Unit 03080101, near center of span on downstream side of bridge on State Highway 419, 0.6 mi upstream from mouth, and 6.2 mi north of Deer Park.

DRAINAGE AREA.--17.2 mi².

PERIOD OF RECORD.--1956, 1965, 1976 (miscellaneous discharge measurements only), August 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark).

REMARKS.--Records good. Levees were constructed as part of the Jane Green Creek Reservoir and an interconnecting canal was dug joining the watershed areas of Taylor, Pennywash, Cox, and Wolf Creeks.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE	AR OCTOBER	2000 TO	SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	15 10 15 76 62	1.4 1.3 1.3 1.2	.75 .76 .76 .76	. 46 . 48 . 50 . 52 . 54	.91 .90 .87 .91	.34 .31 .30 .45	14 7.5 3.3 2.0 1.4	.42 .37 1.9 3.0 2.7	1.1 1.5 1.2 1.0	2.2 1.6 1.2 .95	2.8 4.4 13 37 102	5.1 4.4 3.5 2.8 2.7
6 7 8 9 10	32 21 16 12 9.3	1.1 1.1 1.1 1.1	.63 .61 .64 .68	.60 .59 .61 .68	.96 .88 .80 .72 .68	.60 .64 .55 .53	1.1 .87 .71 .59 .51	1.6 1.1 .99 .96	.89 2.6 4.5 3.0 2.0	1.0 .92 1.4 1.6 2.5	79 202 91 52 44	2.8 5.4 11 17 19
11 12 13 14 15	7.7 6.5 5.4 4.7 4.1	.99 .92 .86 .87 .85	.68 .95 .88 .82				.48 .46 .43 .40	.95 .93 .85 .77	2.2 3.0 2.0 1.5	2.9 2.1 1.6 1.6 2.1	96 64 41 33 36	15 14 20 133 209
16 17 18 19 20	3.6 3.1 2.8 2.6 2.3	.80 .81 .77 .76	.79 .76 .66 .64	.68 .71 .77 .77	.53 .45 .38 .35	.54 .52 .50 .60	.32 .26 .22 .24 .25	.87 .49 .41 .35	1.3 1.5 5.6 5.7 4.0	2.3 3.7 6.6 4.9 3.4	22 16 17 35 51	129 83 57 41 29
21 22 23 24 25	2.1 2.1 2.0 1.8 1.7	.75 .68 .63 .57	.62 .62 .57 .54	2.0 1.8 2.5 1.9	.34 .31 .31 .74	.55 .49 .48 .46 .43	.24 .22 .21 .19 .18	.25 .23 .35 .40	2.6 2.2 4.4 9.0 8.1	2.6 3.7 7.4 5.3 3.6	36 34 36 28 21	21 17 14 12 12
26 27 28 29 30 31	1.7 1.6 1.6 1.6 1.6	.81 1.0 .83 .80 .78	.49 .50 .57 .62 .51 .47	1.2 1.1 1.0 .98 .98	.71 .50 .41 	.39 .38 .36 .81 5.1 9.9	.26 .22 .20 .18 .20	1.3 .73 .56 .70 1.3	6.2 4.2 3.7 3.7 2.8	5.8 11 8.3 5.6 3.9 3.0	16 13 11 8.4 6.6 5.7	14 16 15 14 14
							37.50 1.25 14 .18			105.70 3.41 11 .92	1253.9 40.4 202 2.8	952.7 31.8 209 2.7
							BY WATER			5 50	01.5	00.6
MEAN MAX (WY) MIN (WY)	126 2000 2.63 1999	16.6 65.4 1995 .92 2001	20.6 82.6 1998 .66 2001	12.1 45.1 1998 .94 2001	17.8 87.8 1998 .64 2001	19.8 64.8 1996 .76 2000	6.47 30.8 1996 .36 2000	1.19 3.72 1996 .10 2000	17.4 1996 .051 2000	5.79 14.3 1997 .73 1998	21.5 53.3 1995 .61 2000	28.6 93.9 1994 3.73 1997
SUMMARY	Y STATIST	ICS	FOR 2	000 CALENI	DAR YEAR	F	'OR 2001 WA'	TER YEAR		WATER Y	EARS 1994	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS			857.40 2.34 76 Oct 4 .00 Many days .00 May 26		ys	2927.32 8.02 209 Sep 15 .18 Apr 25,29 .20 Apr 24 261 Aug 7 24.39 Sep 15 .00 May 16					1995 1999 17 1999 um 2000 26 2000 20 1998 16 1994	
50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				.72 .06			1.0 .41			3.2 .38		

02232200 WOLF CREEK NEAR DEER PARK, FL

LOCATION.--Lat $28^{\circ}12^{\circ}46^{\circ}$, long $80^{\circ}54^{\circ}40^{\circ}$, in $NN^{1/4}_{4}$ sec.22, T.26 S., R.34 E., Osceola County, Hydrologic Unit 03080101, near right bank on upstream side of bridge on State Highway 419, 2.9 mi upstream from mouth, and 8.5 mi north of Deer Park.

DRAINAGE AREA.--25.7 mi².

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.35 ft above sea level. Prior to July 13, 1967, at site 0.8 mi downstream at same datum.

REMARKS.--Records good except for period of estimated daily discharge, which is poor. Since October 1970 flow regulated to some extent following the construction of Jane Green Reservoir; levees were constructed and an interconnecting canal was dug joining the watershed areas of Taylor, Pennywash, Cox, and Wolf Creeks.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	EAR OCTOBER ALUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	70 51 110 451 253	2.2 2.0 1.7 1.5	.79 .69 .58 .51 .46	1.4 1.4 1.3 1.3	2.0 2.0 2.1 2.2 2.3	.77 .64 .54 .62	21 14 7.6 4.9 3.6	.01 .01 .92 14 9.8	2.2 17 10 8.1 5.8	3.8 e3.1 e2.8 e2.5 e2.2	e5.5 e6.0 e15 e50 e120	4.8 4.2 3.3 2.8 2.5
6 7 8 9 10	139 95 71 52 38	1.3 1.2 1.1 1.0 .93	.46 .44 .40 .38 .40	1.2 1.2 1.2 1.4 1.5	2.1 1.9 1.8 1.7 1.6	1.3 .81 .53 .40 .32	2.6 2.0 1.6 1.2 .89	3.9 2.0 1.3 .84 .58	4.5 37 23 12 7.0	e2.3 e2.2 e2.8 e3.0 e3.7	e100 e269 143 91 78	2.9 9.3 25 44 53
11 12 13 14 15	30 24 19 16 14	.84 .74 .69 .64	.40 1.8 3.7 3.5 2.9	1.5 1.7 1.9 1.9	1.5 1.3 1.3 1.3	.26 .19 .16 .15	.64 .49 .37 .27	.44 .38 .27 .17	8.6 11 11 7.2 4.6	e3.9 e3.2 e3.0 e2.9 e2.9	56 43 33 27 23	38 35 38 271 381
16 17 18 19 20	11 9.2 7.8 6.8 6.1	.53 .46 .41 .38	2.5 2.2 1.9 1.7	1.9 2.0 2.0 2.0 3.5	1.2 1.1 .92 .87 .82	.14 .12 .10 .10	.10 .05 .01 .00	.06 .02 .00 .00	3.7 5.0 8.8 8.7 9.8	e3.2 e4.5 e9.0 e8.4 e7.1	19 48 36 51 52	245 163 115 84 64
21 22 23 24 25	5.7 5.5 5.2 4.6 4.2	.33 .25 .22 .22	1.5 1.6 1.6 1.5	4.3 3.8 4.8 4.5 3.6	.74 .68 .59 1.2 2.4	.09 .07 .05 .03	.00 .00 .00 .00	.00 .00 .00 .00	7.4 5.3 5.0 7.3	e6.5 e5.9 e8.8 e7.0 e6.2	44 44 34 25 19	49 38 29 23 29
26 27 28 29 30 31	3.9 3.7 3.3 3.0 2.7 2.4	.34 .62 .84 1.0 .94	1.2 1.1 1.2 1.5 1.7	2.9 2.5 2.3 2.2 2.3 2.1	2.0 1.4 1.1 	.00 .00 .00 .22 19	.00 .00 .00 .00	7.3 9.3 4.3 2.4 2.0	11 8.4 7.1 6.8 5.3	e5.4 e12 e10 e8.6 e7.0 e5.8	15 12 9.9 8.0 6.5 5.2	38 34 29 26 27
TOTAL MEAN MAX MIN	1518.1 49.0 451 2.4	24.96 .83 2.2 .22	43.01 1.39 3.7 .38	68.8 2.22 4.8 1.2	41.42 1.48 2.4 .59	57.30 1.85 29 .00	61.49 2.05 21 .00	61.71 1.99 14 .00	279.6 9.32 37 2.2	159.7 5.15 12 2.2	1488.1 48.0 269 5.2	1907.8 63.6 381 2.5
STATIS	TICS OF M	ONTHLY MEA	AN DATA FO	R WATER YE	ARS 195	6 - 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	49.2 396 1957 .29 1981	20.3 252 1988 .47 1997	16.1 156 1998 .71 1962	20.0 76.5 1964 1.39 1985	25.2 152 1966 .76 1974	30.9 231 1959 .15 1974	11.1 77.7 1984 .011 1974	7.25 77.9 1966 .000 1967	31.1 303 1968 .000 2000	35.8 218 1974 .020 1981	45.6 276 1964 .23 1998	64.6 376 1960 1.40 1980
SUMMAR	Y STATIST	ICS	FOR 2	000 CALEND	AR YEAR	F	FOR 2001 WA	TER YEAR		WATER Y	EARS 1956	5 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			3928.88 10.7 451 .00 .00	Oct 4 Many d Apr 29		341	Oct 4 Many d Apr 19 Oct 4 Oct 4	ays	29.8 77.7 7.9 5850 .0 7700 e10.2 66 5.1	Oct Oct Oct Oct Oct Acc Oct Acc Oct	1960 1977 16 1956 any days any days 16 1956 28 1964	

e Estimated

02232400 ST. JOHNS RIVER NEAR COCOA, FL

LOCATION.--Lat 28°22'10", long 80°52'22", in SE½/4 sec.25, T.24 S., R.34 E., Brevard County, Hydrologic Unit 03080101, on upstream side of State Highway 520 bridge, 0.6 mi upstream from Taylor Creek, 0.7 mi downstream from outlet of Lake Poinsett, 8.8 mi west of Cocoa, and 232 mi upstream from mouth.

DRAINAGE AREA. -- 1,331 mi².

PERIOD OF RECORD. -- October 1953 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level. Prior to Oct. 1, 1959, nonrecording gage at site 3.7 mi east on north shore of Lake Poinsett at datum 5.06 ft higher.

REMARKS.--Records fair. Records include inflow from Taylor Creek.

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 2 3 4 5	1300 1280 1550 1630 1700	1030 1000 1070 991 957	342 360 211 214 197	64 23 45 73 41	45 -30 -22 -21 44	-5.8 -29 -44 -51 -38	6.4 -5.4 14 35 6.8	40 41 39 42 39	33 36 38 39 40	70 68 67 62 65	1070 1110 1150 1190 1280	3190 3060 3000 3020 2890
6 7 8 9 10	1680 1530 1510 1520 1560	928 849 949 889 847	215 212 282 289 273	45 51 45 32 4.2	44 25 83 39 61	-13 -30 -19 -53 -57	63 -2.9 50 73 73	39 38 40 38 38	38 37 37 36 39	71 73 75 94 136	1430 1570 1680 1770 1850	3170 3490 3330 3220 3380
11 12 13 14 15	1530 1610 1530 1500 1570	838 770 814 717 647	257 217 241 235 256	61 59 -26 41 104	28 -3.8 59 53 37	-5.4 65 -40 -28 -50	74 73 67 61 58	37 37 36 37 37	46 46 47 47 51	176 213 242 284 378	1920 1990 2040 2100 2190	3240 3510 3430 4200 3880
16 17 18 19 20	1480 1420 1370 1310 1310	582 603 537 545 470	192 86 120 148 134	67 101 82 50 27	7.7 -93 -90 -44 5.0	-14 -45 -125 -38 -70	51 50 46 51 57	33 31 32 32 30	55 57 57 56 55	449 480 515 556 613	2260 2360 2490 2590 2680	4290 4060 4350 4550 4470
21 22 23 24 25	1280 1270 1120 1140 1120	489 441 455 403 374	139 110 93 -1.9 63	-33 -1.8 36 60 21	-15 7.4 -39 49 60	-82 -15 -16 19 -18	55 52 54 48 43	34 31 29 27 30	56 55 55 57 60	666 743 798 833 867	2860 3060 3140 3170 3200	4090 4130 4290 4260 4630
26 27 28 29 30 31	1160 1250 1260 1240 1120 1050	370 428 344 323 294	102 122 87 66 45 75	45 86 57 96 44 -3.0	12 33 -22 	-27 -71 -16 74 -15 6.8	35 40 41 47 43	32 33 33 34 33 33	62 61 60 66 70	899 940 975 996 1010 1030	3200 3220 3250 3250 3090 3030	4760 4540 4650 4610 4420
TOTAL MEAN MAX MIN CFSM IN.	42900 1384 1700 1050 1.04 1.20	19954 665 1070 294 .50	5381.1 174 360 -1.9 .13 .15	1396.4 45.0 104 -33 .03	312.3 11.2 83 -93 .01	-850.4 -27.4 74 -125 02 02	1358.9 45.3 74 -5.4 .03	1085 35.0 42 27 .03	1492 49.7 70 33 .04	14444 466 1030 62 .35 .40	71190 2296 3250 1070 1.73 1.99	116110 3870 4760 2890 2.91 3.25
STATIST	rics of M	ONTHLY ME	CAN DATA E	FOR WATER	YEARS 195	4 - 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	2119 8873 1954 41.0 1981	1517 4571 2000 21.2 1981	1025 4364 1988 42.3 1981	740 3240 1998 45.0 2001	700 4000 1998 11.2 2001	799 4473 1998 -27.4 2001	646 3100 1998 24.9 1999	376 1494 1998 15.9 1999	492 3710 1968 4.41 2000	875 4859 1968 7.47 1981	1123 4081 1960 10.9 1981	1544 5046 1960 65.7 1980
SUMMARY	Y STATIST	ICS	FOR	2000 CALE	NDAR YEAR		FOR 2001 W	ATER YEAR		WATER Y	EARS 1954	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		ſ	123278.5: 337 1700 -60 -18 .2! 3.4! 1010	Oct 5 Jun 29 Jun 27		274773.3 753 4760 -125 -61 15.58 .57 7.68 3040 73 -8.7	Sep 26 Mar 18 Mar 15 3 Sep 14		998 2462 44.5 10700 -125 -61 16.94 .7! 10.1! 2400 586 87	Oct Mar Mar Oct	1960 1981 11 1953 18 2001 15 2001 11 1953	

Note. -- Negative figures indicate reverse flow

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02232400 ST. JOHNS RIVER NEAR COCOA, FL--Continued

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

DAIDI MEAN VADUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.93 12.99	12.30 12.23	10.24 10.20	9.33 9.28	9.07 9.02	8.72 8.73	8.99 9.14	8.76 8.78	8.61 8.68	9.22 9.19	12.78	14.60
2	12.99	12.23	10.20	9.28	9.02 8.97	8.73	9.14	8.78	8.68	9.19	12.84 12.91	14.57 14.55
4	13.11	12.15	10.00	9.25	8.98	8.74	9.27	8.79	8.74	9.10	12.91	14.53
5	13.58	12.02	9.99	9.26	8.99	8.34	9.29	8.75	8.75	9.15	13.08	14.50
6	13.70	11.96	10.00	9.26	9.02	8.38	9.32	8.74	8.72	9.23	13.26	14.55
7	13.73	11.90	9.95	9.25	9.02	8.53	9.28	8.72	8.71	9.26	13.42	14.68
8 9	13.71 13.60	11.84 11.75	9.96 9.93	9.25 9.09	9.06 9.07	8.65 8.65	9.28 9.26	8.76 8.72	8.70 8.69	9.28 9.47	13.53 13.62	14.78 14.82
10	13.61	11.64	9.90	9.13	9.00	8.63	9.25	8.72	8.74	9.83	13.70	14.84
11 12	13.60 13.56	11.53 11.46	9.89 9.88	9.20 9.16	8.95 8.95	8.66 8.76	9.26 9.25	8.71 8.70	8.88 8.86	10.10 10.31	13.77 13.83	14.83 14.92
13	13.50	11.40	9.89	9.10	8.94	8.65	9.23	8.68	8.89	10.31	13.87	15.10
14	13.45	11.31	9.86	9.14	8.97	8.65	9.10	8.71	8.89	10.64	13.92	15.37
15	13.37	11.18	9.83	9.16	8.96	8.64	9.06	8.70	8.94	10.99	14.00	15.43
16	13.31	11.14	9.82	9.16	8.94	8.62	8.96	8.61	9.01	11.23	14.06	15.51
17	13.25	11.05	9.67	9.15	8.82	8.58	8.93	8.58	9.04	11.34	14.14	15.52
18 19	13.20 13.15	10.96 10.91	9.61 9.56	9.16 9.17	8.78 8.86	8.51 8.63	8.87 8.96	8.59 8.59	9.04 9.03	11.45 11.59	14.23 14.29	15.49 15.47
20	13.10	10.74	9.53	9.03	8.89	8.58	9.04	8.56	9.03	11.76	14.35	15.43
21 22	13.04 12.97	10.66 10.62	9.53 9.53	9.04 9.01	8.85 8.84	8.44 8.55	9.00 8.97	8.63 8.56	9.03 9.01	11.91 12.10	14.44 14.54	15.41 15.39
23	12.97	10.62	9.50	8.92	8.77	8.62	9.00	8.53	9.01	12.10	14.54	15.35
24	12.83	10.61	9.40	9.10	8.92	8.65	8.91	8.48	9.04	12.31	14.60	15.33
25	12.75	10.56	9.42	9.04	8.90	8.57	8.81	8.55	9.09	12.39	14.61	15.39
26	12.68	10.46	9.48	9.11	8.80	8.56	8.67	8.60	9.12	12.45	14.61	15.44
27	12.61	10.41	9.46	9.12	8.84	8.51	8.76	8.62	9.09	12.54	14.62	15.47
28	12.57 12.51	10.38 10.32	9.41 9.34	9.12 9.19	8.73	8.63 8.75	8.79 8.88	8.62 8.64	9.09 9.17	12.61 12.65	14.63 14.63	15.50 15.53
29 30	12.51	10.32	9.34	9.19		8.75	8.81	8.62	9.17	12.65	14.63	15.53
31	12.37		9.31	9.10		9.00		8.62		12.71	14.61	
MEAN	13.15	11.21	9.72	9.15	8.93	8.63	9.05	8.66	8.92	10.95	13.97	15.13
MAX	13.73	12.30	10.24	9.33	9.07	9.00	9.32	8.79	9.21	12.71	14.63	15.54
MIN	12.37	10.26	9.25	8.92	8.73	8.34	8.67	8.48	8.61	9.11	12.78	14.50

CAL YR 2000 MEAN 10.16 MAX 13.73 MIN 7.93 WTR YR 2001 MEAN 10.63 MAX 15.54 MIN 8.34

02232400 ST. JOHNS RIVER NEAR COCOA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-60, 1962-78, 1980-88, 2000 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: August 2000 to current year. WATER TEMPERATURE: August 2000 to current year.

 ${\tt INSTRUMENTATION.--Water-quality} \ {\tt monitor} \ {\tt and} \ {\tt data-collection} \ {\tt platform}.$

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 2,640 μS/cm @ 25 °C, June 9, 2001; minimum daily mean, 368 μS/cm @ 25 °C, Sept. 13, 14, 2001.

WATER TEMPERATURE: Maximum daily mean, 31.7 °C, July 30, 2001; minimum daily mean, 8.8 °C, Jan. 1, 2001.

EXTREMES FOR CURRENT YEAR . --

NAMES FOR CONDUCTANCE: Maximum daily mean, 2,640 μ S/cm @ 25 °C, June 9; minimum daily mean, 368 μ S/cm @ 25 °C, Sept. 13, 14. WATER TEMPERATURE: Maximum daily mean, 31.7 °C, July 30; minimum daily mean, 8.8 °C, Jan. 1.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	780	576	768	1060	1370	1700	1880	2260	2590	2230	1040	474
2	781	572	765	1070	1380	1720	1810	2250	2550	2200	1010	473
3	742	575	765	1080	1390	1730	1840	2250	2540	2190	923	472
4	681	581	789	1110	1400	1720	1820	2190	2550	2210	869	462
5	701	587	785	1130	1410	1730	1820	2190	2570	2180	891	455
6	666	589	791	1130	1440	1720	1850	2200	2590	2150	838	438
7	650	592	809	1130	1440	1740	1880	2220	2610	2130	826	427
8	642	591	809	1140	1450	1760	1870	2230	2630	2080	807	425
9	591	582	810	1140	1460	1770	1870	2280	2640	2080	771	419
10	581	598	831	1140	1470	1790	1880	2330	2560	2020	742	429
11	540	626	849	1150	1480	1800	1900	2330	2500	1960	706	417
12	528	646	853	1170	1490	1820	1940	2360	2520	1870	687	385
13	542	669	839	1180	1510	1840	2020	2390	2540	1790	669	368
14	548	666	867	1200	1530	1830	1980	2410	2550	1690	648	368
15	556	665	873	1220	1540	1840	1980	2430	2540	1570	618	401
16 17 18 19 20	549 540 530 530 527	662 665 662 676	889 900 932 949 967	1230 1240 1250 1260 1280	1550 1570 1580 1580 1590	1860 1860 1870 1850 1840	2000 2040 2060 2080 2100	2450 2470 2490 2500 2520	2490 2480 2420 2390 2400	1600 1500 1360 1360 1350	590 584 583 569 555	440 420 408 395 395
21	515	684	1020	1260	1600	1840	2130	2540	2430	1350	532	399
22	507	710	1010	1250	1620	1850	2140	2570	2430	1300	527	399
23	509	711	1020	1270	1630	1860	2170	2490	2410	1330	520	394
24	515	711	1030	1290	1630	1880	2180	2470	2360	1270	516	383
25	526	710	1030	1300	1640	1900	2200	2500	2300	1210	511	377
26 27 28 29 30 31	529 549 567 577 571 574	707 707 728 733 787	1020 1030 1030 1030 1030 1050	1320 1320 1330 1340 1360 1370	1660 1670 1690 	1920 1930 1950 2000 1880 1980	2190 2190 2210 2240 2260	2500 2510 2530 2560 2580 2590	2300 2290 2270 2250 2270	1150 1140 1110 1110 1090 1060	521 547 528 502 485 475	383 393 388 383 385
MEAN	585	655	908	1220	1530	1830	2020	2410	2470	1630	664	412
MAX	781	787	1050	1370	1690	2000	2260	2590	2640	2230	1040	474
MIN	507	572	765	1060	1370	1700	1810	2190	2250	1060	475	368

CAL YR 2000 MEAN 907 MAX 2020 MIN 507 WTR YR 2001 MEAN 1360 MAX 2640 MIN 368

02232400 ST. JOHNS RIVER NEAR COCOA, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

	DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2	26.8 26.6	23.0 22.8	17.4 18.5	8.8 9.5	21.0 20.6	24.4 24.8	23.1 21.5	21.9 22.8	29.3 28.0	29.6 29.7	29.5 27.5	30.8 30.9		
3	26.4	22.6	18.6	9.4	17.2	24.7	22.1	23.5	29.1	30.1	26.5	31.0		
4 5	26.0 26.4	22.7 23.2	15.7 15.0	9.9 9.1	15.8 16.2	23.0 19.9	21.8 23.8	22.7 23.4	30.2 30.5	30.6 29.4	26.9 27.4	30.9 30.7		
6	27.3	23.2	14.7	10.8	15.4	16.3	23.6	23.9	29.6	28.6	27.9	30.0		
7 8	27.6 26.8	23.5	15.2 16.2	11.5 13.0	16.2 17.9	14.8	23.9	23.6 23.9	29.3 29.6	29.6 30.1	28.4 29.4	29.0		
9	23.9	24.2 24.3	18.1	14.1	19.7	15.1 17.1	25.1 25.8	23.8	30.0	28.5	29.7	28.4 28.0		
10	21.6	24.1	19.5	11.2	20.4	19.0	25.6	24.0	30.1	27.8	29.2	28.0		
11 12	21.6 22.0	22.9 21.9	20.8 22.0	11.5 14.1	21.5 22.3	20.1 22.2	26.3 26.7	24.1 23.7	29.0 29.8	28.6 29.1	29.7 30.2	28.2 27.5		
13	22.3	22.0	22.2	15.4	23.0	23.6	27.1	24.8	29.9	28.5	30.7	26.8		
14 15	22.5 22.6	22.1 20.5	22.9 23.5	15.4 17.1	23.5 23.7	23.2 22.8	28.2 28.4	26.2 26.7	30.0 29.9	28.0 27.1	30.5 30.3	26.1 25.3		
16	22.5	19.8	23.5	18.3	23.9	23.3	27.5	25.6	29.1	27.5	30.5	25.0		
17	22.5	21.2	22.6	19.2	23.7	23.3	25.5	26.7	29.5	28.7	30.6	25.7		
18 19	22.7 23.1	21.5 21.9	17.8 16.5	20.8 21.7	21.2 19.0	22.0 20.3	21.6 19.5	28.0 28.1	28.6 29.1	29.4 29.5	30.6 30.8	26.3 26.8		
20	23.5	20.6	13.0	21.0	20.1	21.2	21.1	28.1	29.0	29.4	31.2	27.3		
21	23.7	17.1	11.0	15.3	20.6	20.0	22.4	28.4	29.5	28.9	30.4	27.8		
22 23	23.6 23.5	15.0 14.5	11.6 12.6	12.8 12.4	21.3 22.0	17.6 18.6	23.0 24.5	28.9 28.3	29.5 28.4	28.3 27.8	30.2 29.9	28.2 28.2		
24 25	23.3 23.2	15.5 18.4	14.5 15.3	12.2 12.9	22.1 23.1	20.7 22.2	25.3 25.4	28.5 28.4	27.4 26.6	27.2 28.7	30.0 29.8	28.4 28.2		
26 27	23.3 23.3	20.2 19.3	15.6 16.2	12.2 13.4	23.7 24.1	22.4 21.4	24.6 21.5	27.7 28.8	28.3 29.6	29.5 29.8	29.5 29.2	28.0 27.7		
28 29	23.3 23.7	18.2 17.9	17.1 15.5	14.9 16.9	24.6	20.0 20.9	21.9 22.0	28.5 27.9	27.6 27.4	30.5 31.4	29.8 30.1	27.2 26.5		
30	23.7	17.6	12.7	18.1		20.5	21.1	28.1	29.1	31.7	30.7	25.7		
31	23.4		9.7	19.8		22.4		29.5		31.0	30.7			
MEAN	24.0	20.7	17.0	14.3	20.9	20.9	24.0	26.1	29.1	29.2	29.6	28.0		
MAX MIN	27.6 21.6	24.3 14.5	23.5 9.7	21.7 8.8	24.6 15.4	24.8 14.8	28.4 19.5	29.5 21.9	30.5 26.6	31.7 27.1	31.2 26.5	31.0 25.0		

CAL YR 2000 MEAN 23.5 MAX 31.3 MIN 9.7 WTR YR 2001 MEAN 23.6 MAX 31.7 MIN 8.8

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT													
10 25 NOV	1132 1053	13.62 12.77	1660 898	200 240	2.6 3.6	6.7 4.8	7.5 7.4	6.98 7.18	577 527	610 530	21.6 23.2	140 140	40 40
07 21	1150 1415	11.92 10.67	484 564	240 240	2.5 4.0	6.0 7.6	7.6 7.6	7.30 7.47	580 680	454 691	24.2 17.2	150 180	43 51
DEC 06	1305	9.99	114	240	5.7	9.5	7.5	7.59	800	792	14.6	210	60
19	1010	9.66	107	140	4.4	8.1	7.8	7.47	911	938	16.5	240	67
JAN 04 18	1247 1410	9.10 9.19	153 -115	140 140	12 6.5	9.7 7.2	7.9 7.8	7.69 7.4	1120 1230	1120 1240	9.9 21.4	300 330	83 92
FEB													
28 MAR	1430	8.70	92	80	6.3	7.2	7.9	7.51	1650	1710	27.9	440	120
15 28	0956 1130	8.72 8.71	142 242	100 70	10 4.5	6.4 8.0	7.9 8.0	7.62 7.78	1820 1940	1840 1950	22.1 20.0	470 510	130 140
APR 11	1252	9.30	47	60	5.3	6.6	7.6	7.50	1900	1900	26.9	500	140
25 MAY	1317	8.81	374	70	4.2	7.3	7.8	7.55	2200	2210	26.5	580	160
09 23	1210 1100	8.74 8.47	746 17	60 60	7.5 9.0	7.9 5.0	8.7 8.4	8.03 7.07	2280 2500	2310 2490	24.6 28.1	590 630	160 170
JUN			1.42	60						0500		600	170
06 20 JUL	1121 1045	8.75 9.02	143 55	60 50	7.0 6.0	6.1 5.0	8.8 8.6	7.08 6.85	2560 2380	2580 2620	29.9 28.9	620 580	170 160
03 18	1201 1213	9.21 11.46	70 513	50 70	7.6 13	6.1 8.6	8.9 8.6	6.95 6.9	2180 1260	2200 1300	30.4 31.8	510 300	140 80
AUG 01	1115	12.77	1080	120	4.5	6.5	7.2	7.1	1020	1060	29.5	250	68
16 28	1245 0949	14.07 14.63	2280 3250	280 400	.45	2.4 10.2	7.0 6.9	7.2	577 511	588 525	30.9 29.5	150 140	42 40
SEP 13 26	1036 1250	15.11 15.45	2940 4500	240 240	.60 1.7	5.0 3.2	7.2 7.0	7.1 7.5	366 380	361 381	26.5 28.1	99 100	29 29

02232400 ST. JOHNS RIVER NEAR COCOA, FL--Continued

	WAIDR-QUALITI DATA, WAIDR IDAR OCTOBER 2000 TO SEPTEMBER 2001												
DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE TOTAL (MG/L AS S) (00745)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT 10 25	40 40	10 9.1	10 9.1	4.5 5.1	58 51	42 48	.3	99 98	7.9 9.6	65 49		8	379 381
NOV 07 21	43 51	10 12	10 12	5.3 5.4	56 64	54 63	.4 .56	112 130	11 11	47 55	 <1.0	6 7	421 483
DEC 06 19	61 69	14 17	15 17	5.4 5.1	73 86	64 63	.61 .66	150 170	11 8.6	82 110	<1.0 <1.0 <1.0	10 11	526 631
JAN 04	82	21	21	5.5	100	66	.93	210	4.8	160	<1.0	19	798
18 FEB 28	92 130	23 32	24 34	4.1 6.5	120 170	68 75	.84 2.6	231 320	.74	181 260	<1 <1.0	15 13	886 1130
MAR 15 28	140 140	35 37	36 36	7.0 7.3	180 200	75 77	E17 12	370 390	. 26	280 300	<1.0 <1.0	22 11	1270 1290
APR 11	140	35	36	6.6	190	65	6.1	370	.27	310	<1.0	13	1330
25 MAY 09	160 170	43 44	42 45	7.4 8.0	220 230	72 72	<5.0 1.6	440 470	.32	350 360	<1.0 <1.0	12 17	1420 1440
23 JUN 06	170 170	48 46	48 48	8.7	260 280	71 60	1.9	520 550	.97 1.9	370 380	<1.0 <1.0	23 25	1690 1760
20 JUL	150	43	43	8.0	260	54	1.7	530	5.1	340	<1.0	24	1620
03 18 AUG	140 82	37 23	37 24	7.9 5.1	230 130	59 50	1.8	470 263	8.7 6.2	270 159	<1.0 <1	39 39	1420 866
01 16 28 SEP	69 43 41	18 9.6 9.0	19 9.6 9.2	4.8 5.8 5.6	100 53 45	60 65 68	.66 .49 .51	207 113 96	5.9 11 13	113 31 24	<1 2 4	16 9 4	696 432 394
13 26	31	6.3 6.6	6.6	4.4 4.1	30 33	E59cl 54	.34	64 68	10 9.3	12 15	2	4 2	286 E259cl
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT 10 25	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA TOTAL (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NITRITE TOTAL (MG/L AS N)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHORUS ORTHO TOTAL (MG/L AS P)	PHORUS TOTAL (MG/L AS P)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC TOTAL (MG/L AS C)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 10	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHORUS TOTAL (MG/L AS P) (00665)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC TOTAL (MG/L AS C) (00680)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT 10 25 NOV 07 21 DEC 06	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630) .10 .19 .23 .31	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12	PHORUS TOTAL (MG/L AS P) (00665) .20 .23 .18 .16	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC TOTAL (MG/L AS C) (00680) 24 27	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953) 8.0 <.1 4.9 <.1 7.3
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .02 .01 .01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06	PHORUS TOTAL (MG/L AS P) (00665) .20 .23 .18 .16 .10 .07 .09	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953) 8.0 <.1 4.9 <.1 7.3 11
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04 18 FEB 28	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35	GEN, NO2+NO3 TOTPAL (MG/L AS N) (00630) .10 .19 .23 .31 .41	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .02 <.01 <.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953) 8.0 <.1 4.9 <.1 7.3
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04 18 FEB 28 MAR 15 28	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036 .050 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12 .09	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35	GEN, NO2+NO3 TOTPAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36 .28 <.02	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .02 .01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .01 <.01 <.01 <.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26 27	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29 27 27	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953) 8.0 <.1 4.9 <.1 7.3 11
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04 18 FEB 28 MAR 15	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036 .050 <.01 .116 .073	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12 .09 .14	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35 .27 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36 .28 <.02 <.02 <.02	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .01 <.01 <.01 <.01 <.01 <.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04 .02 <.01	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06 .04 .01	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26 27 27 25	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29 27 27 27 25	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953) 8.0 <.1 4.9 <.1 7.3 11 10 5.2 12
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04 18 FEB 28 MAR 15 28 APR 11 25 MAY	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036 .050 <.01 .116 .073 .048 .018 .016 <.010	GEN, AM- MONIA + MONIA + CORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12 .09 .14 .11 .07 .02 .02 .05	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35 .27 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36 .28 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04 .02 <.01 .03 <.01	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06 .04 .01 .03 .03 .01	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26 27 27 25 24 21 23 24	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29 27 27 25 24 25 23 23	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953) 8.0 <.1 4.9 <.1 7.3 11 10 5.2 12 11 8.9
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04 18 FEB 28 MAR 15 28 APR 11 25 MAY 09 23 JUN 06	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036 .050 <.01 .116 .073 .048 .018 .016 <.010 .015 .014	GEN, AM- MONIA + MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12 .09 .14 .11 .07 .02 .02 .05 .07	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35 .27 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36 .28 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04 .02 <.01 .03 .03 <.01 .03 <.01	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06 .04 .01 .03 .03 .01 .03 .01 .03 .01 .02	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26 27 27 25 24 21 23 24 21 23 24	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29 27 27 25 24 25 23 23 23	PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953) 8.0 < .1
OCT	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036 .050 <.01 .116 .073 .048 .018 .016 <.010 .015 .014 .018 .020	GEN, AM- MONIA + MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTTAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12 .09 .14 .11 .07 .02 .02 .05 .07 .04 .02 .02 .05	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35 .27 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36 .28 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04 .02 <.01 .03 <.01 .03 <.01 .01 <.01 .01 <.01	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06 .04 .01 .03 .03 .01 .03 .01 .02 .02 .01 .02	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26 27 25 24 21 23 24 25 27 27 25 24 21 23 24 25 27 25 27 25	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29 27 27 25 24 25 23 23 23 25 26 10 29 25	PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953) 8.0 < .1
OCT 10 25 NOV 07 21 DEC 06 19 JAN 04 18 828 MAR 15 28 APR 11 25 MAY 09 23 JUN 06 20 JUL	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .35 .21 .18 .114 .034 .036 .050 <.01 .116 .073 .048 .018 .016 <.010 .015 .014 .018	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTPAL (MG/L AS N) (00610) .35 .22 .18 .12 .05 .10 .12 .09 .14 .11 .07 .02 .02 .05 .07	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .10 .19 .23 .30 .41 .35 .27 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630) .10 .19 .23 .31 .41 .36 .28 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .02 .06 .02 .02 .01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615) .02 .06 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .19 .20 .16 .11 .06 .04 .02 <.01 .03 <.01 .03 <.01 .01 <.01 .01 <.01	PHORUS ORTHO TOTAL (MG/L AS P) (70507) .20 .22 .17 .12 .08 .06 .04 .01 .03 .03 <.01 .03 <.01 .03 <.01 .02 .02 .02 .02	PHORUS TOTAL (MG/L AS P) (00665) .20	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 24 27 29 31 27 26 27 27 25 24 21 23 24 25 27	ORGANIC TOTAL (MG/L AS C) (00680) 24 27 30 32 28 29 27 27 25 24 25 23 23 25 26 10 29	PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953) 8.0 < .1

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

ST. JOHNS RIVER ABOVE OCKLAWAHA RIVER

02232400 ST. JOHNS RIVER NEAR COCOA, FL--Continued

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)
OCT						
10 25 NOV	28 25	28 25	270 427	454 663	1300 1100	1300 1100
07 21 DEC	27 31	27 33	432 436	604 628	1300 1400	1300 1500
06 19 JAN	36 41	37 43	359 240	620 470	1700 2100	1800 2200
04 18	49 56	50 57	165 94	603 425	2600 2940	2600 2950
FEB 28	76	82	52	264	4200	4300
MAR 15 28	84 92	89 91	40 31	324 156	4400 4900	4600 4900
APR 11 25 MAY	88 100	88 100	26 28	231 175	4800 5900	4800 5800
09	99 120	100 120	24 22	207 223	5900 6500	5800 6300
JUN 06 20	110 110	120 110	19 15	185 116	6300 5900	6500 5900
03 18	93 56	99 61	11 67	141 561	5300 3030	5300 3160
01 16 28	47 30 28	50 32 30	143 514 536	328 707 687	2480 1250 1140	2510 1250 1130
SEP 13 26	21 20	23	500 439	601 577	760 780	800

< -- Less than E -- Estimated value

02232415 TAYLOR CREEK NEAR COCOA, FL

LOCATION.--Lat $28^{\circ}21^{\circ}08^{\circ}$, long $80^{\circ}55^{\circ}43^{\circ}$, in $SW^{\frac{1}{2}}_{4}$ sec.33, T.24 S., R.34 E., Orange County, Hydrologic Unit 03080101, near right bank on downstream side of bridge on State Highway 532, 1.0 mi downstream from structure 164, 3.5 mi upstream from mouth, and 10.8 mi west of Cocoa.

DRAINAGE AREA. -- 55.1 mi².

PERIOD OF RECORD.--1960, 1967, 1972, 1982, 1984, 1985, 1994 (one to five discharge measurements each year), January 1997 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (Florida Department of Natural Resources bench mark).

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Flow regulated by structure 164.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE	AR OCTOBER LUES	2000 TO	SEPTEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.7 1.3 13 152 272	.38 .37 .36 .35	.35 .35 .35 .35	.18 .15 .14 .13	.09 .09 .09 .10	.02 .00 .00 .01	.76 .38 .19 .12	.00 .00 .04 .28	.00 .00 .00 .00	.26 .23 .20 .19 .20	140 130 131 137 156	.75 .83 .92 .98
6 7 8 9 10	267 262 260 255 249	.33 .32 .31 .30	.35 .35 .33 .31	.12 .12 .12 .13	.11 .10 .10 .08	.05 .03 .01 .00	.09 .08 .06 .05	. 23 . 22 . 25 . 23 . 20	.00 .00 .00 .00	.24 .33 .60 .60	191 257 248 240 236	1.1 1.7 2.4 2.3 1.4
11 12 13 14 15	242 236 e120 e20 e5.0	.30 .30 .31 .31	.33 .42 .38 .34	.11 .11 .11 .10	.07 .07 .07 .07	.00 .00 .00 .00	.03 .02 .00 .00	.21 .22 .20 .17 .13	.00 .00 .00 .00	.68 2.6 108 286 288	234 230 228 225 224	.97 5.5 e30 e59 e22
16 17 18 19 20	e60 e200 e120 87 2.4	.30 .30 .26 .23	.33 .33 .29 .24	.09 .08 .08 .08	.07 .07 .06 .06	.00 .00 .00 .00	.00 .00 .00 .00	.07 .04 .01 .00	.00 .00 .00 .00	282 278 271 264 261	225 218 204 190 174	4.8 60 232 229 226
21 22 23 24 25	.73 .53 .47 .46			.12 .12 .12 .12 .11		.05 .04 .02 .00	.04 .06 .08 .07	.00 .00 .00 .04 .05	.00 .00 .00 .00	266 256 250 249 261	159 146 132 120 109	222 218 214 210 210
26 27 28 29 30 31	. 45 . 44 . 42 . 40 . 39 . 38	.21 .28 .23 .24 .36	.13 .15 .21 .30 .25	.10 .08 .08 .08 .08	.05 .04 .03 	.00 .02 .10 .22 1.4 1.4	.06 .04 .02 .00	.21 .16 .06 .03 .00	.00 .00 .00 .14 .26	250 227 203 184 163 150	98 89 56 1.8 .88 .74	204 201 198 196 197
MEAN MAX MIN CFSM IN.		8.36 .28 .38 .16 .01	8.57 .28 .42 .13 .01	3.40 .11 .18 .08 .00	1.94 .069 .11 .03 .00	3.45 .11 1.4 .00 .00	2.35 .078 .76 .00 .00 .00	3.31 .11 .28 .00 .00		4504.33 145 288 .19 2.68 3.09	4930.42 159 257 .74 2.93 3.38	2952.65 98.4 232 .75 1.81 2.02
MEAN MAX (WY) MIN (WY)	207 734 2000 .053 1998	7.01 25.5 2000 .28 2001	75.3 298 1998 .28 2001	46.3 183 1998 .11 2001	70.4 353 1998 .000 1997	44.5 222 1998 .000 1997	4.06 19.3 1998 .000 1997	11.1 54.5 1998 .000 1997	16.9 83.9 1999 .000 2000	37.0 145 2001 .18 1997	41.3 159 2001 .18 1997	40.4 98.4 2001 .002 1997
ANNUA ANNUA HIGHE: LOWES' ANNUA MAXIM MAXIM ANNUA ANNUA 10 PE	RY STATIST: L TOTAL L MEAN ST ANNUAL I T ANNUAL I T ANNUAL I T DAILY ME L SEVEN-DA' UM PEAK ST L RUNOFF ((L RUNOFF ((R CENT EXCE) RCENT EXCE!	MEAN EAN EAN AN Y MINIMUM OW AGE CFSM) INCHES) EDS	.28 .11 .000 .000 2001 2001 1997 199				0R 2001 WA: 15249.71 41.8 288 .00 .00 319 21.15 .77 10.45 220 .00	Jul 15 Many da Mar 9 Jul 14 Jul 14		55. 93. 18. 1110	7 8 Dec 00 M 00 M Dec 44 Dec	7 - 2001 1998 1999 16 1997 any days any days 15 1997 15 1997

e Estimated

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL

LOCATION.--Lat $28^{\circ}32^{\circ}32^{\circ}34^{\circ}$, long $80^{\circ}56^{\circ}37^{\circ}$, in $SW^{1/2}_{4}$ sec.29, T.22 S., R.34 E., Orange County, Hydrologic Unit 03080101, on downstream side of bridge on State Highway 50, 0.3 mi upstream from Tootoosahatchee Creek, 2 mi upstream from Lake Cone, 4.5 mi east of Christmas, and 209 mi upstream from mouth.

DRAINAGE AREA.--1,539 mi², includes that of Tootoosahatchee Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year. Prior to January 1934, monthly discharge only, published in WSP 1304.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 1.62 ft above sea level. Prior to July 23, 1934, nonrecording gage at same site and datum.

REMARKS. -- Records fair.

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 2 3 4 5	1220 1280 1370 1560 1760	1050 1050 1030 994 936	272 287 297 284 257	132 131 123 119 105	101 88 90 87 99	51 47 32 30 30	192 140 153 135 81	76 70 135 255 194	18 14 29 -2.7 3.7	116 105 99 98 90	1130 1080 1170 1240 1430	2520 2550 2580 2490 2490	
6 7 8 9 10	1890 1960 1980 1990 1920	923 872 838 808 791	234 217 202 203 202	111 112 110 129 97	81 99 83 89 84	31 21 23 31 26	121 146 123 117 117	151 110 111 91 85	4.4 -2.2 17 28 13	99 97 120 163 241	1590 1930 2100 2140 2180	2520 2740 2650 2910 3320	
11 12 13 14 15	1810 1780 1740 1710 1680	777 755 708 669 645	186 204 225 203 179	81 91 103 93 83	81 59 63 62 64	34 43 32 41 39	101 121 137 99 100	65 75 68 49 38	12 59 74 56 62	237 217 272 386 806	2080 2060 1990 2000 2110	3480 3640 3820 4900 5470	
16 17 18 19 20	1590 1590 1520 1520 1480	606 575 548 535 503	177 178 189 177 174	91 72 100 103 99	69 50 52 38 52	86 97 125 125 113	917 939 901 894 884	2000 2130 2110 2130 2200	5790 5250 4670 4570 4200				
21 22 23 24 25	1450 1430 1380 1390 1340	473 439 393 380 358	176 163 149 152 136	111 103 122 101 103	39 62 45 45 51	43 56 72 68 56	96 90 86 93 82	12 24 17 .04	112 91 89 77 102	830 788 810 1000 1110	2250 2380 2430 2440 2490	4100 4130 4110 4050 4270	
26 27 28 29 30 31	1290 1280 1210 1190 1140 1090	387 411 368 342 318	129 137 152 149 161 137	98 102 91 104 112 104	42 52 31 	52 42 33 63 228 241	88 60 67 37 45	79 60 29 36 36 32	91 89 85 143 121	1130 1180 1200 1200 1150 1140	2540 2540 2460 2570 2580 2590	3970 4110 4210 4390 4740	
TOTAL MEAN MAX MIN MED CFSM IN.	47540 1534 1990 1090 1520 1.00	19482 649 1050 318 626 .42 .47	5988 193 297 129 179 .13	3236 104 132 72 103 .07	1858 66.4 101 31 62 .04	1621 52.3 241 17 39 .03	3065 102 192 37 96 .07	2124.04 68.5 255 .04 .55 .04	1931.2 64.4 143 -2.7 76 .04	19219 620 1200 90 806 .40 .46	64070 2067 2590 1080 2130 1.34 1.55	114640 3821 5790 2490 4080 2.48 2.77	
STATIS	TICS OF M	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 1934	- 2001	, BY WATE	R YEAR (W	()				
MEAN MAX (WY) MIN (WY)	2703 10130 1954 67.5 1981	1951 4928 1957 38.7 1981	1304 4174 1988 81.8 1962	995 3949 1998 70.0 1962	895 4230 1998 66.4 2001	960 4739 1960 16.4 1939	785 4072 1960 -30.3 1999	426 1715 1998 15.3 1981	639 5461 1968 8.45 2000	1166 6809 1968 8.34 1981	1491 4755 1974 32.3 1981	2088 8062 1953 171 1950	
SUMMAR'	Y STATIST	ICS	FOR 2	2000 CALEN	IDAR YEAR	ર	WATER YE	ARS 1934	4 - 2001				
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI MAXIMUI	MEAN I ANNUAL M ANNUAL M I DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW 'AGE		-76 -48	Oct 9 May 28 May 23			Sep 16 7 Jun 4 7 Jun 4 73 Sep 1'	1	1286 2978 84.4 11600 -137 -82 11700 10.81 .84	Oct Apr Apr Oct Sep	11 1953	
10 PER	RUNOFF (CENT EXCE CENT EXCE CENT EXCE	EDS EDS		.27 3.72 1200 223 24	2		6. 2470 137 36	88		.84 11.35 3070 807 108			

Note.--Negative figures indicate reverse flow $% \left(1\right) =\left(1\right) \left(1\right)$

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

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

	DATHI MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.52 5.68 5.82 6.10 6.27	5.63 5.57 5.50 5.43 5.36	3.06 2.98 2.91 2.84 2.75	1.83 1.81 1.78 1.74 1.70	1.54 1.51 1.48 1.46 1.45	1.14 1.09 1.06 1.09 1.12	2.32 2.21 2.12 2.08 2.06	1.43 1.43 1.74 2.61 2.61	1.18 1.18 1.18 1.17 1.16	2.13 2.07 1.99 1.91 1.86	5.79 5.84 5.93 6.01 6.20	7.14 7.13 7.14 7.13 7.13
6 7 8 9 10	6.43 6.54 6.58 6.55 6.57	5.29 5.22 5.15 5.06 4.97	2.66 2.60 2.56 2.53 2.50	1.68 1.68 1.67 1.68 1.63	1.43 1.42 1.42 1.42 1.42	1.04 .92 .86 .88	2.03 1.99 1.96 1.92 1.88	2.42 2.21 2.06 1.92 1.79	1.16 1.17 1.16 1.14 1.15	1.84 1.84 1.86 2.15 2.54	6.45 6.68 6.77 6.78	7.14 7.18 7.24 7.37 7.55
11 12 13 14 15	6.55 6.52 6.49 6.46 6.43	4.88 4.79 4.69 4.58 4.47	2.48 2.51 2.54 2.50 2.48	1.57 1.58 1.59 1.55 1.54	1.41 1.38 1.34 1.31 1.29	.94 .95 .98 1.03	1.85 1.81 1.78 1.75 1.71	1.69 1.61 1.54 1.49 1.43	1.25 1.54 1.64 1.69 1.72	2.75 2.86 3.04 3.45 4.74	6.79 6.78 6.79 6.78 6.79	7.64 7.70 7.79 8.11 8.45
16 17 18 19 20	6.39 6.36 6.32 6.28 6.24	4.36 4.25 4.15 4.04 3.92	2.44 2.38 2.33 2.24 2.18	1.54 1.55 1.54 1.54 1.59	1.29 1.28 1.25 1.19 1.17	.98 .97 .93 .99	1.64 1.54 1.47 1.39 1.39	1.37 1.32 1.25 1.19 1.15	1.73 1.95 2.17 2.25 2.21	5.14 5.33 5.44 5.42 5.36	6.78 6.79 6.81 6.83 6.84	8.67 8.72 8.70 8.68 8.65
21 22 23 24 25	6.21 6.17 6.12 6.07 6.02	3.81 3.68 3.56 3.48 3.40	2.11 2.07 2.05 2.01 1.98	1.62 1.57 1.58 1.55 1.52	1.17 1.17 1.15 1.15 1.16	1.35 1.28 1.19 1.16 1.13	1.43 1.46 1.45 1.43 1.42	1.11 1.08 1.09 1.06 1.05	2.12 2.03 1.96 1.93 1.89	5.31 5.30 5.50 5.77 5.88	6.87 6.93 6.96 6.98 7.02	8.62 8.59 8.56 8.52 8.55
26 27 28 29 30 31	5.97 5.92 5.87 5.81 5.75 5.69	3.37 3.40 3.33 3.23 3.15	1.93 1.91 1.94 2.02 1.97	1.52 1.51 1.51 1.52 1.53 1.56	1.19 1.20 1.17 	1.11 1.05 1.00 1.10 2.04 2.36	1.41 1.33 1.25 1.23 1.25	1.50 1.52 1.42 1.34 1.29	1.86 1.84 1.97 2.17 2.18	5.88 5.92 5.94 5.87 5.81 5.79	7.04 7.06 7.07 7.08 7.08 7.10	8.52 8.50 8.48 8.49 8.56
MEAN MAX MIN	6.18 6.58 5.52	4.39 5.63 3.15	2.37 3.06 1.90	1.61 1.83 1.51	1.31 1.54 1.15	1.13 2.36 .86	1.69 2.32 1.23	1.55 2.61 1.05	1.66 2.25 1.14	4.09 5.94 1.84	6.72 7.10 5.79	8.02 8.72 7.13

CAL YR 2000 MEAN 2.86 MAX 6.58 MIN .35 WIR YR 2001 MEAN 3.40 MAX 8.72 MIN .86

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-58, 1960-62, 1965-76, 1979-84, 2000 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: August 2000 to current year.
WATER TEMPERATURE: August 2000 to current year.

 ${\tt INSTRUMENTATION.--Water-quality} \ {\tt monitor} \ {\tt and} \ {\tt data-collection} \ {\tt platform}.$

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 5,310 μS/cm @ 25 °C, June 18, 2001; minimum daily mean, 327 μS/cm @ 25 °C, Sept. 15, 2001.

WATER TEMPERATURE: Maximum daily mean, 31.4 °C, July 30, 2001; minimum daily mean, 9.7 °C, Jan. 3, 2001.

EXTREMES FOR CURRENT YEAR. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 5,310 µS/cm @ 25 °C, June 18; minimum daily mean, 327 µS/cm @ 25 °C, Sept. 15. WATER TEMPERATURE: Maximum daily mean, 31.4 °C, July 30; minimum daily mean, 9.7 °C, Jan. 3.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	1090 1070 1040 985 988	732 739 745 751 758	1140 1130 1150 1160 1170	1690 1800 1760 1710 1680	1950 1930 1950 2000 2050	2180 2200 2250 2250 2240	4220 4000 3990 3750 3350	2600 2690 2580 2260 2660	3470 3540 3530 3530 3510	3110 3110 3120 3110 3030	1170 1150 1110 1080 1010	596 582 567 560 552
6 7 8 9 10	904 799 779 773 771	762 765 767 774 780	1230 1230 1200 1170 1170	1680 1690 1680 1650	2120 2170 2170 2120 2080	2370 2480 2440 2430 2500	3020 2860 2710 2620 2570	3120 3270 3350 3380 3360	3430 3360 3300 3240 3190	2890 2830 2780 4430 3750	928 726 687 738 856	545 534 507 482 455
11 12 13 14 15	759 739 720 700 685	787 804 823 843 868	1150 1160 1210 1290 1340	1680 1720 1750 1770 1740	2030 2030 2050 2110 2130	2570 2550 2480 2410 2390	2560 2560 2520 2470 2400	3340 3360 3320 3340 3320	3090 3020 3070 3150 3350	3050 2770 2510 2210 1540	959 967 941 890 789	426 418 414 398 327
16 17 18 19 20	679 681 690 700	889 898 910 921 927	1340 1340 1350 1380 1420	1730 1770 1760 1740 1710	2140 2130 2120 2160 2150	2420 2340 2420 2400 2970	2390 2460 2580 2660 2630	3300 3300 3280 3280 3280	3370 4500 5310 4520 3800	1320 1200 1160 1240 1280	775 761 738 719 705	437 421 408 414 430
21 22 23 24 25	695 682 681 683 682	943 968 985 975 973	1460 1450 1460 1450 1460	1700 1810 1970 2120 2320	2180 2180 2200 2230 2180	3920 3620 4150 4580 4380	2560 2480 2450 2460 2490	3280 3270 3250 3270 3280	3590 3470 3380 3390 3260	1290 1310 1190 885 867	688 667 	442 439 435 445 442
26 27 28 29 30 31	681 686 693 698 707 721	969 975 1030 1100 1130	1490 1530 1530 1450 1460 1580	2400 2370 2260 2170 2080 2020	2170 2180 2180 	4030 3830 3770 3750 5250	2430 2410 2440 2500 2550	3190 2950 3200 3360 3440 3440	3230 3150 3160 3230 3210	975 1040 1090 1150 1170	 598 604 601	439 438 431 422 411
MEAN MAX MIN	770 1090 679	876 1130 732	1320 1580 1130	1860 2400 1650	2110 2230 1930	2990 5250 2180	2770 4220 2390	3170 3440 2260	3480 5310 3020	2020 4430 867	834 1170 598	461 596 327

CAL YR 2000 MEAN 1190 MAX 1800 MIN 679 WTR YR 2001 MEAN 1900 MAX 5310 MIN 327

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DATH MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	22.9	17.6	10.1	20.0	24.8	22.6	22.0	29.3	29.7	29.0	30.5
2	26.1	22.6	17.7	10.2	20.0	24.6	22.0	23.1	28.8	30.4	26.8	30.6
3	26.1	22.4	17.9	9.7	18.1	24.4	22.1	23.1	28.9	30.8	25.9	30.9
4	25.6	22.3	15.8	10.0	16.5	23.5	22.9	21.8	29.5	30.4	26.6	30.9
5	26.5	22.7	14.9	9.8	16.3	20.8	23.5	23.3	30.3	29.8	26.9	30.7
6	27.5	22.9	14.6	10.6	15.7	17.4	23.7	24.1	30.0	29.1	27.4	30.0
7	27.9	23.1	15.1	11.2	16.6	15.7	24.4	24.5	29.4	29.5	28.1	28.8
8	26.8	23.9	16.0	12.2	17.6	15.7	25.0	24.5	29.0	29.7	29.4	28.0
9	23.2	24.1	17.4	13.3	18.6	16.0	25.7	24.5	29.7	28.8	30.0	27.5
10	20.2	24.0	18.6	11.9	19.7	18.0	25.7	24.8	30.3	28.0	29.7	27.5
11	20.9	22.6	20.0	11.9	20.7	19.2	26.1	25.0	29.7	28.4	29.8	27.8
12	21.9	21.4	21.1	13.8	21.6	20.5	26.4	24.8	29.5	28.9	30.2	27.4
13	22.7	21.4	21.9	14.8	22.2	22.1	26.7	25.1	29.5	28.6	30.8	26.6
14	23.0	21.8	22.5	15.5	22.6	22.6	27.6	26.1	29.8	28.1	31.2	25.6
15	22.9	20.4	23.2	16.7	23.0	22.5	28.2	26.5	29.5	26.1	31.0	24.7
16	22.7	19.3	23.2	17.8	23.4	23.0	27.8	26.3	29.2	27.0	30.9	24.6
17	22.7	20.6	22.6	18.7	23.5	23.3	26.5	27.1	29.2	28.2	30.6	25.6
18	23.1	21.6	18.9	19.9	22.0	22.3	23.2	27.8	28.6	28.5	30.2	26.7
19	23.3	21.8	17.4	20.8	20.6	21.1	21.2	28.2	28.8	29.1	30.3	27.3
20	24.0	21.0	14.1	20.8	20.3	21.3	21.0	28.1	29.1	29.5	31.1	27.7
21	24.0	17.6	12.1	17.2	20.5	20.1	21.8	27.9	29.0	29.0	30.7	28.2
22	23.8	15.1	11.9	14.5	20.9	18.3	22.4	28.4	29.5	28.0	29.9	28.6
23	23.5	14.6	12.4	13.4	21.4	18.7	23.4	28.5	28.8	27.1	30.1	28.6
24	23.2	15.5	13.9	12.6	21.4	19.2	24.4	28.7	28.2	26.4	30.5	28.7
25	23.2	18.2	15.1	12.8	22.1	20.9	24.7	28.2	27.4	28.5	30.3	28.5
26 27 28 29 30 31	23.5 23.4 23.0 23.2 23.5 23.4	20.4 19.8 18.6 18.1 18.0	15.6 16.1 16.7 15.8 13.5 11.2	12.8 13.3 14.4 15.7 17.1 18.7	23.3 24.1 24.8 	21.4 21.1 20.7 20.5 20.3 22.0	24.7 23.5 23.4 23.3 22.3	27.3 27.4 27.9 27.8 28.1 29.6	28.6 29.2 28.1 28.1 29.1	29.3 29.1 29.5 30.7 31.4 30.7	29.7 29.4 29.9 30.2 30.6 30.7	28.1 27.5 27.1 26.2 25.1
MEAN	23.9	20.6	16.9	14.3	20.6	20.7	24.2	26.1	29.1	29.0	29.6	27.9
MAX	27.9	24.1	23.2	20.8	24.8	24.8	28.2	29.6	30.3	31.4	31.2	30.9
MIN	20.2	14.6	11.2	9.7	15.7	15.7	21.0	21.8	27.4	26.1	25.9	24.6

CAL YR 2000 MEAN 23.4 MAX 31.2 MIN 11.2 WTR YR 2001 MEAN 23.6 MAX 31.4 MIN 9.7

65

100

28

100

442

27.6

7.0 7.5

428

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	
OCT														
10 25	0840 0828	6.55 6.02	1620 1300	280 200	.63 2.6	2.8 2.8	7.5 7.0	7.19 7.33	771 676	779 691	19.3 22.5	170 160	45 43	
NOV 07 21	0910 1003	5.22 3.80	877 527	200 240	4.3 7.1	3.3 6.5	7.3 7.4	7.29 7.39	746 923	763 946	22.5 17.2	180 210	48 58	
DEC														
06 19	1115 1250	2.66 2.21	297 177	200 160	8.0 9.4	8.4 6.9	7.4 7.8	7.51 7.39	1220 1380	1210 1380	14.8 17.9	270 300	72 78	
JAN 04	0933	1.73	147	140	7.4	9.7	7.7	7.72	1720	1720	9.3	370	95	
18	1045	1.55	87	100	4.3	5.4	7.4	7.36	1750	1750	20.5	380	99	
31	1030	1.56	131	80	.6	8.6	8.8	7.44	1990	2000	18.7	430	110	
FEB														
13	1010	1.34	106	80	1	6.4	7.5	7.40	1990	2020	22.0	450	120	
28 MAR	1050	1.16	-8.2	80	5.3	6.4	7.4	7.47	2040	1580	24.9	490	130	
MAR 15	1307	.97	77	100	8.0	6.5	7.8	7.51	2340	2400	23.3	540	140	
28	0920	1.00	44	60	3.2	7.5	8.1	7.48	3790	3310	19.6	720	170	
APR														
11	0905	1.85	146	60	4.0	6.0	7.2	7.33	2520	2530	25.8	540	140	
25	1020	1.41	133	60	8.4	5.1	7.4	7.61	2450	2450	24.3	570	150	
MAY 09	0909	1.95	149	60	6.2	6.4	7.5	7.4	3330	3360	24.1	670	159	
23	0909	1.09	79	60	6.5	5.1	7.3	7.4	3190	3180	27.9	650	160	
JUN	0015	1.05		00	0.5	3.1		7.25	3230	3100	27.5	030	100	
06	0729	1.16	-52	60	4.1	6.6	7.9	7.19	3380	3420	29.8	650	160	
20	0800	2.21	108	70	3.7	4.4	7.5	6.87	3690	3690	28.5	690	160	
JUL	0750	0.00	105		0 6	- 0			2000	2000	20.1		150	
03 18	0752 0903	2.00 5.44	185 953	60 160	8.6 4.3	5.2 1.1	7.5 6.3	7.06 6.41	3020 1140	3070 1150	30.1 27.6	600 230	150 60	
AUG	0903	3.44	955	100	4.3	1.1	0.3	0.41	1140	1150	27.0	230	60	
01	0740	5.78	1150	240	3.0	.1	6.6	6.9	1120	1140	29.0	250	66	
16	0950	6.78	1960	280	.46	.1	6.7	6.9	733	749	30.1	170	46	
28	1342	7.08	2300	320	.67	2.1	6.7	7.0	577	587	30.2	140	39	
SEP 13	0745	7.79	3850	240	.86	1.1	6.8	7.0	399	404	26.4	100	29	
26	1040	7.79 8.53	3850	240	1 2	1.1	6.8	7.0	428	442	20.4 27.6	100	28	

.86 1.1 6.8 1.2 .1 6.6

Note.--Negative figures indicate reverse flow

8.53 3920

1040

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE TOTAL (MG/L AS S) (00745)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
10 25	45 42	14 12	14 12	5.4 5.0	80 69	46 44	. 4 . 4	157 137	9.5 4.8	77 69		4 6	522 471
NOV 07	49	13	14	5.6	78	56	.6	151	6.0	65		10	510
21 DEC	59	16	17	6.4	98	63	.71	190	8.4	85	<1.0	13	626
06	74	22	23	7.0	130	66	1.1	260	9.1	130	<1.0	11	753
19 JAN	80	25	25	6.9	150	64	1.0	290	7.7	160	<1.0	18	881
04 18	94 100	32 32	32 32	7.8 7.9	190 210	72 72	1.3 1.5	370 370	5.2 2.8	200 220	<1.0 <1.0	10 6	1110 1100
31	120	37	39	8.4	230	74	1.3	430	.94	260	<1.0	12	1270
FEB 13	120	36	38	8.2	220	76	2.2	410	.94	250	<1.0	12	1350
28 MAR	130	39	41	8.6	240	81	3.8	460	1.1	270	<1.0	6	1380
15 28	140 170	45 70	46 68	9.5 16	270 500	79 72	6.0 6.6	520 930	.64 1.5	300 460	<1.0 <1.0	22 10	1580 2390
APR						· -							
11 25	140 150	46 47	46 46	10 9.5	290 280	65 76	3.6 <5.0	540 530	.72 .44	340 320	<1.0 <1.0	10 16	1630 1550
MAY 09	159	64	64	14	420	41	2.4	758	1.6	434	<1	10	2080
23 JUN	160	60	60	12	390	72	2.4	760	1.6	410	<1.0	14	2020
06	160	60	60	13	430	63	2.5	780	1.8	410	<1.0	12	2160
20 JUL	160	70	69	14	490	43	3.2	890	3.9	430	<1.0	13	2270
03 18	150 60	53 20	52 21	11 6.1	370 130	62 23	2.7	690 240	6.7 5.8	340 150	<1.0 1.8	22 9	1930 781
AUG													
01 16	66 47	20 12	20 12	5.7 5.8	120 73	58 64	.86 .66	237 154	7.4 11	119 44	2 3	5 6	789 E509cl
28 SEP	41	10	10	5.7	57	70	.53	116	14	23	4	4	427
13 26	30	7.1 7.4	7.1	4.2 4.1	38 42	E55cl 54	.36 .44	75 82	11 9.8	14 17	2 2	2 <1	E286cl E290cl
∠0		7.4		4.1	42	54	.44	62	9.8	17	۵	<1	F730CT

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

67

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT 10	.19		.21	<.02	<.02	<.01	.01	.10	.11	.11	28	30	<.1
25 NOV	.09		.09	.04	.04	.01	.02	.10	.12	.13	26	26	<.1
07 21	.11 .124		.11 .13	.08	.09	.01	.01	.12	.12	.14 .14	28 29	29 30	<.1 <.1
DEC 06	.202		.19	.40	.39	.02	.02	.06	.07	.08	26	26	<.1
19	.222		.25	.35	.37	.02	.02	.04	.06	.07	25	25	<.1
JAN 04	.294		.33	.28	.28	<.01	<.01	.02	.04	.06	25	25	<.1
18	.248		.28	.19	.22	.01	.03	<.01	.02	.05	25	26	4.7
31	.186		.22	.10	.10	.01	.01	.03	.03	.04	23	22	3.6
FEB 13	.194		.22	.08	.09	<.01	<.01	.03	.04	.03	27	26	. 1
28	.194		.22	.08	.11	.01	.02	.03	.04	<.02	27	26 24	<.1 6.6
MAR													
15	.238		.26	.12	.12	.02	.02	.03	.04	.07	23	23	9.7
28 APR	.292		.34	.20	.20	.03	.03	.01	.02	.05	21	21	8.6
11	.131		.13	.07	.08	.01	.01	.04	.04	.04	21	21	8.6
25	.098		.10	.04	.05	<.01	<.01	<.01	.02	.06	22	21	9.6
MAY 09	.21		.24	.09	.09	.02	.02	<.01	.02	.05	18	19	4.1
23	.012		.03	<.02	<.02	<.01	<.01	.02	.02	.09	24	25	17
JUN													
06 20	.012		.02	<.02 .13	<.02	<.01 .01	<.01 .01	.01	.03	.07	24 18	26 18	17 12
JUL	.310		.33	.13	.13	.01	.01	.02	.04	.07	18	18	12
03	.016		.04	<.02	<.02	<.01	<.01	<.01	.02	.12	23	23	49
18 AUG	.120		.22	.23	.23	.01	.01	.01	.02	.08	22	21	63
01	.08		. 09	<.02	<.02	<.01	<.01	.12	.13	.19	23	24	<.1
16	.07		.08	<.02	<.02	<.01	<.01	.20	.22	.28	26	26	<.1
28	.03		.05	<.02	<.02	<.01	<.01	.20	.21	.27	26	29	19
SEP 13	.13		.13	<.02	<.02	<.01	<.01	.10	.11	.09	31	33	<.1
26	.08	2.0	.09	<.02		<.01		.07	.08	.10	30		<.1

< -- Less than

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL--Continued

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)
OCT						
10 25 NOV	30 26	30 25	720 416	935 602	1400 1300	1400 1300
07 21	28 34	28 35	470 592	686 889	1400 1700	1500 1800
DEC 06 19	41 47	41 49	556 385	888 746	2200 2500	2300 2600
JAN 04 18 31	52 58 64	53 59 65	290 155 139	558 413 374	3100 3200 3800	3000 3200 3800
FEB 13 28 MAR	71 74	72 80	87 61	291 265	3900 4300	3900 4300
15 28 APR	81 96	85 96	39 47	247 194	4500 5700	4700 5800
11 25	79 90	79 90	59 37	263 305	4700 5200	4700 5200
MAY 09 23	74 93	74 92	178 65	520 378	4910 5900	4900 5700
JUN 06 20	95 85	97 85	44 234	310 543	6000 5600	6300 5600
JUL 03 18	86 30	90 36	65 399	554 932	5500 1800	5300 1900
AUG 01 16 28	44 33 28	45 34 30	916 761 461	1410 1070 763	2270 1400 1140	2320 1400 1150
SEP 13 26	21 20	22	418 343	556 596	780 790	800

02233001 ECONLOCKHATCHEE RIVER AT MAGNOLIA RANCH, NEAR BITHLO, FL

LOCATION.--Lat $28^{\circ}25^{\circ}27^{\circ}$, long $81^{\circ}07^{\circ}10^{\circ}$, in $SE^{1/4}_{4}$ sec.4, T.24 S., R.32 E., Orange County, Hydrologic Unit 03080101, near center of span on downstream side of bridge on Wewahootee Road, 250 ft downstream from Disston Canal, and 7 mi south of Bithlo.

DRAINAGE AREA.--32.9 \min^2 .

PERIOD OF RECORD.--1960, 1964-67 (one discharge measurement each year), October 1972 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS. -- Records good.

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 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.6 2.5 6.3 9.9	e4.0 e8.0 e13 e24 23
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	25 37 35 30 26	20 19 27 49 60
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 3.6	24 20 18 16 13	56 53 59 107 146
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	7.9 7.2 5.2 7.1	11 9.2 9.9 14 11	155 149 139 127 116
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	12 13 19 14 9.8	8.5 6.8 5.2 4.0 2.8	105 105 141 141 130
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	7.1 6.5 5.8 4.5 3.2 2.7	e2.4 e2.2 e2.0 e1.9 e1.8 e2.2	118 108 98 92 89
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	155.60 5.02 19 .00 .15 .18	378.2 12.2 37 1.8 .37 .43	2481.0 82.7 155 4.0 2.51 2.81
							BY WATER		15.0	07.6	42.0	56.3
MEAN MAX (WY) MIN (WY)	45.1 223 2000 .000 1981	21.1 123 1988 .000 2001	20.2 198 1998 .000 2001	22.8 103 1998 .000 2001	21.6 122 1998 .000 2001	22.1 124 1998 .000 1975	17.5 91.7 1983 .000 1975	4.06 23.7 1982 .000 1975	17.9 181 1982 .000 1977	27.6 109 1991 .000 1981	43.0 162 1992 .000 1981	56.3 168 1979 .000 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1973	3 - 2001
LOWEST	MEAN ANNUAL M ANNUAL ME	AN		341.67 .93			3014.80 8.26			26.6 55.7	١	1998 1981
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCREDS			.02	Mar 1		155 .00 .00 156 61.96 .25 3.41	Sep 16 Many day Oct 1 Sep 16 Sep 16	ys	471 .00 .00 474 63.4 .83	Jun) Mos) Ma Jun 4 Dec 1	21 1982 st years any days 21 1982 14 1997	
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				3.5 .00 .00			18 .00 .00			79 7.3 .00)	

e Estimated

02233200 LITTLE ECONLOCKHATCHEE RIVER NEAR UNION PARK, FL

LOCATION.--Lat 28°31'29", long 81°14'39", in SW 4 sec.32, T.22 S., R.31 E., Orange County, Hydrologic Unit 03080101, near right bank at Berry-Deese Road, 3,300 ft upstream from a tributary, 3 mi south of Union Park, 8.5 mi east of Orlando, and 13 mi upstream from mouth.

DRAINAGE AREA. -- 27.1 mi².

PERIOD OF RECORD. -- October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 56.19 ft above sea level. Prior to Jan. 12, 1960, and Oct. 21, 1972 to Nov. 14, 1983, nonrecording gage at same site and datum.

REMARKS.--Records good.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26 22 26 66 58	23 27 28 27 26	9.6 9.3 9.0 8.9	9.1 8.8 8.6 8.4 9.0	18 12 11 9.7 9.9	6.4 6.2 5.8 7.7	30 20 16 14 12	13 10 8.5 9.1 7.4	13 12 12 44 25	35 30 26 23 21	113 78 79 72 62	20 20 20 21 18
6 7 8 9 10	42 35 30 26 26	26 26 25 25 24	8.6 8.6 8.4 8.5 8.5	9.0 8.9 9.3 11	9.5 8.9 9.0 9.6 9.4	8.6 7.3 6.6 6.4 6.2	12 11 10 9.4 8.7	6.3 5.7 5.4 e5.3 5.2	25 36 48 29 23	21 19 28 59 59	58 50 44 44 74	27 46 45 38 34
11 12 13 14 15	25 24 22 19 18	21 17 16 19 20	8.7 14 14 12 11	10 11 10 9.2 8.7	8.6 8.4 8.5 8.1 7.9	6.1 5.9 5.7 5.8 5.9	8.1 7.5 7.1 6.8 6.4	5.1 5.0 5.0 5.1 5.0	30 31 21 17 17	48 41 39 45 111	65 53 44 39 36	30 30 39 243 312
16 17 18 19 20	17 17 16 16 16	18 13 15 12 10	10 11 11 9.9 9.4	8.8 9.3 8.7 8.2	7.7 7.6 7.0 6.7	5.7 5.3 5.3 5.8 27	6.1 6.0 5.7 5.8 5.4	4.9 4.6 4.4 4.3 4.1	15 13 13 70 51	77 62 123 433 190	36 33 31 48 41	209 145 109 85 70
21 22 23 24 25	16 16 15 15 23	15 11 20 12 15	9.1 9.1 8.9 8.6 8.4	9.7 8.8 8.4 8.5 8.4	6.6 6.4 6.2 6.3	16 10 8.5 7.2 6.6	5.2 5.1 5.1 5.1 5.0	4.0 5.4 26 10 13	54 212 128 96 93	199 189 132 98 78	34 33 29 26 25	64 92 106 95 84
26 27 28 29 30 31	26 24 23 21 20 26	15 28 25 21 12	8.3 8.2 9.6 13 11 9.7	8.0 7.7 7.4 7.3 7.4	7.3 7.7 7.0 	6.1 5.8 5.5 14 79 49	7.1 6.3 5.3 4.9 5.2	90 37 21 20 16 12	68 56 52 44 38	71 61 52 45 40 44	28 24 22 21 20 23	70 63 60 55 52
TOTAL MEAN MAX MIN CFSM IN.	772 24.9 66 15 .92 1.06	592 19.7 28 10 .73 .81	305.3 9.85 14 8.2 .36 .42	281.6 9.08 14 7.3 .34 .39	238.1 8.50 18 6.2 .31 .33	360.4 11.6 79 5.3 .43 .49	262.3 8.74 30 4.9 .32 .36	377.8 12.2 90 4.0 .45	1386 46.2 212 12 1.70 1.90	2499 80.6 433 19 2.97 3.43	1385 44.7 113 20 1.65 1.90	2302 76.7 312 18 2.83 3.16
STATIST	ICS OF MO	NTHLY ME.	AN DATA F	OR WATER Y	EARS 1960	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	34.1 114 1970 3.16 1971	23.1 151 1995 2.67 1971	19.5 155 1998 2.22 1961	22.2 82.2 1986 2.73 1968	25.1 128 1998 3.58 1968	29.2 193 1960 3.61 1961	18.1 86.5 1991 1.64 1961	10.6 71.5 1991 .69 1961	27.4 137 1968 1.14 1962	40.1 174 1991 5.29 1980	52.0 169 1995 5.94 1980	61.4 171 1960 4.12 1970
SUMMARY	STATISTI	CS	FOR	2000 CALEN	DAR YEAR	F	OR 2001 W	ATER YEAR		WATER YEA	ARS 1960	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOWEST ANNUAL MEAN HOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			5776.6 15.8 89 1.3 1.4 .58 7.93 29 13			10761.5 29.5 433 4.0 4.5 586 9.33 3.8 1.00 14.77 67 15	May 15 Jul 19 5 Jul 19 May 22		30.3 64.3 7.41 1570 .10 .20 1640 11.64 .10 1.12 15.17 68 15 3.6	Mar Jun Jun Mar Mar	1995 1971 17 1960 7 1961 3 1961 17 1960 17 1960 6 1961	

e Estimated

02233475 LITTLE ECONLOCKHATCHEE RIVER AT STATE HIGHWAY 434 NEAR OVIEDO, FL

LOCATION.--Lat $28^{\circ}37^{\circ}11^{\circ}$, long $81^{\circ}12^{\circ}29^{\circ}$, in $NW^{1/2}$, sec.34, T.21 S., R.31 E., Seminole County, Hydrologic Unit 03080101, on upstream side of bridge on State Highway 434, 3.5 mi south of Oviedo, and 3.8 mi upstream from mouth.

DRAINAGE AREA.--72.7 mi².

PERIOD OF RECORD. -- October 1996 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level. (Levels by Seminole County). REMARKS.--Records good.

	30000	DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO 8	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	105 98 90 136 213	50 50 47 50 51	41 35 35 35 33	38 35 34 29 35	65 59 50 49 50	35 28 32 35 63	171 117 91 72 66	45 45 38 37 38	47 50 51 154 134	142 133 103 85 84	217 312 338 374 342	81 68 95 78 70
6 7 8 9 10	202 166 140 119 99	50 49 47 47 48	31 34 32 32 31	34 35 39 41 41	47 40 40 40 37	49 34 31 31 24	59 58 50 48 44	33 32 26 28 24	98 139 168 178 130	75 71 88 96 153	308 265 223 195 247	101 151 283 241 189
11 12 13 14 15	89 85 78 73 67	44 42 40 40 42	34 46 50 46 40	39 39 40 37 37	39 37 37 36 37	25 25 28 34 30	43 40 38 38 37	26 26 26 26 26	112 149 127 97 103	185 157 161 143 154	306 248 203 180 149	164 140 152 561 1150
16 17 18 19 20	66 58 57 53 52	40 42 37 39 37	39 39 39 40 37	37 38 38 38 39	36 33 34 33 32	28 28 24 30 188	35 29 30 28 28	27 23 20 19 17	84 67 69 84 179	226 205 272 668 715	132 127 119 171 167	952 757 601 489 404
21 22 23 24 25	49 48 49 45 45	36 33 33 36 35	35 35 36 34 31	41 39 38 35 37	29 33 33 29 31	139 87 62 49 43	29 26 28 26 28	21 19 43 50 42	162 275 410 353 301	724 1310 1000 740 581	152 136 126 112 101	335 367 448 410 349
26 27 28 29 30 31	56 56 52 50 48 48	41 76 66 55 52	34 32 39 50 42 40	36 35 34 33 37 45	36 34 34 	40 37 33 40 197 217	35 38 29 28 25	147 166 104 88 69 53	269 212 189 168 144	481 395 316 253 211 189	98 91 80 74 69 98	288 249 222 203 192
TOTAL MEAN MAX MIN CFSM IN.	2592 83.6 213 45 1.16 1.34	1355 45.2 76 33 .63 .70	1157 37.3 50 31 .52 .60	1153 37.2 45 29 .52 .59	1090 38.9 65 29 .54 .56	1746 56.3 217 24 .78 .90	1414 47.1 171 25 .65	1384 44.6 166 17 .62 .71	4703 157 410 47 2.17 2.42	10116 326 1310 71 4.52 5.21	5760 186 374 69 2.57 2.97	9790 326 1150 68 4.52 5.04
							BY WATER					
MEAN MAX (WY) MIN (WY)	169 415 2000 64.5 1998	96.0 170 2000 45.2 2001	135 438 1998 37.3 2001	98.7 282 1998 37.2 2001	116 390 1998 38.9 2001	105 346 1998 28.7 1999	49.0 85.7 1998 29.7 1999	40.8 49.7 1999 21.3 2000	124 263 1999 33.5 1998	212 355 1997 80.0 2000	187 318 1997 76.6 2000	228 350 1999 98.1 1997
SUMMARY	STATISTI	ics	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1996	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			21187 57.9 252 14 17 .80 10.92 106 47 23			1310 17 21 1480 36.49 14 1.60 21.77 267 49	Jul 22 May 20 May 16 Jul 22 Jul 22 May 20		130 201 101 1310 11 16 1480 a36.49 10 1.80 24.49 341 64 29	Apr 1 Apr 1 Jul 2	1998 2000 22 2001 16 1999 11 1999 22 2001 16 1999	

a Dec 27, 1997, July 22, 2001.

02233500 ECONLOCKHATCHEE RIVER NEAR CHULUOTA, FL

LOCATION.--Lat $28^{\circ}40^{\circ}40^{\circ}$, long $81^{\circ}06^{\circ}51^{\circ}$, in SW_{4}^{1} sec.10, T.21 S., R.32 E., Seminole County, Hydrologic Unit 03080101, near right bank on downstream side of bridge on State Highway 13, 2.6 mi northeast of Chuluota, and 10 mi upstream from mouth.

DRAINAGE AREA.--241 mi².

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for October 1935, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 2.14 ft above sea level (U.S. Army Corps of Engineers bench mark). Nov. 6, 1935, to May 17, 1939, and June 17, 1969, to July 21, 1971, nonrecording gage at same site and datum. Since Sept. 3, 1943, water-stage recorder for St. Johns River above Lake Harney near Geneva (station 02234000) used as auxiliary gage for this station.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Records include some flow diverted from Lake Mary Jane in the Kissimmee River Basin through Disston Canal.

		DISCHAR	GE, CUBIC	FEET PER	SECOND, W	NATER YEA MEAN VAI	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	262 240 205 218 288	60 61 59 58 60	67 60 56 54 53	55 53 51 49 47	59 70 67 62 63	47 47 44 46 52	222 180 135 107 91	40 49 52 49 46	68 64 63 93 164	209 192 167 135 113	414 465 582 685 847	224 228 262 332 307
6 7 8 9 10	426 537 489 e380 e290	61 62 61 60	52 51 51 50 49	49 48 49 52 53	62 60 56 54 54	64 59 50 47 46	82 75 70 64 61	44 41 39 35 35	181 162 221 259 250	104 100 101 108 126	1130 1290 1260 1130 969	288 368 510 755 1000
11 12 13 14 15	e215 153 138 121 108	61 60 58 58 58	49 53 62 66 63	53 53 52 53 51	52 52 51 51 50	43 43 43 45 48	57 55 52 50 50	33 34 34 34 34	195 176 188 164 142	164 194 196 195 182	862 921 1020 1020 847	1170 1120 997 1060 2020
16 17 18 19 20	98 90 81 76 72	59 59 60 57 57	58 57 56 56 55	51 50 50 50 52	50 49 47 47 47	46 45 44 45 70	48 45 41 41 39	34 34 33 31 31	137 120 104 125 141	194 240 294 411 731	626 478 438 560 814	3910 3600 2680 1920 1400
21 22 23 24 25	69 66 64 63 60	55 53 51 51 52	53 51 51 50 49	53 55 53 52 50	46 45 47 47 45	145 130 97 78 67	39 39 37 37 36	30 32 37 47 52	180 179 243 340 353	984 1210 2130 2640 2080	965 918 821 669 496	1120 966 979 1160 1240
26 27 28 29 30 31	60 65 66 63 62 61	52 61 80 78 70	47 49 49 55 61 57	50 49 49 47 47 50	46 48 48 	61 57 55 53 80 183	38 41 41 37 37	70 131 147 114 95 80	325 290 253 245 227	1510 1180 898 664 512 421	401 365 324 280 239 211	1090 925 803 703 631
TOTAL MEAN MAX MIN CFSM IN.	5186 167 537 60 .69	1792 59.7 80 51 .25	1690 54.5 67 47 .23 .26	1576 50.8 55 47 .21	1475 52.7 70 45 .22 .23	1980 63.9 183 43 .27	1947 64.9 222 36 .27	1597 51.5 147 30 .21 .25	5652 188 353 63 .78 .87	18385 593 2640 100 2.46 2.84	22047 711 1290 211 2.95 3.40	33768 1126 3910 224 4.67 5.21
							BY WATER					
MEAN MAX (WY) MIN (WY)	434 1668 1957 46.5 1943	185 1189 1995 12.5 1943	147 1324 1998 20.4 1943	182 948 1986 18.6 1939	192 1018 1998 18.9 1939	239 1901 1960 12.6 1939	161 962 1987 12.4 1945	70.2 379 1991 9.18 1945	210 1510 1968 14.1 1948	381 2082 1960 20.7 1937	477 1253 1992 31.9 1950	615 2182 1960 51.6 1938
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1936	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES)			32744 89.5 537 33 35			97095 266 3910 30 32 4080 13.92 1.10	Sep 16 May 21 May 16 Sep 16 Sep 16		275 742 78.6 10100 *6.7 11000 18.69	Jun Mar Mar	1960 1971 18 1960 10 1945 18 1960 18 1960	
ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				5.05 152 64 39			14.99 876 62 44			15.50 687 111 33		

e Estimated * June 11-13,15, 1945

02234000 ST. JOHNS RIVER ABOVE LAKE HARNEY, NEAR GENEVA, FL

LOCATION.--Lat $28^{\circ}42^{\circ}50^{\circ}$, long $81^{\circ}02^{\circ}08^{\circ}$, in NE $\frac{1}{4}$ sec.32, T.20 S., R.33 E., Seminole County, Hydrologic Unit 03080101, near center of channel on downstream side of bridge on State Highway 46, 0.9 mi downstream from Econlockhatchee River, 1 mi upstream from Lake Harney, 5.5 mi southeast of Geneva, and 190 mi upstream from mouth.

DRAINAGE AREA. -- 2,043 mi².

PERIOD OF RECORD.--July 1941 to September 1981 (gage heights and miscellaneous discharge measurements only). October 1981 to current year.

REVISED RECORDS.--WRD FL 66-1: Drainage area.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Prior to Sept. 3, 1943, nonrecording gage, and Sept.3, 1943 to Oct. 8, 1959, water-stage recorder at site 50 ft downstream at same datum.

REMARKS.--Records fair except those below 200 ft^3/s , which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1924 reached a stage of 10.1 ft, from floodmark.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE	EAR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1060 1090 1170 1360 1460	1590 1550 1520 1480 1440	530 515 394 481 435	417 403 443 377 327	301 345 367 318 293	94 88 31 52 24	616 769 623 507 500	312 259 274 345 393	123 158 158 124 167	471 476 446 372 404	1650 1690 1770 1830 2280	2260 2390 2610 2710 2830
6 7 8 9 10	1530 1610 1690 1740 1790	1400 1340 1290 1230 1190	347 283 284 237 236	319 329 256 268 403	250 231 210 171 161	127 180 161 62 90	422 333 300 290 322	405 409 361 313 273	171 194 271 298 378	330 339 402 501 495	3040 3550 3840 3660 3620	2730 2680 3050 3430 3750
11 12 13 14 15	1850 1880 1910 1930 1940	1130 1060 1010 963 894	243 273 288 302 336	320 217 370 310 289	215 222 209 144 116	56 10 -25 38 5.8	240 227 194 267 227	259 237 224 208 175	311 280 303 324 317	555 579 656 814 1060	3760 3490 3370 3270 3120	4450 4930 5120 6050 5380
16 17 18 19 20	1940 1940 1920 1900 1870	770 692 741 592 679	288 159 402 322 404	237 278 255 193 184	111 139 243 192 96	5.2 128 162 223 118	254 205 331 244 175	152 168 169 155 141	324 327 377 386 374	1020 1110 1140 1190 1570	2790 2610 2580 2900 2970	7710 8280 7570 7120 6980
21 22 23 24 25	1850 1820 1780 1750 1730	647 659 596 478 427	405 366 356 355 408	360 350 380 409 301	93 96 141 144 68	35 198 301 243 168	179 188 167 178 145	121 104 171 218 212	381 379 451 567 608	1950 2130 2670 3230 3560	3070 3250 3050 2850 2630	6400 6180 6450 6560 6370
26 27 28 29 30 31	1720 1700 1680 1660 1640 1620	466 520 524 581 530	301 235 158 270 248 369	295 259 248 250 131 189	78 123 69 	228 255 260 135 238 504	230 213 137 228 227	162 153 220 226 220 263	629 598 504 500 470	3560 3230 2820 2270 1940 1740	2540 2540 2460 2340 2300 2390	6210 6360 6220 6000 6580
TOTAL MEAN MAX MIN CFSM IN.	52530 1695 1940 1060 .83 .96	27989 933 1590 427 .46 .51	10230 330 530 158 .16 .19	9367 302 443 131 .15	184 367 68 .09	4195.0 135 504 -25 .07	8938 298 769 137 .15	7302 236 409 104 .12 .13	10452 348 629 123 .17 .19	43030 1388 3560 330 .68 .78	87210 2813 3840 1650 1.38 1.59	155360 5179 8280 2260 2.53 2.83
MEAN MAX (WY) MIN (WY)	3186 7088 1995 315 1982	2644 7703 1995 531 1982	2167 7738 1995 260 1982	R WATER Y 1804 5642 1995 302 1982	EARS 1982 1485 5371 1998 168 1982	1375 5868 1998 135 2001	1459 4332 1983 87.6 2000	770 2306 1998 24.5 2000	1006 3738 1982 1.06 2000	1506 6207 1982 117 2000	2104 6815 1982 212 2000	2802 5918 1995 439 1990
SUMMAR	Y STATIST	ICS	FOR 2	000 CALEN	DAR YEAR	F	FOR 2001 WAT	ER YEAR		WATER YE	ARS 1982	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN	MEAN F ANNUAL M ANNUAL M F DAILY ME DAILY ME SEVEN-DA M PEAK FLO	EAN EAN AN Y MINIMUM OW		190387.77 520 2170 -77 -43	Jan 1 Apr 25		421749.0 1155 8280 -25 26	Sep 17 Mar 13 Mar 10		1860 3784 858 9880 -77 -43 13800	Apr May Oct	1995 1999 22 1994 25 2000 31 2000 7 1953
MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				.25 3.47 1540 278 18			8.65 .57 7.68 3090 386 143	Sep 22		10.62 .91 12.37 4760 1230 265		13 1953

^{*} Measured

02234000 ST. JOHNS RIVER ABOVE LAKE HARNEY, NEAR GENEVA, FL--Continued

GAGE	HEIGHT,	FEET,	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
			DA:	LLY M	EAN VALUE	ES			

					DAIL	I MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.34 2.38 2.47 2.70 2.83	3.02 2.98 2.94 2.90 2.86	1.55 1.47 1.42 1.41 1.46	1.08 1.03 .98 .92 .84	.48 .45 .42 .39	.38 .36 .33 .33	1.28 1.28 1.20 1.13 1.05	.35 .41 .47 .54	. 49 . 48 . 45 . 44 . 40	.79 .79 .76 .72 .69	3.44 3.52 3.61 3.70 3.86	4.86 4.85 4.87 4.86 4.89
6 7 8 9 10	2.91 3.01 3.11 3.17 3.22	2.81 2.74 2.68 2.61 2.55	1.51 1.53 1.52 1.48 1.43	.77 .70 .61 .61	.36 .32 .28 .23	.50 .43 .35 .26	.95 .87 .80 .74 .69	.64 .68 .72 .77	. 40 . 43 . 44 . 45 . 44	.67 .65 .63 .63	4.12 4.36 4.51 4.61 4.75	4.93 5.05 5.16 5.25 5.38
11 12 13 14 15	3.29 3.33 3.37 3.39 3.40	2.49 2.41 2.35 2.29 2.23	1.38 1.38 1.36 1.33 1.30	.51 .47 .51 .51	.22 .22 .25 .29	.29 .36 .45 .54	.61 .55 .49 .48	.90 .88 .84 .79	. 42 . 40 . 40 . 39 . 37	.68 .72 .75 .92 1.03	4.91 4.94 4.96 4.97 4.98	5.54 5.72 5.99 6.48 7.03
16 17 18 19 20	3.40 3.40 3.38 3.36 3.33	2.17 2.12 2.08 2.03 2.00	1.26 1.28 1.26 1.21 1.18	.59 .60 .59 .56	.29 .29 .29 .24 .23	.55 .50 .43 .48	.51 .50 .53 .50	.66 .64 .62 .62	.37 .40 .45 .46	1.06 1.18 1.36 1.55 1.79	4.99 4.95 4.96 5.10 5.13	7.53 8.01 8.34 8.50 8.58
21 22 23 24 25	3.30 3.27 3.23 3.19 3.17	1.97 1.94 1.90 1.85 1.80	1.10 1.02 .94 .91 .89	.66 .65 .72 .70	.26 .28 .30 .26	1.01 1.18 1.22 1.19 1.15	.41 .36 .30 .25	.59 .57 .60 .57	.54 .58 .61 .66	2.07 2.32 2.64 2.97 3.23	5.16 5.19 5.20 5.17 5.13	8.61 8.61 8.58 8.53 8.49
26 27 28 29 30 31	3.16 3.14 3.12 3.10 3.08 3.06	1.78 1.80 1.76 1.71 1.64	.89 .93 .97 1.06 1.10	.71 .69 .66 .60 .54	.31 .34 .35 	1.11 1.06 .98 .93 1.09	.37 .34 .33 .28 .26	.58 .57 .58 .58 .57	.66 .65 .68 .70 .76	3.40 3.48 3.48 3.44 3.38 3.37	5.07 5.02 4.98 4.93 4.88	8.45 8.40 8.33 8.30 8.30
MEAN MAX MIN	3.12 3.40 2.34	2.28 3.02 1.64	1.25 1.55 .89	.67 1.08 .47	.30 .48 .21	.67 1.22 .26	.61 1.28 .23	.63 .90 .35	.50 .76 .37	1.67 3.48 .63	4.71 5.20 3.44	6.88 8.61 4.85

CAL YR 2000 MEAN 1.41 MAX 4.45 MIN .14 WTR YR 2001 MEAN 1.95 MAX 8.61 MIN .21

02234308 HOWELL CREEK NEAR ALTAMONTE SPRINGS, FL

LOCATION.--Lat $28^{\circ}37^{\circ}56^{\circ}$, long $81^{\circ}19^{\circ}24^{\circ}$, in NW^{1}_{4} sec.28, T.21 S., R.30 E., Orange County, Hydrologic Unit 03080101, on downstream side of bridge on Lake Howell Lane approximately 0.5 mi upstream from Lake Howell and 3.1 mi southeast of Altamonte Springs.

DRAINAGE AREA. -- 20.6 mi².

PERIOD OF RECORD. -- October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. (Elevation furnished by Seminole County).

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

		DISCHAR	GE, CUBIC	FEET PER		WATER YEA	AR OCTOBER	2000 TO :	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e.57 e.59 e.35 e.20 e.20	e.10 e.10 e.10 e.10 e.10	e.10 e.09 e.09 e.09 e.09	.10 .10 .10 .10	.12 .12 .12 .12 .12	.14 .16 .12 .20	APR 4.4 .84 .44 .21 .15	.09 .08 .09 .08	.08 .07 .33 .10	.13 .11 .11 .10	1.4 3.3 3.5 1.9	.97 .69 .60 .56 8.4
6 7 8 9 10	e.41 e.32 e.24 e.18 e.14	e.10 e.10 e.10 e.11 e.10	e.09 e.09 e.09 e.09 e.09	.11 .11 .11 .11			.13 .12 .11	.08 .07 .07 .07	.35 .28 .15 .13	.10 .11 .11 .11	.84 .67 .60 5.0 6.1	32 60 87 105 89
11 12 13 14 15	e.10 e.10 e.10 e.10 e.10	e.10 e.10 e.10 e.10 e.10	e.10 e.12 e.10 e.10 e.10			.12 .12 .12 .12 .12	.10 .09 .09 .09	.07 .07 .07 .07 .06	.11 .10 .09 .10	.34 3.4 2.2	.02	77 69 75 137 158
16 17 18 19 20			e.11 e.11 e.11 e.10 e.10		.12 .12 .12 .12 .12	.12 .12 .12 1.2 .87	.09 .09 .09 .08	.06 .06 .06 .07	.10 .09 .16 .38 .24	.32 .23 13 20 4.3	.60 .56 3.1 4.2 1.2	132 115 101 90 80
21 22 23 24 25		e.11 e.11 e.10 e.10 e.10		.11 .11 .12 .11	.15 .12 .12 .12	.25 .12 .09 .09	.07 .07 .07 .07	.07 .07 .07 .07 .12	.47 .69 .46 .24	37 79 68 31 14	.72 .62 .56 .52 .43	70 69 64 59 52
28 29	e.10 e.10 e.10 e.10 e.10	e.14 e.13 e.11 e.11 e.11	.10 .10 .11 .10 .10	.12 .12 .12 .12 .12 .12	.12 .27 .19 	.09 .08 .08 3.9 9.4 4.0	.09 .08 .07 .07 .09	.07 .07 .08 .08 .08	.12 .12 .11 .11 .18	7.7 5.0 2.8 1.6 .93	.41 .41 .41 .35 4.7 6.3	
TOTAL MEAN MAX MIN CFSM IN.	5.34 .17 .59 .10 .01	3.15 .11 .14 .10 .00	3.07 .099 .12 .09 .00	3.43 .11 .14 .10 .01	3.61 .13 .27 .12 .01	22.77 .73 9.4 .08 .03	.07	2.30 .074 .12 .06 .00	5.79 .19 .69 .07 .01	293.98 9.48 79 .10 .43	56.91 1.84 6.3 .35 .08	1939.22 64.6 158 .56 2.94 3.28
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	R WATER YI	EARS 1997	7 - 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	21.4 54.1 2000 .17 2001	8.50 23.5 2000 .11 2001	11.8 44.8 1998 .099 2001	7.81 34.1 1998 .11 2001	8.96 41.2 1998 .13 2001	9.70 42.7 1998 .19 1999	2.24 8.27 1998 .14 1999	.47 1.04 1997 .074 2001	1.07 2.60 1999 .066 2000	9.13 22.2 1997 .63 2000	7.54 22.6 1997 .22 1999	30.9 64.6 2001 1.09 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	F	OR 2001 WAT	TER YEAR		WATER Y	EARS 199	7 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			150.21 .41 14 e.05 e.05		-15	.06 .06 204	Jul 21 May 15-1		9.99 18.8 6.4' 159 .02 .01 204 58.92 .01 .4! 6.1: 31	Sep 2 Jun 3 Jun Jul 2 Jul 1 Jun 5	1998 2001 20 1999 7,8 1999 2 1999 21 2001 21 2001 10 1999	

e Estimated

02234324 HOWELL CREEK NEAR SLAVIA, FL

LOCATION.--Lat $28^{\circ}38^{\circ}51^{\circ}$, long $81^{\circ}15^{\circ}53^{\circ}$, in $SE^{\frac{1}{4}}_{4}$ sec.24, T.21 S., R.30 E., Seminole County, Hydrologic Unit 03080101, on right bank 75 ft upstream from box culvert on Red Bug Road, 0.2 mi east of Tuskawilla Road, 2.1 mi west of Slavia, and 4.6 mi upstream from mouth.

DRAINAGE AREA. -- 29.2 mi².

PERIOD OF RECORD.--January 1972 to September 1979, October 1980 to January 1981 (discharge measurements only), February 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark). Prior to Oct. 1, 1980, at site 170 ft downstream at same datum. Oct. 1, 1980 to Mar. 20, 1992, at site 150 ft downstream at same datum.

REMARKS.--Records fair. Some regulation by retention ponds in urban areas upstream from station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE	AR OCTOBER	2 2000 TO	SEPTEMBI	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.8 8.9 6.6 6.8 5.1	1.4 1.4 1.3 1.3	1.3 1.2 1.2 1.3	1.3 1.3 1.3 1.3	1.3 1.2 1.2 1.3 1.2	1.1 1.1 1.1 1.4 1.4	8.5 14 12 11 5.9	2.0 1.4 1.5 1.7	1.8 2.0 4.2 4.6 2.1	12 5.0 7.0 11	28 26 24 24 20	9.0 11 7.9 7.0 8.9
6 7 8 9 10	3.9 3.3 3.5 8.0 4.5	1.3 1.3 1.3 1.3	1.2 1.2 1.2 1.2 1.1	1.3 1.3 1.3 1.3	1.2 1.2 1.1 1.1	1.3 1.3 1.2 1.2	3.9 3.5 4.2 4.7 4.4	1.3 1.2 1.2 1.2	2.2 3.9 7.2 4.6 3.1	3.7 2.4 4.9 11	19 22 17 20 32	15 21 19 48 60
11 12 13 14 15	3.8 3.3 3.0 2.7 2.4	1.3 1.4 1.3 1.3	1.3 2.0 1.7 1.5	1.3 1.3 1.3 1.3	1.2 1.2 1.1 1.1	1.2 1.1 1.1 1.2 1.1	3.8 3.4 2.8 2.3 2.4	1.2 1.1 1.1 1.0 1.0	2.7 2.8 2.2 2.4 3.2	9.0 11 11 9.9	29 19 34 34 23	55 59 74 163 202
16 17 18 19 20	2.2 2.1 2.1 3.2 2.4	1.3 1.3 1.3 1.3	1.4 1.6 1.5 1.5	1.3 1.3 1.2 1.2	1.1 1.1 1.1 1.1	1.1 1.0 .95 1.8 3.4	2.1 1.6 1.4 1.2	.94 .91 .93 .83	4.3 3.5 9.1 13 9.4	11 9.4 11 31 27	22 21 22 21 14	218 199 184 149 126
21 22 23 24 25	2.2 2.1 2.0 1.8 1.8	1.4 1.4 1.4 1.3	1.5 1.4 1.4 1.3	1.3 1.3 1.2 1.2	1.1 1.1 1.1 1.1	1.9 1.5 1.4 1.3	1.1 1.1 1.0 1.0	.84 .87 1.1 1.6 2.3	7.7 9.5 13 10 9.1	167 153 153 131 98	12 10 15 14 13	110 106 101 97 90
26 27 28 29 30 31	1.8 1.7 1.6 1.5 1.4	2.2 2.6 1.8 1.6 1.5	1.3 1.3 1.4 1.5 1.4	1.2 1.2 1.1 1.1 1.0	1.1 1.1 1.1 	1.1 1.1 1.1 2.2 9.0 9.8	1.1 1.1 .99 1.0 1.3	2.7 1.7 1.5 1.7 1.8	7.2 8.3 6.2 4.6	74 58 42 48 33 30	9.6 7.3 6.4 8.7 7.7 8.9	76 63 57 51 34
TOTAL MEAN MAX MIN CFSM IN.	103.9 3.35 8.9 1.4 .11	43.4 1.45 2.6 1.3 .05	42.8 1.38 2.0 1.1 .05	38.8 1.25 1.3 1.0 .04	31.9 1.14 1.3 1.1 .04	57.85 1.87 9.8 .95 .06	104.89 3.50 14 .99 .12	41.45 1.34 2.7 .83 .05	173.9 5.80 13 1.8 .20	1208.3 39.0 167 2.4 1.33 1.54	583.6 18.8 34 6.4 .64	2420.8 80.7 218 7.0 2.76 3.08
STATIST	rics of Mo	ONTHLY MEA	N DATA FO	R WATER Y	EARS 1972	2 - 2001,	BY WATER	YEAR (WY))			
MEAN MAX (WY) MIN (WY)	34.0 86.2 2000 3.35 2001	22.2 91.5 1995 1.45 2001	20.2 71.0 1998 1.38 2001	21.8 62.2 1986 1.25 2001	20.9 61.9 1998 1.14 2001	20.5 78.8 1998 1.87 2001	19.2 74.9 1987 1.57 1999	11.8 49.5 1976 1.09 2000	21.9 83.1 1996 1.31 2000	45.1 156 1974 3.01 1998	46.8 144 1995 5.79 1999	51.3 113 1995 4.88 2000
SUMMAR	Y STATISTI	ICS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1972	2 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				Aug 3 Jun 3 May 28		679 36.29	Sep 16 May 19, May 16 Jul 21 Jul 21 May 19,	. 20	28.5 54.1 9.5; 417 .6; 679 37.9; *.6; .9; 13.2; 64 18	Jul Jun Jun Jul S Nov 4	1995 1990 26 1995 3 2000 28 2000 21 2001 25 1992	

^{*} May 29, June 2-4, 2000

02234344 HOWELL CREEK AT STATE HIGHWAY 434 NEAR OVIEDO, FL

(Formerly published as Howell Creek at State Highway 419 near Oviedo, FL)

LOCATION.--Lat $28^{\circ}41^{\circ}23^{\circ}$, long $81^{\circ}14^{\circ}52^{\circ}$, in $SE^{\frac{1}{4}}$ sec.6, T.21 S., R.30 E., Seminole County, Hydrologic Unit 03080101, on headwall upstream side of culverts on State Highway 434, 1.0 mi upstream from mouth and 2.8 mi northwest of Oviedo.

DRAINAGE AREA. -- 52.0 mi².

PERIOD OF RECORD.---May 1973 to August 1979 (discharge measurements only) June 1999 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level.

 ${\tt REMARKS.--Records\ good.\ Some\ regulation\ from\ retention\ ponds\ upstream.}$

		DISCHAR	RGE, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17 18 18 26 25	8.2 8.2 8.2 8.0 7.9	9.9 9.6 9.4 9.2	9.7 9.5 9.3 9.1 9.0	11 10 10 9.8	6.9 6.8 6.6 9.1	66 42 34 28 23	16 12 10 11 9.5	12 12 26 84 57	31 23 21 21 25	79 78 106 94 79	28 32 30 27 45
6 7 8 9 10	20 17 15 17 15	7.9 7.9 7.9 7.9 7.9	9.6 9.1 8.8 8.8	8.9 8.7 8.8 9.1 8.9	11 10 9.4 9.0 8.7	8.6 7.9 7.5 7.2 7.1	19 16 16 16 15	8.6 8.0 7.8 7.5 7.3	42 37 54 36 27	18 15 15 21 24	88 76 60 54 69	76 113 84 96 99
11 12 13 14 15	13 12 12 12 12	7.8 7.7 7.6 7.7 7.9	9.2 14 12 11	8.8 9.3 9.1 8.9 8.8	8.5 8.5 8.5 8.4 8.3	7.0 6.8 6.8 7.0 6.7	13 13 12 12 13	7.1 6.9 6.8 6.7 6.6	21 20 19 19 22	22 21 33 30 28	113 86 71 165 105	86 81 124 362 517
16 17 18 19 20	11 11 10 11 10	7.7 7.7 7.6 7.5 7.5	10 11 9.8 9.6 9.6	8.8 8.7 8.5 8.4 9.8	8.0 7.9 7.8 7.7 7.5	6.6 6.3 6.3 12 48	11 9.5 8.9 8.5 8.1	6.4 6.3 6.2 6.1 6.0	23 20 29 86 77	25 23 27 65 63	81 70 67 89 61	423 290 234 196 167
21 22 23 24 25	10 9.6 9.4 9.2 9.1	7.9	9.4 9.4 9.2 9.0 8.9	9.3 9.1 8.9 8.6 8.4	7.5 7.3 7.2 7.5 7.4	39 24 17 14 13	7.8 7.7 7.5 7.4 7.7	5.9 6.1 11 15 18	53 48 56 52 40	154 549 560 418 268	49 44 45 41 42	154 147 180 156 144
26 27 28 29 30 31	9.1 8.9 8.7 8.5 8.5	12 17 12 11 10	8.8 8.8 11 12 11	8.2 8.1 8.0 8.0 8.0	7.1 7.1 7.0 	12 11 9.9 17 63 66	12 8.3 7.6 7.3 9.6	39 28 18 15 15	30 27 29 26 26	162 124 95 89 73	40 33 29 29 27 29	128 117 108 118 103
TOTAL MEAN MAX MIN CFSM	401.4 12.9 26 8.4 .25	257.6 8.59 17 7.5 .17	306.3 9.88 14 8.8 .19	274.2 8.85 9.8 8.0 .17	239.1 8.54 11 7.0 .16	477.1 15.4 66 6.3 .30	466.9 15.6 66 7.3	346.8 11.2 39 5.9 .22	1110 37.0 86 12 .71	3116 101 560 15 1.93	2099 67.7 165 27 1.30	4465 149 517 27 2.86
							BY WATER					
MEAN MAX (WY) MIN (WY)	97.4 182 2000 12.9 2001	56.9 105 2000 8.59 2001	31.0 52.1 2000 9.88 2001	17.1 25.3 2000 8.85 2001	13.8 18.9 2000 8.54 2001	13.9 15.4 2001 12.3 2000	12.9 15.6 2001 10.3 2000	9.01 11.2 2001 6.84 2000	23.7 37.0 2001 10.4 2000	60.7 101 2001 23.3 2000	37.8 67.7 2001 21.2 1999	97.0 149 2001 16.9 2000
SUMMARY	STATIST:	ICS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1999	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL	MEAN C ANNUAL M ANNUAL M C DAILY M DAILY MEA	EAN EAN AN Y MINIMUM DW AGE DW FLOW CFSM)		5499.8 15.0 96 3.1 5.0	Jul 27 May 4 May 28		13559.4 37.1 560 5.9 6.1 639 10.26 5.6 .71	Jul 23 May 21 May 16 Jul 22 Jul 22 May 21		39.0 40.8 37.1 560 3.1 5.0 *800 10.26 2.6 .75	Jul 2 May May 2 Jun 2 Jul 2 May	2000 2001 23 2001 4 2000 28 2000 28 1974 22 2001 4 2000
	CENT EXCEI			12 7.5			11 7.5			17 7.6		

^{*} Measured

02234384 SOLDIER CREEK NEAR LONGWOOD, FL

LOCATION.--Lat $28^{\circ}43^{\circ}07^{\circ}$, long $81^{\circ}18^{\circ}32^{\circ}$, in $SW^{\frac{1}{2}}_{4}$ sec.27, T.20 S., R.30 E., Seminole County, Hydrologic Unit 03080101, on left downstream side of culvert on State Highway 419, 50 ft upstream from CSX railroad bridge, 2.5 mi northeast of Longwood, and 1.2 mi upstream from mouth.

DRAINAGE AREA. -- 21.2 mi².

PERIOD OF RECORD.--February 1972 to September 1975, October 1975 to September 1977 (discharge measurements only), October 1977 to September 1979, October 1980 to September 1986 (discharge measurements only), October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by Seminole County Engineer). Nov. 5, 1975 to July 26, 1977 and Oct. 1, 1980 to Sept. 30, 1986, nonrecording gage at same site and datum.

REMARKS.--Records good. Since about 1980, some regulation by retention ponds in headwaters.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE. MEAN VA		2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.2 4.4 6.1 7.3 5.5	1.8 1.7 1.7 1.7	.50 .49 .47 .50	.71 .71 .74 .77	.97 .91 .90 .98	1.3 1.4 1.4 2.8 2.0	3.1 2.4 2.1 2.0 1.9	1.9 1.8 1.5 1.5	.18 .21 .94 1.2 .38	3.8 2.6 2.2 2.0 2.0	8.8 11 12 16 25	30 60 37 67 106
6 7 8 9 10	4.9 4.5 4.3 4.0 3.7	1.7 1.6 1.5 1.5	.52 .53 .50 .52	.83 .74 .76 .73	1.1 1.1 1.0 1.1	1.8 1.6 1.5 1.4	1.9 1.9 2.1 1.8 1.9	1.4 1.4 1.1 1.1	7.2 6.0 3.6 2.7 2.3	1.9 9.3 5.6 20	18 13 9.6 45 32	87 99 136 97 68
11 12 13 14 15	3.5 3.2 3.0 2.9 2.7	1.5 1.4 1.4 1.4	.57 .68 .62 .62	.71 .79 .79 .78 .83	1.0 1.0 1.0 1.0	1.4 1.4 1.5 1.5	1.8 1.8 1.7 2.0 1.6	1.2 1.2 1.1 1.1 .96	2.7 3.1 1.9 1.7 2.7	6.9 4.8 4.9 8.0 8.1	20 15 15 14 11	54 46 113 246 143
16 17 18 19 20	2.5 2.4 2.3 2.2 2.2	1.3 1.3 1.3 1.3	.64 .62 .60 .62	.91 .83 .82 .80 1.0	1.3 1.4 1.4 1.3	1.5 1.3 1.2 6.6 8.6	1.4 1.3 1.3 1.2	.99 .99 1.3 1.4 1.4	2.3 2.4 3.0 4.3 5.5	4.6 3.4 38 25 14	15 12 14 11	103 87 76 66 58
21 22 23 24 25	2.1 2.1 2.1 2.0 1.9	1.2 .54 .54 .51 .50	.73 .70 .65 .65	.84 .85 .89 .85	1.4 1.3 1.3 1.2	3.2 2.4 2.2 1.9 1.8	1.1 1.1 1.2 1.1 2.1	1.2 1.4 1.2 1.3 2.2	4.2 4.3 4.8 6.4 5.2	44 44 30 20 16	11 8.6 6.4 5.6 9.4	52 49 45 39 35
26 27 28 29 30 31	1.9 1.9 1.9 1.8 1.8	1.4 .91 .67 .57 .52	.71 .75 .99 .89 .79	.88 .93 .92 .92 .95	1.3 1.3 1.4 	1.7 1.6 1.6 5.0 9.8 4.2	4.1 1.7 1.5 1.4 1.5	2.3 1.9 2.1 .86 .41	3.7 3.6 3.4 3.6 4.2	16 17 12 9.9 8.2	9.8 7.2 7.1 5.2 7.4 8.5	31 30 27 35 34
TOTAL MEAN MAX MIN CFSM IN.	98.1 3.16 7.3 1.8 .15	37.36 1.25 1.8 .50 .06	19.55 .63 .99 .47 .03	25.66 .83 1.0 .71 .04	32.46 1.16 1.4 .90 .05	78.4 2.53 9.8 1.2 .12	53.2 1.77 4.1 1.1 .08	40.82 1.32 2.3 .11 .06	97.71 3.26 7.2 .18 .15	408.2 13.2 44 1.9 .62 .72	414.6 13.4 45 5.2 .63 .73	2156 71.9 246 27 3.39 3.78
STATIST	CICS OF M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 1972	- 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	12.4 46.3 1996 1.73 1973	10.4 51.0 1995 1.25 2001	9.18 35.2 1998 .63 2001	10.9 31.5 1996 .83 2001	10.2 41.8 1998 1.13 1991	11.8 48.0 1998 1.50 2000	6.23 25.1 1996 1.30 2000	3.91 28.5 1991 .60 1990	8.03 35.3 1974 .51 1998	17.1 56.7 1978 1.94 1972	16.7 43.8 1995 1.20 1999	22.6 71.9 2001 1.32 1990
SUMMARY	STATIST	ICS	FOR	2000 CALEN	IDAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1972	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ANNUAL M DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW CFSM) INCHES) EDS EDS			Jul 25 3 Jun 6- 4 Jun 2		.11 .49 414 12.96	Sep 14 May 31 May 30 May 30 Sep 14 Sep 14 Jun 1		11.6 21.7 3.2 411 .1: .2: 605 14.4: .5: 7.4: 28 5.0 1.1	3 Nov 1 1 May 3 3 May 2 Nov 2 1 Sep 1 5 Jun 5	1995 1990 6 1994 81 2001 89 1990 85 1992 3 1973 1 2001

e Estimated

02234400 GEE CREEK NEAR LONGWOOD, FL

LOCATION.--Lat 28°42'14", long 81°17'27", in SE½ sec.38, T.20 S., R.30 E., Seminole County, Hydrologic Unit 03080101, on left bank at downstream side of box culvert on State Highway 419, 700 ft upstream from CSX railroad bridge, 1.0 mi upstream from mouth, and 3.5 mi east of Longwood.

DRAINAGE AREA. -- 12.8 mi².

PERIOD OF RECORD.--February 1972 to September 1979, October 1980 to July 1985 (discharge measurements only), August 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by Seminole County Engineer). Apr. 11, 1978 to Sept. 30, 1979 at site 400 ft upstream at same datum, Oct. 1, 1980 to Aug.11, 1985, nonrecording gage at present site and datum.

 ${\tt REMARKS.--Records} \ \ {\tt fair} \ \ {\tt except} \ \ {\tt for} \ \ {\tt periods} \ \ {\tt of} \ \ {\tt estimated} \ \ {\tt daily} \ \ {\tt discharge}, \ \ {\tt which} \ \ {\tt are} \ \ {\tt poor.}$

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN V		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.8 4.1 e6.1 e7.7 e6.4	e1.7 e1.7 e1.7 e1.7 e1.6	1.6 1.5 1.5 1.4	2.5 2.5 2.5 2.5 2.5	2.8 2.7 2.3 2.2 3.2	1.3 1.2 1.2 4.4 3.0	19 e10 e7.5 e5.9 e4.9	e1.9 e1.9 e1.9 e1.6	e1.0 e1.1 e5.1 e6.5 3.5	5.5 4.1 3.3 2.6 2.2	e6.4 e8.2 e8.8 e12 e18	e19 e37 e32 e45 e67
6 7 8 9 10				2.5 2.5 2.6 2.7 2.6						2.0 1.9 2.1 3.8 3.8	e16 e12 e9.0 e22 e24	e65 e77 e92 e88 e72
12 13 14 15				2.6 3.2 2.9 2.9 2.6					3.7 2.7 2.0 1.9 4.6	4.2 e5.6		e56 e50 e94 e162 e135
16 17 18 19 20	e2.4 e2.2 e2.1 e2.0 e1.9	1.1 1.2 1.2 1.2	1.7 1.9 2.0 2.1 2.1	2.5 2.5 2.4 2.5 4.3	1.9 1.9 1.9 1.8	1.4 1.3 1.3 7.2 8.9	e1.9 e1.8 e1.7 e1.4 e1.3	e.90 e.90 e.70 e.62 e.54	3.6 3.7 5.4 4.6 3.2	7.0 4.5 3.2 43 18	e12 e12 e15 e12 e11	e109 e88 e69 54 46
21 22 23 24 25	e1.9 e1.9 e1.9 e1.8 e1.8			3.4 2.8 2.7 2.5 2.2								46 44 38 33 29
26 27 28 29 30 31	e1.8 e1.8 e1.7 e1.7 e1.7	5.2 3.7 2.2 2.0 1.8	2.0 2.0 3.7 3.5 2.8 2.6	2.1 1.9 1.6 1.6 1.7 2.7	1.5 1.4 1.6 	1.8 2.6 2.0 9.5 18 21	e4.9 e2.3 e1.9 e1.5 e1.5	e.60 e.60 e2.4 e2.7 e1.8 e1.0	3.9 3.2 2.9 3.4 6.9	15 10 8.5 6.7 e5.6 e7.1	e8.6 e6.5 e6.0 e3.2 e6.1 e6.6	25 23 21 31 31
TOTAL MEAN MAX MIN CFSM IN.	99.2 3.20 7.7 1.7 .25	49.1 1.64 5.2 1.1 .13	60.8 1.96 3.7 1.3 .15	79.0 2.55 4.3 1.6 .20	57.6 2.06 3.2 1.4 .16	117.9 3.80 21 1.2 .30 .34	109.55 3.65 19 .90 .29	35.60 1.15 2.7 .40 .09	167.6 5.59 19 1.0 .44 .49	120	24 3.2	
STATIST	ICS OF MO	ONTHLY MEA	N DATA FO	OR WATER YE	EARS 1972	- 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	17.6 47.4 1976 2.05 1991	14.1 67.1 1995 1.64 2001	11.4 43.3 1995 1.83 1991	13.5 34.8 1986 1.85 1991	12.0 62.2 1998 1.83 1991	13.6 57.1 1998 1.42 2000	8.97 41.3 1991 1.43 1990	5.63 35.6 1991 .85 2000	13.2 47.9 1996 1.09 1998	23.5 103 1978 1.88 1998	23.4 72.6 1995 2.01 1999	29.7 64.4 1979 1.58 1990
SUMMARY	STATIST	ICS	FOR 2	2000 CALENI	DAR YEAR	F	FOR 2001 W	ATER YEAR		WATER YE	EARS 1972	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL ANNUAL 10 PERC	MEAN ANNUAL MANNUAL MANNUAL ME DAILY MEA SEVEN-DAY PEAK FLC PEAK STA RUNOFF (CAUNOFF	EAN EAN AN MINIMUM AGE CFSM) ENCHES)		1341.58 3.67 45 e.35 .37 .29 3.90 6.8	Jul 26 Jun 6∹ Jun 3	8	.7: 9.8! 21	Sep 14 0 May 22 1 May 20		e.35 .37 459 16.16 1.22 16.61	Nov 2 5 Jun 6- 7 Jun Jul 2 5 Jul 2	1985 1990 16 1994 -8 2000 3 2000 25 1995 25 1995
	ENT EXCER			2.0 .75			2.5 1.2			8.1 2.0		

e Estimated

02234435 LAKE JESUP OUTLET NEAR SANFORD, FL

LOCATION.--Lat $28^{\circ}47^{\circ}09$ ", long $81^{\circ}10^{\circ}50$ ", in NW^{1}_{4} sec.1, T.20 S., R.31 E., Seminole County, Hydrologic Unit 03080101, on left bank of outlet at State Highway 46 and 5.4 mi east of Sanford.

DRAINAGE AREA.--156 mi².

PERIOD OF RECORD.--August 1941 to July 1948; (gage heights and discharge measurements only) January 1993 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level (U. S. Coast and Geodetic Survey bench mark). August 1941 to April 1943, nonrecording gage and September 1943 to July 1948, water-stage recorder at same site and datum, operated as daily stage for station 02234434, Lake Jesup near Sanford.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor.

		DISCHA	ARGE, CUBI	IC FEET PER		WATER YI MEAN VA	EAR OCTOBER	2000 TC) SEPTEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-678	73	375	334	74	-162	311	-355	182	-33	-149	-198
2	-623	145	295	232	110	189	46	-251	-39	-72	-26	-63
3	-287	164	-367	310	117	396	391	-174	365	60	214	23
4	-121	256	-407	326	144	287	98	-331	523	180	79	-85
5	-41	144	-321	538	107	-114	134	-138	380	105	-273	-66
6	-21	299	-192	186	87	-333	237	-214	442	127	-244	-57
7	-161	212	107	347	52	34	58	-226	599	152	-591	-30
8	-451	234	168	352	122	76	110	-400	412	191	-729	194
9	-564	242	286	-249	174	84	142	-326	142	280	-699	348
10	-233	75	188	145	60	-568	103	-182	139	62	-670	84
11	-227	1.2	317	257	-160	-110	261	69	-75	90	-791	-111
12	-220	198	95	189	-152	39	159	147	237	142	-707	-406
13	-300	200	138	-444	-189	-105	38	204	-154	-122	-599	-220
14	-170	-17	113	-96	105	-397	-67	129	-111	-677	-294	-332
15	-13	-276	-10	-155	159	591	256	300	2.9	-687	-41	e-1590
16	7.0	168	419	-51	232	190	-250	54	-63	-598	39	e-2190
17	34	67	7.4	37	-11	-129	-116	19	82	-490	179	e-2910
18	72	-24	125	219	-382	-156	-561	-187	-68	-52	-44	e-2940
19	69	184	357	312	60	-292	-103	-220	-297	-145	-247	e-2800
20	-17	-360	176	-62	15	-128	198	-15	-184	2.6	-205	e-2350
21	11	-258	417	-417	-63	-355	78	125	-19	33	-138	-1600
22	-35	51	323	74	122	-270	117	212	138	689	-457	-1030
23	-162	273	136	-19	-301	-70	204	-74	242	1060	-429	-463
24	-142	390	-289	112	101	223	270	68	76	170	-379	-233
25	-456	450	-34	-288	81	172	-51	298	-23	87	-300	-273
26 27 28 29 30 31	-529 -363 -135 -46 -62 80	133 261 281 317 298	-72 62 185 -171 -153 -38	83 161 129 419 461 47	-197 -64 227 	95 -49 272 405 183 166	-375 81 -18 11 -52	298 227 80 170 -57 -16	-154 -233 -267 -196 -100	-201 -162 -13 .04 -23 -629	-331 80 10 -39 -178 -226	119 155 185 636 816
TOTAL	-5784.0	4181.2	2235.4	3489	630	164	1710	-766	1978.9	-473.36	-8185	-17387
MEAN	-187	139	72.1	113	22.5	5.29	57.0	-24.7	66.0	-15.3	-264	-580
MAX	80	450	419	538	232	591	391	300	599	1060	214	816
MIN	-678	-360	-407	-444	-382	-568	-561	-400	-297	-687	-791	-2940
STATIS	STICS OF N	MONTHLY ME	EAN DATA E	FOR WATER Y	EARS 1993	- 2001	, BY WATER	YEAR (WY	")			
MEAN	53.7	239	223	241	192	162	155	93.1	181	239	30.5	49.5
MAX	316	434	589	525	395	579	514	356	667	779	519	488
(WY)	1995	1996	1995	1995	1996	1998	1998	1993	1993	1993	1994	1994
MIN	-442	125	-131	-59.4	-62.0	5.29	-89.6	-37.2	-24.5	-24.0	-264	-580
(WY)	2000	1998	1998	1993	1999	2001	1999	1999	1999	1997	2001	2001
SUMMAR	RY STATIST	rics	FOR	2000 CALEN	DAR YEAR	I	FOR 2001 WA	TER YEAR	2	WATER Y	EARS 1993	3 - 2001
ANNUAL HIGHES LOWEST ANNUAL MAXIMU 10 PER 50 PER	ST ANNUAL F ANNUAL M ST DAILY M F DAILY MI	MEAN MEAN EAN AY MINIMUN FAGE EEDS EEDS	1	28189.92 77.0 914 -678 -384 384 70 -277	Jan 23 Oct 1 Mar 20		-18206.86 -49.9 1060 e-2940 e-2340 6.22 298 11 -398	Jul 23 Sep 18 Sep 15	3	155 *398 -49.9 1890 e-2940 e-2340 7.30 500 179 -220	Sep Sep	1994 2001 26 1995 18 2001 15 2001 24 1994

e Estimated

^{*} Highest annual mean based on partial water year record

02234500 ST. JOHNS RIVER NEAR SANFORD, FL

LOCATION.--Lat $28^{\circ}50^{\circ}16^{\circ}$, long $81^{\circ}19^{\circ}28^{\circ}$, in SW^{1}_{4} sec.16, T.19 S., R.30 E., Seminole County, Hydrologic Unit 03080101, near center of channel on bridge pile under U.S. Highway 17 and 92, at outlet of Lake Monroe, 4 mi northwest of Sanford, and 161 mi upstream from mouth.

DRAINAGE AREA.--2,582 mi².

PERIOD OF RECORD.--August 1941 to June 1956 (discharge measurement only), October 1964 to September 1968 (gage heights and miscellaneous discharge measurements only), May 1987 to September 1989, March 1995 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is .09 ft below sea level. REMARKS.--Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since at least 1871, 13.37 ft in the fall of 1880, from information by Fred T. Williams, former city engineer for Sanford. Since July 1941: Maximum daily gage height, 8.59 ft, Oct. 5-17, 1953; minimum daily, -0.43 ft, Apr. 5, 1945 (published as elevations for Lake Monroe near Sanford).

		DISCHA	RGE, CUBIO	C FEET P		WATER YE MEAN VA	EAR OCTOBER ALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	-840 -322 511 756 1290	1830 1950 1940 2030 2010	1480 1500 301 -912 -552	1240 1300 1160 1050 1260	1050 758 735 342 341	-14 296 723 968 -134	487 785 870 699 599	-748 -509 -457 -329 -291	264 107 609 1210 1320	577 792 1090 939 728	2450 2320 2400 2400 2520	3920 3800 3760 3600 3730
6 7 8 9 10	1490 1560 1420 -27 622	1990 2010 2090 1980 1860	296 712 1060 1390 1260	1270 1330 1210 89 734	708 812 880 925 596	-619 -47 358 80 -583	485 415 475 346 174	-136 -332 -842 -939 -269	1230 1340 1110 468 446	941 1170 853 826 587	2580 2670 2650 2570 2730	3500 3480 3850 4070 4040
11 12 13 14 15	1160 1630 1650 1660 1870	1650 1620 1580 1460 923	1230 962 1020 1090 1050	947 593 -232 -141 -41	432 22 -25 440 766	-822 -138 -338 123 840	670 352 -112 -201 133	365 611 504 845 640	534 834 303 402 527	617 836 885 101 -46	3020 3340 3440 3590 3530	4170 4140 4180 3800 2370
16 17 18 19 20	1920 2010 1960 2170 2000	1420 1480 1330 1390 193	1350 671 938 1270 866	440 764 1010 1030 191	963 631 55 258 109	701 601 -242 -681 -1310	-746 -674 -1350 -100 314	208 -195 -582 -359 183	281 410 329 -54 164	276 446 394 545 1040	3710 3690 3700 3740 3780	2930 3840 4810 5710 6840
21 22 23 24 25	2030 1910 1810 1520 1180	246 1000 1400 1730 1830	1380 1340 973 -20 36	198 567 -546 206 -506	243 563 90 641 232	-1370 -383 585 821 711	308 272 228 211 -174	421 592 422 183 567	232 278 743 745 662	1200 1270 1570 1920 2130	3740 3670 3640 3590 3490	7280 7760 8110 8300 8480
26 27 28 29 30 31	1030 989 1540 1710 1670 1770	1420 1500 1620 1500 1510	-128 500 782 -71 -216 584	484 686 947 1260 1360 1130	-143 618 154 	464 330 675 614 507 479	-854 -161 -230 45 -620	528 214 234 542 254 207	788 185 -92 247 283	2130 2310 2460 2510 2310 2650	3420 3680 3730 3650 3640 3810	8570 8530 8630 8450 8350
TOTAL MEAN MAX MIN CFSM IN.	41649 1344 2170 -840 .52 .60	46492 1550 2090 193 .60 .67	22142 714 1500 -912 .28 .32	677 1360 -546 .26 .30	13173.78 470 1050 -143 .18 .19	3195 103 968 -1370 .04 .05	2646 88.2 870 -1350 .03 .04	1532 49.4 845 -939 .02 .02	15905 530 1340 -92 .21 .23	36057 1163 2650 -46 .45 .52	100890 3255 3810 2320 1.26 1.45	163000 5433 8630 2370 2.10 2.35
							, BY WATER Y					
MEAN MAX (WY) MIN (WY)	3425 7102 1996 1344 2001	3434 7981 2000 1550 2001	2634 4908 2000 714 2001	2554 7189 1998 457 1997	1995 6278 1998 214 1999	1929 8408 1998 -26.0 1997	1588 5599 1998 -383 1997	1056 3016 1998 -244 1997	831 1865 1996 381 2000	1178 2483 1996 212 2000	1663 3965 1997 192 2000	2509 5710 1995 517 2000
SUMMAR	Y STATIST	ICS	FOR 2	2000 CAL	ENDAR YEAR	F	FOR 2001 WAS	TER YEAR		WATER Y	EARS 198	7 - 2001
LOWEST HIGHES		EAN EAN		277722. 759 3940 -1210	Jan 1 Sep 10		467671.78 1281 8630 -1370	Sep 28 Mar 21		2003 3509 951 9020 -1860		1998 1999 11 1998 6 1997
ANNUAL		Y MINIMUM		-781	Mar 20		-475	May 3		-1380 *17500	May	25 1997 14 1953
MAXIMUI ANNUAL ANNUAL 10 PERO 50 PERO	M PEAK ST RUNOFF (RUNOFF (CENT EXCE CENT EXCE CENT EXCE	AGE CFSM) INCHES) EDS EDS		4. 1900 648 -348	29 00		5.84 .50 6.74 3640 792 -182	Sep 25		10.5 4730 1460 56	78	

^{*} Measured

Note. -- Negative figures indicate reverse flow

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

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

					Dill.	I PILIZZEN VII	БОДО					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.20 2.34 2.44 2.47 2.48	2.46 2.42 2.38 2.33 2.28	1.44 1.39 1.37 1.52 1.71	1.20 1.09 1.02 .95 .89	.62 .56 .53 .53	.61 .62 .59 .52	1.21 1.21 1.13 1.05 1.00	.73 .80 .84 .90	.72 .70 .68 .68	1.00 .98 .93 .88 .87	2.10 2.13 2.17 2.19 2.25	2.74 2.75 2.72 2.70 2.76
6 7 8 9 10	2.45 2.41 2.36 2.35 2.48	2.24 2.21 2.19 2.14 2.06	1.77 1.76 1.73 1.69 1.62	.82 .75 .68 .62	.58 .57 .56 .55	.36 .41 .46 .50	1.00 .99 .96 .91 .85	.94 .97 1.08 1.19 1.25	.61 .61 .58 .55	.82 .77 .71 .70	2.31 2.33 2.36 2.39 2.45	2.82 2.94 3.00 3.08 3.14
11 12 13 14 15	2.52 2.53 2.53 2.52 2.51	2.01 1.99 1.98 1.96 1.97	1.58 1.59 1.57 1.54 1.52	.67 .63 .70 .79	.48 .52 .59 .63	.74 .85 .90 .94 .85	.79 .72 .68 .66	1.23 1.17 1.09 1.04 .98	.60 .56 .54 .53	.70 .68 .66 .77	2.50 2.53 2.54 2.53 2.52	3.18 3.23 3.33 3.78 4.22
16 17 18 19 20	2.49 2.47 2.44 2.41 2.38	1.97 1.93 1.91 1.88 1.89	1.48 1.36 1.33 1.21 1.14	.91 .90 .88 .84	.55 .48 .48 .58	.75 .64 .63 .88 1.23	.61 .64 .77 .83	.93 .89 .93 .99	.51 .52 .57 .67	1.10 1.24 1.34 1.48 1.47	2.52 2.54 2.56 2.61 2.65	4.65 4.94 5.15 5.34 5.49
21 22 23 24 25	2.37 2.36 2.36 2.37 2.43	1.93 1.96 1.92 1.87 1.77	1.09 1.01 .97 1.00 1.08	.83 .76 .78 .89	.62 .58 .56 .66	1.34 1.42 1.39 1.35 1.29	.72 .67 .60 .53	.95 .89 .87 .88	.76 .76 .75 .74	1.53 1.76 1.93 2.00 1.99	2.67 2.70 2.71 2.72 2.72	5.61 5.72 5.79 5.82 5.83
26 27 28 29 30 31	2.48 2.51 2.53 2.52 2.51 2.49	1.73 1.73 1.66 1.58 1.51	1.19 1.24 1.21 1.21 1.24 1.26	.96 .94 .90 .85 .76	.66 .66 .61 	1.24 1.21 1.20 1.22 1.30 1.27	.57 .66 .66 .64	.88 .84 .81 .77 .73	.76 .81 .86 .93 .98	2.00 2.00 1.99 1.96 1.92 2.08	2.72 2.72 2.72 2.70 2.69 2.73	5.83 5.82 5.80 5.78 5.76
MEAN MAX MIN	2.44 2.53 2.20	2.00 2.46 1.51	1.38 1.77 .97	.84 1.20 .62	.57 .66 .48	.89 1.42 .36	.79 1.21 .47	.94 1.25 .73	.67 .98 .51	1.29 2.08 .66	2.52 2.73 2.10	4.32 5.83 2.70

CAL YR 2000 MEAN 1.37 MAX 3.06 MIN .37 WTR YR 2001 MEAN 1.56 MAX 5.83 MIN .36

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1941-56, 1962, 1965-71, 1974, 2000 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: July 2000 to current year. WATER TEMPERATURE: July 2000 to current year.

 ${\tt INSTRUMENTATION.--Water-quality} \ {\tt monitor} \ {\tt and} \ {\tt data-collection} \ {\tt platform}.$

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 2,620 μS/cm @ 25 °C, July 8, 2001; minimum daily mean, 453 μS/cm @ 25 °C, Sept. 28, 29, 2001.

WATER TEMPERATURE: Maximum daily mean, 33.8 °C, Aug. 11, 2000; minimum daily mean, 9.0 °C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR . --

WATER TEMPERATURE: Maximum daily mean, 2,620 μ S/cm @ 25 °C, July 8; minimum daily mean, 453 μ S/cm @ 25 °C, Sept. 28, 29. WATER TEMPERATURE: Maximum daily mean, 32.5 °C, July 4; minimum daily mean, 9.0 °C, Jan. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	1620	1390	1420	1590	1700	1710	1920	2130	2350	2160	1010
2	1670	1640	1370	1470	1590	1710	1730	1560	2150	2400	2100	983
3	1630	1600	1380	1500	1600	1810	1720	1250	2180	2530	2010	981
4	1730	1620	1320	1520	1610	1850	1710	1150	2220	2520	1800	973
5	1820	1580	1260	1530	1620	1840	1710	1110	2200	2520	1690	932
6	1810	1590	1320	1550	1640	1840	1720	1090	2180	2550	1830	915
7	1840	1560	1310	1520	1650	1840	1730	1040	2160	2580	1800	897
8	1830	1530	1320	1530	1670	1850	1740	1040	2170	2620	1800	898
9	1860	1480	1360	1530	1710	1860	1760	1270	2170	2600	1640	906
10	1850	1420	1400	1530	1730	1750	1770	1510	2200	2460	1600	901
11	1850	1400	1410	1540	1760	1110	1780	1480	2190	2580	1490	876
12	1850	1400	1410	1540	1770	1190	1780	1480	2170	2570	1520	802
13	1830	1390	1410	1540	1750	1330	1790	1600	2170	2580	1480	776
14	1810	1400	1410	1490	1660	1400	1810	1750	2200	2530	1430	749
15	1820	1410	1410	1290	1750	1420	1830	1830	2230	2430	1370	735
16	1830	1380	1420	1250	1780	1690	1840	1880	2240	2200	1280	687
17	1820	1390	1420	1400	1810	1870	1840	1910	2260	1840	1270	716
18	1800	1440	1420	1500	1800	1860	1460	1890	2260	2090	1210	719
19	1790	1460	1420	1580	1790	1820	1310	1860	2280	1990	1160	687
20	1790	1460	1430	1600	1770	1290	1570	1850	2210	2220	1170	649
21	1780	1470	1450	1560	1710	1300	1830	1910	2190	2280	1210	598
22	1770	1470	1460	1580	1780	1290	1900	1990	2190	2140	1190	557
23	1770	1420	1450	1530	1790	1440	1920	2030	2190	2290	1150	521
24	1770	1360	1450	1460	1750	1590	1930	2040	2220	2310	1100	490
25	1790	1360	1450	1380	1760	1680	1950	2050	2250	2370	1070	472
26 27 28 29 30 31	1770 1780 1770 1690 1680 1730	1370 1400 1400 1380 1390	1410 1340 1430 1420 1300 1270	1260 1440 1520 1560 1590 1600	1670 1650 1770 	1720 1720 1730 1730 1710 1720	1950 1950 1950 1980 1990	2060 2060 2060 2060 2080 2110	2310 2370 2360 2350 2320	2370 2350 2330 2370 2340 2240	1040 1030 1020 1010 1020 1010	477 464 453 453 454
MEAN	1780	1460	1390	1490	1710	1630	1790	1710	2220	2370	1410	724
MAX	1860	1640	1460	1600	1810	1870	1990	2110	2370	2620	2160	1010
MIN	1630	1360	1260	1250	1590	1110	1310	1040	2130	1840	1010	453

CAL YR 2000 MEAN 1510 MAX 1860 MIN 1150 WTR YR 2001 MEAN 1640 MAX 2620 MIN 453

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					Dilli.	L PILLET VILL	БОББ					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.8	23.7	17.6	10.8	17.5	25.7	20.9	25.7	30.0	31.0	29.5	30.3
2	28.3	23.7	18.0	10.1	17.2	25.6	21.1	24.7	30.0	31.2	28.2	30.1
3	27.3	23.5	17.5	9.7	16.2	24.7	21.9	23.8	29.8	31.9	27.3	30.4
4	26.4	23.7	16.8	9.4	16.1	23.5	22.2	23.8	29.9	32.5	27.7	30.9
5	26.9	23.3	16.3	9.0	16.9	22.6	22.6	24.2	30.7	31.9	27.8	30.4
6	27.9	23.7	16.6	9.8	17.1	22.0	23.2	24.7	30.1	30.3	28.4	30.2
7	27.5	23.9	16.9	10.2	17.3	20.6	24.5	24.9	29.5	30.7	29.7	29.7
8	27.0	23.9	16.7	11.1	18.2	18.6	26.1	24.6	29.2	30.5	31.2	29.7
9	25.8	23.5	17.4	12.8	19.3	17.9	26.3	24.5	30.0	29.6	30.7	29.3
10	23.0	23.6	18.1	12.7	20.0	18.6	26.5	25.0	30.6	29.6	29.9	28.9
11	21.4	22.8	19.4	12.2	20.8	18.7	26.8	25.8	31.1	29.3	29.9	28.7
12	21.4	22.3	19.9	12.9	22.0	19.9	26.8	26.7	30.2	29.1	30.4	28.0
13	21.7	22.1	20.5	13.3	22.4	21.1	27.4	26.7	30.4	28.6	31.6	27.0
14	22.0	21.7	20.8	14.4	22.5	22.0	28.4	27.5	30.2	29.3	30.8	25.6
15	22.4	20.6	21.8	15.6	23.0	22.0	27.8	28.0	30.2	30.1	30.3	24.8
16	22.7	20.5	22.2	17.2	23.4	22.3	28.8	28.6	30.6	29.8	30.3	24.7
17	23.1	20.4	22.2	19.2	22.5	22.5	28.3	29.4	30.7	29.8	30.4	25.7
18	23.2	20.3	19.7	20.0	21.8	23.3	25.4	29.6	31.4	29.9	30.4	26.8
19	23.8	20.6	17.1	19.9	21.5	22.4	24.5	30.2	32.0	30.2	29.9	27.0
20	24.1	20.7	14.8	18.9	21.7	21.1	23.8	29.8	32.0	29.6	29.9	26.4
21	24.2	19.2	12.9	17.6	22.6	20.2	23.4	29.6	32.3	29.4	30.3	27.3
22	24.0	17.6	12.9	16.6	22.7	19.3	24.0	29.3	32.1	29.4	30.6	27.5
23	23.7	16.1	12.8	17.4	22.8	19.1	24.8	29.4	29.9	29.0	30.8	27.9
24	23.6	16.0	13.2	17.0	22.8	20.2	26.2	30.1	28.8	28.3	30.6	27.9
25	23.4	17.3	13.5	17.1	22.7	20.7	26.7	29.1	28.6	29.1	30.5	27.4
26 27 28 29 30 31	23.6 23.4 23.5 23.8 24.0 24.2	17.7 17.4 17.4 16.8 16.8	13.8 14.5 15.3 16.3 16.0 14.3	16.2 15.9 15.1 15.0 15.6 17.0	24.2 24.7 25.3 	20.7 20.9 20.6 20.6 20.3 21.0	27.2 26.7 26.6 24.9 24.9	29.3 30.3 29.9 28.7 29.8 30.9	29.8 30.8 31.1 31.0 31.1	29.1 29.4 30.3 31.6 31.5 30.1	30.4 30.3 30.5 30.6 30.9 30.5	27.4 27.1 27.1 26.2 25.2
MEAN	24.4	20.7	17.0	14.5	20.9	21.2	25.3	27.6	30.5	30.1	30.0	27.9
MAX	28.8	23.9	22.2	20.0	25.3	25.7	28.8	30.9	32.3	32.5	31.6	30.9
MIN	21.4	16.0	12.8	9.0	16.1	17.9	20.9	23.8	28.6	28.3	27.3	24.7

CAL YR 2000 MEAN 25.4 MAX 33.8 MIN 12.8 WTR YR 2001 MEAN 24.2 MAX 32.5 MIN 9.0

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT	1120	0.54	1510	50	4.0	9.0	8.1	7.22	1850	1880	01 5	280	61
11	1130 1037	2.54 2.43	1960	50 80	6.8	6.7	7.8	7.28	1770	1820	21.5 23.4	310	61 69
NOV 06 20 DEC	1325 1321	2.26 1.87	2350 -735	120 140	2.9 2.1	8.0 7.0	8.0 7.8	7.18 7.26	1590 1420	1580 1460	24.5 20.8	270 260	63 61
05 20 JAN	1220 1000	1.72 1.15	-1780 -167	120 140	2.8 2.9	7.3 7.6	7.7 8.0	7.48 7.31	1240 1420	1240 1430	16.1 15.1	250 250	59 59
03 17 FEB	1243 1300	1.02 .90	545 1040	140 80	4.9 3.5	10.8 13	8.2 8.2	7.74 7.46	1500 1360	1490 1340	10.1 20.0	270 260	63 63
12 27 MAR	1403 1530	.49 .67	131 815	80 80	1.1 4.5	9.4 10.6	8.3 7.5	7.2 7.30	1740 1680	1760 1700	23.3 26.1	310 300	72 71
13 27 APR	1340 1520	.97 1.20	38 39	30 60	5.8 6.3	6.6 10.9	7.7 8.8	7.55 7.24	1310 1690	1330 1700	20.8 21.9	260 280	65 67
10 26 MAY	1315 1130	.84 .56	236 -1180	60 60	6.9 7.8	8.0 5.4	8.7 7.8	7.64 7.57	1780 1920	1780 1920	27.7 27.3	310 340	71 78
08 22 JUN	1212 1100	1.15 .87	-612 203	20 50	5.9 10	8.4 8.1	8.1 8.7	8.0 7.24	1050 1960	1070 1970	24.5 29.1	240 350	61 80
05 19 JUL	1228 1045	.62 .67	681 588	40 40	15 8.2	10.4 5.0	9.2 8.8	7.21 6.87	2190 2260	2220 2290	31.1 32.3	360 380	82 86
02 17 31 AUG	1238 1150 1227	1.00 1.18 2.14	914 39 2360	40 20 40	8.1 45 7.2	8.3 6.2 8.1	9.3 8.2 8.8	7.39 7.10 6.8	2350 1910 2140	2380 1810 2160	31.7 29.5 29.8	390 360 350	89 86 80
15 30 SEP	1020 1126	2.51 2.68	3560 3610	140 280	.95 2.8	3.0 3.0	7.1 7.0	7.0 7.0	1350 1000	1390 1010	30.0 30.6	230 180	53 42
12 25	1000 1300	3.21 5.82	3920 8280	240 320	3.2 2.4	4.7 1.7	7.3 6.8	7.2 7.5	795 460	808 462	27.8 27.3	160 93	39 24

Note. -- Negative figures indicate reverse flow

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE TOTAL (MG/L AS S) (00745)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
11 24 NOV	62 68	31 32	31 31	10 10	250 230	51 48	1.4 1.2	455 435	4.7 6.0	133 157		17 21	1060 1080
06 20 DEC	65 62	28 26	28 26	9.4 8.8	210 180	48 51	1.2 1.2	370 330	6.6 7.4	150 130	 <1.0	12 8	968 884
05 20	61 62	24 24	24 24	6.8 8.2	140 180	71 60	1.2 1.3	270 320	7.1 6.5	110 120	<1.0 <1.0	6 10	738 864
JAN 03 17	62 64	26 25	26 25	8.7 7.3	180 170	65 76	1.1 1.0	350 300	5.4 3.3	120 120	<1.0 <1.0	12 9	941 795
FEB 12 27	72 71	30 30	31 32	9.3 9.1	220 220	73 80	1.7 3.0	407 380	.15 .57	140 140	<1 <1.0	18 13	1110 1000
MAR 13 27	66 69	24 28	25 30	6.0 8.9	150 210	105 78	3.7 8.0	280 390	4.3	100 140	<1.0 <1.0	15 23	782 1010
APR 10 26	73 77	31 34	31 33	9.4 9.6	220 240	77 76	8.3 <5.0	410 460	1.1	140 160	<1.0 <1.0	20 24	1090 1140
MAY 08 22	61 79	21 35	21 34	4.4 10	110 240	108 84	.68 1.6	207 460	5.4 3.1	94 170	<1 <1.0	12 36	615 1160
JUN 05 19	85 84	38 40	39 39	11 11	300 290	79 72	1.7	510 540	3.5 5.8	180 190	<1.0 <1.0	110 55	1280 1340
JUL													
02 17 31	87 86 81	39 34 37	39 36 38	12 9.2 11	300 240 290	75 68 49	2.0 1.6 2.0	560 440 517	8.7 9.3 8.7	200 190 200	<1.0 <1.0 <1	38 140 48	1400 1140 1320
AUG													
15 30 SEP	53 44	24 17	24 18	8.8 6.9	170 120	46 53	1.2 1.0	316 229	7.9 9.6	116 64	1 3	18 6	850 666
12 25	40	14 7.9	14	6.1 4.3	90 50	61 42	.88 .50	177 97	12 9.3	37 19	2 <1	7 3	E516cl E306cl

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

AS N) AS P) AS P) AS P) AS C) AS C) (1 (00608) (00625) (00610) (00631) (00630) (00613) (00615) (00671) (70507) (00665) (00681) (00680) (70	38 41
OCT	
	41
	41
NOV	
	30
2017823 .14 .14 .02 .02 <.01 <.01 .06 25 25 DEC	22
0509010 .28 .28 .01 .01 .03 .04 .04 17 18	8.9
	25
JAN	
	28
	39
FEB	26
	36
2701612 <.02 <.02 <.01 <.01 <.01 .01 <.08 19 19 MAR	79
	21
	64
APR	
1001202 <.02 <.02 <.01 <.01 .03 .03 .07 18 19	9.2
26 <.010 <.01 <.02 <.02 <.01 <.01 <.01 <.01 .09 19 21	
MAY	
	33
22 <.010 <.01 <.02 <.02 <.01 <.01 <.01 .01 .10 16 16	59
	L20
	L20
JUL 102 102 102 102 102 102 102 102 102 102	
0203204 <.02 <.02 <.01 <.01 .01 .03 .07 18 20	77
	60
	93
AUG	60
	68 21
302931 .21 .21 .20 .21 .16 .16 .22 23 24 .	4 1
123332 .25 .27 .19 .21 .21 .22 .24 31 33	<.1
2515 1.9 .15 .140415 .16 .18 32	<.1

< -- Less than

ST. JOHNS RIVER ABOVE OCKLAWAHA RIVER

02234500 ST. JOHNS RIVER NEAR SANFORD, FL--Continued

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)
OCT						
11 24 NOV	42 41	42 42	13 73	105 245	1800 2000	1800 2000
06 20 DEC	38 35	38 35	129 151	230 243	1900 1800	1900 1800
05 20	26 33	26 35	107 142	169 229	1500 1700	1500 1700
JAN 03 17	33 29	34 30	113 66	177 133	1700 1500	1700 1500
FEB 12 27	39 37	40 38	35 25	146 119	1900 1900	1900 1900
MAR 13 27 APR	22 34	23 36	12 9.1	120 116	1300 1700	1300 1800
10 26 MAY	39 44	40 44	11 14	124 192	1800 2000	1800 2000
08 22 JUN	18 42	19 43	5.3 5.6	94 207	1020 2000	1020 2000
05 19 JUL	45 44	51 51	5.4 4.4	776 264	2200 2300	2300 2200
02 17 31	43 31 39	46 49 47	3.1 13 8.2	89 1200 190	2400 2000 2260	2300 2100 2290
AUG 15 30	27 22	33 24	170 390	325 506	1470 1160	1470 1180
SEP 12 25	23 16	28	426 427	598 611	990 600	1040

02234600 WEKIVA SPRINGS NEAR APOPKA, FL

LOCATION.--Lat $28^{\circ}42^{\circ}43^{\circ}$, long $81^{\circ}27^{\circ}36^{\circ}$, in $NE^{1/2}_{4}$ sec.36, T.20 S., R.28 E., Orange County, Hydrologic Unit 03080101, at head of Wekiva River, 4.1 mi northeast of Apopka and 14 mi upstream from the mouth of Wekiva River.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--March 1932 to September 1999 (periodic discharge measurements only), October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records good except for periods of estimated daily discharge, which are poor.

EXTREMES FOR PERIOD MARCH 1932 TO SEPTEMBER 1999.--Maximum discharge measured, 91.7 ft³/s, Oct. 17, 1960; minimum measured, 51.6 ft³/s, May 25, 1990.

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 2 3 4 5	60 60 61 63 63	55 55 55 55 54	54 54 54 54 53	52 51 51 51 51	54 55 55 55 55	55 54 54 54 56	57 56 54 53 52	49 48 48 48	49 49 48 49	53 53 53 52 51	57 58 61 60	49 47 50 48 52	
6 7 8 9 10	62 61 60 60 59	54 54 54 54 54	54 53 53 53 52	50 51 51 51 52	55 55 55 55 55	56 55 54 54 53	52 52 52 51 51	48 47 47 47 47	52 52 52 51 50	51 52 52 52 52 53	62 59 58 58 60	52 57 e62 e62 e59	
11 12 13 14 15	59 58 58 58 57	54 54 53 53 53	53 54 54 53 53	51 51 51 52 52	55 55 54 55 55	53 52 52 52 53	51 51 51 50 50	47 47 47 47 47	50 51 51 52 54	52 52 53 54 54	67 63 61 60 59	e57 e52 e60 e70 e95	
16 17 18 19 20	57 57 57 57 57	53 53 53 53 53	53 53 53 53 53	52 52 52 52 52	54 55 55 55 54	52 53 52 52 55	50 50 49 49 49	47 47 47 46 46	54 51 52 53 53	53 53 55 59 57	58 58 59 63 65	e77 e59 e59 e59 e59	
21 22 23 24 25	57 56 56 56 56	53 53 53 53 53	e53 e51 51 51	53 53 53 53 53	54 55 55 55 55	58 55 53 53 52	49 48 48 48	47 47 47 46 47	52 52 53 53 54	58 69 68 65 62	87 81 71 63 58	53 48 45 42 41	
26 27 28 29 30 31	56 56 56 56 56	55 56 55 54 54	51 51 51 52 52 52	53 54 54 54 53 54	55 55 55 	51 51 51 50 53 60	49 48 48 48 48	49 48 47 47 47	54 53 53 54 54	60 59 57 57 56 56	55 53 51 50 48 49	40 40 40 41 42	
TOTAL MEAN MAX MIN	1800 58.1 63 55	1615 53.8 56 53	1632 52.6 54 51	1615 52.1 54 50	1535 54.8 55 54	1658 53.5 60 50	1512 50.4 57 48	1465 47.3 49 46	1554 51.8 54 48	1731 55.8 69 51	1872 60.4 87 48	1617 53.9 95 40	
STATIST	ICS OF MC	NTHLY MEAN	N DATA FO	R WATER Y	EARS 2000	- 2001,	BY WATER Y	YEAR (WY)					
MEAN MAX (WY) MIN (WY)	73.2 88.4 2000 58.1 2001	63.2 72.6 2000 53.8 2001	59.9 67.1 2000 52.6 2001	58.1 64.2 2000 52.1 2001	60.4 65.8 2000 54.8 2001	58.7 63.9 2000 53.5 2001	54.5 58.6 2000 50.4 2001	50.9 54.5 2000 47.3 2001	53.9 56.1 2000 51.8 2001	55.4 55.8 2001 55.0 2000	58.5 60.4 2001 56.6 2000	56.9 59.9 2000 53.9 2001	
SUMMARY STATISTICS			FOR 2000 CALENDAR YEAR			F	FOR 2001 WATER YEAR				WATER YEARS 2000 - 2001		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			21311 58.2 67 Jan 25 51 Dec 22-28 51 Dec 22 65 57 53		28	19606 53.7 e95 Sep 15 40 Sep 26-28 41 Sep 24 *13.76 Sep 20 59 53 48			58.6 63.6 2000 53.7 2001 111 Oct 9 1999 40 Sep 26-28 2001 41 Sep 24 2001 14.31 Oct 9 1999 67 56 50				

e Estimated * Stage may have been higher during period of lost record

02234610 ROCK SPRINGS NEAR APOPKA, FL

LOCATION.--Lat $28^{\circ}45^{\circ}20^{\circ}$, long $81^{\circ}29^{\circ}58^{\circ}$, in $NE^{1/4}_{4}$ sec.15, T.20 S., R.28 E., Orange County, Hydrologic Unit 03080101, on left concrete retaining wall of spring pool, 750 ft downstream of head of springs, 5.7 mi north of Apopka, FL.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--February 1931 to September 1998 (discharge measurements only), October 1998 to current year.

GAGE.--Nonrecording gage. Datum of gage is 27.54 ft above sea level (St. Johns River Water Management District bench mark). Prior to February 3, 1997, several different reference points at same location at various datums.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Discharge computed from relation between artesian pressure at OR652 well and discharge at measuring site. Artesian pressures are published as water levels for OR652 well (284634081262003) in Water Resources Data, Northeast Florida Volume 1B, Ground Water.

EXTREMES FOR PERIOD FEBRUARY 1933 TO SEPTEMBER 1998.--Maximum discharge measured, 83 $\rm ft^3/s$, Oct. 17, 1960; minimum measured, 48 $\rm ft^3/s$, May 22, 1991.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 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 2 3 4 5	43 43 42 43 43	43 43 43 43	45 45 45 45 45	44 44 44 44	45 45 45 46 46	44 43 43 43 43	43 42 43 43 42	40 40 40 40 40	38 38 38 38 38	41 41 41 41	45 46 e46 e46 e47	e48 e48 e48 e48
6 7 8 9 10	43 43 43 43	43 43 43 43	45 45 45 45	44 44 44 43	46 46 45 45	43 43 43 43	42 42 42 42	39 39 39 39 39	e39 39 40 40 40	41 40 40 41 41	e47 e47 e47 e47 e47	e47 e48 e48 e48 e48
11 12 13 14 15	43 43 43 43	43 43 43 43	45 45 45 45	44 44 44 44	45 45 45 45 45	42 42 42 42 43	42 41 41 41 41	39 39 38 38 39	40 40 40 39 39	42 42 42 42 42	e47 e47 e47 e48 e48	e47 e47 e47 e47 e47
16 17 18 19 20	43 43 43 43 42	43 43 43 43	45 45 45 45	45 45 45 45 45	45 45 44 44	42 42 42 42 43	41 41 40 40 39	39 38 37 37 37	40 40 39 40 40	42 43 43 43 44	e48 e48 e48 e48	e47 e47 e47 e47 e50
21 22 23 24 25	42 42 42 42 43	43 43 43 44 44	44 44 44 44	45 45 45 45 45	44 44 44	43 43 43 43 42	39 39 39 39 39	37 37 37 37 37	40 41 41 41 41	44 45 45 45 46	e48 e48 e48 e48	e54 55 55 55 55
26 27 28 29 30 31	43 43 43 43 43	44 45 45 45 45	45 45 45 45 45	45 45 44 45 45	44 44 44 	42 42 42 42 42 43	39 39 39 39 39	37 37 37 38 38 38	41 41 41 41 41	45 46 46 45 45	e47 e48 e47 e47 e47 e47	55 55 56 56 56
TOTAL MEAN MAX MIN	42.8 43 42	1301 43.4 45 43	1390 44.8 45 44	1378 44.5 45 43	1254 44.8 46 44	1320 42.6 44 42	1220 40.7 43 39	1185 38.2 40 37	41 38	1331 42.9 46 40	1465 47.3 48 45	1504 50.1 56 47
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	52.4 57.4 1999 42.8 2001	51.9 57.5 2000 43.4 2001	51.4 56.3 2000 44.8 2001	50.8 55.1 2000 44.5 2001	50.3 53.5 2000 44.8 2001	47.3 50.7 1999 42.6 2001	44.1 47.4 1999 40.7 2001	43.5 49.5 1999 38.2 2001	43.9 46.9 1999 39.8 2001	45.3 50.9 1999 42.0 2000	46.5 49.5 1999 42.8 2000	48.2 51.4 1999 43.1 2000
SUMMARY	STATISTI	CS	FOR 2000 CALENDAR YEAR			F	FOR 2001 WATER YEAR			WATER YEARS 1999 - 2001		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				16711 45.7 56 Jan 1 40 Jul 18-25 40 Jul 18			15869 43.5 56 Sep 28-30 37 May 18-28,31 37 May 18 30.30 Sep 29 36 May 25 47 43 39			48.0 51.4 1999 43.5 2001 *59 37 May 18-28,31 2001 37 May 18 2001 31.10 Oct 1 1998 36 May 25 2001 56 47 42		

e Estimated * Oct 1-8, 1998; Oct 17,22,23, 1999

02234635 WEKIVA RIVER NEAR APOPKA, FL

LOCATION.--Lat $28^{\circ}42^{\circ}48^{\circ}$, long $81^{\circ}26^{\circ}44^{\circ}$, in $SE^{\frac{1}{4}}$ sec.30, T.20 S., R.29 E., Seminole County, Hydrologic Unit 03080101, on downstream side of abandoned bridge located on eastern edge of Wekiva Springs State Park at Wekiva River Marina, 0.3 mi downstream from Rock Springs Run, 0.9 mi downstream from Wekiva Springs and 5.0 mi northeast of Apopka.

DRAINAGE AREA. -- 58.3 mi².

PERIOD OF RECORD. -- July 1995 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 9.92 ft above sea level (levels by St. Johns River Water Management District).

 ${\tt REMARKS.--Records\ fair.\ Flow\ includes\ large\ ground-water\ inflow.}$

		DISCHARGE	, CUBIC	FEET PER		WATER YE Y MEAN VA	EAR OCTOBER ALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	134 132 132 138 136	120 120 121 119 120	116 116 117 117 116	112 111 111 110 110	109 109 108 109 109	104 104 104 110 110	130 124 121 119 118	104 103 103 102 101	94 93 92 93 92	106 105 104 103 102	121 129 139 136 135	138 141 156 151 169
6 7 8 9 10	133 132 131 129 128	120 120 120 118 119	115 115 116 115 115	110 110 110 111 111	108 108 107 107	107 107 107 107 108	117 115 114 114 113	101 100 100 99 98	101 106 98 96 95	101 104 104 105 108	142 133 127 128 136	170 186 195 193 189
11 12 13 14 15	128 127 127 126 126	119 118 118 117 116	115 118 117 116 116	109 110 110 109 109	107 107 107 107 106	107 107 108 110 109	113 112 111 109 108	98 98 97 97 97	96 98 95 98 105	108 106 110 114 114	157 146 140 135 132	179 169 184 197 235
16 17 18 19 20	125 124 123 123 123	116 117 117 116 116	116 115 114 114 114	109 109 108 108 110	106 106 106 105 105	109 109 109 118 130	107 107 106 106 105	95 94 94 94 93	109 100 98 100	109 110 117 134 123	130 128 133 145 153	219 195 193 193 193
21 22 23 24 25	123 122 122 122 122	116 115 114 115 115	114 113 113 113 112	109 108 107 107	105 105 105 105 105	119 115 113 113 113	105 104 104 104 104	93 92 91 90 93	100 102 104 105 106	130 170 168 154 142	204 194 174 155 143	193 192 183 172 163
26 27 28 29 30 31	122 122 122 122 121 120	121 126 119 118 118	112 112 114 115 114 113	107 107 107 106 106 108	104 105 105 	112 112 112 120 146 135	106 103 102 102 103	100 93 93 93 92 92	103 103 104 103 105	135 130 124 121 118 118	140 135 131 129 130 138	159 157 155 156 157
TOTAL MEAN MAX MIN	3918 126 138 120	118 126 114	3558 115 118 112	3375 109 112 106	2982 106 109 104	3494 113 146 104	3306 110 130 102	2990 96.5 104 90	2994 99.8 109 92	3697 119 170 101	4398 142 204 121	5332 178 235 138
	ICS OF MOD	THLY MEAN	DATA FOI	R WATER YI 169	EARS 199 160	5 - 2001, 166	, BY WATER Y	YEAR (WY	140	149	160	173
MEAN MAX (WY) MIN (WY)	239 2000 126 2001	180 1996 118	188 1996 115 2001	247 1996 109 2001	216 1998 106 2001	238 1996 113 2001	249 1996 107 2000	192 1996 96.5 2001	190 1996 99.8 2001	190 1996 116 2000	244 1995 121 2000	233 1995 132 2000
SUMMARY	STATISTIC	CS	FOR 20	000 CALENI	DAR YEAR	. I	FOR 2001 WAT	TER YEAR		WATER Y	EARS 1995	- 2001
LOWEST ANIONAL ANNUAL ANIONAL ANIONA ANIO		AN AN V MINIMUM V SE V FLOW OS		44033 120 e162 100 100	Jan 1 May 3 May 2	-5,8	43588 119 235 90 92 239 4.54 89 152 113 100	Sep 15 May 24 May 19 Sep 15 Sep 15 May 24	, 25	156 205 119 *389 90 92 395 4.6 89 215 149 109	May 2 May 1 Mar 3 1 Mar 3 May 24,2	1996 2001 4 2001 9 2001 1 1996 1 1996 5 2001

^{*} Mar. 31, Apr. 1, 1996

02234990 LITTLE WEKIVA RIVER NEAR ALTAMONTE SPRINGS, FL

LOCATION.--Lat $28^{\circ}41^{\circ}13^{\circ}$, long $81^{\circ}23^{\circ}50^{\circ}$, in $SE^{1/4}_{4}$ sec.3, T.21 S., R.29 E., Seminole County, Hydrologic Unit 03080101, on left bank 50 ft downstream from bridge on State Highway 434, 200 ft upstream from Sanlando Springs outlet, 1.4 mi northeast of Post Office in Altamonte Springs, and 5.5 mi upstream from mouth.

DRAINAGE AREA. -- 90.7 mi².

PERIOD OF RECORD.--February 1972 to September 1979, February 1981 to September 1982 (gage heights and discharge measurements only), October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by Seminole County Engineer). From Feb. 11, 1981 to Nov. 28, 1985, at site 75 ft downstream at same datum.

REMARKS.--Records fair. Flow includes occasional pumpage from Cranes Roost basin.

		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 2 3 4 5	9.2 11 9.2 11 10	2.8 3.8 1.8 1.8	2.7 2.7 2.7 2.5 2.3	.54	3.7 6.4 5.7 3.0 6.7	4.7 4.6 5.1 9.6 7.1	28 28 23 17 12	5.2 4.1 4.6 3.4 4.0	6.2 5.5 5.5 5.3 9.0	7.4 10 9.9 3.8 1.7	35 44 46 44 39	40 39 34 31 27	
6 7 8 9 10	9.0 8.3 7.6 8.6 5.8	1.8 1.8 1.9 3.0	7.0 15 2.4 1.6 1.4	.55 .70 .43 .26	11 8.2 4.4 3.0 3.0	7.5 7.3 5.8 5.6 6.9	12 9.3 8.1 7.8 7.5	1.8 2.3 4.0 3.7 1.5	51 42 35 26 22	2.3 2.7 .83 3.8 7.7	38 32 25 22 42	28 87 135 155 147	
11 12 13 14 15	5.5 7.0 5.7 5.7 5.6	1.1 1.1 .96 1.0	2.6 3.7 2.7 3.0 2.7		3.7 3.9 5.1	5.8 5.7 8.0 4.9 5.4	5.9 5.8 3.8 3.2 3.1	1.5 2.1 1.0 1.1	25 24 14 11 27	1.9 .63 2.6 6.1 2.3	73 98 93 79 53	124 92 96 234 287	
16 17 18 19 20	6.1 3.8 3.5 5.2 3.3	1.7 1.0 1.0 1.0	2.6 2.8 2.4 2.2 2.1	.15 .14 .13 .50	4.3 4.9 4.5 5.0 4.9	5.8 7.3 6.4 24 21	3.2 1.9 1.9 1.2 .83	2.2 .85 .77 .64 .64	13 6.6 15 20 8.7	3.9 6.2 16 15	41 35 35 38 50	290 253 210 156 122	
21 22 23 24 25	3.2 3.0 3.3 3.2 3.4	1.0 1.0 1.0 1.1	1.7 1.5 1.1 .78 1.9	.68 1.6 2.1 3.3 1.6	5.0 5.4 5.9 5.6 5.8	14 9.9 8.7 9.8 5.8		.95 1.3 2.7 1.1 27	20 19 19 14 16	58 107 118 106 78	51 41 34 30 25	107 95 80 76 68	
26 27 28 29 30 31	2.9 2.1 2.1 2.1 2.2 2.5	7.4 3.8 3.1 3.9 3.3	.60 .66 2.9 1.8 1.7 3.3	1.6 1.3 1.3 1.7 3.2 6.6	6.1 8.8 11 	5.5 10 4.4 33 28 28	3.4 1.3 1.5 2.0 6.7	10 7.7 11 18 8.3 4.4	17 12 7.5 9.5 12	60 56 40 34 30 38	21 19 23 16 30 28	55 51 50 51 45	
TOTAL MEAN MAX MIN	171.1 5.52 11 2.1	59.55 1.99 7.4 .96	85.04 2.74 15 .60	39.89 1.29 6.6 .13	152.1 5.43 11 3.0	315.6 10.2 33 4.4	206.16 6.87 28 .62	139.55 4.50 27 .64	517.8 17.3 51 5.3	846.76 27.3 118 .63	1280 41.3 98 16	3265 109 290 27	
STATIST								YEAR (WY					
MEAN MAX (WY) MIN (WY)	38.6 123 1996 5.52 2001	27.0 160 1995 1.99 2001	23.9 129 1998 2.74 2001	27.9 79.9 1986 1.29 2001	26.9 137 1998 5.23 2000	29.7 108 1998 2.45 2000	24.3 89.8 1987 2.50 2000	17.2 57.4 1991 3.90 2000	31.7 113 1994 4.25 1998	52.7 157 1974 11.2 2000	61.0 171 1994 12.0 1999	59.7 122 1994 11.8 1997	
SUMMARY	Y STATIST	ICS	FOR	2000 CALEN	IDAR YEAR	1	FOR 2001 W	ATER YEAR		WATER YEA	ARS 1972	- 2001	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			2998.12 8.19 117 .44 .55	Sep 8		7078.5 19.4 290 .1 .354 28.2 .1 50 5.5	Sep 16 3 Jan 18 21 Jan 12 Sep 14 22 Sep 14 11 Jan 19		35.4 60.4 18.4 18.4 638 .13 .21 *1070 *30.58 .10 78 21 7.2	Nov 1 Jan 1 Jan 1 Nov 1 Nov 3 Jun	1995 1990 16 1994 18 2001 12 2001 16 1994 16 1994 3 1999		

^{*} From floodmark

02234990 LITTLE WEKIVA RIVER NEAR ALTAMONTE SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-77, 1981-83, 1984, 1993-94, 2000 to current year.

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
APR 2000 11 AUG	1000	8.9	6.6	319	17.9	100	33.0	4.90	3.80	18.0	86	30.0	.1
29	1300	5.7	6.8	279	26.7	96	31.0	4.40	3.40	15.0	80	23.0	.1
FEB 2001 14	1300	5.6	7.0	453	21.0	140	44.0	6.50	4.90	31.0	102	52.0	.2
APR 19	1300	7.8	7.2	375	19.9								
	DAT	ГЕ	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	
	11 AUG 29	9	3.7 4.4	20.0	190 176	.62	.130	6.9 9.8	60 110	<1.00 <2.00	11.0 10.0	97.0 94.0	
		2001	3.6	30.0	273	1.5	.270	5.7	40	<2.00	25.0	120	

02234998 LITTLE WEKIVA RIVER NEAR LONGWOOD, FL

LOCATION.--Lat $28^{\circ}42^{\circ}12^{\circ}$, long $81^{\circ}23^{\circ}32^{\circ}$, in $SW^{1/2}_{4}$ sec.35, T.20 S., R.29 E., Seminole County, Hydrologic Unit 03080101, on downstream side of bridge on Springs Landing Road, 0.4 mi west of Markham Woods Road, 1.0 mi north of State Highway 434, 3.1 mi west of Longwood, and 4.6 mi upstream from mouth.

DRAINAGE AREA. -- 94.1 mi².

PERIOD OF RECORD. -- June 1995 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (levels by Seminole County Engineer).

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

90 PERCENT EXCEEDS

e Estimated

^{*} Jun 3, Nov 25, Dec 27, 2000

022349993 WEKIVA RIVER AT OLD R.R. CROSSING NEAR SANFORD, FL

LOCATION.--Lat $28^{\circ}47^{\circ}33^{\circ}$, long $81^{\circ}24^{\circ}49^{\circ}$, in $SE^{1/4}_{4}$ sec.33, T.19 S., R.29 E., Lake County, Hydrologic Unit 03080101, near right bank, 40 ft upstream from abandoned railroad crossing, 0.4 mi west of Markham Woods Road, 2.5 mi downstream from Little Wekiva River, 8.3 mi upstream from mouth, and 8.5 mi southwest of Sanford.

DRAINAGE AREA. -- 185 mi².

PERIOD OF RECORD. -- July 1995 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 6.75 ft above sea level (Seminole County bench mark). REMARKS.--Records good. Flow includes large ground-water inflow.

		DISCHAR	GE, CUBIC	FEET PER	SECOND, W	VATER YEA MEAN VAI		2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	203 199 196 207 209	151 150 151 150 150	150 149 149 148 148	146 146 144 141	132 133 134 134 134	128 126 125 132 144	218 200 185 177 170	136 139 137 137	127 128 127 128 128	154 151 148 145 140	201 209 238 248 245	226 233 263 275 330
6 7 8 9 10	200 192 188 186 181	149 150 147 145 146	147 148 149 147 145	139 139 139 141 138	134 133 132 131 128	136 131 129 129 130	168 159 155 154 152	136 132 130 131 131	137 170 179 173 162	140 140 141 151 162	254 246 228 232 270	358 371 422 424 403
11 12 13 14 15	177 174 171 170 169	147 145 145 145 144	145 150 154 154 151	137 137 138 137 137	127 129 129 129 130	131 131 132 136 137	150 146 144 144 143	130 129 129 129 129	152 159 155 143 147	164 159 157 178 201	277 279 271 264 258	379 353 358 580 944
16 17 18 19 20	167 163 161 159 157	142 143 143 142 141	150 146 145 144 145	135 135 135 134 134	129 128 128 125 125	134 133 135 151 201	138 137 137 134 132	129 128 127 124 122	167 160 148 149 159	185 183 209 272 251	247 235 225 233 237	968 864 742 630 533
21 22 23 24 25	156 156 155 154 155	141 141 139 139 139	145 143 143 143 143	135 134 133 132 131	126 125 125 126 126	190 170 154 148 144	131 131 130 131 132	121 121 121 121 120	155 165 172 172 172	245 325 349 346 325	305 343 330 291 255	456 392 339 300 275
26 27 28 29 30 31	158 160 153 153 154 153	148 167 160 154 152	143 143 145 150 149 148	131 130 129 127 127 129	125 125 129 	141 141 141 149 222 231	143 139 137 134 131	141 136 127 128 134 129	166 159 155 150 148	300 280 257 234 213 199	235 216 203 196 190 210	257 247 241 240 240
TOTAL MEAN MAX MIN STATIST	5336 172 209 153	4406 147 167 139 NTHLY MEA	4559 147 154 143 N DATA FO	4209 136 146 127 R WATER Y	3611 129 134 125 (EARS 1995	4562 147 231 125	4482 149 218 130	4021 130 141 120 YEAR (WY)	4612 154 179 127	6504 210 349 140	7671 247 343 190	12643 421 968 226
MEAN MAX (WY) MIN (WY)	323 464 1996 172 2001	232 291 1996 147 2001	253 428 1998 147 2001	271 449 1996 136 2001	248 480 1998 129 2001	272 500 1998 147 2001	225 444 1996 149 2001	187 289 1996 130 2001	206 338 1996 141 2000	240 321 1996 154 2000	261 480 1995 162 2000	314 441 1995 197 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	IDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	EARS 1995	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC		AN AN N MINIMUM W GE W FLOW DS		293 131 135 200 160 139	Sep 23 Jul 19 Jun 2		968 120 121 997 4.98 119 270 148 129	Sep 16 May 25 May 19 Sep 15 Sep 15 May 24,	25	248 352 183 1070 120 121 1090 4.98 119 413 217 146	May : May : Apr	1996 2001 1 1996 25 2001 19 2001 1 1996 15 2001 25 2001

02235000 WEKIVA RIVER NEAR SANFORD, FL

LOCATION.--Lat 28°48'54", long 81°25'10", in SE½ sec.21, T.19 S., R.29 E., Seminole County, Hydrologic Unit 03080101, near right bank at downstream side of bridge on State Highway 46, 4.5 mi downstream from Little Wekiva River, 6.7 mi upstream from mouth, and 8.9 mi west of Sanford.

DRAINAGE AREA. -- 189 mi².

PERIOD OF RECORD.--October 1931 to September 1935 (discharge measurements only), October 1935 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 4.96 ft above sea level. Prior to Jan. 19, 1960, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow includes large ground-water inflow.

		DISCHARG	E, CUBIC	FEET PER			YEAR OCTOBER VALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	223 215 214 229 233	195 194 194 194 195	190 189 189 188 189	195 196 193 194 193	187 186 186 186 185	169 167 167 172 181	255 241 234	165 164 162 162 159	176 179 180 185 185	200 196 193 190 185	239 246 272 280 283	228 238 264 280 339
6 7 8 9 10	226 220 216 213 206	195 194 192 191 191	187 188 191 190 187	193 195 195 197 197	184 186 184 181 180	175 173 174 175 177	222 216 212	157 154 153 152 150	194 220 227 222 213	185 184 184 199 201	291 286 270 277 316	397 412 464 476 459
11 12 13 14 15	204 203 202 201 200	190 190 190 188 188	188 193 194 194 193	196 198 196 196 195	178 179 178 178 175	179 180 181 184 184	201 199 197	151 153 154 154 155	206 210 206 196 199	202 196 195 214 233	329 339 333 324 315	435 405 417 669 1020
16 17 18 19 20	199 198 197 196 197	188 188 187 187	193 190 188 190 191	193 192 190 188 188	174 172 172 171 170	183 185 185 205 246	185 181 179	156 155 155 156 156	214 209 199 198 208	218 214 244 309 288	306 297 285 295 299	1040 957 835 716 615
21 22 23 24 25	197 196 195 196 197	186 186 185 184 184	190 192 191 192 192	189 187 187 187 186	170 171 169 169 168	239 221 209 206 204	172 170 170	156 158 160 161 162	203 211 218 219 218	279 366 410 413 395	366 412 395 347 285	535 474 423 389 365
26 27 28 29 30 31	198 198 197 196 196 195	194 208 201 194 193	191 192 194 198 197 196	184 184 183 182 180 184	167 168 170 	202 201 203 208 270 282	170 166 164 162	179 177 171 175 179 179	213 206 202 198 194	362 330 302 274 251 238	243 214 200 194 191 209	341 329 318 312 311
TOTAL MEAN MAX MIN	6353 205 233 195	5733 191 208 184	5927 191 198 187	5913 191 198 180	4944 177 187 167	6087 196 282 167	197 270	4980 161 179 150	6108 204 227 176	7850 253 413 184	8938 288 412 191	14463 482 1040 228
MEAN MAX (WY) MIN (WY)	314 699 1961 200 1982	263 711 1995 182 1936	263 526 1970 177 1991	285 567 1970 169 1991	290 583 1998 164 1991	290 681 1960 165 1939	255 506 1996 165	227 324 1991 158 1939	259 514 1968 160 1950	311 654 1974 174 1950	327 578 1969 181 2000	360 1030 1960 201 1956
SUMMARY	STATISTIC	CS	FOR 2	000 CALEN	DAR YEAR		FOR 2001 WAT	TER YEAR		WATER YEA	ARS 1936	- 2001
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA 10 PERCI 50 PERCI		AN AN N MINIMUM GE W FLOW OS		72168 197 315 164 170 230 191 175	Sep 23 Aug 19 Aug 8		83207 228 1040 150 152 1070 4.33 148 326 195 169	Sep 16 May 10 May 7 Sep 15 Sep 15 May 11		287 454 203 2060 105 105 2060 6.09 410 250 194	Jun 5-1 Jun Sep 1	1960 1981 17 1945 13 1939 5 1939 17 1945 12 1960

02235000 WEKIVA RIVER NEAR SANFORD, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1932-35, 1954, 1965-71, 1973-77, 1980-84, 1993, 2000 to current year.

DATE NOV 08 JAN 19 MAY	TIME 1355 1222	GAGE HEIGHT (FEET) (00065) 2.16 2.02	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300) 11.8 11.1	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 8.3 8.3	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403) 8.3	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
10 AUG	1108	1.61	149	10	.9	10.9	8.5	8.6	493	566	25.2	170	45
15	0815	2.07	313	100	1.1	5.1	7.3	7.6	482	471	26.8	170	47
DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLIRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE TOTAL (MG/L AS S) (00745)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV 08	47	13	13	2.1	35	116	.2	63	9.0	46		3	295
JAN 19	48	13	13	2.0	32	115	.19	58	7.1	47	<1	2	284
MAY 10	45	13	13	2.1	32	115	.20	58	6.9	44	<1.0	3	276
AUG 15	48	12	12	2.4	30	95	.23	52	8.7	62	<1	8	336
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
NOV 08	.04	.04	.51	.51	<.01	<.01	.09	.09	.09	2.1	2.3	<.1	E9
JAN 19	<.01	.03	.38	.39	<.01	<.01	.09	.09	.09	2.3	1.9	<.1	9.3
MAY 10	<.010	<.01	.24	.24	<.01	<.01	.09	.09	.10	2.6	2.7	5.0	9
AUG 15	.02	.02	.27	.27	<.01	<.01	.08	.09	.10	13	13	<.1	12
		D. NO	ATE V	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)		STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)					
			08	9.4	3.7	22	480	470					
			19	9.4	4.4	23	470	460					
			10	9	3.5	13	440	440					
		AU	15	12	114	186	580	580					

< -- Less than E -- Estimated value

02235200 BLACK WATER CREEK NEAR CASSIA, FL

LOCATION.--Lat $28^{\circ}52^{\circ}28^{\circ}$, long $81^{\circ}29^{\circ}23^{\circ}$, in $SW^{1/4}_{4}$ sec.35, T.18 S., R.28 E., Lake County, Hydrologic Unit 03080101, at bridge on State Highway 44, 1.5 mi southwest of Cassia, and 13 mi upstream from mouth.

DRAINAGE AREA.--126 mi².

PERIOD OF RECORD.--Water years 1962-67, 1970-80 (annual maximum); August 1967 to September 1969; March 1981 to September 1985 (fragmentary); October 1985 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 18.55 ft above sea level (Florida Department of Transportation bench mark). Sept. 20, 1962 to Aug. 7, 1967, and Oct. 1, 1969 to Mar. 23, 1981, crest-stage gage; Aug. 7, 1967 to Sept. 30, 1969 and Mar. 23, 1981 to June 10, 1983, water-stage recorder; June 10, 1983 to June 10, 1985, nonrecording gage at site 1,000 ft upstream at same datum.

REMARKS. -- Records good.

	_	DISCHA	RGE, CUBI	C FEET PER		WATER YE	EAR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.4 9.0 8.8 10	4.7 4.6 4.5 4.5	4.4 4.2 4.2 4.1 4.1	4.7 4.6 4.5 4.5	6.1 6.5 6.6 7.0 7.8	5.5 5.4 5.4 5.5 5.7	20 18 17 17	12 12 12 12 12	8.4 7.6 7.3 7.0 6.9	7.0 6.8 6.8 6.6 6.5	22 23 24 26 34	39 38 37 36 36
6 7 8 9 10	9.8 9.4 9.0 8.4 7.8	4.3 4.3 4.2 4.1 4.1	3.9 3.9 3.8	4.3 4.4 4.5	7.6 7.4 7.2 7.1 6.9	5.7 5.5 5.3 5.2 5.1	18 18 17 17 17	12 11 11 11 10	7.4 7.1 7.6 7.8 7.3	6.4 6.3 6.3 6.6 6.4	48 56 61 61 69	43 50 46 54 68
11 12 13 14 15	7.3 7.0 6.8 6.5 6.4	4.0 4.0 3.9 3.8 3.8	4 4	4.5 4.5 4.5 4.5 4.4	6.7 6.7 6.6 6.6	5.0 4.9 4.9 5.7 6.2	16 16 16 15 16	10 9.9 9.7 9.6 9.4	7.3 7.5 7.0 6.7 6.5	6.2 6.0 6.0 6.5 6.8	81 85 81 80 77	74 81 90 202 554
16 17 18 19 20	6.1 5.9 5.8 5.7 5.6	3.8 3.8 3.7 3.7	4.6 4.6 4.5 4.5 4.4	4.4 4.4 4.4 5.0	6.4 6.3 6.2 6.1 5.9	6.2 6.1 6.0 8.4 14	16 15 15 15 14	9.1 9.0 8.8 8.7 8.5	6.3 6.1 6.2 6.4 6.4	6.6 6.3 7.5 13	73 70 68 68 70	725 776 765 725 668
21 22 23 24 25	5.5 5.4 5.2 5.2 5.2	3.5 3.4 3.4 3.4	4 0	C 1	5.8 5.9 5.9 5.9	13 12 11 11	14 13 13 13 12	8.5 8.4 8.2 8.0 8.1	6.3 6.3 6.3 6.1	9.5 11 17 17 17	68 64 60 55 52	607 558 524 471 427
26 27 28 29 30 31	5.2 5.2 5.2 5.1 5.0 4.8	3.8 4.5 4.8 4.7 4.5	4.2 4.2 4.4 4.7 4.9	5.5 5.4 5.3 5.3 5.3	5.8 5.6 5.6 	10 10 9.8 11 18 19	13 13 12 12 12	8.1 7.8 7.7 7.6 7.3 7.7	5.9 6.1 6.4 6.7 7.1	19 21 21 21 20 20	49 46 44 42 41 40	390 359 331 306 284
TOTAL MEAN MAX MIN CFSM IN.	211.7 6.83 10 4.8 .05	121.3 4.04 4.8 3.4 .03	133.9 4.32 4.9 3.8 .03	151.7 4.89 6.1 4.3 .04	180.7 6.45 7.8 5.6 .05	256.5 8.27 19 4.9 .07	458 15.3 20 12 .12 .14	295.1 9.52 12 7.3 .08	204.3 6.81 8.4 5.9 .05	334.1 10.8 21 6.0 .09	1738 56.1 85 22 .44 .51	9364 312 776 36 2.48 2.76
STATIST	rics of M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 1967	- 2001,	BY WATER					
MEAN MAX (WY) MIN (WY)	80.1 269 1969 3.15 1991	54.3 278 1995 2.28 1991	51.3 203 1995 2.28 1991	67.5 261 1998 3.94 1991	64.9 242 1998 4.68 1991	71.9 273 1998 8.27 2001	59.1 213 1987 9.52 1999	24.9 79.3 1991 4.84 2000	28.2 142 1991 2.66 2000	35.9 130 1991 4.60 2000	47.4 160 1969 5.06 1990	104 418 1968 3.31 1990
SUMMARY	Y STATIST	ICS	FOR :	2000 CALEN	DAR YEAR	F	FOR 2001 WA	TER YEAR		WATER Y	EARS 1967	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN INSTANT	MEAN F ANNUAL ANNUAL M F DAILY ME SEVEN-DA F PEAK FL F PEAK ST FANEOUS L	EAN EAN AN Y MINIMUM OW 'AGE OW FLOW			Jul 19 Jul 14		3.4 3.5 783	Sep 17 Sep 17 Nov 22	-25	57.0 118 16.4 776 2.0 2.0 783 9.9:	Sep 1 Nov 20-2 Nov 1 Sep 1 Sep	1995 1992 7 2001 4 1990 8 1990 7 2001 1 1968
ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				1.26 30 8.1 2.8			3.97 60 6.9 4.3			6.19 145 30 7.5		

02235200 BLACK WATER CREEK NEAR CASSIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-71, 1973-74, 1978-84, 2000 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 06	0820	4.45	4.2	50	2.7	5.4	7.9	480	19.5	220	66	66	14
JAN 19	1025	4.48	4.4	40	. 45	5.1	7.4	586	18.7	280	82	83	19
MAY 10			10					440		190		57	
AUG	0854	4.82		80	1.2	6.1	7.3		20.7		56		12
14	1100	6.54	80	480	1.2	1.6	5.4	720	25.3	350	105	106	21
DATE	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NOV 06	15	1.3	8.3	63	<.05	13	9.6	151	8	342	.03	.05	. 45
JAN 19	19	1	7.9	61	<.05	12	10	209	<1	450	<.01	.01	.38
MAY													
10 AUG	12	1.4	11	34	.08	18	5.9	150	<1	332	<.010	<.01	. 23
14	21	2.4	11	8.2	.07	17	11	318	6	703	.72	.71	.03
DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
NOV 06 JAN	. 45	<.01	<.01	.03	.04	.05	13	13	<.1	17	17	117	392
19 MAY	.39	<.01	<.01	.02	.02	.02	9.3	9.3	<.1	20	20	64	97
10	.23	<.01	<.01	.01	.01	.03	20	20	<.1	24	24	123	212
AUG 14	.04	<.01	<.01	.02	.02	.04	49	49	<.1	52	52	1620	2030

DATE	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	
NOV 06	1100	1100
JAN 19	1310	1330
MAY 10	760	760
AUG 14	1630	1630

02235500 BLUE SPRINGS NEAR ORANGE CITY, FL

LOCATION.--Lat $28^{\circ}56^{\circ}38^{\circ}$, long $81^{\circ}20^{\circ}24^{\circ}$, in NE $\frac{1}{4}$ sec.8, T.18 S., R.30 E., Volusia County, Hydrologic Unit 03080101, on right bank of Blue Springs Run, 800 ft upsteam from St. Johns River, 0.2 mi downstream from head of springs, and 2.5 mi west of Orange City.

DRAINAGE AREA. -- Indeterminate.

MIN

PERIOD OF RECORD. -- March 1932 to September 1998 (discharge measurements only), November 1998 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level. November 1998 to September 1999 at datum 0.74 ft lower. Prior to November 23, 1998, nonrecording gage at site 30 ft downstream at datum 0.74 ft lower.

REMARKS.--Records poor. Discharge affected by backwater from St. Johns River. Discharge record for April 1 to Sept. 30, 2001 not published due to bad velocity meter data.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY NOV DEC JAN FEB MAY AUG SEP 110 ---------___ ___ ___ ---------------------13 ------___ ___ ------------___ ___ ___ ___ ___ ___ 73 84 ___ ___ ___ ___ ___ ___ ---------------___ ___ ___ ___ ___ ___ ___ ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---___ ___ ___ ___ ___ ___ ___ TOTAL ---------------99.0 ---___ ---------MEAN 91.8 98.6 MAX ---------------

02235500 BLUE SPRINGS NEAR ORANGE CITY, FL

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1960, 1964-94, 1998 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: December 1998 to current year. WATER TEMPERATURE: December 1998 to current year.

 ${\tt INSTRUMENTATION.--Water-quality}\ {\tt monitor}\ {\tt and}\ {\tt data-collection}\ {\tt platform}.$

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 2,150 μS/cm @ 25 °C, Sept. 18, 2001; minimum daily mean, 1,040 μS/cm @ 25 °C, June 1, 1999.
WATER TEMPERATURE: Maximum daily mean, 23.5 °C, April 17, 2000; minimum daily mean, 22.5 °C, Dec. 20, 2000.

EXTREMES FOR CURRENT YEAR . --

SPECIFIC CONDUCTANCE: Maximum daily mean, 2,150 µS/cm @ 25 °C, Sept. 18; minimum daily mean, 1,700 µS/cm @ 25 °C, Sept. 30. WATER TEMPERATURE: Maximum daily mean, 23.3 °C, Aug. 8,10,11,13,14,17-20,22,23, Sept. 4; minimum daily mean, 22.5 °C, Dec. 20.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	1840 1840 1860 1870 1870	1920 1920 1920 1910 1910	1810 1800 1800 1790 1800	1790 1800 1800 1800 1810	1780 	1840 1850 1860 1850 1850	1850 1840 1840 1800 1810	1760 1740 1750 1760 1750	1790 1790 1810 1810 1800	1950 1950 1960 1950 1960	2110 2120 2120 2120 2120	2010 1990 1990 2000 2000
6 7 8 9 10	1870 1870 1880 1870 1870	1910 1900 1900 1900 1900	1810 1800 1820 1820 1820	1810 1810 1810 1800 1800	 1800	1840 1830 1850 1830 1830	1810 1800 1800 1790 1810	1750 1750 1750 1730 1730	1790 1790 1780 1790 1780	1970 1970 1980 1980 1990	2130 2130 2120 2110 2120	1990 1970 1970 1970 1960
11 12 13 14 15	1890 1900 1900 1900 1910	1900 1890 1890 1890 1890	1830 1830 1830 1840 1840	1800 1800 1800 1810 1820	1820 1830 1860	1850 1860 1870 1860 1850	1810 1840 1860 1850 1850	1740 1750 1750 1750 1730	1780 1790 1800 1820 1820	 	2110 2120 2110 2090 2100	1940 1920 1890 1900 2010
16 17 18 19 20	1910 1920 1920 1920 1930	1890 1890 1880 1880 1870	1830 1820 1810 1800 1800	1820 1800 1800 1800 1780	1870 1850 1870 1870 1840	1860 1860 1870 1850 1870	1840 1830 1820 1820 1830	1750 1820 1830 1840 1830	1820 1850 1840 1850 1870	 	2100 2080 2060 2060 2050	2130 2040 2150 1990 1930
21 22 23 24 25	1930 1930 1930 1930 1920	1870 1860 1860 1850 1850	1800 1800 1800 1810 1810	1790 1790 1790 1790 1780	1860 1860 1860 1860 1850	1870 1870 1880 1880 1870	1810 1800 1790 1780 1760	1830 1820 1810 1810 1810	1870 1870 1870 1880 1890	 	2060 2060 2060 2040 2020	1900 2000 1990 1920 1840
26 27 28 29 30 31	1930 1930 1930 1930 1940 1930	1840 1840 1830 1820 1810	1800 1810 1800 1800 1810 1810	1780 1780 1780 1790 1790 1790	1850 1850 1840 	1850 1850 1840 1850 1860 1870	1730 1770 1760 1720 1710	1820 1820 1820 1800 1800 1790	1900 1910 1920 1920 1930	 	2020 2030 2030 2010 2020 2020	1820 1790 1770 1730 1700
MEAN MAX MIN	1900 1940 1840	1880 1920 1810	1810 1840 1790	1800 1820 1780	1850 1870 1780	1860 1880 1830	1800 1860 1710	1780 1840 1730	1840 1930 1780	1970 1990 1950	2080 2130 2010	1940 2150 1700

CAL YR 2000 MEAN 1590 MAX 1940 MIN 1280 WTR YR 2001 MEAN 1870 MAX 2150 MIN 1700

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02235500 BLUE SPRINGS NEAR ORANGE CITY, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	23.1 23.1 23.1 23.1 23.1	22.9 22.9 23.0 23.0 23.0	22.8 22.9 22.8 22.7 22.7	22.6 22.6 22.6 22.6 22.6	22.9 22.8 22.7 22.8 22.8	23.0 23.0 23.0 22.9 22.7	22.9 22.9 23.0 23.0 23.0	23.0 23.0 22.9 23.0 23.0	23.1 23.2 23.2 23.2 23.2	23.2 23.2 23.2 23.2 23.1	23.1 23.2 23.2 23.2	23.2 23.2 23.2 23.3 23.2
6 7 8 9 10	23.1 23.1 23.1 22.9 22.9	23.0 23.0 23.1 23.0 23.0	22.7 22.8 22.9 23.0 23.0	22.7 22.7 22.8 22.6 22.6	22.8 22.9 22.9 23.0 23.0	22.6 22.7 22.7 22.8 22.8	23.0 23.0 23.1 23.1 23.1	23.0 23.0 23.0 23.0 23.0	23.1 23.2 23.2 23.2 23.2	23.2 23.2 23.2 23.1 23.1	23.2 23.2 23.3 23.2 23.3	23.2 23.2 23.2 23.2 23.2
11 12 13 14 15	23.0 23.0 23.0 23.0 23.0	22.9 22.9 23.0 23.0 22.8	23.0 23.0 23.0 23.0 23.0	22.8 22.8 22.8 22.9 22.9	23.0 22.9 23.0 23.0 23.0	22.9 23.0 23.0 22.9 23.0	23.1 23.1 23.1 23.1 23.1	23.0 23.1 23.1 23.1	23.2 23.2 23.2 23.2 23.2	23.2 23.2 23.2 23.1 23.1	23.3 23.2 23.3 23.3 23.2	23.2 23.2 23.1 23.1 23.1
16 17 18 19 20	23.0 23.0 23.0 23.0 23.0	22.9 23.0 22.9 23.0 22.8	23.0 22.9 22.7 22.7 22.5	22.9 22.9 23.0 23.0 22.8	23.0 22.8 22.8 22.8 22.9	23.0 23.0 22.8 22.8 22.9	23.1 23.0 22.8 22.9 22.9	23.1 23.2 23.1 23.1 23.0	23.2 23.2 23.1 23.1 23.2	23.1 23.2 	23.2 23.3 23.3 23.3 23.3	23.1 23.2 23.2 23.2 23.2
21 22 23 24 25	23.0 23.0 23.1 23.0 23.0	22.7 22.7 22.7 22.9 23.0	22.7 22.7 22.7 22.8 22.8	22.6 22.7 22.7 22.7 22.7	22.9 23.0 22.8 22.9 23.0	22.7 22.8 22.9 22.9 22.9	23.0 23.0 23.1 23.1 23.0	23.2 23.2 23.1 23.1 23.1	23.1 23.1 23.1 23.1 23.2	 	23.2 23.3 23.3 23.2 23.2	23.2 23.2 23.2 23.2 23.2
26 27 28 29 30 31	23.0 23.0 23.0 23.0 23.0 23.0	22.9 22.8 22.8 22.8 22.8	22.8 22.9 22.9 22.7 22.6 22.6	22.7 22.8 22.8 22.9 23.0 23.0	23.0 23.0 23.0 	22.9 22.8 22.9 22.9 23.0 23.0	22.9 22.9 23.0 23.0 23.0	23.1 23.1 23.1 23.1 23.2 23.2	23.2 23.1 23.1 23.1 23.1	 	23.2 23.2 23.2 23.2 23.2 23.2	23.2 23.2 23.2 23.1 23.1
MEAN MAX MIN	23.0 23.1 22.9	22.9 23.1 22.7	22.8 23.0 22.5	22.8 23.0 22.6	22.9 23.0 22.7	22.9 23.0 22.6	23.0 23.1 22.8	23.1 23.2 22.9	23.2 23.2 23.1	23.2 23.2 23.1	23.2 23.3 23.1	23.2 23.3 23.1

CAL YR 2000 MEAN 23.0 MAX 23.5 MIN 22.5 WTR YR 2001 MEAN 23.0 MAX 23.3 MIN 22.5

02235500 BLUE SPRINGS NEAR ORANGE CITY, FL--Continued

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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 16	1051	115	1.61	1910	6.4	23.1	<5	1.9	.18	<.01	<.20	.3	.080
JAN 24	1330	136	.65	1810		23.3							
MAR 19	1250	113	.58	1900		22.8	<5		.12	<.01	.43	.2	<.020
MAY 17	1037	124	.56	1760		23.8							
JUL 17 SEP	1215	132	.84	2120	6.8	23.5	<5	1.1	.12	<.01	. 25	.2	.070
04	1325	131	1.88	2110	7.4	23.4	<5	1.1	.12	<.01	<.20	.2	.050
DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	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)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 16 MAR 19	.080	300 300	69.0 69.0	30.0	260 260	9.30 9.20	142 142	73.0 71.0	480 480	<.1 <.1	8.6	1090 1060	1100 1100
JUL 17	.070	310	71.0	33.0	290	10.0	146	79.0	510	<.1	8.5	1170	1200
SEP 04	.070	320	72.0	34.0	290	11.0	147	79.0	520	<.1	8.5	1180	1150

< -- Less than

02236000 ST. JOHNS RIVER NEAR DE LAND, FL

LOCATION (REVISED).--Lat 29°00'29", long 81°22'58", in land grant 38, T.17 S., R.29 E., Lake County, Hydrologic Unit 03080101, attached to fender pilings near center of channel under Francis P. Whitehair Bridge on State Highway 44, 5 mi west of DeLand, and 142 mi upstream from mouth.

DRAINAGE AREA. -- 3,066 mi².

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only prior to February 1934, published in WSP 1304.

REVISED RECORDS.--WDR FL-75-1: Drainage area, WDR FL-96-1A: 1995.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 0.09 ft below sea level. Prior to May 28, 1936, nonrecording gage at site of former Crows Bluff Bridge about 1,000 ft downstream and May 28, 1936 to July 21, 1970, water-stage recorder at site 0.4 mi downstream at datum 1.11 ft lower. July 22, 1970 to Sept. 30, 1993, water-stage recorder at present site and datum. Oct. 1, 1993 to April 4, 2000, water-stage recorder near right bank 100 ft upstream. Oct. 1, 1959 to Sept. 30, 1975, Oct. 1, 1984 to Mar. 21,1986, June 16 to Sept. 23, 1991, and Oct. 1, 1992 to Sept. 30, 1993, water-stage recorder for St. Johns River near Sanford (station 02234500) used as auxiliary gage for this station.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

		DISCHA	RGE, CUBI	C FEET PER		, WATER LY MEAN	YEAR OCTOBER VALUES	2000 TC	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	-1680 -1340 435 1210 2030	2820	2100 1770 306 -1750 -938	1780 1700 1330 1150 1610	1380 1030 854 711 729	355 729 1160 1410 -3.2	1830	-219 79 196 416 425	856 679 991 1360 1410	860 1040 1200 1070 1050	2780 2520 2610 2620 2790	3770 3760 3750 3470 3410
6 7 8 9 10	2660 2560 2080 -284 534	2590 2820	474 926 1380 1670 1610	1570 1600 1530 286 952	883 1020 988 1200 798	-120 704 824 661 -753	1150	503 -53 -410 -533 162	1350 1510 1360 e600 e460	1280 1390 1150 1200 1030	2840 2830 2920 3000 3160	3500 3530 3610 3630 3770
11 12 13 14 15	1510 2060 2030 2200 2280	1760	1520 1220 1330 1320 1240	1120 690 -73 159 172	689 366 53 558 998	-381 270 276 494 1640	1590 1390 1210 e900 e385	831 1110 1160 1250 1070	e700 e890 e540 e650 886	1180 1180 1290 779 394	3300 3500 3660 3720 3810	3990 4160 4010 3600 969
16 17 18 19 20	2880 2970 2960 3020 2710	1640 1680 876 1550 414	1800 1070 1370 1740 1230		1310 900 87 388 489	1470 1060 466 -125 -777	-140 -71 -764 640 1120	861 709 76 277 735	819 951 654 168 484	464 1010 1300 1950 1870	3620 3510 3400 3480 3450	2410 3510 4340 5580 6750
21 22 23 24 25	2480 2490 1980 1630 1200	2700		525 811 -545 548 -37	968 320 608 593	-1150 470 1280 1340 1280	1090 879 951 1100 724	1170 1020 870 604 877	637 805 1190 1090 903	1680 1930 2250 2540 2560	3520 3540 3480 3410 3500	7490 8290 9210 9690 10200
26 27 28 29 30 31	1360 1460 2200 2490 2450 2470	1900 2210 2330 2200 2070	62 669 1070 370 -40 1030	803 984 1160 1690 2210 1610	273 862 430 	1190 910 1030 1460 1420 1690	22 513 675 802 164	909 828 946 1100 885 792	953 520 488 573 652	2610 2670 2710 2670 2600 2830	3430 3360 3420 3490 3590 3550	10500 11800 11800 11400 10800
TOTAL MEAN MAX MIN CFSM IN.	55035 1775 3020 -1680 .58 .67	61735 2058 3130 305 .67 .75	29733 959 2100 -1750 .31 .36	30011 968 2210 -545 .32 .36	20170 720 1380 53 .23 .24	20279.8 654 1690 -1150 .21	27314 910 2060 -764 .30 .33	18646 601 1250 -533 .20 .23	25129 838 1510 168 .27 .30	49737 1604 2830 394 .52 .60	101810 3284 3810 2520 1.07 1.23	176699 5890 11800 969 1.92 2.14
STATIST	rics of M	ONTHLY MEA	AN DATA F	OR WATER Y	EARS 19	34 - 200	1, BY WATER	YEAR (WY	.)			
MEAN MAX (WY) MIN (WY)	4848 15800 1954 446 1982	4353 10680 1954 251 1981	3276 8528 1995 234 1981	2773 8509 1998 763 1939	2515 7106 1998 591 1982	2559 9912 1998 256 2000	9811 1960 284	1545 5170 1983 61.6 1962	1768 7004 1934 229 1962	2905 11750 1968 316 2000	3417 10280 1960 234 2000	3983 12060 1960 405 1958
SUMMAR	Y STATIST	ICS	FOR	2000 CALEN	DAR YEA	R	FOR 2001 WA	TER YEAR	-	WATER :	YEARS 1934	- 2001
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			362720.20 991 e4290 -3260 -2130 .32 4.40 2710 892 -668	Jan Sep 1 Sep	2 0 7	616298.8 1688 11800 -1750 73 4.32 .55 7.47 3500 1200 231	Sep 27 Dec 4 May 4 Sep 19	,28	3032 6433 743 17100 -3260 -2130 6.0 13.4 6200 2420 820	Oct Sep Sep 06 Oct 99	1960 1981 15 1953 10 2000 7 2000 11 1953

e Estimated

Note.--Negative figures indicate reverse flow

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02236000 ST. JOHNS RIVER NEAR DE LAND, FL--Continued

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

					DAILY	MEAN VAL	JUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.94 2.08 2.13 2.13 2.10	1.99 1.93 1.87 1.80 1.75	.97 .94 1.06 1.33 1.46	.75 .62 .60 .54 .46	.23 .20 .18 .21 .24	.33 .34 .26 .13	.82 .75 .62 .56	.48 .54 .57 .62	.35 .34 .28 .26	.63 .60 .54 .49	1.26 1.37 1.44 1.45 1.47	1.55 1.54 1.54 1.56 1.64
6 7 8 9 10	2.02 1.95 1.89 2.04 2.15	1.71 1.69 1.67 1.59	1.47 1.43 1.37 1.29 1.23	.38 .29 .26 .31	.26 .25 .25 .23 .20	.08 .09 .14 .23 .38	.63 .65 .59 .54 .49	.64 .66 .81 .93	.17 .14 .14 .17 .20	.40 .33 .30 .31	1.52 1.52 1.54 1.56 1.57	1.70 1.79 1.87 1.93 1.96
11 12 13 14 15	2.15 2.13 2.10 2.08 2.05	1.50 1.51 1.53 1.55 1.59	1.23 1.23 1.23 1.21 1.19	.32 .32 .43 .52	.19 .24 .32 .35 .29	.55 .62 .70 .66	.41 .37 .37 .33	.88 .78 .68 .61	.23 .19 .19 .17	.31 .28 .26 .42 .66	1.58 1.50 1.43 1.38 1.33	1.98 2.00 2.12 2.67 3.66
16 17 18 19 20	2.02 1.96 1.90 1.86 1.84	1.55 1.49 1.48 1.47 1.56	1.11 1.01 .93 .76 .73	.61 .57 .53 .50	.22 .16 .20 .31	.35 .28 .34 .66	.34 .39 .59 .53 .45	.56 .54 .61 .66	.14 .14 .23 .35 .41	.76 .84 .97 1.03	1.31 1.36 1.42 1.49 1.55	4.07 4.21 4.28 4.31 4.30
21 22 23 24 25	1.86 1.86 1.89 1.97 2.07	1.61 1.59 1.47 1.36 1.26	.62 .54 .59 .69	.50 .41 .53 .59	.34 .27 .28 .36	1.21 1.13 1.03 .98 .91	.37 .32 .26 .19	.58 .51 .50 .51	.41 .40 .36 .36	1.05 1.24 1.35 1.34 1.31	1.52 1.53 1.54 1.57 1.57	4.27 4.25 4.22 4.17 4.13
26 27 28 29 30 31	2.13 2.16 2.15 2.10 2.06 2.04	1.28 1.26 1.18 1.08 1.02	.90 .94 .88 .92 .99	.64 .61 .55 .48 .37	.39 .36 .32 	.87 .86 .85 .86 .93	.30 .36 .37 .34 .37	.50 .48 .44 .40 .38	. 40 . 46 . 53 . 59 . 63	1.26 1.23 1.18 1.16 1.14 1.19	1.57 1.59 1.61 1.59 1.54 1.53	4.09 4.06 4.00 3.99 4.04
MEAN MAX MIN	2.03 2.16 1.84	1.53 1.99 1.02	1.03 1.47 .54	.48 .75 .26	.27 .39 .16	.59 1.21 .07	.44 .82 .14	.60 .94 .38	.30 .63 .14	.79 1.35 .26	1.49 1.61 1.26	3.06 4.31 1.54

CAL YR 2000 MEAN .96 MAX 2.16 MIN .07 WTR YR 2001 MEAN 1.05 MAX 4.31 MIN .07

02236000 ST. JOHNS RIVER NEAR DELAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948, 1949, 1954, 1962, 1966-95, 2000 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 2000 to September 2001. WATER TEMPERATURE: October 2000 to September 2001.

 ${\tt INSTRUMENTATION.--Water-quality} \ {\tt monitor} \ {\tt and} \ {\tt data-collection} \ {\tt platform}.$

EXTREMES FOR PERIOD OF DAILY RECORD.-- SPECIFIC CONDUCTANCE: Maximum daily mean, 2,010 μ S/cm @ 25 °C, July 10; minimum daily mean, 488 μ S/cm @ 25 °C, Sept. 30. WATER TEMPERATURE: Maximum daily mean, 30.7 °C, July 31, Aug. 14; minimum daily mean, 11.6 °C, Jan. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	 	1650 1650 1640 1590 1580	1360 1360 1370 1360 1370	1480 1180 1200 1340 1380	1420 1450 1450 1460 1470	1450 1450 1330 1160 1080	1480 1490 1500 1560 1580	1610 1550 1540 1530 1520	1590 1660 1630 1560 1640	1640 1700 1570 1260 1480	1940 1880 1840 1820 1780	1030 1020 995 995 995
6 7 8 9 10	 	1550 1550 1540 1530 1500	1360 1360 1440 1410 1310	1400 1430 1440 1450 1450	1450 1460 1410 1380 1410	1120 1110 1170 1310 1230	1590 1580 1570 1540 1530	1520 1530 1440 1350 1330	1830 1860 1890 1880 1850	1710 1810 1910 1990 2010	1630 1590 1640 1660 1590	952 918 891 892 902
11 12 13 14 15	 	1470 1430 1400 1390 1380	1310 1310 1280 1310 1320	1470 1450 1470 1480 1480	1430 1420 1440 1440 1450	1180 1210 1190 1210 1230	1550 1540 1550 1570 1580	1330 1460 1590 1450 1450	1830 1760 1690 1640 1640	1980 1960 1970 1950 1940	1490 1470 1430 1450 1420	908 897 853 770 666
16 17 18 19 20	 	1440 1400 1380 1380 1380	1340 1330 1310 1360 1330	1470 1440 1490 1450 1270	1580 1400 1310 1400 1370	1380 1260 1260 1230 1180	1600 1620 1620 1610 1620	1430 1440 1440 1440 1450	1670 1620 1630 1630 1630	1900 1790 1760 1580 1360	1380 1300 1250 1220 1170	726 674 671 671 665
21 22 23 24 25	 	1380 1400 1460 1310 1390	1390 1360 1380 1380 1350	1310 1280 1300 1300 1300	1320 1330 1460 1420 1450	1170 1190 1190 1300 1250	1620 1470 1430 1420 1500	1470 1590 1460 1350 1350	1640 1680 1700 1510 1260	1290 1330 1510 1440 1570	1140 1160 1160 1150 1120	662 652 632 603 563
26 27 28 29 30 31	1710 1690 1670 1700 1700	1380 1330 1330 1340 1360	1370 951 998 1080 1030 1330	1300 1380 1430 1190 1150 1340	1430 1420 1450 	1260 1320 1390 1440 1420 1450	1500 1480 1520 1600 1700	1420 1500 1450 1550 1590 1550	1360 1470 1490 1520 1570	1750 1850 1880 1920 1950 1940	1090 1060 1050 1030 1050	533 507 496 494 488
MEAN MAX MIN		1450 1650 1310	1310 1440 951	1370 1490 1150	1420 1580 1310	1260 1450 1080	1550 1700 1420	1470 1610 1330	1640 1890 1260	1730 2010 1260	1390 1940 1030	757 1030 488

CAL YR 2000 MEAN 1400 MAX 1710 MIN 951 WTR YR 2001 MEAN 1400 MAX 2010 MIN 488

02236000 ST. JOHNS RIVER NEAR DELAND, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DATLY MEAN VALUES

	DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	 	23.1 22.9 22.7 22.6 22.6	17.1 17.3 17.4 16.5 16.1	13.0 12.6 12.1 12.0 11.6	18.2 17.9 17.4 16.7 16.9	23.4 23.9 23.8 23.5 22.5	21.4 21.7 21.8 22.0 22.3	24.2 24.3 24.1 24.1 24.3	29.0 29.0 29.0 29.4 29.5	29.3 29.3 29.6 29.7 29.8	29.9 28.7 28.2 27.9 27.7	30.4 30.1 30.0 30.1 30.3		
6 7 8 9 10	 	23.0 23.2 23.5 23.6 23.7	15.7 15.7 16.2 17.0 17.7	11.8 12.0 12.5 12.7 12.3	16.7 17.4 17.8 18.3 19.1	21.2 20.1 19.2 18.4 18.7	23.0 23.5 24.1 24.9 25.5	24.7 24.9 24.8 24.7 24.9	29.8 29.4 29.6 29.7 29.9	29.7 30.1 30.5 30.3 29.6	27.8 28.2 29.0 29.9 30.1	29.8 29.1 28.7 28.6 28.6		
11 12 13 14 15	 	23.2 22.6 22.3 22.0 21.2	18.9 19.6 19.9 20.6 21.1	13.0 13.8 13.7 14.0 14.6	19.5 19.8 19.8 20.3 21.2	19.4 20.2 20.5 20.6 21.3	26.2 26.8 27.2 27.4 27.6	25.2 25.5 25.6 25.9 26.6	30.2 29.8 30.3 30.1 29.9	29.3 28.9 28.6 28.4 28.6	30.0 30.0 30.2 30.7 30.6	28.2 28.0 27.2 25.8 24.8		
16 17 18 19 20	 	20.7 20.7 20.6 20.5 20.4	21.6 22.0 20.5 19.3 17.3	15.4 16.1 18.0 18.9 19.4	22.1 22.2 21.8 21.5 21.4	22.4 22.7 22.3 21.6 20.9	27.4 27.0 25.7 25.1 24.2	27.1 27.9 28.0 28.0 27.9	29.8 29.6 29.8 29.7 29.9	28.6 28.6 28.4 27.9 27.8	30.1 30.1 30.1 30.2 30.1	24.4 24.2 24.7 25.2 25.8		
21 22 23 24 25	 	19.4 18.2 17.3 17.1 17.7	15.9 15.4 14.6 14.5 14.5	18.2 16.4 15.8 15.5	21.4 21.5 21.6 21.5 21.9	20.0 19.4 19.6 20.4 20.5	23.6 23.7 24.2 24.9 24.8	28.4 28.3 28.3 28.5 28.4	30.2 29.6 28.5 28.1 28.1	28.0 28.5 28.2 27.8 28.3	30.0 29.9 30.0 30.3 30.2	26.2 26.5 26.8 26.9 26.9		
26 27 28 29 30 31	23.5 23.3 23.3 23.3 23.1	17.8 17.8 17.8 17.6 17.2	14.6 14.9 15.2 15.5 14.4	14.9 14.7 16.0 16.0 16.9	22.4 23.1 23.3 	20.8 20.8 20.8 20.5 20.5 21.1	24.7 24.5 24.6 24.2 24.1	28.2 28.5 28.6 28.6 29.1 29.2	29.1 28.9 28.7 28.9 29.1	28.5 28.7 29.1 29.8 30.6 30.7	29.9 29.9 30.0 30.2 30.3 30.5	26.5 26.2 26.1 25.6 24.8		
MEAN MAX MIN	23.3 23.5 23.1	20.8 23.7 17.1	17.1 22.0 13.6	14.7 19.4 11.6	20.1 23.3 16.7	21.0 23.9 18.4	24.6 27.6 21.4	26.7 29.2 24.1	29.4 30.3 28.1	29.1 30.7 27.8	29.7 30.7 27.7	27.2 30.4 24.2		

CAL YR 2000 MEAN 19.2 MAX 23.7 MIN 13.6 WTR YR 2001 MEAN 23.7 MAX 30.7 MIN 11.6

02236000 ST. JOHNS RIVER NEAR DELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT	0858	0.16	0.65	F.0	0.0			E 20	1550	1500	22.9	262	59
11 24 NOV	0757	2.16 1.96	867 2330	50 70	2.9 3.2	5.7 5.0	7.5 7.2	7.39 7.36	1550 1700	1580 1740	23.5	260 300	68
06 20 DEC	1100 1013	1.71 1.57	2370 123	100 120	2.0 2.0	4.6 5.3	7.9 7.6	7.35 7.40	1540 1340	1580 1380	23.0 20.4	280 250	65 60
05 20 JAN	1015 1345	1.46 .73	-724 2380	120 100	2.5 2.0	6.1 6.7	7.5 7.6	7.43 7.41	1340 1320	1360 1320	15.9 17.0	250 250	59 60
03 17 FEB	0933 1025	.62 .56	1490 1680	50 80	3.0 3.0	7.1 7.8	7.5 7.8	7.82 7.42	1160 1450	1150 1440	11.9 15.5	250 270	64 65
12 27 MAR	1111 1230	.21	544 735	60 30	2.8 2.5	7.0 9.3	7.8 7.2	7.4 7.53	1400 1430	1410 1440	19.9 23.7	270 280	67 67
14 28 APR	1026 1000	.64 .80	805 1000	20 40	3.7 2.8	7.2 7.4	7.8 7.2	7.66 7.63	1230 1310	1230 1320	20.6 20.5	240 280	60 72
10 26 MAY	0937 0845	.49	863 -253	50 40	6.3 5.8	5.7 5.5	7.6 7.5	7.34 7.64	1540 1510	1540 1500	25.0 24.4	290 290	71 71
08 22 JUN	0908 0800	.80 .50	-764 926	40 20	4.9 6.0	5.8 6.3	7.7 7.8	7.70 7.66	1430 1600	1460 1610	24.5 27.4	280 290	67 70
05 19	0831 0815	.22	1100 -749	30 30	4.5 4.1	6.6 4.5	8.0 7.9	7.48 7.31	1560 1620	1580 1640	29.4 29.3	290 300	70 71
JUL 02 17 31	0920 0859 0823	.65 .84 1.19	932 1190 2820	30 60 50	6.7 4.1 8.7	6.6 4.3 5.2	8.1 7.5 7.8	7.50 7.12 6.9	1690 1770 1990	1720 1800 2010	28.6 28.2 30.6	300 330 350	71 80 80
AUG 14 30	1310 0838	1.39 1.56	3630 3790	120 280	.45 1.3	3.1 1.1	7.0 6.9	7.0 7.1	1410 1020	1450 1050	30.5 29.7	250 190	59 46
SEP 11 25	0933 1010	1.98 4.13	4330 10300	240 280	1.9 2.2	1.9 .5	7.0 6.6	7.2 7.5	883 543	896 550	28.1 26.7	170 120	43 31

Note.--Negative figures indicate reverse flow

02236000 ST. JOHNS RIVER NEAR DELAND, FL--Continued

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE TOTAL (MG/L AS S) (00745)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
11	59	26	26	7.9	200	67	1.0	328	5.1	105		11	819
24	68	31	30	9.3	220	62	1.1	421	6.1	143		12	1030
NOV 06	66	28	28	8.6	200	61	1.2	358	7.4	135		10	954
20	62	24	24	8.0	160	68	1.0	310	8.2	120	<1.0	7	821
DEC												_	
05 20	61 63	24 24	26 24	7.6 6.8	160 160	68 79	.96 .97	310 290	7.4 7.1	110 110	<1.0 <1.0	5 6	796 800
JAN	03	27	27	0.0	100	19	.91	290	/.1	110	VI.0	U	800
03	63	22	23	5.2	120	98	.82	240	7.6	100		6	691
17	65	26	26	8.2	190	85	1.3	330	4.4	110	<1.0	5	839
FEB 12	68	25	26	7.5	160	93	1.4	304	2.7	117	<1	10	879
27	67	26	28	7.3	180	110	2.5	310	3.9	100	<1.0	7	818
MAR													
14	61	22	23	5.9	140	105	3.2	260	4.3	91	<1.0	6	724
28 APR	71	25	24	5.6	150	97	8.7	270	4.9	130	<1.0	10	761
10	72	28	28	7.4	180	88	8.2	330	2.8	130	<1.0	18	925
26	69	27	27	7.1	180	97	5.8	330	4.5	120	<1.0	16	874
MAY	67	26	26	6.8	170	0.0	1 0	200	2.0	100	.1 0	1.0	000
08 22	67	26 28	26 27	8.0	170 190	99 118	1.0	320 360	3.8 5.5	120 97	<1.0 <1.0	10 16	809 890
JUN	07	20	27	0.0	100	110	1.3	300	3.3	21	\1.0	10	050
05	71	27	29	7.4	190	98	1.1	340	5.2	130	<1.0	22	892
19	71	29	29	7.5	200	97	1.2	360	6.0	130	<1.0	23	932
JUL 02	70	30	29	8.0	210	103	1.5	390	7.8	120	<1.0	18	962
17	80	31	32	8.7	220	75	1.5	400	8.7	160	<1.0	13	1120
31	81	36	36	10	260	60	1.6	459	9.5	187	<1	38	1240
AUG													
14	59	25	25	8.6	170	52	1.2	322	8.5	128	<1	26	924
30 SEP	47	18	18	6.7	130	59	1.0	234	9.9	69	1	9	672
11	44	16	16	6.1	100	64	.97	193	11	49	2	9	602
25		10		4.6	60	48	.50	114	10	35	3	5	E368cl

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02236000 ST. JOHNS RIVER NEAR DELAND, FL--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT													
11 24 NOV	.03		.04	.03	.02	<.01 <.01	<.01 <.01	.02 <.01	.03	.04 .06	13 16	14 17	20 20
06 20 DEC	.15 .236		.18 .26	.09 .24	.10 .24	.01	.01	.03	.03	.06 .07	19 20	20 20	7.8 5.2
05 20	.092 .110		.10 .18	.26 .22	.25	.01	.01 <.01	.03	.03	.05	18 17	18 17	<.1 11
JAN 03 _17	.094		.13 .19	.44	.43	<.01 .02	<.01 .02	.05 <.01	.05	.08	8.9 16	8.5 17	<.1 21
FEB 12 27	.16 .166		.29 .26	.27 .15	.27 .17	.06	.05	.04	.06	.06 <.10	16 9.0	15 9.1	23 23
MAR 14 28	.110 .026		.16 .07	.15 .20	.15 .20	.04 <.01	.04 <.01	.05	.06 .05	.08	7.1 7.8	7.3 8.2	16 11
APR 10 26	.012 <.010		.04	.05	.05	<.01 <.01	<.01 <.01	.03 <.01	.03 <.01	.09	14 13	14 13	49 40
MAY 08 22	<.010 <.010		.04	<.02 <.02	<.02 <.02	<.01 <.01	<.01 <.01	.02	.03	.08	11 6.2	11 6.1	25 33
JUN 05 19	<.010 .012		<.01 .02	<.02 <.02	<.02 <.02	<.01 <.01	<.01 <.01	<.01 <.01	<.01 .01	.07	11 11	12 12	56 66
JUL 02 17	.022		.02	<.02	<.02	<.01 <.01	<.01 <.01	<.01 <.01	.01	.06	9.7 9.9	9.6 10	48 <.1
31 AUG	<.01		.02	<.02	<.02	<.01	<.01	<.01	.02	.09	15	20	150
14 30	.12		.15 .33	.02	.02	<.01 .16	<.01 .16	<.01 .16	<.01 .16	.08	16 22	16 23	57 3.9
SEP 11 25	.27	1.8	.26 .07	.27	.29	.16 .02	.17	.21	.21	.22 .16	29 34	30	<.1 <.1

< -- Less than

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02236000 ST. JOHNS RIVER NEAR DELAND, FL--Continued

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR) (01082)
OCT						
11 24 NOV	32 37	31 38	23 56	98 137	1400 1800	1400 1800
06 20 DEC	35 30	35 30	114 125	206 191	1700 1500	1700 1600
05 20 JAN	28 27	28 28	109 84	152 140	1500 1400	1500 1500
03 17 FEB	20 28	20 28	40 58	84 107	1200 1500	1200 1500
12 27 MAR	27 24	27 25	27 13	94 56	1440 1300	1450 1300
14 28 APR	18 23	19 24	7.9 16	58 70	1100 1300	1100 1300
10 26 MAY	31 30	31 30	14 11	112 107	1500 1500	1500 1500
08 22 JUN	27 27	28 27	8.5 3.6	67 87	1400 1300	1400 1300
05 19 JUL	27 15	30 30	25 4.1	104 75	1400 1500	1500 1500
02 17 31	20 21 39	26 33 43	3.0 49 31	54 127 216	1400 1700 2070	1400 1700 2090
AUG 14 30 SEP	26 22	30 25	129 360	336 504	1490 1150	1500 1170
11 25	23 16	27	376 348	557 572	1020 690	1080

< -- Less than

02236125 ST. JOHNS RIVER AT ASTOR, FL

LOCATION.--Lat $29^{\circ}10^{\circ}00^{\circ}$, long $81^{\circ}31^{\circ}20^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec. 29, T.15 S., R.28 E., Lake County, Hydrologic Unit 03080101, near center of channel on bridge pile under State Highway 40 Bridge over the St. Johns River, 6.6 mi west of U.S. Highway 17 and 127 mi upstream from mouth.

DRAINAGE AREA. -- 3,330 mi².

PERIOD OF RECORD.--September 1931 to July 1934 (daily gage heights and miscellaneous discharge measurements only), February 1994 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level.

REMARKS.--Records fair. No daily discharge and stage record for Jan. 23-July 19, when the gage was removed for bridge repairs.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE. MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-3450	3170	2420	2870							2120	4550
2	-1850	3270	1970	2100							1610	4380
3	913	3280	-1020	1990							1950	4300
4	1220	3420	-2790	1760							2510	3880
5	2860	3070	-1460	2130							2920	3650
6	3540	2590	345	2340							3090	3680
7	3320	2560	1430	2090							2850	4320
8 9	1190 -2740	3120 3690	2030 2460	1920 -236							2950 3860	4000 4150
10	-380	2360	1920	-236 1590							4810	4540
10	300	2500	1020	1370							4010	4540
11	1590	2000	1690	1420							5070	5000
12	2050	1350	1900	505							5220	4760
13	2070	1650	1790	-193							5210	4230
14	2400	1070	1700	-502							5200	749
15	2910	1070	2010	-90							4950	-5540
16	3160	2260	2380	918							4140	3070
17	3250	2290	1390	1470							4240	5480
18	3040	1600	2760	1580							4470	7040
19	3060	1700	2040	2070							4290	8080
20	2230	-829	1960	405						2180	5050	8920
21 22	2130 1820	-542 2110	2450 1780	1200 542						2200 1850	5010 4980	9520 9950
23	657	3100	741	542						2340	4510	10100
24	-38	3510	-179							2770	4370	10100
25	-424	2710	-369							2780	4540	9950
26	310	2440	-510							2850	3890	9950
27	661	2850	1100							2990	3840	10100
28	2670	2830	1670							2810	4170	9870
29	2980	2730	28							2970	4620	8310
30	2250	2370	-72							2510	4700	7410
31	2810		1930							2630	4510	
TOTAL	46209	68799	35494	27879						30880	125650	178499
MEAN	1491	2293	1145	1267						2573	4053	5950
MAX	3540	3690	2760	2870						2990	5220	10100
MIN	-3450	-829	-2790	-502						1850	1610	-5540
STATIST	TICS OF M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 1994	- 2001,	BY WATER	YEAR (WY)				
						•		•				
MEAN	5023	5411	4274	4426	3029	3131	2787	1510	1732	2546	2649	3801
MAX	9026	8974	9206	9123	6591	10760	7498	3601	2609	3833	5056	7498
(WY)	1996	2000	1995	1998	1998	1998	1998	1998	1994	1994	1994	1995
MIN (WY)	1491 2001	2293 2001	1145 2001	1174 1997	785 1999	695 2000	291 1999	42.9 1994	661 2000	547 2000	664 2000	950 2000
									2000			
SUMMARY	Y STATIST	ICS	FOR	2000 CALEN	IDAR YEAR	F	OR 2001 WA	FER YEAR		WATER Y	EARS 1994	- 2001
				448199 1225			513410 2746			3352 5211 1706		1995 1999
	T DAILY M			5990	Jan 1		10100	Sep 23,	24 27	11700	Mar	9 1998
	DAILY ME			-3780	Sep 8		-5540	Sep 23,	-1/4/	-6180		15 1999
		Y MINIMUM		-2270	Sep 6		72	Dec 2		-2270		6 2000
MAXIMUN	M PEAK ST	AGE			-		3.91	Sep 17		3.9		17 2001
	CENT EXCE			3130			5050			8000		
	CENT EXCE			1210			2450			2700		
90 PER	CENT EXCE	FDS		-714			-76			297		

Note. -- Negative figures indicate reverse flow

ST. JOHNS RIVER BASIN ABOVE OCKLAWAHA RIVER

02236125 ST. JOHNS RIVER AT ASTOR, FL--Continued

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

					DAILY	MEAN VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.84	1.66	.68	.43							.92	.89
2	1.93	1.58	.69	.34							1.10	.89
3	1.91	1.52	.91	.33							1.15	.91
4	1.89	1.44	1.25	.28							1.12	1.02
5	1.82	1.39	1.35	.20							1.10	1.12
6	1.68	1.41	1.29	.11							1.12	1.18
7	1.58	1.40	1.23	.05							1.16	1.25
8	1.60	1.34	1.14	.03							1.16	1.35
9	1.85	1.20	1.04	.13							1.12	1.41
10	1.92	1.18	.99	.11							1.06	1.41
11	1.89	1.22	1.02	.13							1.02	1.38
12	1.85	1.28	1.04	.17						.14	.89	1.39
13	1.81	1.31	1.02	. 27						.11	.78	1.57
14	1.78	1.32	1.02	.38						.30	.69	2.38
15	1.73	1.37	.97	. 47						.57	.63	3.58
16	1.65	1.30	.87	. 45						.65	.70	3.83
17	1.59	1.23	.78	.40						.70	.79	3.87
18	1.55	1.25	.62	.37						.77	.84	3.80
19	1.51	1.24	.46	.32						.77	.89	3.69
20	1.52	1.39	.44	.32						.76	.92	3.56
21	1.56	1.43	.30	.28						.85	.89	3.42
22	1.57	1.32	.27	.19						1.04	.90	3.28
23	1.65	1.16	.37							1.13	.95	3.18
24	1.76	1.03	.51							1.04	.99	3.05
25	1.88	.97	.60							.99	.97	2.98
26	1.92	1.00	.74							.92	1.01	2.92
27	1.94	.95	.76							.86	1.06	2.83
28	1.89	.85	.68							.81	1.05	2.78
29	1.81	.76	.75							.79	.99	2.91
30	1.78	.72	.81							.80	.92	3.09
31	1.74		.65							.78	.88	
MEAN	1.75	1.24	.81	. 26						.74	.96	2.36
MAX	1.94	1.66	1.35	.47						1.13	1.16	3.87
MIN	1.51	.72	.27	.03						.11	.63	.89

CAL YR 2000 MEAN .76 MAX 2.02 MIN -.10 WTR YR 2001 MEAN 1.22 MAX 3.87 MIN .03

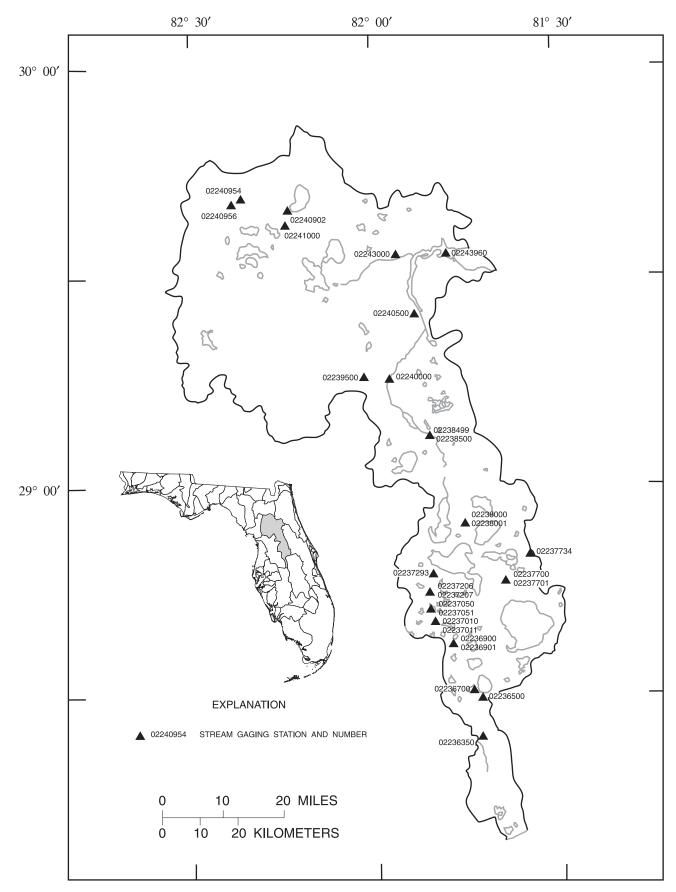


Figure 5.--Location of stream gaging stations in the Ocklawaha River basin.

02236350 GREEN SWAMP RUN NEAR EVA, FL

LOCATION.--Lat $28^{\circ}18^{\circ}39^{\circ}$, long $81^{\circ}41^{\circ}08^{\circ}$, in NW^{1}_{4} sec.14, T.25 S., R.26 E., Polk County, Hydrologic Unit 03080102, on left bank, 20 ft downstream from culverts on Sand Mine Road, 1.1 mi west of U.S. Highway 27, 9.1 mi east of Eva, and 12.8 mi upstream from mouth.

DRAINAGE AREA.--43 mi², approximately.

PERIOD OF RECORD. -- July 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 116.16 ft above sea level.

REMARKS.--Records good.

	_	DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 2.6 21
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	45 51 49 46 43
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	39 35 32 29 26
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	24 22 20 19 17
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	520.60 17.4 51 .00 .40 .45
							BY WATER					
MEAN MAX (WY) MIN (WY)	14.5 54.9 1995 .000 1981	9.36 55.7 1983 .000 1981	10.4 114 1998 .000 1981	12.2 116 1998 .000 1981	12.3 122 1998 .000 1981	15.6 158 1998 .000 1981	13.8 60.7 1998 .000 1981	2.23 15.7 1987 .000 1980	3.78 34.6 1994 .000 1980	8.18 42.3 1982 .000 1979	12.1 69.0 1995 .000 1980	12.0 48.4 1982 .000 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1979	9 - 2001
ANNUAL HIGHEST LOWEST HIGHEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			.00		ys	.00 .00 51		ys	.00 .00 195	Dec 28, Ma Ma Dec 28, Apr	any days any days 29 1997

02236500 BIG CREEK NEAR CLERMONT, FL

LOCATION.--Lat $28^{\circ}26^{\circ}51^{\circ}$, long $81^{\circ}44^{\circ}25^{\circ}$, in $NE^{1/4}_{0}$ sec.31, T.23 S., R.26 E., Lake County, Hydrologic Unit 03080102, near left bank 40 ft downstream from log bridge, 1 mi upstream from mouth at Lake Louisa, and 7.5 mi southeast of Clermont.

DRAINAGE AREA.--68 mi^2 , approximately.

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 98.97 ft above sea level.

REMARKS.--Records fair. Some interconnection at high stages with Little Creek and Withlacoochee River basin.

		DISCHAR	GE, CUBIC	FEET PER		WATER YEA	AR OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .14 .18 .42
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.22 .11 .14 3.0 6.7
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	4.8 3.8 3.5 3.2 2.8
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .01 .03 .01	2.4 2.0 1.8 1.7 1.6
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.4 1.4 1.3 1.2 1.1
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.05 .002 .03 .00 .00	44.91 1.50 6.7 .00 .02
						•	BY WATER Y					
MEAN MAX (WY) MIN (WY)	30.5 238 1961 .000 1981	20.0 112 1960 .000 1981	18.1 147 1998 .000 1994	23.0 177 1998 .000 1981	23.5 139 1998 .000 2001	33.3 268 1960 .000 1999	23.6 200 1960 .000 1994	7.05 72.2 1959 .000 1977	7.59 63.8 1959 .000 1981	20.2 205 1959 .000 1981	29.3 190 1960 .002 2001	36.8 413 1960 .003 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	FO	OR 2001 WAT	TER YEAR		WATER YEA	ARS 1958	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM GE FSM) NCHES) DS		55.50 .15 2.4 .00 .00 .003 .70 .000	Jan 1 Many da Mar 5	ys	44.96 .12 6.7 .00 .00 7.5 2.08 .002 .02 .00	Sep 15 Many day Oct 1 Sep 15 Sep 15 Sep 15	ys	22.8 137 .12 684 .00 .00 691 6.23 .33 4.55 61 5.5	Sep : Mai mai Sep : Sep :	1960 2001 13 1960 ny days 13 1960 13 1960

02236700 LITTLE CREEK NEAR CLERMONT, FL

LOCATION.--Lat 28°27'39", long 81°45'26", in NE½ sec.25, T.23 S., R.25 E., Lake County, Hydrologic Unit 03080102, at downstream side of culverts on Lake Nellie Road, 0.6 mi upstream from Lake Louisa, 2.3 mi east of State Highway 561, and 6.1 mi south of Clermont.

DRAINAGE AREA. -- 14.7 mi².

PERIOD OF RECORD.--Water years 1945-47, 1952-56, 1966, 1967 (discharge measurements only), July 1958 to July 1960 (miscellaneous low-flow measurements only), July 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 90.08 ft above sea level. July 18, 1958 to July 5, 1960, non-recording gage at same site at different datum.

REMARKS.--Records good. Some interconnection at high stages with Big Creek is possible.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER	2000 TO	SEPTEMBER	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3 4 5			.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
	.00 .00 .00 .00			.00 .00 .00 .00				.00		.00 .00 .00 .00		.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00					.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00
STATIST				R WATER Y	EARS 1979	- 2001,	BY WATER Y	EAR (WY	•			
MEAN MAX (WY) MIN (WY)	15.6 88.3 1996 .000 1981	10.1 42.8 1996 .000 1981	13.3 123 1998 .000 1981	19.0 154 1998 .000 1981	17.2 119 1998 .000 1981	20.9 127 1998 .000 1981	15.3 87.8 1987 .000 1981	3.43 15.2 1998 .000 1981	4.44 41.8 1991 .000 1981	9.78 64.0 1984 .000 1981	14.0 110 1984 .000 1981	16.8 63.7 1995 .000 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WAT	ER YEAR		WATER YE	ARS 1979	- 2001
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				Many da Jan 1	ys	.00	Many da Oct 1	ays	13.2 51.9 .00 261 .00 .00 *850 *10.85 .90 12.22 40 1.8	Sep 2 Man Man Mar 1 Mar 1	y days y days y days 8 1960	

 $[\]verb|*From floodmark| \\$

02236900 PALATLAKAHA RIVER AT CHERRY LAKE OUTLET, NEAR GROVELAND, FL

LOCATION.--Lat $28^{\circ}35^{\circ}33^{\circ}$, long $81^{\circ}49^{\circ}21^{\circ}$, in NE $\frac{1}{4}$ sec.8, T.22 S., R.25 E., Lake County, Hydrologic Unit 03080102, near left bank 21 ft upstream from spillway at outlet of Cherry Lake, and 3 mi northeast of Groveland.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--September 1956 to February 1957 (gage heights and discharge measurements only), March 1957 to current year. REVISED RECORDS.--WDR FL-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Gee and Jenson, Inc. bench mark). Auxiliary gage at downstream side of spillway structure.

REMARKS.--Records good. Water level was below the elevation of the spillway during the entire 2001 water year. Since 1956, flow regulated by earthen dam and concrete spillway with radial lift gates at outlet. Discharge computed from relation between discharge, head, and gate openings. An undetermined amount of water is diverted at times through a gated culvert in dam for irrigation of citrus groves.

COOPERATION. -- Gate-opening record provided by Lake County Water Authority.

		DISCHAR	GE, CUBIC	FEET PER		WATER YI	EAR OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00
STATIST	CICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1957	- 2001	, BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	38.4 420 1961 .000 1962	24.1 309 1961 .000 1962	21.0 204 1970 .000 1962	35.0 408 1998 .000 1963	33.9 369 1998 .000 1962	50.9 417 1998 .000 1962	46.4 516 1960 .000 1962	23.1 334 1960 .000 1962	14.9 245 1959 .000 1961	21.5 279 1959 .000 1961	34.6 313 1959 .000 1961	43.5 337 1959 -4.02 1994
SUMMARY STATISTICS FOR 2				000 CALENI	DAR YEAR	I	FOR 2001 WAT	TER YEAR		WATER YEA	ARS 1957	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK STA RUNOFF (CI RUNOFF (CI ENT EXCEE ENT EXCEE	AN AN N MINIMUM GE FSM) NCHES) DS		.00	Many da Jan 1	ys	.00 .00 91.39	Many da Oct 1 Sep 30	ıys	32.0 238 31 584 -28 -17 98.15 .19 2.63 126 2.0	Sep Sep	1960 1994 5 1960 24 1994 23 1994 22 1959

Note.--Negative figures indicate reverse flow

02236900 PALATLAKAHA RIVER AT CHERRY LAKE OUTLET, NEAR GROVELAND, FL--Continued

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

					DITTOI	I-IIIII II V	ODD					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90.78											
2	90.77											
3	90.76											
4	90.75											
5	90.75											
-												
6	90.74											
7	90.74											
8	90.73											
9	90.72											
10	90.71											
11												
12												
13												
14												90.59
15												90.92
16												91.10
17												91.18
18												91.22
19												91.26
20	90.35											91.28
21	90.33											91.29
22	90.33											91.29
23	90.31											91.30
23	90.29											91.31
25	90.27											91.32
23	30.27											91.32
26	90.25											91.32
27	90.22											91.33
28	90.18											91.33
29												91.37
30												91.38
31												
MEAN	90.52											91.22
MAX	90.78											91.38
MIN	90.18											90.59

02236901 PALATLAKAHA RIVER BELOW SPILLWAY AT CHERRY LAKE OUTLET, NEAR GROVELAND, FL

LOCATION.--Lat $28^{\circ}35^{\circ}32^{\circ}$, long $81^{\circ}49^{\circ}22^{\circ}$, in NE $^{1}_{4}$ sec.8, T.22 S., R.25 E., Lake County, Hydrologic Unit 03080102, near left bank 20 ft downstream from spillway at outlet of Cherry Lake, and 3 mi northeast of Groveland.

DRAINAGE AREA. -- 165 mi².

PERIOD OF RECORD.--September 1956 to July 1957 (fragmentary), August 1957 to current year (gage heights only). Prior to October 1968, published as Palatlakaha Creek at Cherry Lake Outlet, near Groveland (auxiliary).

REVISED RECORDS.--WDR FL-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Gee and Jenson, Inc. bench mark). Prior to Aug. 20, 1957, nonrecording gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 97.73 ft, Apr. 5, 1960; minimum unknown, below lowest recordable stage.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY JUN JUIL AUG SEP JAN 89.89 90.57 89 62 89.28 89.08 88.78 89.11 88.71 1 ___ 89.10 ---2 90.55 89.87 89.61 89.26 89.08 88.78 88.71 ---------89.85 89.25 89.06 88.77 89.10 ------___ ___ ___ ___ 4 90 52 89 83 89 58 89 23 89 07 88 79 89 09 88 71 ---5 90.52 89.81 89.56 89.22 89.06 88.81 89.08 88.71 ------89 54 89 21 89 04 88 78 89 08 88.70 ___ ---6 90.51 89.80 89.78 89.77 88.77 89.07 88.70 ------90.49 89.52 89.19 89.02 ------------8 90.47 89.51 89.19 89.01 88.76 89.05 88.70 ------9 90.42 89.75 89.50 89.19 88.99 88.75 89.04 88.70 10 90.38 88.75 89.73 89.50 89.17 88.98 89.03 88.70 11 90.35 89.71 89.49 89.16 88.97 88.74 89.01 88.70 ---12 90.33 89.69 89.49 89.16 88.96 88.74 88.99 88.70 13 90.29 89.68 89.49 89.14 88.95 88.73 88.97 88.69 ---___ ___ ___ ------------14 90.26 89.67 89.48 89.14 88.94 88.73 88.95 88.69 15 90.23 89.67 89.47 89.12 88.94 88.73 88.93 88.69 90.20 89.64 89.46 89.12 88.92 88.73 88.90 88.69 16 ___ 90.17 89.64 89.45 89.11 88.91 88.72 88.87 88.69 18 90.15 90.13 89.64 89.62 89 42 89.10 89.09 88.90 88.72 88.77 88.82 88.79 88.69 ---___ ---___ ---19 89.42 88.88 88.69 88.78 93.06 20 90.11 89.61 89.40 89.13 88.87 88.91 88.68 21 90.09 89.59 89.39 89.12 88.86 88.89 88.77 88.68 92.93 90.07 89.56 89.38 88.75 ------88.86 23 90 05 89.54 89 36 89 09 88.84 88 83 88.74 88.68 ___ ___ ---92 67 24 90.03 89.53 89.07 88.74 92.56 89.35 88.83 88.80 88.68 25 90.02 89.58 89.34 89.06 88.82 88.78 88.73 88.68 ---92.46 88.76 88.73 26 90.00 89.75 89.32 89.04 88.82 92.38 2.7 89.98 ---89.31 89.02 88.80 88.74 88.72 ------------92.32 88.72 88.71 28 89.96 89 32 89 01 88.80 88 74 ---___ ___ ___ 92 27 29 89.95 89.33 89.00 88.78 92.27 30 89.93 89.31 88.99 89.02 88.71 ------92.28 31 89 91 ___ 89 30 89 04 ---89 06 ---___ ___ ___ MEAN 90.23 89.70 89.45 89.13 88.94 88.79 88.90 88.69 MAX 90.57 89.89 89.62 89.28 89.08 89.06 89.11 88.71 ------___ ---

88.72

CAL YR 2000 MEAN 91.07 MAX 92.92 MIN 89.30 WTR YR 2001 MEAN 89.39 MAX 93.06 MIN 88.68

02237010 PALATLAKAHA RIVER AT STRUCTURE M-6, NEAR MASCOTTE, FL

LOCATION.--Lat $28^{\circ}38^{\circ}35^{\circ}$, long $81^{\circ}52^{\circ}21^{\circ}$, in SE^{1}_{4} sec.23, T.21 S., R.24 E., Lake County, Hydrologic Unit 03080102, on right bank 50 ft upstream from control structure M-6, 1.5 mi west of State Highway 565, and 4.6 mi north of Mascotte.

DRAINAGE AREA.--186 mi².

PERIOD OF RECORD.--May 1981 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Flow regulated at station by manipulation of gates in spillway.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 92.97 ft, Aug. 11, 1983; minimum unknown, below lowest recordable stage.

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						DAILY	MEAN VAL	UES					
2 88.14	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3 88.11 -	1	88.17											
3 88.11 -	2	88.14											
5 88.06 -		88.11											
6 88.04	4	88.08											
7 88.03 -	5	88.06											
7 88.03 -													
7 88.03	6	88.04											
9 88.02	7	88.03											
10 88.01	8	88.02											
11 88.01	9	88.02											
11 88.01	10	88.01											
12													
13	11	88.01											
13	12												
15 88.77 16 89.04 17 89.05 18 89.06 20													
16 89.04 17 89.05 18 89.05 19 89.06 20 89.05 21 89.05 22 89.05 23 89.03 23 89.03 24 89.02 24 89.01 25 89.01 26 89.00 28	14												
16 89.04 17 89.05 18 89.05 19 89.06 20 89.05 21 89.05 22 89.05 23 89.03 23 89.03 24 89.02 24 89.01 25 89.01 26 89.00 28	15												88.77
17 89.05 18 89.06 19 89.06 20 89.05 21 89.05 22 89.05 23 89.03 23 89.03 24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>													
18 89.06 19 89.05 20 89.05 21 89.04 22 89.03 23 89.03 24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 29 89.00	16												89.04
18 89.06 19 89.05 20 89.05 21 89.04 22 89.03 23 89.03 24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 29 89.00	17												89.05
19 89.06 20 89.05 21 89.04 22 89.03 23 89.02 24 89.01 25 89.01 26 89.01 27 89.01 28 89.00 28 89.00 29 89.00 30 89.00													
20 89.05 21 89.04 22 89.03 23 89.02 24 89.01 25 89.01 26 89.01 27 89.01 28 89.00 29 89.00 30													
21 89.04 22 89.03 23 89.02 24 89.01 25 89.01 26 89.01 27 89.01 28 89.00 28 89.00 29 89.00 30 89.00													
22 89.03 23 89.02 24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 29 89.00 30 89.00													
22 89.03 23 89.02 24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 29 89.00 30 89.00	21												89.04
23 89.02 24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 29 89.00 30 89.00	22												89.03
24 89.01 25 89.01 26 89.01 27 89.00 28 89.00 29 89.00 30 89.00													
25 89.01 26 89.01 27 89.00 28 89.00 29 89.00 30 89.00													89.01
26 89.01 27 89.00 28 89.00 29 89.00 30 89.00													
27 89.00 28 89.00 29 89.00 30 89.00													
27 89.00 28 89.00 29 89.00 30 89.00	26												89.01
28 89.00 29 89.00 30 89.00													
29 89.00 30 89.00													
30 89.00													

02237011 PALATLAKAHA RIVER BELOW STRUCTURE M-6, NEAR MASCOTTE, FL

LOCATION.--Lat $28^{\circ}38^{\circ}38^{\circ}$, long $81^{\circ}52^{\circ}21^{\circ}$, in SE^{1}_{4} sec.23, T.21 S., R.24 E., Lake County, Hydrologic Unit 03080102, on right bank 150 ft downstream from control structure M-6, 1.5 mi west of State Highway 565, and 4.6 mi north of Mascotte.

DRAINAGE AREA.--186 mi².

31

MEAN

MAX

MTN

85.59

85.99

85 16

PERIOD OF RECORD.--May 1981 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 92.25 ft, Mar. 19, 1998; minimum unknown, below lowest recordable stage.

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 85.99 2 85.96 ---___ ___ ---___ ___ ------___ ___ ___ 3 85.94 85.93 ------------------------------------___ ___ 5 85.91 ---___ ___ ___ ___ ___ ___ ___ 85.89 ___ ___ ---___ ___ ---___ ------___ ___ ___ ___ ___ ---85.87 8 ---85.84 ------------------------------85.80 ---------------------------------10 85.76 ---------------------------11 85.73 ---___ 12 85.69 85.66 ---13 ------------------------------14 85.63 87.09 15 85.61 16 85.58 87.68 ------------------------------17 85.55 87.69 85.51 18 87.68 19 85.48 ---___ ___ ___ ___ ___ ___ ___ ___ ___ 87.67 ------------------------20 85.45 87.66 21 85.42 85.39 ---___ ___ ___ ___ ___ ___ ___ ___ ___ 87.64 ------------------------------22 87.63 23 85.36 87.62 85.33 85.31 24 ---___ ---___ ___ ___ ---___ ___ ---87.61 25 87.63 87.63 26 85 29 ---___ ---___ ___ ___ ___ ___ ---___ 27 85.25 87.63 28 85.22 29 85.19 ---___ ---___ ___ ___ ---___ ---___ 87 64 30 85.16 87.64

02237050 PALATLAKAHA RIVER AT STRUCTURE M-5, NEAR OKAHUMPKA, FL

LOCATION.--Lat $28^{\circ}40^{\circ}43^{\circ}$, long $81^{\circ}53^{\circ}05^{\circ}$, in NW_{4}^{1} sec.11, T.21 S., R.24 E., Lake County, Hydrologic Unit 03080102, on right bank 50 ft upstream from control structure M-5, 325 ft upstream from Bridges Road, 1.9 mi west of U.S. Highway 27, and 4.8 mi south of Okahumpka.

DRAINAGE AREA. -- 193 mi².

PERIOD OF RECORD.--May 1981 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Flow regulated at station by manipulation of gates in spillway.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 90.59 ft, Aug. 14, 1983; minimum unknown, below lowest recordable stage.

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

					211121		.020					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85.62	84.43										
2	85.59	84.37										
3	85.57	84.31										
4	85.55	84.26										
5	85.53	84.21										
6	85.50	84.18										
7	85.47	84.15										
8	85.43	84.12										
9	85.39	84.09										
10	85.35	84.07										
11	85.31	84.05										
12	85.28	84.02										
13	85.24	84.00										
14	85.21	83.98										84.16
1.5	85.17	83.96										85.33
16	85.14	83.94										85.77
17	85.10	83.92										85.99
18	85.06	83.90										86.11
19	85.02	83.89										86.19
20	84.99	83.88										86.23
21	84.95	83.87										86.26
22	84.91	83.86										86.26
23	84.87	83.85										86.26
24	84.83											86.27
25	84.78											86.33
26	84.74											86.33
27	84.69											86.34
28	84.64											86.34
29	84.59											86.37
30	84.54											86.37
31	84.49											
MEAN	85.11	84.06										
MAX	85.62	84.43										
MIN	84.49	83.85										

02237051 PALATLAKAHA RIVER BELOW STRUCTURE M-5, NEAR OKAHUMPKA, FL

LOCATION.--Lat $28^{\circ}40^{\circ}45^{\circ}$, long $81^{\circ}53^{\circ}05^{\circ}$, in NW_{4}^{1} sec.11, T.21 S., R.24 E., Lake County, Hydrologic Unit 03080102, on right bank 150 ft downstream from control structure M-5, 125 ft upstream from Bridges Road, 1.9 mi west of U.S. Highway 27, and 4.8 mi south of Okahumpka.

DRAINAGE AREA. -- 193 mi².

PERIOD OF RECORD. -- May 1981 to current year (gage heights only).

GAGE. -- Water-stage recorder. Datum of gage is at sea level.

EXTREMES FOR PERIOD OF RECORD. -- Maximum gage height, 88.06 ft, Mar. 20, 1998; minimum, 80.35 ft, June 21, 2001.

80.92

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES NOV JUL AUG DAY OCT DEC FEB MAR APR MAY JUN SEP JAN 80.89 80.58 81.19 81.28 1 83.28 82.17 81.66 81.24 81.14 81.06 80.69 2 80.89 ---81.04 80.70 80.56 83.25 82.14 81.65 81.23 81.17 81.19 81.25 ---81.63 80.87 4 83 21 82.10 81.61 81 20 81 20 80 91 ___ 81.07 80 68 80 50 81 25 81 22 5 83.18 82.08 81.59 81.18 81.20 80.96 ---81.05 80.66 80.47 81.30 81.27 81.17 80 93 80 68 83.16 82.03 81.57 81.20 ___ 81.03 80 47 81 39 81 35 6 80.91 ---81.00 80.98 81.93 80.68 ---83.13 81.55 81.16 81.19 81.47 81.63 8 83.10 81.88 81.53 81.17 81.18 80.90 ---81.49 81.72 9 83 06 81 87 81 52 81 18 81 18 80 89 80.95 80 64 81 51 81 80 10 83.02 81.86 81.50 81.16 81.17 80.89 80.93 80.61 81.52 81.83 11 82.99 81.84 81.49 81.15 81.17 80.88 ---80.91 80.58 ---81.53 81.84 82.96 81.82 80.87 ---80.88 80.55 81.51 81.86 12 81.14 81.17 81.53 ------13 82.93 81.81 81.50 81.13 81.16 80.87 80.87 80.52 81.54 81.88 14 82.90 81.77 81.49 81.12 81.15 80.89 80.86 80.50 81.55 82.24 15 82.87 81.74 81.48 81.11 81.14 80.88 80.84 80.49 81.55 83.51 81.46 81.10 81.13 80.46 81.55 82.84 81.68 80.88 80.83 83.85 16 ---82.81 81.61 81.44 81.09 81.11 80.81 80.43 81.55 83.88 ---82.78 82.70 81.58 81.57 81.41 81.39 81.40 81.37 80.80 80.78 18 81.08 81.10 80.41 ___ 81.57 83.88 ------19 81.07 80.42 81.58 81.06 83.88 20 82.61 81.57 81.38 81.06 81.05 81.35 80.76 80.39 81.57 83.88 21 82.57 81.55 81.36 81.04 81.04 81.32 80.76 80.39 81.55 83.89 81.02 81.30 81.34 81.02 82.53 82.51 81.51 81.50 81.33 81.31 81.01 80.99 80.82 23 81.01 ___ 81.26 80.52 ---81.52 83 89 24 80.98 81.19 80.55 81.49 83.88 25 80.97 82.48 81.50 81.29 80.98 81.16 80.78 80.55 81.47 83.91 26 82.46 81.58 81.28 80.96 80.96 81.14 80.78 80.53 81.44 83.90 82.43 81.68 81.26 80.95 80.94 ---81.12 80.54 ---81.41 83.89 28 82.40 82.38 81.69 81.68 81 28 80.94 80.92 80.92 ___ 81 10 80.75 80.75 80 57 ___ 81.38 83 88 80.56 81.36 29 81.29 81.08 83.91 30 82.27 81.67 81.28 80.91 81.07 80.55 81.33 83.90 31 82 18 81.26 81.04 ___ 80.69 ---81 31 MEAN 82.80 81.77 81.44 81.09 81.10 80.89 81.22 80.87 80.56 81.45 82.81 81.07 80.69 ---MAX 83 28 82 17 81 66 81 24 81.20 80 96 81.40 80 71 81.58 83 91

80.87

81.19

CAL YR 2000 MEAN 82.82 MAX 84.45 MIN 81.18 WTR YR 2001 MEAN 81.48 MAX 83.91 MIN 80.39

02237206 PALATLAKAHA RIVER AT STRUCTURE M-4, NEAR OKAHUMPKA, FL

LOCATION.--Lat $28^{\circ}42^{\circ}53^{\circ}$, long $81^{\circ}53^{\circ}04^{\circ}$, in SW^{1}_{4} sec.26, T.20 S., R.24 E., Lake County, Hydrologic Unit 03080102, on right bank 50 ft upstream from control structure M-4, 1.4 mi west of U.S. Highway 27, and 2.3 mi south of Okahumpka.

DRAINAGE AREA.--208 mi².

PERIOD OF RECORD.--May 1981 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Flow regulated at station by manipulation of gates in spillway.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 86.81 ft, Feb. 23, 1983; minimum unknown, below lowest recordable stage.

			GAGE HEI	GHT, FEET,		EAR OCTOB Y MEAN VA		O SEPTEMBE	R 2001			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	80.76 80.73 80.71 80.70 80.69	80.01 79.99 79.97 79.95 79.93	79.43 79.39 79.35 79.30 79.26	78.54 78.52 78.49 78.45 78.43	77.93 77.94 77.92 77.93 77.93	 	79.01 79.00 78.99 78.97 78.98	78.18 78.14 78.13 78.11 78.06	 	 	80.45 80.46 80.49 80.51 80.54	80.43 80.39 80.36 80.36 80.53
6 7 8 9 10	80.67 80.64 80.62 80.57 80.54	79.91 79.88 79.86 79.84 79.82	79.22 79.18 79.15 79.12 79.09	78.40 78.37 78.37 78.36 78.33	77.92 77.92 77.91 77.90 77.89	 	79.10 79.11 79.09 79.06 79.03	78.01 77.97 77.92 77.87 77.84	 	 	80.60 80.62 80.60 80.59 80.60	80.60 80.78 80.83 80.85 80.85
11 12 13 14 15	80.52 80.49 80.47 80.44 80.42	79.79 79.76 79.73 79.71 79.68	79.06 79.07 79.04 79.02 78.99	78.30 78.28 78.25 78.22 78.19	77.88 77.88 77.87 77.87 77.86		79.00 78.97 78.95 78.92 78.89	77.83 77.83 77.83 77.83	 		80.65 80.63 80.63 80.61 80.59	80.85 80.85 80.86 81.26 82.41
16 17 18 19 20	80.39 80.36 80.34 80.31 80.29	79.65 79.62 79.59 79.56 79.52	78.96 78.93 78.90 78.87 78.84	78.17 78.14 78.12 78.09 78.07	77.85 77.85 77.84 77.84 77.83	 	78.85 78.80 78.75 78.71 78.67	 	 	 	80.59 80.60 80.59 80.57 80.56	82.81 82.88 82.90 82.90 82.90
21 22 23 24 25	80.26 80.24 80.21 80.19 80.17	79.49 79.45 79.42 79.39 79.37	78.81 78.79 78.76 78.73 78.70	78.04 78.02 77.99 77.97 77.95	77.83 77.83 	 	78.63 78.58 78.54 78.49 78.44	 	 	78.50 79.49 80.40 80.47 80.47	80.56 80.54 80.51 80.49 80.46	82.90 82.89 82.89 82.89 82.92
26 27 28 29 30 31	80.16 80.14 80.11 80.09 80.06 80.04	79.45 79.56 79.54 79.51 79.47	78.67 78.64 78.64 78.64 78.61 78.57	77.93 77.92 77.91 77.89 77.88 77.90	 	77.85 77.85 77.87 77.95 78.61 78.94	78.40 78.35 78.31 78.26 78.22	 	 	80.47 80.46 80.45 80.44 80.42 80.42	80.43 80.43 80.50 80.51 80.48 80.46	82.92 82.93 82.93 82.96 82.98
MEAN MAX MIN	80.40 80.76 80.04	79.68 80.01 79.37	78.96 79.43 78.57	78.18 78.54 77.88	77.88 77.94 77.83		78.77 79.11 78.22				80.54 80.65 80.43	81.86 82.98 80.36

CAL YR 2000 MEAN 81.26 MAX 84.04 MIN 78.57

02237207 PALATLAKAHA RIVER BELOW STRUCTURE M-4, NEAR OKAHUMPKA, FL

LOCATION.--Lat $28^{\circ}42^{\circ}56^{\circ}$, long $81^{\circ}53^{\circ}03^{\circ}$, in SW^{1}_{4} sec.26, T.20 S., R.24 E., Lake County, Hydrologic Unit 03080102, on right bank 150 ft downstream from control structure M-4, 1.4 mi west of U.S. Highway 27, and 2.3 mi south of Okahumpka.

DRAINAGE AREA. -- 208 mi².

MTN

78 92

PERIOD OF RECORD. -- May 1981 to current year (gage heights only).

GAGE. -- Water-stage recorder. Datum of gage is at sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 85.00 ft, Feb. 17, 1998; minimum, 75.89 ft, June 21, 2001.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DATLY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 78.47 77.30 75.93 79.26 78.90 76.78 77.26 76.30 79.20 79.12 77.76 77.73 77.71 76.75 76.72 77.24 77.23 77.21 2 79.25 78.89 78.44 77.24 77.34 76.28 75.95 79.22 79.11 77.22 77.38 77.43 75.95 75.96 3 79.25 78.86 78.41 76.25 79.23 79.10 5 79.26 78.83 78.34 77.69 77 21 76.74 77.48 77.18 76.20 76.00 79 23 79.14 79.26 78.32 76.71 79.14 77.65 79 24 78.79 78 29 77.19 76 68 77.56 77.11 76.25 76.05 79.24 79.11 77.08 77.05 78.27 77.64 77.17 77.60 76.06 8 79.24 78.76 76.66 76.26 79.22 79.10 79.21 78.74 78.25 77.63 77.16 77.62 76.26 76.06 79.22 79.10 10 79 19 78.72 78.23 77.61 77 16 76.62 77.64 77 02 76.23 76.06 79 23 79 11 79.22 11 79.18 78.69 78.21 77.59 77.14 76.61 77.65 76.99 76.20 76.06 79.11 12 79.18 78.66 78.21 77.57 77.13 76.58 77.66 76.96 76.17 76.06 79.20 79.13 77.55 77.67 76.93 79.17 78.64 78.19 77.11 76.58 76.14 76.11 79.19 79.15 13 14 79.15 78.62 78.17 77.54 77.10 76.59 77.67 76.90 76.11 76.17 79.19 79.33 15 79.13 78.60 78.15 77.52 77.08 76.57 77.67 76.87 76.07 76.20 79.18 79.61 16 79 11 78.58 78.13 77.50 77.07 76 55 77.66 76.84 76 03 76 21 79.18 79.48 77.48 77.46 77.43 17 79.09 78.56 78.11 77.04 76.54 77.65 76.79 76.00 76.26 79.19 79.46 76.75 76.70 79.08 78.54 77.02 77.62 75.97 76.35 79.46 18 78.08 76.52 79.18 19 79.06 78.52 78 05 77.00 76.58 77.61 75.95 76.41 79.18 79 48 77.42 20 79.05 77.58 75.93 76.46 79.49 78.50 78.03 76.98 76.72 76.64 79.17 21 79 03 78 47 78 01 77.39 77.37 76 96 76 78 77.56 77.53 76 60 75 91 76 57 79 17 79 50 77.99 76.93 22 79.01 75.92 79.17 79.51 78.44 76.94 76.82 76.57 78.99 78.43 77.96 77.34 77.50 76.56 75.95 77.86 79.15 79.51 23 76.92 76.85 77.46 77.44 24 78.98 78.41 77.94 77.32 76.90 76 88 76.52 75.94 78.19 79.15 79 51 77.29 77.92 25 78.98 76.90 75.92 78.41 79.14 79.54 78.40 76.87 76.49 26 78 98 78 44 77.89 77.27 76 85 76 93 77.41 76.48 75 92 78 57 79 14 79 55 27 78.97 77.88 77.24 76.94 77.38 75.95 78.71 79.14 79.56 78.49 76.83 76.44 28 78.96 78.50 77.87 77.22 76.81 76.95 77.35 76.40 75.98 78.84 79.13 79.55 29 78.95 78.50 77.86 77.83 77.19 77.17 77.01 77.32 77.28 76.38 76.36 75.98 78.95 79.13 79 56 78.93 77.19 79.03 79.13 30 78.49 75.95 79.55 31 78.92 77.81 77.21 77.25 76.33 79.12 79.12 MEAN 79.11 78.12 77.48 77.06 76.75 77.52 76.81 76.89 79.18 79.34 78.62 76.08 MAX 79.26 78.90 78.47 77.79 77.24 77.25 77.67 77.26 76.30 79.12 79.25 79.61

76 52

77 28

76 33

75 91

75 93

79 12

79 10

CAL YR 2000 MEAN 79.18 MAX 80.07 MIN 77.81 WTR YR 2001 MEAN 77.75 MAX 79.61 MIN 75.91

77 81

78 40

77 17

76 81

02237293 PALATLAKAHA RIVER AT STRUCTURE M-1, NEAR OKAHUMPKA, FL

LOCATION.--Lat $28^{\circ}44^{\circ}39^{\circ}$, long $81^{\circ}52^{\circ}22^{\circ}$, in $SE^{1/4}_{4}$ sec.14, T.20 S., R.24 E., Lake County, Hydrologic Unit 03080102, on left bank 150 ft upstream from structure M-1, 270 ft downstream from CSX Railroad bridge, 0.3 mi upstream from bridge on State Highway 48, and 1.4 mi east of Okahumpka.

DRAINAGE AREA. -- 221 mi².

PERIOD OF RECORD.--January 1970 to July 1976, October 1976 to current year.

REVISED RECORDS.--WDR FL-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records fair. Flow regulated by manipulation of gates in spillway. Discharge computed from relation between discharge, head, and gate openings.

COOPERATION.--Gate-opening record provided by the Lake County Water Authority.

	-	DISCHARGE	, CUBIC	FEET PER		WATER Y MEAN V	YEAR OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 1.1 4.8
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	3.7 3.6 3.4 3.3 3.2
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	3.1 3.0 2.9 2.7 2.6
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.4 2.3 2.1 2.3 2.6
TOTAL MEAN MAX MIN CFSM IN.		0.00 .000 .00 .00 .00						0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	49.10 1.64 4.8 .00 .01
STATIST	ICS OF MOI	NTHLY MEAN				- 2001	L, BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	20.2 238 1996 .000 1979	8.38 93.9 1996 .000 1979	13.6 154 1998 .000 1979	46.1 439 1998 .000 1981	47.6 540 1998 .000 1981	61.1 605 1998 .000 1981	365 1998 .000	8.72 81.5 1970 .000 1977	6.35 57.2 1970 .000 1977	18.6 198 1983 .000 1977	18.8 311 1984 .000 2000	25.4 201 1995 .000 1977
SUMMARY	STATISTI	CS	FOR 20	000 CALENI	DAR YEAR		FOR 2001 WAT	TER YEAR		WATER YEA	RS 1970	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				256.75 .70 3.7 .00 .00 .003 .04 3.1 .00 .00	Jan 1- Many da May 1	4 ys	49.10 .13 4.8 .00 .00 71.28 .001 .01 .00 .00	Sep 15 Oct 1- Oct 1 Sep 15	Sep 13	27.1 194 727 .00 .00 74.18 .12 1.66 57 2.3	Feb 2 Some Some Apr	1970 2001 20 1998 2 years 2 years 3 1970

02237293 PALATLAKAHA RIVER AT STRUCTURE M-1, NEAR OKAHUMPKA, FL--Continued

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

					Ditt	1 1111111 111	шодь					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	70.14 70.13 70.12 70.12 70.12	69.46 69.44 69.41 69.39 69.37	69.04 69.02 69.01 68.99 68.98	68.71 68.69 68.68 68.67 68.66	68.52 68.52 68.51 68.52 68.51	68.19 68.18 68.17 68.19 68.21	68.53 68.53 68.51 68.51 68.50	67.99 67.97 67.96 67.96 67.94	67.44 67.43 67.41 67.39 67.37	67.18 67.15 67.12 67.08 67.07	68.20 68.21 68.24 68.26 68.29	68.46 68.44 68.42 68.43 68.61
6 7 8 9 10	70.11 70.10 70.08 70.05 70.02	69.35 69.34 69.32 69.29	68.97 68.95 68.94 68.93 68.92	68.65 68.64 68.65 68.65 68.63	68.49 68.47 68.45 68.43 68.41	68.18 68.15 68.13 68.12 68.12	68.50 68.48 68.46 68.45 68.43	67.92 67.90 67.88 67.86 67.84	67.41 67.41 67.38 67.36 67.33	67.09 67.09 67.06 67.04 67.04	68.34 68.36 68.37 68.39 68.43	68.76 69.28 69.56 69.69
11 12 13 14 15	70.00 69.97 69.94 69.92 69.88	69.25 69.23 69.21 69.20 69.18	68.91 68.91 68.90 68.89 68.88	68.62 68.61 68.60 68.59 68.58	68.40 68.39 68.37 68.37	68.11 68.09 68.11 68.18 68.16	68.41 68.39 68.37 68.35 68.33	67.82 67.79 67.78 67.76 67.74	67.31 67.29 67.26 67.24 67.22	67.04 67.04 67.11 67.19 67.20	68.48 68.53 68.55 68.57 68.58	69.84 69.91 69.98 70.39 71.21
16 17 18 19 20	69.85 69.82 69.78 69.75	69.16 69.15 69.13 69.11 69.09	68.87 68.85 68.83 68.82 68.81	68.57 68.56 68.55 68.54 68.53	68.35 68.33 68.32 68.31 68.29	68.15 68.14 68.12 68.19 68.36	68.31 68.28 68.24 68.22 68.20	67.72 67.69 67.67 67.64 67.62	67.20 67.19 67.19 67.17 67.15	67.16 67.14 67.16 67.21 67.26	68.62 68.66 68.68 68.69 68.69	71.12 71.07 71.02 70.98 70.95
21 22 23 24 25	69.70 69.67 69.64 69.62 69.60	69.07 69.05 69.04 69.02 69.01	68.80 68.79 68.78 68.77 68.75	68.51 68.50 68.49 68.48 68.46	68.28 68.27 68.26 68.25 68.24	68.37 68.37 68.36 68.35 68.33	68.17 68.15 68.13 68.11 68.09	67.60 67.59 67.59 67.56 67.54	67.14 67.16 67.18 67.18 67.16	67.36 67.51 67.84 67.95 68.00	68.69 68.69 68.68 68.66 68.64	70.90 70.86 70.85 70.80 70.78
26 27 28 29 30 31	69.60 69.57 69.55 69.52 69.50 69.48	69.05 69.11 69.10 69.08 69.06	68.74 68.73 68.75 68.76 68.74 68.73	68.45 68.44 68.42 68.41 68.41	68.23 68.22 68.20 	68.32 68.29 68.28 68.33 68.51 68.53	68.08 68.05 68.03 68.01 68.00	67.53 67.51 67.49 67.49 67.48 67.45	67.13 67.11 67.11 67.10 67.14	68.02 68.05 68.08 68.10 68.10	68.62 68.59 68.57 68.54 68.51 68.49	70.74 70.71 70.68 70.72 70.76
MEAN MAX MIN	69.84 70.14 69.48	69.20 69.46 69.01	68.86 69.04 68.73	68.56 68.71 68.41	68.37 68.52 68.20	68.24 68.53 68.09	68.29 68.53 68.00	67.72 67.99 67.45	67.25 67.44 67.10	67.41 68.13 67.04	68.51 68.69 68.20	70.12 71.21 68.42

CAL YR 2000 MEAN 69.75 MAX 71.13 MIN 68.62 WTR YR 2001 MEAN 68.53 MAX 71.21 MIN 67.04

02237700 APOPKA-BEAUCLAIR CANAL NEAR ASTATULA, FL

LOCATION.--Lat $28^{\circ}43^{\circ}20^{\circ}$, long $81^{\circ}41^{\circ}06^{\circ}$, in NW^{\downarrow}_{4} sec.26, T.20 S., R.26 E., Lake County, Hydrologic Unit 03080102, near left bank 80 ft upstream from lock and dam, 500 ft upstream from bridge on County Road 48, and 3.0 mi east of Astatula.

DRAINAGE AREA.--184 mi².

PERIOD OF RECORD.--July 1942 to June 1948 (discharge measurements only at site 1.5 mi downstream), July 1958 to current year.

REVISED RECORDS. -- WSP 1905: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level. Prior to June 1948, nonrecording gage at site 1.5 mi downstream at datum 60.68 ft higher. March to June 1958, nonrecording gage at present site and datum. Since July 1958, auxiliary water-stage recorder at downstream side of lock and dam at same datum.

REMARKS.--Records fair. Since May 1956, flow regulated at station by manipulation of gates in spillway. Discharge computed from relation between discharge, head, and gate openings.

COOPERATION.--Gate-opening record provided by St. Johns River Water Management District.

		DISCHAR	GE, CUBIC	FEET PER		WATER YI MEAN V	EAR OCTOBE	R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19 19 19 19	22 22 22 22 22	20 21 20 19 23	24 24 24 23 24	22 22 21 21 22	20 20 21 22 11	11 12 13 12	7.8 7.5 7.6 7.6 7.4	.90 1.7 2.3 2.2 2.6	2.4 1.0 1.7 .70	9.6 12 12 12 14	2.9 5.1 6.5 5.9 5.9
6 7 8 9 10	19 19 18 17 18	22 22 22 22 21	25 25 26 26 26	24 24 24 23 23	23 23 23 24 23	9.5 12 18 18 16	13 13 12 12 10	7.5 7.2 7.1 7.0 6.9	.70 .80 .70 .00	.10 .20 .00 .10	15 11 9.3 8.4 9.5	8.4 11 17 20 19
11 12 13 14 15	20 23 23 23 23	21 21 21 21 20	26 26 26 26 26	24 24 23 24 24	22 22 22 22 22	16 17 11 11	10 9.7 9.1 8.4 8.4	7.4 6.9 6.4 9.4	1.1 2.7 .00 .00	.00 .00 .00 .00	12 12 11 9.1 9.3	17 22 18 28 21
16 17 18 19 20	23 23 23 23 23	21 21 20 21 20	26 25 24 24 24	24 24 24 25 24	22 21 20 22 22	10 9.7 9.3 10 10	7.6 7.4 7.1 8.5 8.8	10 9.2 9.5 9.2 8.8	.00 .00 .30 .80	.00 .30 .70 .10	11 12 13 12 12	47 40 22 23 23
21 22 23 24 25	23 23 23 22 22	19 20 20 21 21	24 24 24 24 24	23 22 20 22 21	22 21 20 22 22	9.1 9.8 10 11 10	8.6 8.5 8.6 8.4 7.5	8.8 9.7 4.6 2.8 5.2	.10 .00 .00 .00	.40 6.9 23 14 9.9	10 11 9.8 6.6 5.3	22 23 23 22 22
26 27 28 29 30 31	22 22 22 22 22 22	20 20 21 20 20	24 24 25 24 23 23	22 22 22 23 24 23	20 21 20 	9.9 9.7 11 12 13 12	6.5 7.6 7.6 8.4 7.6	4.4 2.6 3.8 2.4 .30	2.5 1.8 .10 .20 .70	6.6 6.4 5.2 4.2 2.0 3.1	2.5 5.8 6.8 5.4 4.2 4.3	21 22 21 19 20
TOTAL MEAN MAX MIN	658 21.2 23 17	628 20.9 22 19	747 24.1 26 19	721 23.3 25 20	609 21.8 24 20	400.0 12.9 22 9.1	284.3 9.48 13 6.5	207.10 6.68 12 .10	26.30 .88 2.7 .00	89.50 2.89 23 .00	297.9 9.61 15 2.5	577.7 19.3 47 2.9
STATIST	TICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1958	3 - 2001	, BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	67.3 343 1961 .000 1972	49.3 280 1970 .000 1972	55.7 336 1995 .000 1972	84.2 540 1998 .000 1965	85.4 414 1998 .000 1968	108 450 1983 .065 1968	106 480 1983 .10 1968	42.9 316 1959 .19 1968	56.8 278 1959 .000 1971	59.7 336 1968 .000 1971	76.9 384 1995 .000 1971	91.2 344 1968 .000 1971
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	I	FOR 2001 W	ATER YEAR		WATER Y	EARS 1958	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC		CAN CAN IN MINIMUM GE CDS CDS		8461 23.1 29 17 18 28 22 19	Jan 1- Oct 9 Oct 4	-4	5245.8 14.4 47 .0 .0 64.9 24 16 .7	Sep 16 0 Many da 1 Jul 8 1 Oct 3		73.5 224 5.00 754 .00 .00 68.4 255 30 7.0	Mar O Som O Som	1970 1958 19 1960 e years e years 6 1960

02237700 APOPKA-BEAUCLAIR CANAL NEAR ASTATULA, FL--Continued

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 3 4 5	64.52 64.62 64.64 64.58 64.62	64.29 64.29 64.26 64.27 64.25	64.12 64.13 64.05 63.96 64.02	63.95 63.94 63.93 63.91 63.94	63.83 63.78 63.76 63.76 63.77	63.65 63.71 63.79 63.83 63.42	63.70 63.90 63.95 63.82 63.88	63.51 63.48 63.49 63.49	63.03 63.05 63.08 63.09 63.08	63.06 63.01 63.03 63.00 62.95	63.23 63.28 63.28 63.29 63.32	63.11 63.16 63.19 63.17 63.18
6 7 8 9 10	64.60 64.54 64.46 64.30 64.39	64.26 64.31 64.34 64.31 64.19	64.05 64.07 64.08 64.10 64.08	63.94 63.95 63.97 63.87 63.90	63.85 63.87 63.91 63.92 63.85	63.39 63.46 63.59 63.59 63.54	63.96 63.92 63.88 63.84 63.83	63.48 63.44 63.44 63.42 63.40	63.01 63.02 63.02 62.95 62.98	62.94 62.92 62.88 62.93 62.81	63.33 63.27 63.24 63.23 63.25	63.22 63.27 63.35 63.41 63.39
11 12 13 14 15	64.45 64.44 64.41 64.40 64.41	64.14 64.18 64.20 64.22 64.09	64.10 64.11 64.12 64.12 64.12	63.94 63.94 63.88 63.93 63.96	63.82 63.81 63.81 63.82 63.81	63.56 63.67 63.69 63.67 63.77	63.95 63.85 63.76 63.65 63.65	63.47 63.41 63.35 63.36 63.38	63.01 63.02 62.80 62.87 63.05	62.82 62.84 62.85 62.86 62.93	63.29 63.29 63.28 63.24 63.24	63.37 63.43 63.38 63.50 63.40
16 17 18 19 20	64.42 64.43 64.40 64.42 64.39	64.14 64.14 64.11 64.15 64.04	64.17 64.03 63.99 64.00 63.95	63.96 63.95 63.97 64.05 63.96	63.82 63.74 63.70 63.77 63.80	63.65 63.55 63.51 63.63 63.65	63.52 63.50 63.46 63.66 63.71	63.29 63.24 63.25 63.24 63.24	62.95 62.95 62.97 63.01 62.98	62.87 62.89 62.98 62.94 62.88	63.27 63.29 63.31 63.29 63.28	63.71 63.83 63.89 63.91 63.91
21 22 23 24 25	64.41 64.38 64.36 64.34 64.31	64.00 64.02 64.07 64.15 64.15	64.00 64.00 63.98 63.93 63.93	63.85 63.79 63.69 63.79	63.80 63.76 63.70 63.81 63.78	63.50 63.56 63.64 63.69 63.63	63.67 63.66 63.68 63.65 63.51	63.25 63.27 63.15 63.11 63.17	62.96 62.99 63.06 63.09 63.04	62.93 63.21 63.50 63.32 63.25	63.26 63.27 63.25 63.19 63.17	63.90 63.91 63.91 63.90 63.84
26 27 28 29 30 31	64.31 64.29 64.32 64.34 64.31	64.09 64.11 64.13 64.12 64.11	63.95 64.00 64.02 63.94 63.89	63.82 63.82 63.83 63.88 63.96 63.88	63.70 63.75 63.69 	63.58 63.55 63.70 63.93 63.98 63.87	63.38 63.53 63.53 63.65 63.52	63.14 63.10 63.13 63.08 62.99 62.95	63.09 63.03 62.96 62.96 63.02	63.19 63.18 63.16 63.14 63.08 63.11	63.09 63.18 63.19 63.17 63.14	63.80 63.82 63.81 63.64 63.67
MEAN MAX MIN	64.42 64.64 64.29	64.17 64.34 64.00	64.03 64.17 63.89	63.90 64.05 63.69	63.79 63.92 63.69	63.64 63.98 63.39	63.71 63.96 63.38	63.30 63.51 62.95	63.00 63.09 62.80	63.01 63.50 62.81	63.24 63.33 63.09	63.57 63.91 63.11

CAL YR 2000 MEAN 65.17 MAX 66.61 MIN 63.89 WTR YR 2001 MEAN 63.65 MAX 64.64 MIN 62.80

02237701 APOPKA-BEAUCLAIR CANAL BELOW DAM, NEAR ASTATULA, FL

LOCATION.--Lat $28^{\circ}43^{\circ}22^{\circ}$, long $81^{\circ}41^{\circ}06^{\circ}$, in NW $^{1}_{4}$ sec.26, T.20 S., R.26 E., Lake County, Hydrologic Unit 3080102, near left bank at downstream end of lock, 300 ft upstream from bridge on County Road 48, and 3.0 mi east of Astatula.

DRAINAGE AREA. -- 184 mi².

PERIOD OF RECORD.--January 1957 to current year (gage heights only). Prior to October 1967, published as Apopka-Beauclair Canal near Astatula (auxiliary).

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level. Prior to July 14, 1958, nonrecording gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 65.93 ft, Mar. 14, 1958; minimum, 59.71 ft, June 12-15, 17, 22, 2001.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY 61.35 60.98 60.82 60.71 60.78 60.65 60.83 60.27 59.88 60.05 60.38 60.51 60.95 60.70 60.25 59.90 61.31 60.82 60.78 60.64 60.84 59.90 60.43 60.63 3 61 29 60.94 60 84 60.71 60.76 60.64 60.75 60.24 59 90 59 88 60.46 60 62 60.79 60.70 59.89 4 61.29 60.95 60.84 60.75 60.66 60.26 59.84 60.45 60.88 60.78 61.29 6 60.83 60.75 60.61 60.83 61.28 60.93 60.69 60.73 60.19 59.81 59.83 60.65 61.29 60.92 60.83 60.71 60.73 60.60 60.71 60.18 59.81 59.84 60.51 60.94 8 61.30 60.92 60 81 60 70 60.71 60 68 60 70 60.17 59 81 59 84 60.48 60 89 61.31 60.89 60.80 60.71 60.71 60.76 60.69 60.14 59.77 59.83 60.53 60.90 10 61.21 60.89 60.81 60.71 60.72 60.75 60.71 60.11 59.78 59.82 60.66 60.89 11 61.19 60.91 60.81 60.70 60.74 60.76 60.68 60.12 59.80 59.80 60.64 60.86 12 61.16 60.88 60.83 60.71 60.74 60.65 60.65 60.15 59.82 59.78 60.61 60.92 13 60.71 60.73 60.14 59.72 61.15 60.85 60.84 60.54 60.64 59.81 60.65 60.90 14 61.15 60.85 60.83 60.68 60.75 60.59 60.65 60.18 59.72 59.92 60.65 61.66 15 61.12 60.86 60.84 60.64 60.75 60.52 60.63 60.17 59.83 59.90 60.60 62.21 16 61.10 60.82 60.84 60.63 60.73 60.56 60.63 60.14 59.85 60.68 61.93 61.10 61.10 60.82 60.84 60.81 60.82 60.65 60.73 60.75 60.57 60.59 60.09 59.76 59.77 59.85 59.97 60.78 60.77 61.75 61.49 17 18 19 61.09 60.81 60.80 60.62 60.62 60.05 59.80 20 61.10 60.83 60.79 60.66 60.68 60.74 60.45 60.06 59.81 60.01 60 76 61.49 21 59.75 61.09 60.81 60.77 60.67 60.69 60.44 60.08 61.47 61.07 61.07 60.78 60.77 60.76 60.76 60.68 60.67 60.65 60.66 60.69 60.42 60.13 60.04 59.72 59.74 60.13 61.14 60.74 60.72 61.44 61.44 22 23 60.76 59.75 61.05 25 61.03 60.74 60.77 60.64 60.62 60.67 60.39 59.99 59.86 60.48 60.63 61.50 26 61.04 60.81 60.75 60.62 60.61 60.66 60.42 59.97 59.81 60.33 60.60 27 61.02 60.88 60.86 60.72 60.73 60.65 60.67 60.64 60.64 60.65 60.36 60.31 59.94 59.94 59.77 59.76 60.35 60.42 60.61 60.61 61.51 28 61.00 60.60 61.49 60.67 29 61.00 60.84 60.76 ---60.59 60.28 59.91 59.74 60.32 60.57 61.49 30 61 00 60.83 60 73 60 67 60.83 60 28 59.86 59 84 60 27 60 53 61 46 60.99 60.73 31 60.73 60.81 59.85 MEAN 61 15 60 86 60 80 60 68 60 71 60 65 60 57 60 10 59 80 60 07 60 61 61 25

60.83

60.52

60.84

60.28

60.27

59.85

59.90

59.72

61.14

59.78

62.21

60.51

60.78

60.38

60.78

60.61

60.73

60.62

CAL YR 2000 MEAN 61.63 MAX 62.76 MIN 60.72 WTR YR 2001 MEAN 60.60 MAX 62.21 MIN 59.72

60.84

60.72

60.98

60.74

61.35

60.99

MAX

MIN

02237734 WOLF BRANCH AT FCRR NEAR MOUNT DORA, FL

LOCATION.--Lat $28^{\circ}47^{\circ}47^{\circ}$, long $81^{\circ}36^{\circ}29^{\circ}$, in NW $\frac{1}{4}$ sec.34, T.19 S., R.27 E., Lake County, Hydrologic Unit 3080102, on right bank 50 ft downstream from culvert under Florida Central Railroad, 0.25 mi south of State Highway 46, 1.1 mi east of U.S. Highway 441, and 2.1 mi southeast of Mount Dora.

DRAINAGE AREA. -- 4.67 mi².

PERIOD OF RECORD.--July to September 1991 (discharge measurements only), January 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (St. Johns River Water Management District bench mark). Prior to Mar. 4, 1997, at datum 67.39 ft higher, and Mar. 4, 1997 to Mar. 26, 1998, at datum 76.00 ft higher.

REMARKS.--Records good.

		DISCHARGE	E, CUBIC	FEET PER			YEAR OCTOBER VALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.1 1.0 .97 .99	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .02 .04	.20 .23 .26 .73
6 7 8 9 10	.87 .79 .71 .63	.00 .00 .00 .00	.00 .00 .00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.23 .72 .83 .90	1.2 1.8 2.0 2.0
11 12 13 14 15	.47 .40 .34 .30	.00 .00 .00 .00	e.00 e.00 e.00 e.00 e.00		.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.3 1.4 1.5 1.7	2.1 2.0 2.3 5.5
16 17 18 19 20	.21 .18 .15 .13	.00 .00 .00 .00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.7 1.7 1.6 1.5	26 22 19 16 14
21 22 23 24 25	.10 .08 .06 .04		e.00 e.00 e.00 e.00		.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.89 .77	12 10 9.2 8.9 8.2
26 27 28 29 30 31	.02 .00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00	.00	.00	.00 .00 .00 .00	.66 .54 .43 .34 .27	7.5 6.9 6.3 6.0 5.4
MAX MIN CFSM IN.	.00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	.00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00 .00	.00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	26.96 .87 1.7 .00 .19	218.92 7.30 26 .20 1.56 1.74
MEAN MAX (WY) MIN (WY)	2.74 7.47 1996 .001 1998	1.61 7.04 1995	1.94 7.51 1995 .000 2001	2.48 6.83 1996 .000 2001	1.61 6.18 1998 .000 1992	1.80 7.80 1998 .000 1992	.96 4.25 1996 .000	.21 1.45 1996 .000 1992	.65 2.04 1994 .000 1992	1.60 4.28 1998 .000 2000	1.75 9.01 1995 .004 1992	3.27 7.30 2001 .006 1997
SUMMARY	Y STATISTI	CS	FOR 2	000 CALENI	OAR YEAR		FOR 2001 WA	TER YEAR		WATER Y	EARS 1992	2 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		AN AN N MINIMUM W GE FSM) NCHES) DS		72.36 .20 2.3 .00 .00	Sep 23 Many day Mar 29	rs	257.29 .70 .70 .00 .00 .00 .26 .77.34 .15 2.05 1.1	Sep 16 Many da Oct 27 Sep 16 Sep 16	ıys	1.8. 4.0: .4 28 .00 .00 28 .77.3 .3: 5.3: 4.7 .5: .00	2 4 Nov 0 Ma Nov 4 Sep 9	1995 1997 17 1994 my days my days 17 1994 16 2001

e Estimated

02238000 HAINES CREEK AT LISBON, FL

LOCATION.--Lat $28^{\circ}52^{\circ}14^{\circ}$, long $81^{\circ}47^{\circ}02^{\circ}$, in NW $^{1}_{4}$ sec.2, T.19 S., R.25 E., Lake County, Hydrologic Unit 03080102, on right bank at upstream side of Burrell lock and dam, 900 ft upstream from bridge on State Highway 44, 0.2 mi south of Lisbon, and 7 mi northeast of Leesburg.

DRAINAGE AREA. -- 648 mi².

PERIOD OF RECORD.--July 1942 to September 1978, October 1978 to September 1985 (gage heights only), October 1985 to current year.

REVISED RECORDS. -- WDR FL-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Mar. 16, 1998 datum of gage at present site 0.30 ft lower. Prior to Aug. 22, 1956, nonrecording gage at site 1,000 ft downstream at datum 58.93 ft higher, and Aug. 22, 1956 to Mar. 5, 1957, at present datum. Mar. 6 to Oct. 8, 1957, nonrecording gage at present site at datum 0.30 ft higher. Oct. 9, 1957 to Sept. 30, 1996, water-stage recorder at present site at present datum. Mar. 6 to Oct. 8, 1957, auxiliary non- recording gage and Oct. 9, 1957 to Sept. 30, 1996, auxiliary water-stage recorder at downstream side of lock and dam at present datum. Since Oct. 1, 1996, auxiliary water-stage recorder at downstream side of lock and dam at present datum.

REMARKS.--Records poor. Since Dec. 23, 1956, flow regulated at station by manipulation of gates in spillway. Discharge computed from relation between discharge, head, gate openings, and lockages. See WDR FL-91 for history of low flows and minimum gage heights.

COOPERATION.--Gate-opening record provided by St. Johns River Water Management District.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood of 1926 reached a stage of about 65.3 ft, former site and present datum, from information by local residents.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 25 30 32 35	24 25 25 24 24	21 22 17 17 26	25 23 21 25 29	34 34 32 34 32	26 28 30 29 23	9.0 6.1 7.5 6.7 6.1	8.8 9.0 10 9.6 13	24 26 27 24 25	27 24 24 26 24	26 25 25 27 27	25 25 24 21 21
6 7 8 9 10	35 32 29 10 11	25 33 32 34 28	29 28 31 32 32	30 29 30 28 26	27 28 28 28 27	16 14 24 12 14	7.3 9.7 8.7 6.5	15 11 11 11 12	24 24 24 27 26	24 26 25 23 23	25 26 26 26 26	21 21 25 25 22
11 12 13 14 15	19 28 26 28 31	26 25 24 30 26	31 36 34 36 32	29 30 31 30 32	28 27 27 26 28	15 13 8.7 12 9.4	7.7 6.7 8.4 11 9.6	13 15 15 13 14	24 23 23 24 24	24 24 23 25 24	30 30 23 22 22	21 21 21 21 3.7
16 17 18 19 20	27 26 24 24 27	27 28 24 26 23	31 29 20 19 16	32 31 32 36 32	29 28 20 26 32	8.8 12 8.5 7.0 5.2	7.4 7.8 6.6 6.7 9.1	14 15 17 22 22	26 26 23 23 23	24 23 24 24 24	21 22 24 25 21	5.8 4.3 4.1 6.0 4.0
21 22 23 24 25	31 29 28 29 42	24 23 23 26 27	20 23 20 17 17	27 23 20 26 23	32 34 28 29 31	5.9 6.6 8.5 11 9.5	9.1 11 8.4 8.0 6.8	24 24 27 25 25	23 23 23 24 23	25 25 25 25 25	22 23 22 22 25	60 48 50 46 44
26 27 28 29 30 31	45 45 34 34 27 27	30 27 24 22 20	17 27 33 32 29 25	23 24 26 25 28 30	29 29 28 	8.0 7.9 8.0 4.7 4.2 7.2	7.1 8.0 12 9.1 8.2	28 29 26 24 24 24	23 23 23 23 25	26 25 27 29 25 25	25 21 22 22 21 22	43 92 30 28 26
TOTAL MEAN MAX MIN	890 28.7 45 10	779 26.0 34 20	799 25.8 36 16	856 27.6 36 20	815 29.1 34 20	397.1 12.8 30 4.2	267.3 8.91 31 6.1	550.4 17.8 29 8.8	723 24.1 27 23	767 24.7 29 23	746 24.1 30 21	808.9 27.0 92 3.7
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	R WATER Y	EARS 1957	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	161 1128 1961 .000 1957	144 1180 1961 .000 1957	133 1009 1961 5.81 1957	201 1409 1998 1.87 1975	227 1397 1998 1.57 1975	339 1495 1998 2.19 1975	321 1210 1987 4.77 1968	173 1191 1960 3.52 1968	191 1073 1960 14.0 1957	216 1008 1960 14.2 1957	224 1057 1960 13.3 1967	234 995 1960 27.0 2001
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	IDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1957	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC		AN A		14263 39.0 161 10 19 73 32 23	Apr 1 Oct 9 Dec 20		8398.7 23.0 92 3.7 6.5 61.72 32 24 8.5	Sep 27 Sep 15 Mar 29 Sep 22		214 892 23.0 *1560 .00 64.50 802 57 21		1960 2001 e years e years 8 1960

^{*} Feb 26, Mar 9, 1998

02238000 HAINES CREEK AT LISBON, FL--Continued

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

					DAIL	I MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	61.47 61.48 61.47 61.49 61.50	61.15 61.15 61.14 61.13 61.13	60.98 60.98 60.94 60.90 60.92	60.84 60.82 60.81 60.81 60.83	60.86 60.86 60.84 60.86 60.88	60.80 60.81 60.82 60.84 60.79	60.96 60.95 60.95 60.92 60.91	60.46 60.44 60.44 60.43 60.41	60.06 60.05 60.03 60.03 60.02	60.05 60.05 60.04 60.02 60.02	60.56 60.56 60.58 60.60 60.63	60.71 60.70 60.69 60.69 60.74
6 7 8 9 10	61.50 61.47 61.44 61.31 61.32	61.12 61.12 61.12 61.12 61.09	60.93 60.92 60.93 60.93	60.82 60.82 60.84 60.82 60.81	60.88 60.88 60.88 60.89	60.73 60.71 60.70 60.69 60.67	60.92 60.92 60.91 60.90 60.89	60.40 60.37 60.35 60.33 60.34	60.02 60.02 60.01 60.00 59.98	60.03 60.03 60.02 60.02 60.00	60.65 60.65 60.64 60.64 60.70	60.77 60.82 60.85 60.86 60.87
11 12 13 14 15	61.32 61.31 61.30 61.29 61.30	61.05 61.04 61.05 61.05 60.99	60.94 60.97 60.96 60.97 60.97	60.82 60.83 60.82 60.82 60.83	60.88 60.87 60.88 60.89	60.67 60.70 60.73 60.74 60.76	60.89 60.86 60.85 60.83 60.82	60.33 60.32 60.31 60.30 60.28	59.96 59.95 59.93 59.90 59.89	60.00 60.00 60.03 60.03 60.01	60.80 60.83 60.86 60.84 60.84	60.86 60.87 60.86 61.01 61.38
16 17 18 19 20	61.30 61.29 61.28 61.28	61.00 61.01 60.97 60.98 60.93	60.99 60.98 60.92 60.91 60.88	60.83 60.83 60.83 60.86 60.85	60.89 60.89 60.82 60.82	60.75 60.73 60.68 60.74 60.88	60.78 60.74 60.67 60.67	60.27 60.25 60.23 60.21 60.19	59.87 59.85 59.87 59.90 59.89	60.00 60.00 60.06 60.08 60.09	60.84 60.87 60.89 60.89	61.56 61.60 61.62 61.64 61.64
21 22 23 24 25	61.25 61.23 61.21 61.19 61.18	60.91 60.90 60.90 60.91 60.93	60.87 60.87 60.84 60.82 60.82	60.81 60.78 60.76 60.79 60.77	60.84 60.84 60.81 60.82 60.83	60.88 60.86 60.85 60.85 60.84	60.64 60.61 60.61 60.60 60.59	60.19 60.21 60.17 60.15 60.13	59.88 59.88 59.89 59.89	60.15 60.32 60.50 60.54 60.52	60.87 60.86 60.84 60.82 60.80	61.64 61.63 61.63 61.66 61.67
26 27 28 29 30 31	61.19 61.19 61.20 61.19 61.17	60.95 61.00 61.00 60.99 60.98	60.81 60.86 60.90 60.89 60.87 60.84	60.77 60.78 60.77 60.78 60.81 60.84	60.82 60.81 	60.82 60.79 60.77 60.86 60.98	60.53 60.52 60.52 60.51 60.46	60.12 60.09 60.10 60.10 60.08 60.07	59.88 59.88 59.94 59.96 60.01	60.51 60.52 60.51 60.51 60.49 60.49	60.77 60.77 60.77 60.75 60.74 60.73	61.65 61.65 61.63 61.59 61.57
MEAN MAX MIN	61.31 61.50 61.16	61.03 61.15 60.90	60.91 60.99 60.81	60.81 60.86 60.76	60.86 60.89 60.81	60.79 60.98 60.67	60.75 60.96 60.46	60.26 60.46 60.07	59.94 60.06 59.85	60.18 60.54 60.00	60.76 60.89 60.56	61.24 61.67 60.69

CAL YR 2000 MEAN 61.83 MAX 62.97 MIN 60.81 WTR YR 2001 MEAN 60.74 MAX 61.67 MIN 59.85

02238001 HAINES CREEK BELOW BURRELL DAM, AT LISBON, FL

LOCATION.--Lat $28^{\circ}52^{\circ}16^{\circ}$, long $81^{\circ}47^{\circ}04^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.2, T.19 S., R.25 E., Lake County, Hydrologic Unit 03080102, on left bank at downstream side of Burrell lock and dam, 750 ft upstream from bridge on State Highway 44, 0.2 mi south of Lisbon, and 7 mi northeast of Leesburg.

DRAINAGE AREA.--648 mi².

PERIOD OF RECORD.--March 1957 to current year (gage heights only). Prior to October 1967, published as Haines Creek at Lisbon (auxiliary).

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Oct. 9, 1957, nonrecording gage at present site at datum 0.30 ft higher. Oct. 10, 1957 to Sept. 30, 1996, water-stage recorder at present site at datum 0.30 ft higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 61.48 ft, Oct. 9, 1960; minimum observed, 52.90 ft, June 26,28, 1984, result of drawdown of Lake Griffin.

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 3 4 5	57.73 57.72 57.71 57.74 57.72	57.32 57.30 57.29 57.28 57.28	57.02 57.02 56.99 56.96 56.98	56.89 56.87 56.86 56.87 56.87	56.90 56.90 56.89 56.91 56.93	56.76 56.73 56.74 56.75 56.78	57.29 57.25 57.26 57.27 57.26	56.72 56.72 56.71 56.69 56.68	56.18 56.18 56.13 56.10 56.09	55.84 55.84 55.82 55.82 55.81	55.80 55.81 55.81 55.74 55.75	55.94 55.92 55.70 55.88 55.94	
6 7 8 9 10	57.72 57.70 57.66 57.58 57.56	57.26 57.25 57.23 57.24 57.23	56.97 56.95 56.96 56.96 56.94	56.86 56.86 56.89 56.91 56.87	56.92 56.91 56.90 56.92 56.91	56.71 56.66 56.63 56.64 56.61	57.27 57.27 57.26 57.26 57.24	56.65 56.64 56.61 56.61 56.59	56.10 56.08 56.07 56.07 56.04	55.79 55.80 55.80 55.78 55.77	55.82 56.04 56.00 55.99 56.15	55.94 55.96 56.02 56.00 56.01	
11 12 13 14 15	57.55 57.53 57.52 57.51 57.52	57.18 57.17 57.14 57.15 57.11	56.95 57.00 57.00 57.01 57.00	56.87 56.90 56.88 56.88 56.88	56.90 56.89 56.89 56.89 56.90	56.62 56.63 56.68 56.68 56.71	57.22 57.21 57.19 57.19 57.17	56.57 56.56 56.56 56.53	55.99 56.00 55.96 55.92 55.89	55.75 55.74 55.74 55.78 55.76	56.18 56.15 56.19 56.20 56.16	55.99 56.01 56.02 56.10 57.04	
16 17 18 19 20	57.50 57.50 57.48 57.47 57.45	57.10 57.12 57.08 57.10 57.07	57.01 57.06 56.98 56.99 56.95	56.88 56.88 56.89 56.90 56.94	56.89 56.89 56.82 56.81 56.82	56.70 56.70 56.67 56.79 57.04	57.13 57.11 57.02 57.00 56.99	56.52 56.49 56.46 56.43 56.42	55.88 55.85 55.84 55.82 55.81	55.76 55.72 55.74 55.74 55.72	56.12 56.10 56.13 56.15 56.13	57.06 57.10 57.12 57.16 57.18	
21 22 23 24 25	57.44 57.44 57.41 57.40 57.40	57.06 57.03 57.02 57.01 57.03	56.93 56.92 56.89 56.88 56.86	56.86 56.86 56.87 56.86 56.85	56.81 56.82 56.79 56.77	57.05 57.01 56.99 56.99	56.97 56.94 56.93 56.93 56.92	56.37 56.37 56.35 56.31 56.29	55.82 55.80 55.78 55.78 55.75	55.74 55.84 55.89 55.92 55.89	56.12 56.12 56.08 56.06 56.06	57.16 57.39 57.38 57.40 57.45	
26 27 28 29 30 31	57.39 57.39 57.37 57.36 57.35 57.33	57.07 57.09 57.07 57.05 57.04	56.86 56.87 56.94 56.95 56.96 56.92	56.82 56.82 56.82 56.82 56.84 56.87	56.79 56.76 56.77 	56.99 56.96 56.95 57.03 57.21 57.26	56.87 56.84 56.82 56.77 56.75	56.29 56.26 56.24 56.23 56.19	55.75 55.73 55.78 55.82 55.84	55.82 55.84 55.84 55.82 55.82 55.80	56.04 56.02 56.00 55.98 55.98	57.45 57.48 57.49 57.59 57.65	
MEAN MAX MIN	57.52 57.74 57.33	57.15 57.32 57.01	56.96 57.06 56.86	56.87 56.94 56.82	56.86 56.93 56.76	56.83 57.26 56.61	57.09 57.29 56.75	56.48 56.72 56.19	55.93 56.18 55.73	55.80 55.92 55.72	56.03 56.20 55.74	56.68 57.65 55.70	

CAL YR 2000 MEAN 57.79 MAX 58.83 MIN 56.86 WTR YR 2001 MEAN 56.68 MAX 57.74 MIN 55.70

02238499 OCKLAWAHA RIVER ABOVE MOSS BLUFF DAM, AT MOSS BLUFF, FL

LOCATION.--Lat $29^{\circ}04^{\circ}52^{\circ}$, long $81^{\circ}52^{\circ}51^{\circ}$, in SW_{4}^{1} sec.23, T.16 S., R.24 E., Marion County, Hydrologic Unit 03080102, at upstream side of spillway structure of Moss Bluff Dam, 0.3 mi upstream from bridge on State Highway 464, 0.4 mi southwest of Moss Bluff, 3.9 mi northeast of Ocklawaha, and 64.3 mi upstream from mouth.

DRAINAGE AREA.--879 mi².

PERIOD OF RECORD. -- October 1965 to June 1967, October 1969 to current year (gage heights only).

REVISED RECORDS.--WDR FL-74-1: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 0.30 ft above sea level. June 9, 1967 to Sept. 30, 1970, at datum 0.30 ft lower. Prior to June 9, 1967 at datum 0.42 ft lower. This is the auxiliary gage for station 02238500 located at downstream side of spillway structure.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 59.66 ft, Mar. 13, 1993; minimum, 45.45 ft, Mar. 6, 1973, result of dike failure.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			GAGE HEI	GIII, FEEI		Y MEAN VA		O DEFIEND	ER ZOOI			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57.06	56.66	56.28	56.03	55.95	56.14	56.81	56.25	55.76	55.48	55.42	55.58
2	57.07	56.65	56.27	56.00	55.98	56.34	56.81	56.26	55.75	55.47	55.39	55.54
3	57.08	56.62	56.23	55.96	55.95	56.42	56.85	56.24	55.70	55.41	55.47	55.54
4	57.07	56.61	56.15	55.93	55.94	56.45	56.80	56.20	55.68	55.40	55.49	55.54
5	57.09	56.60	56.12	55.93	55.95	56.26	56.80	56.20	55.66	55.43	55.52	55.57
6	57.09	56.59	56.14	55.95	55.96	56.13	56.85	56.20	55.67	55.43	55.61	55.58
7	57.06	56.59	56.15	55.94	55.97	56.17	56.84	56.12	55.65	55.41	55.65	55.63
8	57.02	56.59	56.15	55.95	55.96	56.19	56.82	56.12	55.62	55.37	55.64	55.66
9	56.90	56.60	56.15	55.94	55.97	56.21	56.80	56.11	55.60	55.41	55.74	55.68
10	56.85	56.60	56.15	55.91	55.98	56.13	56.80	56.15	55.58	55.38	55.80	55.64
11 12 13 14 15	56.85 56.84 56.83 56.83	56.54 56.50 56.48 56.49 56.44	56.13 56.17 56.18 56.20 56.19	55.91 55.92 55.92 55.92 55.92	55.97 55.95 55.93 55.93 55.95	56.20 56.24 56.29 56.26 56.41	56.83 56.79 56.76 56.70 56.71	56.15 56.13 56.11 56.07 56.10	55.56 55.64 55.54 55.47 55.45	55.41 55.41 55.41 55.29 55.28	55.79 55.79 55.79 55.79 55.82	55.63 55.66 55.62 55.58 56.24
16	56.85	56.42	56.19	55.92	55.96	56.31	56.61	56.08	55.42	55.26	55.81	56.67
17	56.85	56.43	56.26	55.91	55.99	56.22	56.58	56.04	55.38	55.31	55.79	56.75
18	56.85	56.40	56.22	55.91	55.94	56.16	56.48	56.01	55.36	55.35	55.80	56.79
19	56.84	56.41	56.18	55.94	55.91	56.27	56.57	55.98	55.41	55.36	55.79	56.82
20	56.82	56.38	56.13	55.97	55.92	56.62	56.57	55.97	55.41	55.34	55.76	56.82
21	56.78	56.35	56.10	55.93	55.93	56.56	56.53	55.94	55.43	55.40	55.77	56.83
22	56.77	56.32	56.09	55.89	55.94	56.55	56.51	55.95	55.43	55.49	55.72	56.84
23	56.73	56.32	56.05	55.86	55.93	56.52	56.50	55.87	55.47	55.75	55.69	56.88
24	56.70	56.33	55.99	55.87	55.91	56.56	56.50	55.84	55.42	55.62	55.67	56.92
25	56.70	56.38	55.95	55.88	55.92	56.55	56.43	55.86	55.40	55.52	55.64	56.93
26 27 28 29 30 31	56.71 56.72 56.72 56.71 56.69 56.67	56.37 56.37 56.35 56.32 56.30	55.91 55.93 56.01 56.07 56.07 56.06	55.87 55.86 55.86 55.90 55.92	55.92 55.92 55.92 	56.51 56.47 56.49 56.70 56.80 56.82	56.30 56.39 56.38 56.35 56.25	55.82 55.79 55.85 55.83 55.76 55.72	55.38 55.31 55.39 55.46 55.49	55.50 55.50 55.45 55.46 55.43 55.41	55.60 55.64 55.62 55.60 55.60	56.93 56.96 56.95 56.96 57.04
MEAN	56.86	56.47	56.12	55.92	55.94	56.39	56.63	56.02	55.52	55.42	55.67	56.26
MAX	57.09	56.66	56.28	56.03	55.99	56.82	56.85	56.26	55.76	55.75	55.82	57.04
MIN	56.67	56.30	55.91	55.86	55.91	56.13	56.25	55.72	55.31	55.26	55.39	55.54

CAL YR 2000 MEAN 57.26 MAX 58.43 MIN 55.91 WTR YR 2001 MEAN 56.10 MAX 57.09 MIN 55.26

02238500 OCKLAWAHA RIVER AT MOSS BLUFF, FL

LOCATION.--Lat $29^{\circ}04^{\circ}52^{\circ}$, long $81^{\circ}52^{\circ}51^{\circ}$, in $SW^{1/4}_{4}$ sec.23, T.16 S., R.24 E., Marion County, Hydrologic Unit 03080102, at downstream side of spillway structure of Moss Bluff Dam, 0.3 mi upstream from bridge on State Highway 464, 0.4 mi southwest of Moss Bluff, 3.9 mi northeast of Ocklawaha, and 64.3 mi upstream from mouth.

PERIOD OF RECORD.--February 1943 to September 1965 (discharge measurements only), October 1965 to September 1966 (discharge measurements and gage heights only), October 1966 to July 1967 (discharge measurements only), August 1967 to current year.

REVISED RECORDS.--WDR FL-74-1: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level. Prior to Aug. 12, 1943, nonrecording gage, and Aug. 12, 1943 to Sept. 30, 1955, water-stage recorder at site 0.3 mi downstream at datum 0.12 ft lower; Nov. 1, 1963 to Aug. 10, 1967, nonrecording gage at site 0.3 mi downstream at present datum; Aug. 11, 1967 to Sept. 30, 1969, water-stage recorder at site 0.3 mi downstream at present datum. Auxiliary gage at upstream side of spillway structure.

REMARKS.--Records poor. Flow regulated by manipulation of gates in spillway. Discharge computed from relation between discharge, gate openings, and lockages.

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

COOPERATION.--Gate-opening record provided by St. Johns River Water Management District.

		DISCHAR	GE, CUBIC	: FEET PER	DAILY	MEAN VA		2000 10	SEPTEMBE	IR 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	43 35 38 33 36	20 25 23 32 32	20 23 24 18 18	18 18 18 18	18 18 18 18	23 e24 e18 e18 e18	34 23 24 22 18	19 19 18 20 30	18 25 36 18 18	e18 18 e18 e18 e18	26 24 24 32 28	35 37 36 26 26
6 7 8 9 10	36 44 46 33 33	20 22 28 25 20	18 18 20 31 26	18 18 18 18	18 18 18 18	18 e18 18 e21 e20	21 37 28 25 23	36 20 20 20 20 22	20 19 18 18 31	18 e25 34 18 18	24 26 24 25 24	26 26 24 30 25
11 12 13 14 15	38 37 42 37 57	30 30 24 20 19	19 22 20 18 19	18 18 18 18	18 18 18 18	e18 e20 18 25 18	25 28 28 41 34	27 34 33 18 18	18 18 18 18	18 18 18 e20 37	34 38 26 26 29	30 26 18 18
16 17 18 19 20	33 36 38 39 37	12 12 12 10 20	20 28 18 18	18 18 18 18	18 18 18 18	18 32 18 18	24 23 19 25 27	24 18 20 30 30	e18 e18 e18 18 e18	18 18 20 18 18	26 29 35 36 24	24 19 20 18 18
21 22 23 24 25	49 49 38 38 38	20 18 20 28 23	18 18 18 18	18 18 18 18	18 18 18 18	18 23 23 29 18	35 46 20 20 18	18 22 22 23 20	e20 e20 e22 e20 e18	23 28 20 20 25	26 26 29 26 38	18 23 26 23 19
26 27 28 29 30 31	44 35 74 76 66 71	23 18 20 20 22	20 20 18 19 18	18 18 18 18 18	18 18 18 	20 23 20 18 20 22	22 19 39 27 18	28 37 40 18 20 18	e18 18 18 e20 e20	20 20 23 33 18 18	37 24 31 28 24 25	21 21 20 19 24
TOTAL MEAN MAX MIN	1349 43.5 76 33	648 21.6 32 10	619 20.0 31 18	558 18.0 18 18	504 18.0 18	633 20.4 32 18	793 26.4 46 18	742 23.9 40 18	595 19.8 36 18	654 21.1 37 18	874 28.2 38 24	714 23.8 37 18
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	YEARS 1944	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	224 1085 1970 .50 1975	170 1024 1970 .000 1974	191 883 1954 13.9 1979	278 1396 1998 11.8 1979	300 1446 1998 12.8 1979	367 1603 1998 10.0 1975	357 1380 1970 11.1 1975	183 539 1970 7.61 1975	196 891 1991 7.87 1975	224 859 1974 20.9 1973	235 735 1995 9.15 1972	248 853 1969 7.50 1972
SUMMARY	STATISTI	CS	FOR 2	2000 CALEN	NDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1944	- 2001
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				20780 56.8 e110 10 15 83 58 20	Jun 5 Nov 19 Nov 16		8683 23.8 76 10 15 38.54 36 20 18	Oct 29 Nov 19 Nov 16 Sep 15		248 777 23.8 2340 *.00 50.71 678 64 22		1970 2001 20 1983

e Estimated * Many days 1973-74

02238500 OCKLAWAHA RIVER AT MOSS BLUFF, FL--Continued

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	34.72	34.32	34.20	34.03		33.93	34.61	34.28	33.94		34.07	34.33
2	34.66	34.34	34.15	34.02			34.59	34.26	34.00		34.02	34.40
3	34.60	34.38	34.17	34.02			34.50	34.23	34.04		34.01	34.50
4	34.58	34.42	34.17	34.01			34.42	34.21	33.94		34.05	34.48
5	34.53	34.48	34.17	34.01			34.34	34.18	33.91		34.07	34.45
6	34.52	34.51	34.17	34.01			34.31	34.23	33.91		34.11	34.46
7	34.53	34.50	34.16	33.98			34.38	34.24	33.89		34.13	34.49
8	34.54	34.60	34.16	33.97			34.51	34.19	33.88	33.87	34.12	34.49
9	34.52	34.64	34.23	33.95			34.57	34.15	33.91		34.12	34.50
10	34.48	34.64	34.32	33.86			34.58	34.14	33.97		34.18	34.51
11	34.46	34.64	34.30				34.57	34.17	33.89		34.21	34.52
12	34.45	34.64	34.30				34.59	34.19			34.21	34.53
13	34.44	34.63	34.29				34.64	34.18			34.21	34.55
14	34.42	34.62	34.27			34.00	34.70	34.14			34.22	35.20
15	34.44	34.60	34.27		33.86	34.04	34.74	34.09		33.89	34.21	38.44
1.0	24 41	24 22	24.05		22 00	24.02	24.65	24 00		22 00	24.00	20 22
16	34.41	34.39	34.25		33.88	34.03	34.67	34.02		33.88	34.20	38.33
17	34.38	34.11	34.27		33.90	34.04	34.62	33.99		33.88	34.21	37.81
18	34.37 34.36	34.03 33.97	34.26		33.93 33.99	34.05	34.55 34.54	34.05 34.16		33.89	34.26	37.33
19			34.25			34.22				33.87	34.28	36.95
20	34.36	33.96	34.25		34.01	35.34	34.52	34.24		33.87	34.25	36.67
21	34.37	33.99	34.24		34.01	35.39	34.54	34.15		33.89	34.25	36.48
22	34.38	33.99	34.24		34.00	35.14	34.61	34.09		33.94	34.26	36.35
23	34.37	34.03	34.23		33.99	34.86	34.48	34.09		33.95	34.27	36.29
24	34.36	34.16	34.22		33.99	34.68	34.39	34.08		33.94	34.27	36.22
25	34.36	34.23	34.19		34.01	34.55	34.36	34.05		33.93	34.30	36.19
26	34.33	34.24	34.19		34.01	34.44	34.36	34.08		33.93	34.35	36.19
27	34.33	34.22	34.19		34.01	34.34	34.36	34.15		33.95	34.33	36.15
28	34.34	34.21	34.18		34.01	34.24	34.39	34.20		33.96	34.33	36.10
29	34.34	34.21	34.17			34.24	34.38	34.07		34.07	34.32	36.08
30	34.33	34.22	34.14			34.34	34.32	34.01		34.14	34.31	36.19
31	34.33		34.08			34.50		33.97		34.11	34.32	
	24 44	24 22	24.00	22.00	22 07	24 44	24 50	24 14	22.02	22.04	24 01	25 51
MEAN	34.44	34.33	34.22	33.99	33.97	34.44	34.50	34.14	33.93	33.94	34.21	35.71
MAX	34.72	34.64	34.32	34.03	34.01	35.39	34.74	34.28	34.04	34.14	34.35	38.44
MIN	34.33	33.96	34.08	33.86	33.86	33.93	34.31	33.97	33.88	33.87	34.01	34.33

CAL YR 2000 MEAN 34.32 MAX 34.97 MIN 33.84 WTR YR 2001 MEAN 34.40 MAX 38.44 MIN 33.86

02239500 SILVER SPRINGS NEAR OCALA, FL

LOCATION.--Lat $29^{\circ}12^{\circ}44^{\circ}$, long $82^{\circ}03^{\circ}15^{\circ}$, in $SE_{4}^{1/2}$ sec.1, T.15 S., R.23 E., Marion County, Hydrologic Unit 03080102, in canal at glass bottom boat docking shed, 1,400 ft downstream from head of springs, and 5.3 mi northeast of Ocala.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--May 1906 to December 1907 (gage heights only), October 1932 to September 1947 (monthly discharge only, prior to January 1933, published in WSP 1304), October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 38.96 ft above sea level. Prior to Feb. 20, 1947, nonrecording gage at same site and datum. Feb. 20, 1947 to May 23, 1974, at site 800 ft north at same datum.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Discharge measurements made 4 to 5 mi downstream from head of springs; surface inflow between head of springs and measuring site is subtracted when measurable. Prior to Nov. 20, 1959, measurements made at site 0.7 mi downstream from head of springs. Discharge computed from relation between artesian pressure at Sharpes Ferry Well and discharge at measuring site. Artesian pressures are published as water levels for Sharpes Ferry Well (291115081592501) in Water Resources Data for Florida, Volume 1B, Ground Water.

		DISCHA	RGE, CUBI	C FEET PE	R SECOND, DAILY	WATER YE MEAN VA		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	482	462	442	e431	417	411	431	413	367	360	382	423
2	483	461	441	e431	415	410	424	410	368	358	385	424
3	481	461	439	e431	413	409	425	405	365	354	393	423
4	480	460	437	e432	417	409	427	404	359	354	397	423
5	483	462	439	e434	418	405	427	406	357	356	395	421
6	480	462	440	e432	415	403	427	401	359	354	395	424
7	480	461	441	e430	412	399	428	396	363	353	399	429
8	479	456	441	e430	409	395	428	395	364	355	403	432
9	479	453	440	e428	412	403	432	395	363	360	406	431
10	474	456	439	e426	416	403	432	393	359	360	408	430
11	472	455	439	e427	412	397	430	393	359	359	409	431
12	474	451	438	e427	409	400	425	391	361	356	408	433
13	475	450	e438	e428	409	410	426	392	356	357	413	438
14	476	448	e438	e426	413	410	429	389	352	362	419	460
15	476	448	e439	e427	416	415	432	390	353	358	417	461
16	477	445	439	e428	413	411	431	391	355	355	413	459
17	476	448	439	e429	412	404	425	387	356	352	413	469
18	476	443	438	e428	404	405	415	381	354	353	418	483
19	475	448	439	e428	404	414	411	382	353	356	419	495
20	472	438	e438	e428	407	424	412	380	354	359	418	505
21	469	435	e437	e429	410	419	413	377	355	366	420	513
22	469	435	e436	e428	412	417	414	377	359	370	421	521
23	465	440	e435	e429	407	417	418	378	361	367	420	527
24	464	448	e434	e428	404	418	419	370	360	364	421	535
25	464	454	e435	e429	406	420	419	369	357	365	420	542
26 27 28 29 30 31	469 472 469 467 466 464	449 445 442 441 442	e436 e437 e436 e435 e434 e432	e428 e427 e426 e426 425 422	407 407 411 	420 418 422 432 436 435	415 412 410 407 408	370 370 367 367 365 364	353 350 355 357 359	368 368 372 379 383 381	420 422 419 422 423 422	544 551 557 561 559
TOTAL	14688	13499	13571	13278	11507	12791	12652	11968	10743	11214	12740	14304
MEAN	474	450	438	428	411	413	422	386	358	362	411	477
MAX	483	462	442	434	418	436	432	413	368	383	423	561
MIN	464	435	432	422	404	395	407	364	350	352	382	421
STATIST	CICS OF M	ONTHLY ME	AN DATA F	OR WATER	YEARS 1933	- 2001,	BY WATER	YEAR (WY)				
MEAN	838	824	798	779	771	774	780	764	748	754	778	816
MAX	1280	1229	1156	1088	1050	1015	1148	1112	1053	1067	1189	1236
(WY)	1961	1961	1961	1961	1961	1998	1960	1960	1960	1960	1960	1960
MIN	474	450	438	428	411	413	422	386	358	362	411	460
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000
SUMMARY	STATIST	ICS	FOR	2000 CALE	NDAR YEAR	F	OR 2001 W	ATER YEAR		WATER YE	EARS 1933	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				180084 492 614 e432 434 594 469 438	Jan 24 Dec 31 Jul 22		152955 419 561 350 354 1.29 469 420 359	Sep 29 Jun 27 Jun 14 9 Sep 15		785 1058 419 *1290 350 354 5.50 980 774 621	Jun :	1960 2001 27 2001 14 2001 6 1933

e Estimated * Oct 7,13-17,20, 1960

02239500 SILVER SPRINGS NEAR OCALA, FL--Continued

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 3 4 5	.16 .15 .15 .15	.00 01 01 02 02	19 20 21 22 22	39 39 40 40 41	50 51 53 53 55	64 65 65 65 66	23 23 24 24 25	32 32 33 33 34	56 56 57 57 57	51 52 52 52 52	26 25 23 21 18	.09 .10 .11 .12 .12	
6 7 8 9 10	.14 .14 .15 .14	03 04 05 06 06	23 23 24 25 25	42 42 43 43 44	56 56 57 57 58	66 67 68 68	25 25 25 25 25	35 36 35 36 37	57 57 57 58 58	53 53 53 52 52	16 14 13 11 10	.15 .19 .19 .20	
11 12 13 14 15	.13 .13 .12 .12	07 07 08 09 10	25 26 26 27 27	45 46 47 47	58 58 59 59 60	69 69 60 55	26 27 27 26 26	38 38 39 40 40	59 59 60 59	51 51 50 47 47	08 07 05 04	.21 .23 .26 .46 1.18	
16 17 18 19 20	.10 .09 .09 .08	10 12 13 14 15	29 29 29 30 31	48 49 49 49 50	60 60 60 61 61	55 55 55 47 28	26 27 28 28 29	42 43 44 45 46	60 60 59 57 56	48 48 48 48 46	03 02 01 01	1.28 1.24 1.19 1.16 1.14	
21 22 23 24 25	.07 .07 .06 .05	16 16 17 16 17	31 32 32 33 34	50 50 51 51 52	61 61 62 62 63	24 26 27 28 28	29 30 30 30 30	47 47 48 49 50	57 56 55 55 55	42 39 37 36 36	.01 .02 .02 .03 .03	1.13 1.12 1.12 1.12 1.14	
26 27 28 29 30 31	.05 .04 .03 .03 .02	16 17 18 18 19	34 35 35 36 37 38	52 52 52 52 52 51	63 63 64 	29 29 29 27 23	30 30 31 31 32	51 52 53 53 55	56 55 54 53 52	35 33 29 28 27 26	.04 .04 .05 .07 .08	1.13 1.14 1.14 1.14 1.13	
MEAN MAX MIN	.10 .16 .01	10 .00 19	28 19 38	47 39 52	59 50 64	48 23 69	27 23 32	43 32 56	57 52 60	44 26 53	05 .09 26	.70 1.28 .09	

CAL YR 2000 MEAN .01 MAX .81 MIN -.38 WTR YR 2001 MEAN -.24 MAX 1.28 MIN -.69

02239500 SILVER SPRINGS NEAR OCALA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1960, 1962-79, 1981-85, 1989, 1991, 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	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)
NOV 29	0915	19	450	<5	2.1	6.8	8.01	458	472	22.9	240	79	9.5
MAR 14	0956	55	436	<5	2.3	6.9	7.86	450	460	23.0	220	74	8.8
APR 10	0800	25	432			7.6			468	22.9			
24 MAY	0830	30	419		3.4	7.3			461	23.1			
08 22 JUN	0700 0810	35 47	396 377		1.3 2.5	6.9 7.4			422 465	23.0 23.2			
05 19	0715 0740	57 57	359 352			7.3 7.4			457 458	23.0 23.1			
JUL 02	0650	52	358		1.6	7.3			462	23.1			
17 SEP	0640	48	349		1.6	7.4			465	23.1			
05	1340	.12	419	<5	3.0	7.3	8.3	441	475	23.3	230	75	9.7
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV 29	.6	6.5	187	10	.19	10	42	279	<.20	.02	.94	<.01	.03
MAR 14	.5	6.1	188	9.9	.20	9.9	35	266	<.20	<.01	.87	<.01	.03
APR 10									<.20	.002	.89		.04
24 MAY									<.20	.002	.91		.03
08 22									<.20 <.20	.005 .006	.85 .92		.05
JUN 05										<.002cl	.92		.04
19 JUL										E.031cl	.87		.05
02 17 SEP									<.20 <.20	E.004cl <.002cl	.85 .87		.04
05	.6	6.3	184	10	.2	10	45	281	<.2	<.01	.91	<.01	.02
				D	ATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	STRON- TIUM, DIS- SOLVED					
					29	.05		590					
				MA AP	14	.05		500					
					10 24	.03	<.1 <.1						
					08 22	.02 <.02	<.1 <.1						
					05 19	.02	<.1 <.1						
					02 17	.04	<.1 <.1						
				SE	P	. 00		F70					

19... JUL 02... 17... SEP 05...

<.02 -- 570

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02240000 OCKLAWAHA RIVER NEAR CONNER, FL

(Former national stream-quality accounting network station)

LOCATION.--Lat $29^{\circ}12^{\circ}52^{\circ}$, long $81^{\circ}59^{\circ}10^{\circ}$, in SW^{1}_{4} sec. 2, T.15 S., R.23 E., Marion County, Hydrologic Unit 03080102, on right bank 75 ft upstream from bridge on State Highway 40, 0.2 mi downstream from Silver River, 1.5 mi southwest of Conner, 8 mi east of Ocala, and 51.0 mi upstream from mouth.

DRAINAGE AREA.--1,196 \min^2 .

PERIOD OF RECORD.--February 1930 to September 1946, March 1963 to September 1977 (gage heights only), October 1977 to current year.

REVISED RECORDS.--WDR FL-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 31.79 ft above sea level.

 ${\tt REMARKS.--Records\ good\ except\ for\ periods\ of\ estimated\ daily\ discharge,\ which\ are\ poor.}$

		DISCHA	RGE, CUBIO	C FEET PE		WATER YEAY Y MEAN VAI	AR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	522 516 510 508	484 485 493 496	473 464 470 473	446 445 445 445	e429 e427 e425 e426	e440 e440 e441 e443	543 539 533 526	495 492 491 488	446 446 448 447	e442 e437 e431 e426	e448 e451 e453 e458	493 504 513 512
5	504	498	475	444	e427	e440	519	485	444	e422	e460	502
6 7 8 9 10	502 504 506 503 498	499 497 497 497 496	475 474 472 474 476	444 442 442 438 e438	e426 e426 e424 e427 e431	e439 e450 e460 e458 e457	515 518 525 529 529	485 487 483 480 477	444 443 441 440 441	e418 e417 e433 e438 e438	e465 e473 e478 479 479	506 519 522 523 524
11 12 13 14 15	496 496 496 496 496	494 495 495 492 488	475 473 471 468 465	e437 e437 e435 e436 e437	e426 e426 e430 e436 e441	e466 e470 e478 484 472	529 529 529 531 537	476 478 477 475 471	441 e441 e438 e435 e437	e435 e431 e435 e442 e440	481 484 485 491 487	527 532 537 662 1400
16 17 18 19 20	496 489 487 487 486	480 463 454 449 449	465 465 466 465 465	e438 e439 e438 e437 e436	e438 e436 e435 439 442	465 462 463 501 663	533 526 521 519 519	465 463 466 469 473	e437 e438 e435 e432 e430	e435 e431 e433 e438 e442	484 486 496 494 489	1330 1170 1050 942 878
21 22 23 24 25	487 490 489 487 485	457 465 466 472 476	465 464 463 461 457	e437 e437 e438 e437 e434	441 438 e435 e430 e435	639 594 562 543 529	518 520 518 509 506	471 466 464 461 458	e430 e439 e443 e441 e438	e448 e449 e443 e440	487 493 491 497 495	836 807 792 777 775
26 27 28 29 30 31	485 488 490 491 489 485	479 477 472 469 472	457 458 458 454 452 449	e430 e425 e424 e425 e422 e430	e436 e440 e441 	518 510 503 511 536 542	504 503 502 502 499	456 458 462 460 452 448	e433 e429 e436 e438 e440	e440 e440 e443 e444 e448 e450	504 500 494 494 491 493	770 758 745 735 736
TOTAL MEAN MAX MIN CFSM IN.	15364 496 522 485 .41 .48	14406 480 499 449 .40	14442 466 476 449 .39 .45	13538 437 446 422 .36 .42	12113 433 442 424 .36 .38	15379 496 663 439 .41 .48	15630 521 543 499 .43 .48	14632 472 495 448 .39 .45	13171 439 448 429 .37 .41	13549 437 450 417 .36 .42	14960 483 504 448 .40 .46	21877 729 1400 493 .61 .68
STATIST	rics of M	ONTHLY MEA	AN DATA FO	OR WATER	YEARS 193	0 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	1105 1855 1983 496 2001	994 1584 1946 480 2001	996 1574 1938 466 2001	1088 2494 1998 437 2001	1072 2826 1998 433 2001	1189 3047 1998 496 2001	1192 2553 1987 521 2001	969 1802 1931 472 2001	992 2062 1982 439 2001	1043 2104 1982 437 2001	1085 1867 1934 483 2001	1172 1900 1934 506 2000
SUMMARY	Y STATIST	ICS	FOR 2	2000 CALE	NDAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1930	- 2001
LOWEST	MEAN F ANNUAL : ANNUAL M	EAN		198643 543			179061 491			1075 1654 491		1930 2001
LOWEST ANNUAL MAXIMUN MAXIMUN ANNUAL	M PEAK FL M PEAK ST. RUNOFF (AN Y MINIMUM OW AGE CFSM)		681 449 455	Dec 25	,20,Dec 31	426 1460 5.89 .41	-		4010 e417 426 4430 9.1	Jul Feb Apr 4 Sep 0	9 1982 7 2001 2 2001 9 1982 6 1933
10 PERG 50 PERG	RUNOFF (CENT EXCE CENT EXCE CENT EXCE	EDS EDS		6.16 660 506 472	0		5.55 529 470 435			12.1 1650 945 665	1	

e Estimated

02240000 OCKLAWAHA RIVER NEAR CONNER, FL--Continued

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

					DAIL	MEAN VAL	LOES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.41	2.12	2.04	1.81			2.62	2.23	1.79			2.19
2	2.37	2.13	1.97	1.80			2.60	2.20	1.79			2.30
3	2.32	2.20	2.02	1.80			2.54	2.19	1.82			2.38
4	2.30	2.22	2.05	1.79			2.49	2.17	1.81			2.37
5	2.27	2.25	2.06	1.79			2.43	2.14	1.78			2.30
6	2.25	2.25	2.06	1.79			2.40	2.14	1.78			2.33
7	2.26	2.24	2.05	1.77			2.42	2.16	1.77			2.45
8	2.28	2.24	2.04	1.77			2.48	2.13	1.74		2.06	2.48
9	2.26	2.24	2.05	1.74			2.52	2.10	1.73		2.05	2.49
10	2.22	2.24	2.07				2.52	2.08	1.74		2.06	2.51
11	2.21	2.22	2.06				2.51	2.07	1.75		2.07	2.54
12	2.21	2.23	2.04				2.51	2.08			2.10	2.59
13	2.21	2.23	2.02			2.05	2.52	2.08			2.10	2.64
14	2.21	2.20	1.99			2.14	2.53	2.06			2.16	3.34
15	2.21	2.17	1.97			2.03	2.58	2.02			2.12	5.78
16	2.20	2.10	1.97			1.97	2.54	1.98			2.10	5.67
17	2.15	1.95	1.97			1.94	2.49	1.95			2.11	5.34
18	2.13	1.88	1.98			1.95	2.45	1.97			2.20	5.03
19	2.13	1.83	1.97		1.75	2.28	2.43	2.00			2.18	4.78
20	2.13	1.83	1.97		1.77	3.51	2.43	2.03			2.14	4.56
21	2.14	1.90	1.97		1.76	3.37	2.42	2.01			2.12	4.40
22	2.17	1.97	1.97		1.74	3.04	2.44	1.97			2.17	4.29
23	2.16	1.98	1.95			2.79	2.42	1.96			2.16	4.23
24	2.14	2.03	1.94			2.63	2.35	1.93			2.20	4.18
25	2.12	2.07	1.91			2.52	2.32	1.90			2.19	4.18
26	2.12	2.09	1.90		1.74	2.42	2.31	1.89			2.27	4.16
27	2.15	2.07	1.91			2.35	2.30	1.90			2.23	4.12
28	2.16	2.03	1.91			2.29	2.29	1.93			2.18	4.07
29	2.17	2.01	1.88			2.36	2.29	1.92			2.19	4.04
30	2.16	2.04	1.86			2.57	2.26	1.85			2.16	4.05
31	2.13		1.84			2.62		1.81			2.19	
MEAN	2.20	2.10	1.98	1.78		2.46	2.45	2.03	1.77		2.15	3.59
MAX	2.41	2.25	2.07	1.81		3.51	2.62	2.23	1.82		2.27	5.78
MIN	2.12	1.83	1.84	1.74		1.94	2.26	1.81	1.73		2.05	2.19

CAL YR 2000 MEAN 2.21 MAX 3.07 MIN 1.71 WTR YR 2001 MEAN 2.31 MAX 5.78 MIN 1.73

02240500 OCKLAWAHA RIVER AT EUREKA, FL

LOCATION.--Lat $29^{\circ}22^{\circ}18^{\circ}$, long $81^{\circ}54^{\circ}07^{\circ}$, in $SW^{\frac{1}{4}}$ sec.9, T.13 S., R.24 E., Marion County, Hydrologic Unit 03080102, near right bank on upstream end of bridge pier on County Road 316 in Eureka, 3.1 mi downstream from Eaton Creek, and 33.1 mi upstream from mouth.

DRAINAGE AREA. -- 1,367 mi².

PERIOD OF RECORD.--February 1930 to June 1934, September 1943 to December 1952, January 1981 to current year.

REVISED RECORDS.--WDR FL-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Feb. 13, 1930 to June 30, 1934, nonrecording gage, and Sept. 16, 1943 to Dec. 31, 1952, water-stage recorder near present site at datum 15.44 ft higher.

REMARKS.--Records good except for periods of estimated daily discharge, which are fair.

DRY		5000	DISCHA	RGE, CUBIO	C FEET PER		WATER YE	AR OCTOBER	R 2000 TO	SEPTEMBE	R 2001		
2 626 515 667 510 469 498 679 552 457 437 542 503 3 612 e514 676 512 460 497 674 524 451 431 541 503 4 603 6515 688 513 450 504 665 e524 451 426 547 512 6 6 575 e519 e514 693 511 442 508 666 e523 463 422 566 512 6 6 575 e514 693 511 442 508 666 e523 474 417 657 538 8 558 e514 678 519 431 e477 650 e519 466 445 677 538 8 558 e514 662 521 430 e478 647 512 10 545 e515 651 513 428 e479 643 520 466 461 653 538 10 545 e515 651 513 428 e479 643 520 466 461 653 538 11 540 e515 661 513 488 e479 643 520 466 461 653 541 11 540 e515 642 506 428 e494 647 6518 640 511 465 466 62 51 513 12 537 e515 630 504 430 e518 630 514 465 462 605 547 13 538 518 651 642 509 428 e494 640 517 466 461 653 541 14 538 6516 624 499 427 e540 630 514 465 462 605 547 14 538 6516 624 499 427 e540 630 514 465 462 605 547 14 538 6516 624 499 427 e540 630 514 465 462 605 547 14 539 524 605 490 430 e518 630 514 465 462 605 547 14 539 524 605 490 430 e533 624 499 457 497 579 1230 16 532 531 556 486 434 494 679 e540 630 511 457 466 48 61 68 598 531 15 531 537 661 668 668 434 494 679 e540 630 511 457 466 64 61 61 61 61 61 61 61 61 61 61 61 61 61	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
The color of the	2	626	515	667	510	469	498	679	552	457	437	542	503
	3	612	e514	676	512	460	497	674	524	451	431	541	509
	4	603	e515	688	513	450	504	665	e524	451	426	547	512
12 537 e515 630 504 430 e518 636 514 465 466 605 547 13 536 e516 624 499 427 e540 630 511 457 464 596 559 14 535 e516 615 494 428 e560 625 506 457 488 588 721 15 534 524 605 490 430 e533 624 499 457 497 497 15 534 524 605 490 430 e533 624 499 457 497 497 17 531 537 584 482 440 542 614 477 443 492 555 2100 18 532 544 577 476 449 543 607 468 471 494 555 2100 19 5532 549 572 467 454 603 597 462 483 487 545 1200 20 534 557 564 466 458 746 592 457 485 510 538 1700 21 533 561 559 461 462 784 587 455 477 585 520 1250 22 532 559 555 451 468 782 580 451 477 585 520 1250 23 533 566 558 451 468 782 580 451 477 585 520 1250 24 533 567 568 554 411 468 782 574 454 447 587 587 522 1130 25 534 600 545 441 476 716 574 454 446 582 452 443 575 511 939 26 533 619 541 430 479 695 582 452 443 575 511 939 27 531 632 533 425 485 676 577 450 442 587 581 511 939 28 526 639 528 424 489 666 571 451 450 582 505 930 29 524 646 522 425 665 566 452 449 578 581 510 885 30 524 653 515 422 665 566 452 449 582 501 582 505 930 31 522 511 434 689 457 457 457 457 457 457 457 457 457 457 457 457 457 457 457 458 457 457 458 457 458 457 458 457 458 458 458 458 458 458 458 458 458 458 458 458 458	7	565	e513	691	512	433	499	653	e521	474	417	667	533
	8	558	e514	678	519	431	e477	650	e519	468	445	677	538
	9	554	e514	662	521	430	e478	647	e518	465	464	659	539
17	12	537	e515	630	504	430	e518	636	514	465	462	605	547
	13	536	e516	624	499	427	e540	630	511	457	464	596	559
	14	535	e516	615	494	428	e560	625	506	457	488	588	721
22 532 569 555 457 466 797 584 453 477 585 520 1250 23 533 577 553 451 468 782 580 453 477 604 522 1130 24 535 586 552 441 473 749 573 454 473 587 519 1040 25 534 600 545 434 476 716 574 454 456 570 512 1010 26 533 619 541 430 479 695 582 452 443 575 511 988 27 531 632 533 425 485 676 577 450 442 581 511 939 28 526 639 528 424 489 666 571 451 450 582 505 993 29 524 646 522 425 665 566 452 449 581 502 875 30 524 653 515 422 682 565 451 445 572 502 885 31 522 511 434 689 457 562 499 TOTAL 17040 16532 18684 14804 12617 18459 18568 15162 13870 15529 17421 28911 MEAN 550 551 603 478 451 595 619 489 462 501 562 964 MAX 643 653 695 521 489 797 686 559 485 604 677 2160 MIN 522 513 511 422 427 477 565 450 442 417 499 500 CFSM .40 .40 .44 .35 .33 .44 .45 .36 .34 .37 .41 .70 IN46 .45 51 .40 .34 .35 .33 .44 .45 .36 .34 .37 .41 .70 IN46 .45 51 .40 .34 .50 .51 .40 .34 .50 .51 .11 .38 MAX 2131 1940 1847 2516 2912 3231 2763 1915 2743 2385 2174 2617 (MY) 1950 1948 1950 1998 1998 1998 1998 1998 1998 1998 199	17	531	537	584	482	440	542	614	477	453	492	565	2160
	18	532	544	577	476	449	543	607	468	471	494	555	2100
	19	532	549	572	467	454	603	597	462	483	487	545	1890
27 531 632 533 425 485 676 577 450 442 581 511 939 28 526 639 528 424 489 666 571 451 451 450 582 505 903 29 524 646 522 425 682 565 451 445 572 502 875 30 524 653 515 422 682 565 451 445 572 502 875 31 522 511 434 689 457 562 499 TOTAL 17040 16532 18684 14804 12617 18459 18568 15162 13870 15529 17421 28911 MEAN 550 551 603 478 451 595 619 489 462 501 562 964 MAX 643 653 695 521 489 797 686 559 485 604 677 2160 MIN 522 513 511 422 427 477 565 450 442 417 499 500 CPSM 40 40 44 435 333 44 455 366 34 37 41 70 IN 46 45 551 40 334 50 551 41 38 42 47 470 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 2001 BY WATER YEAR (WY) MEAN 1248 1107 1101 1204 1176 1302 1317 1006 1068 1140 1192 1335 MAX 2131 1940 1847 2516 2912 3231 2763 1915 2743 2385 2174 2617 (WY) 1950 1948 1950 1998 1998 1998 1987 1931 1982 1982 1934 1933 MIN 550 551 583 478 451 595 597 489 462 488 489 632 (WY) 2001 2001 1991 2001 2001 2001 1992 2001 2001 2000 2000 1990 SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR 428 Jul 1 428 Jul 1 428 Jul 1 204 1700 2001	22	532	569	555	457	465	797	584	453	477	585	520	1250
	23	533	577	553	451	468	782	580	453	477	604	522	1130
	24	535	586	552	441	473	749	573	454	473	587	519	1040
MERN 550 551 603 478 451 595 619 489 462 501 562 964 MAX 643 653 695 521 489 797 686 559 485 604 677 2160 MIN 522 513 511 422 427 477 565 450 442 417 499 500 CFSM 40 40 44 .35 .33 .44 .45 .36 .34 .37 .41 .70 IN .46 .45 .51 .40 .34 .50 .51 .41 .38 .42 .47 .79 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR WATER YEAR (WY) MEAN 1248 1107 1101 1204 1176 1302 1317 1006 1068 1140 1192 1335 MAX 2131 1950 1948 1950	27 28 29 30	531 526 524 524	632 639 646 653	533 528 522 515	425 424 425 422	485 489 	676 666 665 682	577 571 566 565	450 451 452 451	442 450 449 445	581 582 581 572	511 505 502 502	939 903 875 850
MEAN 1248 1107 1101 1204 1176 1302 1317 1006 1068 1140 1192 1335 MAX 2131 1940 1847 2516 2912 3231 2763 1915 2743 2385 2174 2617 (WY) 1950 1948 1950 1998 1998 1998 1987 1931 1982 1982 1934 1933 MIN 550 551 583 478 451 595 597 489 462 488 489 632 (WY) 2001 2001 1991 2001 2001 2001 2000 2000 1990 SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1930 - 2001 ANNUAL MEAN 575 569 1180 HIGHEST ANNUAL MEAN 575 569 1180 LOWEST DAILLY MEAN 450 </td <td>MEAN</td> <td>550</td> <td>551</td> <td>603</td> <td>478</td> <td>451</td> <td>595</td> <td>619</td> <td>489</td> <td>462</td> <td>501</td> <td>562</td> <td>964</td>	MEAN	550	551	603	478	451	595	619	489	462	501	562	964
	MAX	643	653	695	521	489	797	686	559	485	604	677	2160
	MIN	522	513	511	422	427	477	565	450	442	417	499	500
	CFSM	.40	.40	.44	.35	.33	.44	.45	.36	.34	.37	.41	.70
MAX 2131 1940 1847 2516 2912 3231 2763 1915 2743 2385 2174 2617 (WY) 1950 1948 1950 1998 1998 1998 1987 1931 1982 1982 1934 1933 MIN 550 551 583 478 451 595 597 489 462 488 489 632 (WY) 2001 2001 1991 2001 2001 2001 2001 2000 2000 1990 SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1930 - 2001 ANNUAL MEAN 575 569 1180 HIGHEST ANNUAL MEAN 575 569 1180 HIGHEST ANNUAL MEAN 859 Sep 11 2160 Sep 17 6110 Apr 11 1982 LOWEST DAILY MEAN 450 Sep 3	STATIST	rics of M	ONTHLY ME	AN DATA FO	OR WATER Y	EARS 1930	- 2001,	BY WATER	YEAR (WY)				
ANNUAL TOTAL 210407 207597 ANNUAL MEAN 575 569 1180 HIGHEST ANNUAL MEAN 1720 1948 LOWEST ANNUAL MEAN 569 Sep 11 2160 Sep 17 6110 Apr 11 1982 HIGHEST DAILY MEAN 450 Sep 3 417 Jul 7 417 Jul 7 2001 ANNUAL SEVEN-DAY MINIMUM 454 Aug 30 428 Jul 1 428 Jul 1 2001 MAXIMUM PEAK FLOW 2180 Sep 17 6230 Sep 7 1933 MAXIMUM PEAK STAGE 22.55 Sep 17 6230 Sep 7 1933 INSTANTANEOUS LOW FLOW 411 Jul 7 411 Jul 7 2001 ANNUAL RUNOFF (CFSM) 42 411 Jul 7 411 Jul 7 2001 ANNUAL RUNOFF (INCHES) 5.73 5.65 111.73 10 PERCENT EXCEEDS 665 675 1900	MAX	2131	1940	1847	2516	2912	3231	2763	1915	2743	2385	2174	2617
	(WY)	1950	1948	1950	1998	1998	1998	1987	1931	1982	1982	1934	1933
	MIN	550	551	583	478	451	595	597	489	462	488	489	632
ANNUAL MEAN 575 569 1180 1720 1948 1000 1000 1000 1000 1000 1000 1000 10	SUMMARY	Y STATIST	ICS	FOR 2	2000 CALEN	IDAR YEAR	F	OR 2001 W	ATER YEAR		WATER Y	EARS 1930	- 2001
	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES)				575 859 450 454 . 42 5.73 665 584	Sep 3 Aug 30		569 2160 417 428 2180 22.55 411 .44 5.65 675 524	Jul 7 Jul 1 Sep 17 Sep 17 Jul 7		1720 569 6110 417 428 6230 26.52 411 .86 11.73 1900	Jul Jul Sep Apr Jul	2001 11 1982 7 2001 1 2001 7 1933 11 1982

e Estimated

02240902 PRAIRIE CREEK NEAR GAINESVILLE, FL

LOCATION.--Lat $29^{\circ}36^{\circ}38^{\circ}$, long $82^{\circ}14^{\circ}53^{\circ}$, in $NW^{1/2}_{4}$ sec.19, T.10 S., R.21 E., Alachua County, Hydrologic Unit 03080102, on downstream side of foot bridge (old railroad bridge), 100 ft downstream from State Highway 20, 150 ft downstream from control structure at outlet of Newmans Lake, 7 mi southeast of Gainesville, and 8.4 mi upstream from mouth.

DRAINAGE AREA.--114 mi².

PERIOD OF RECORD.--1947-48, 1956, 1965-67 (miscellaneous discharge measurements and gage heights only), August 1978 to current year.

REVISED RECORDS.--WDR FL-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 61.79 ft above sea level (Florida Department of Transportation bench mark). Prior to Aug. 24, 1978, nonrecording gage at site 100 ft upstream at datum 0.50 ft higher. Aug. 24, 1978 to Mar. 9, 1999, at site 100 ft upstream at same datum.

REMARKS.--Records poor. Some regulation by stoplogs in control structure at outlet of Newnans Lake.

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 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .20 .39 .00	.39 .95 .94 .56	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 .00	.00 .00 .00 .00	1.2 1.0 .45 .27	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00 e.00	.00 .00 .00 .00	.32 .89 .41 .07	.14 .10 .09 .07	.00 .00 .00 .10
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .15 1.3 3.1	.04 .04 .01 .00	.15 .01 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	2.1 .46 .21 .16	.00 .00 .00 .00	.00 .06 .26 .07 .61
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 e.00 	e.00 e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00 e.00	.00 .00 .00 .00	.08 .06 .73 1.0 .25 .23	.00 .00 .00 .00	.22 .09 .05 .02 .01
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00	.0000 .00 e. .00 0.00 0.00 0.00 0.00 0.00 .00 .00					0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	12.22 .39 3.1 .00 .00	7.08 .23 1.2 .00 .00	2.54 .085 .89 .00 .00
			N DATA FC				BY WATER					
MEAN MAX (WY) MIN (WY)	EAN 62.5 37.8 AX 277 170 WY) 1993 1986 IN .000 .000			55.7 330 1998 .000 2001	87.6 564 1998 .000 2001	106 554 1998 .000 2000	98.2 323 1987 .000 2000	59.3 241 1983 .000 2000	37.2 117 1991 .000 2001	35.9 134 1996 .027 2000	37.5 106 1991 .010 2000	69.1 355 1985 .085 2001
SUMMARY	STATISTI	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	EARS 1978	- 2001		
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				6.11 .01 1.0 .00 .00	7 Sep 18 Many da Jan 1	ys	.00 11	Jul 20) Many da) Oct 1 Jul 20) Jul 20) Jul 20		59.8 177 .05 1290 .00 .00 1290 8.77 .52 7.13 33 .73	Feb 2 Man Man Feb 2 Feb 2	1998 2000 25 1998 by days by days 25 1998 25 1998

e Estimated

02240902 PRAIRIE CREEK NEAR GAINESVILLE, FL--Continued

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

					DALLY	MEAN VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.57	1.30	1.31	1.29	1.34					1.46	1.68	1.42
2	1.56	1.30	1.31	1.29	1.38					1.59	1.76	1.42
3	1.55	1.29	1.31	1.29	1.37					1.66	1.77	1.43
4	1.55	1.29	1.30	1.29	1.37					1.53	1.71	1.45
5	1.55	1.29	1.30	1.29	1.36					1.49	1.71	1.43
6	1.54	1.29	1.30	1.28	1.35					1.46	1.80	1.43
7	1.55	1.29	1.30	1.28	1.35					1.44	1.78	1.42
8	1.54	1.29	1.30	1.28	1.34					1.43	1.69	1.42
9	1.53	1.29	1.30	1.28	1.34				.61	1.43	1.65	1.42
10	1.51	1.31	1.30	1.28	1.34				1.13	1.45	1.63	1.41
11	1.49	1.30	1.30	1.27	1.34				1.34	1.62	1.62	1.41
12	1.49	1.29	1.30	1.29	1.34				1.39	1.75	1.60	1.41
13	1.49	1.29	1.30	1.29	1.34				1.36	1.68	1.59	1.40
14	1.49	1.30	1.30	1.29	1.34				1.32	1.58	1.58	1.52
15	1.48	1.30	1.30	1.29	1.34				1.27	1.54	1.57	1.76
16	1.48	1.29	1.30	1.28	1.33				1.22	1.52	1.57	1.61
17	1.47	1.29	1.31	1.28	1.34				1.17	1.51	1.57	1.55
18	1.46	1.28	1.31	1.28	1.33				1.13	1.54	1.56	1.54
19	1.46	1.28	1.30	1.27	1.33				1.12	1.81	1.55	1.54
20	1.46	1.27	1.30	1.31	1.33				1.16	1.89	1.54	1.53
21	1.46	1.27	1.30	1.31	1.33				1.42	1.88	1.53	1.53
22	1.45	1.26	1.30	1.30	1.32				1.38	1.69	1.53	1.56
23	1.45	1.25	1.30	1.30	1.32				1.42	1.63	1.52	1.65
24	1.45	1.24	1.30	1.29	1.32				1.41	1.62	1.50	1.58
25	1.41	1.38	1.30	1.28	1.32				1.37	1.60	1.49	1.71
26	1.35	1.37	1.29	1.27	1.32				1.34	1.58	1.48	1.64
27	1.34	1.33	1.29	1.27	1.31				1.33	1.58	1.47	1.59
28	1.33	1.31	1.30	1.26					1.42	1.70	1.46	1.57
29	1.32	1.31	1.31	1.25					1.49	1.78	1.45	1.56
30	1.31	1.31	1.30	1.26					1.48	1.64	1.43	1.55
31	1.30		1.30	1.31						1.64	1.42	
MEAN	1.46	1.30	1.30	1.28	1.34				1.29	1.60	1.59	1.52
MAX	1.57	1.38	1.31	1.31	1.38				1.49	1.89	1.80	1.76
MIN	1.30	1.24	1.29	1.25	1.31				.61	1.43	1.42	1.40

CAL YR 2000 MEAN 1.39 MAX 1.80 MIN .56 WIR YR 2001 MEAN 1.41 MAX 1.89 MIN .61

02240954 HOGTOWN CREEK NEAR ARREDONDO, FL

LOCATION.--Lat $29^{\circ}38^{\circ}17^{\circ}$, long $82^{\circ}23^{\circ}33^{\circ}$, in $NE^{1/4}_{4}$ sec.10, T.10 S., R.19 E., Alachua County, Hydrologic Unit 03080102, near right bank at downstream side of bridge on County Road 30, 2.5 mi northeast of Arredondo, and 4.2 mi west of Gainesville.

DRAINAGE AREA.--41.2 \min^2 .

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

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Flow affected at times by backwater from Haile Sink.

	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 2 3 4 5	6.3 5.6 5.0 4.5 4.2	1.8 1.7 1.7 1.7	2.6 2.5 2.5 2.4 2.4	2.9 2.7 2.5 2.5 2.5	6.6 8.8 9.0 7.2 7.3	2.9 4.8 5.0 6.8	23 15 10 8.0 6.8	e2.4 e2.4 e2.3 e2.3 e2.3	e2.2 e2.2 e2.2 e2.3 e2.3	28 18 12 8.8 15	49 34 39 31 21	9.2 7.4 3.9 3.2 3.0
6 7 8 9 10	4.2 6.6 10 7.5 5.1	1.7 1.7 1.7 1.7 2.2	2.3 2.3 2.3 2.3 2.3	2.5 2.4 2.5 2.6 2.4	5.7 4.4 3.9 3.5 3.4	9.8 5.4 4.0 3.7 3.5	6.0 e5.1 e4.3 e4.1 e4.1	e2.3 e2.3 e2.2 e2.2 e2.2	e2.3 6.8 23 12 16	11 6.4 4.4 7.3 8.4	48 34 22 16 11	6.9 11 13 9.3 4.8
11 12 13 14 15	4.1 3.6 3.2 2.9 2.7	2.1 1.9 1.8 1.8	2.4 2.5 2.5 2.4 2.5	2.4 2.9 2.9 2.7 2.6	3.3 3.2 3.2 3.2 3.2	3.2 3.0 4.1 6.5 4.9	e4.0 e4.0 e4.0 e4.0 e3.9	e2.2 e2.1 e2.1 e3.0 e3.0	22 14 14 10 10	21 23 18 13 9.0	8.5 6.8 6.4 5.4 4.7	3.2 3.8 3.9 10 80
16 17 18 19 20	2.5 2.4 2.3 2.2 2.2	1.7 1.7 1.6 1.5	2.5 3.3 4.4 3.9 3.4	2.5 2.4 2.4 2.7	3.2 3.4 3.9 3.4 3.3	10 21 16 25 53	e3.8 e3.8 e3.8 e3.7 e3.6	e2.9 e2.9 e2.8 e2.8 e2.8	8.1 4.5 4.2 11	5.8 4.1 3.7 8.6 28	5.8 5.2 4.6 4.4 4.2	67 33 19 13 9.3
21 22 23 24 25	2.2 2.2 2.1 2.1 2.2	1.7 1.6 1.6 1.7 3.7	3.0 2.9 2.7 2.6 2.5	3.3 3.1 2.8 2.6 2.4	3.1 3.2 3.1 3.1 3.1	37 26 19 13 11	e3.5 e3.3 e3.3 e3.2 e3.3	e2.7 e2.7 e2.7 e2.6 e2.6	17 18 19 22 14	159 100 47 48 35	3.1 2.6 2.3 2.0 1.8	7.1 6.6 100 62 54
26 27 28 29 30 31	2.1 2.1 2.0 2.0 1.9	9.3 11 6.5 3.9 3.0	4.3	2.3 2.3 2.3 2.3 2.5 3.7	3.0 3.0 2.9 	9.9 8.2 6.8 7.9 21 31	e3.4 e3.2 e3.0 e2.4 e2.4	e2.6 e2.4 e2.4 e2.1 e2.1	8.2 11 11 13 47	26 21 36 29 20 18	1.7 1.6 1.5 1.4 1.4	56 35 24 17 13
TOTAL MEAN MAX MIN CFSM IN.	109.9 3.55 10 1.9 .09	79.3 2.64 11 1.5 .06	87.2 2.81 4.4 2.3 .07	3.7	117.6 4.20 9.0 2.9 .10	397.4 12.8 53 2.9 .31 .36	156.0 5.20 23 2.4 .13 .14	76.5 2.47 3.0 2.1 .06	359.3 12.0 47 2.2 .29	792.5 25.6 159 3.7 .62	384.8 12.4 49 1.4 .30	688.6 23.0 100 3.0 .56
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	R WATER Y	EARS 1972	2 - 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	14.4 54.0 1999 .89 1988	9.60 27.8 1986 2.64 2001	15.2 92.3 1998 2.81 2001	19.8 43.8 1979 2.61 2001	24.8 122 1998 4.09 1996	24.8 74.2 1988 4.67 2000	20.4 62.2 1983 2.23 1999	9.07 23.0 1983 .63 2000	18.9 63.1 1972 1.21 1988	20.1 51.7 1996 1.83 1988	26.2 130 1978 4.99 1993	24.8 103 1988 3.51 1995
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1972	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS				.10	Sep 7 Jun 10 Jun 5		173	Aug 24 Jul 21 Jul 21 Aug 29	,30	18.6 36.7 9.08 860 .11 1040 60.55 .08 .44 6.14 38 9.8 3.1	Sep Jun Jun Sep Sep Jun Jun Sep Jun Sep Jun	1998 1981 7 1988 10 2000 5 2000 7 1988 7 1988 9 2000

e Estimated

02240956 HAILE SINK NEAR ARREDONDO, FL

LOCATION.--Lat $29^{\circ}37^{\circ}41^{\circ}$, long $82^{\circ}24^{\circ}40^{\circ}$, in NE_{4}^{1} sec.16, T.10 S., R.19 E., Alachua County, Hydrologic Unit 03080102, on northwest rim of sink, 1.6 mi north of Arredondo, and 5.2 mi west of Gainesville.

DRAINAGE AREA. -- Indeterminate.

29 30

31

PERIOD OF RECORD.--December 1971 to September 1977, February 1978 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS. -- Sink has no surface outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 60.15 ft, Sept. 10,11, 1988; minimum, unknown; water level below lowest recordable gage height for many days in most years.

EXTREMES FOR CURRENT YEAR.--Water level below lowest recordable gage height for most of the year, maximum gage height recorded, 45.54 ft, July 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 ___ ------___ ___ ___ ___ ---___ ___ ___ ___ 2 3 --5 ------------------------6 ---------___ 7 8 ------------------------------------10 11 12 ___ ---------------------------------13 14 ___ ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 15 ------------------16 17 ___ ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------18 19 ___ ---___ ---___ ___ ___ ---___ ___ ---___ 20 21 ___ ---___ ---___ ___ ___ ___ ___ 43.99 ---___ 22 45.01 ---24 ___ ---___ ___ ___ ___ ___ ___ ___ ---43.63 25 26 ---___ ___ ___ ---___ ___ ___ 27 28 ------------___ ---___ ---___ ___ ___ ___ ___ ___ ___ ___

02241000 CAMPS CANAL NEAR ROCHELLE, FL

LOCATION.--Lat 29°34'33", long 82°15'00", in SW¹/₄ sec.31, Moses Levy Land Grant, Alachua County, Hydrologic Unit 03080102, near left bank on downstream side of bridge on County Road 234, 2.2 mi southwest of Rochelle, and 5.0 mi upstream from Orange Lake.

DRAINAGE AREA.--775 mi^2 , includes Paynes Prairie, a diked sinkhole area of 650 mi^2 , approximately, which is noncontributing except by pumpage.

PERIOD OF RECORD.--March 1948 to November 1952 (discharge measurements only), August 1957 to September 1960, March 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 53.44 ft above sea level. Mar. 16, 1948 to Nov. 14, 1952, reference point at datum 15.27 ft higher. Aug. 8, 1957 to Oct. 28, 1960, water-stage recorder at datum 5.00 ft higher.

REMARKS.--Records good. Seasonal diversion out of or into canal above station by drainage and/or pumpage for irrigation of pastures in Paynes Prairie.

		DISCHAR	GE, CUBIC	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1957	- 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	52.8 232 1960 .000 2001	35.7 181 1986 .000 2000	29.2 114 1984 .000 2000	41.4 178 1984 .000 2000	1998	108 504 1959 .000 2000	101 426 1959 .000 2000	60.1 221 1959 .000 2000	41.3 276 1959 .000 1999	38.6 221 1959 .000 2000	62.0 385 1978 .000 2000	71.5 347 1985 .000 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WAT	TER YEAR		WATER YE	ARS 1957	- 2001
HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	SUMMARY STATISTICS ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (INCHES) ANNUAL RUNOFF (INCHES) TO PERCENT EXCEEDS O PERCENT EXCEEDS				Many da Jan 1		.00 .00 5.27 .00	Many da Oct 1 Aug 6,		56.9 193 .00 1040 .00 1040 13.21 .07 1.00 168 24	00 Mar 2 Man Mar 2 Mar 2	1959 2001 44 1959 By days By days 44 1959 44 1959

02241000 CAMPS CANAL NEAR ROCHELLE, FL--Continued

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

					DAIL	MEAN VAI	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.04 5.01 4.98 4.96 4.93	4.65 4.65 4.64 4.64 4.64	4.61 4.60 4.60 4.60 4.59	4.53 4.53 4.53 4.52 4.52	4.52 4.53 4.53 4.53 4.53	4.47 4.47 4.47 4.48 4.48	4.60 4.56 4.55 4.54 4.54	4.46 4.45 4.45 4.45 4.44	4.38 4.38 4.38 4.38 4.38	4.36 4.37 4.37 4.37 4.36	4.63 4.64 4.67 4.70 4.83	4.53 4.51 4.53 4.57 4.57
6 7 8 9 10	4.90 4.90 4.87 4.82 4.78	4.64 4.63 4.63 4.63 4.63	4.59 4.59 4.58 4.58 4.58	4.52 4.52 4.52 4.52 4.51	4.53 4.52 4.52 4.52 4.51	4.48 4.48 4.47 4.47	4.53 4.53 4.53 4.52 4.52	4.44 4.44 4.43 4.43 4.43	4.38 4.37 4.37 4.37 4.37	4.36 4.36 4.36 4.36 4.36	5.15 5.24 5.16 5.11 5.08	4.57 4.56 4.56 4.55 4.54
11 12 13 14 15	4.75 4.72 4.70 4.70 4.70	4.63 4.62 4.62 4.63 4.62	4.58 4.57 4.57 4.57 4.56	4.51 4.51 4.51 4.51 4.51	4.51 4.51 4.50 4.50 4.50	4.47 4.47 4.48 4.48 4.47	4.51 4.51 4.50 4.50 4.50	4.43 4.42 4.42 4.42 4.42	4.37 4.37 4.37 4.37 4.37	4.36 4.37 4.37 4.37 4.36	5.05 5.01 4.98 4.94 4.91	4.53 4.52 4.52 4.60 4.65
16 17 18 19 20	4.70 4.70 4.70 4.69 4.69	4.62 4.62 4.61 4.61 4.60	4.56 4.57 4.56 4.56 4.55	4.51 4.51 4.50 4.50 4.51	4.50 4.50 4.49 4.49 4.49	4.48 4.48 4.49 4.54 4.68	4.49 4.49 4.48 4.48 4.48	4.42 4.41 4.41 4.41 4.40	4.37 4.36 4.36 4.36 4.36	4.36 4.36 4.40 4.60 4.55	4.89 4.85 4.80 4.76 4.72	4.62 4.58 4.59 4.58 4.57
21 22 23 24 25	4.69 4.69 4.69 4.69 4.68	4.60 4.59 4.59 4.58 4.62	4.55 4.55 4.54 4.54 4.54	4.50 4.50 4.50 4.50 4.49	4.49 4.48 4.48 4.48 4.48	4.63 4.58 4.54 4.53 4.53	4.47 4.47 4.47 4.46 4.47	4.40 4.40 4.39 4.39	4.36 4.36 4.36 4.36 4.36	4.68 4.70 4.68 4.68 4.66	4.67 4.63 4.62 4.61 4.61	4.56 4.62 4.84 4.89 5.13
26 27 28 29 30 31	4.68 4.68 4.67 4.67 4.66 4.66	4.63 4.63 4.62 4.62 4.61	4.53 4.53 4.53 4.54 4.54 4.53	4.49 4.49 4.49 4.49 4.49	4.48 4.47 4.47 	4.53 4.53 4.52 4.53 4.59 4.62	4.47 4.47 4.47 4.46 4.46	4.39 4.39 4.39 4.38 4.38	4.36 4.36 4.36 4.37 4.36	4.65 4.66 4.70 4.66 4.64	4.59 4.59 4.58 4.57 4.56 4.54	5.15 5.12 5.10 5.07 5.04
MEAN MAX MIN	4.76 5.04 4.66	4.62 4.65 4.58	4.56 4.61 4.53	4.51 4.53 4.49	4.50 4.53 4.47	4.51 4.68 4.47	4.50 4.60 4.46	4.42 4.46 4.38	4.37 4.38 4.36	4.49 4.70 4.36	4.80 5.24 4.54	4.69 5.15 4.51

CAL YR 2000 MEAN 4.80 MAX 5.46 MIN 4.48 WTR YR 2001 MEAN 4.56 MAX 5.24 MIN 4.36

02243000 ORANGE CREEK AT ORANGE SPRINGS, FL

LOCATION.--Lat 29°30'34", long 81°56'47", in NE¹/₄ sec.25, T.11 S., R.23 E., Marion County, Hydrologic Unit 03080102, near right bank at downstream side of bridge on State Highway 21, 0.2 mi northwest of Orange Springs, and .45 mi upstream from Little Orange Creek.

DRAINAGE AREA.--1,119 \min^2 , includes Paynes Prairie, a diked sinkhole area of 650 \min^2 , approximately, which is noncontributing except by pumpage.

PERIOD OF RECORD.--November 1941 to June 1942 (discharge measurements only), July 1942 to December 1952, October 1955 to September 1971, October 1971 to April 1975 (discharge measurements only), May 1975 to current year.

REVISED RECORDS. -- WDR FL-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 19.81 ft above sea level. Prior to Oct. 18, 1955, and Oct. 13, 1971 to May 6, 1975, nonrecording gage at same site and datum. Feb. 4, 1980 to May 7, 1981, temporary gage 125 ft downstream at same datum.

REMARKS.--Records good. Records include some flow diverted, during periods of high stages, from Santa Fe Lake in Suwannee River basin through Lochloosa Creek. Since April 1963, concrete dam at outlet of Orange Lake, 11 mi upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in October 1941 reached a stage of 10.6 ft, from information by local resident, discharge $2,400 \, \mathrm{ft}^3/\mathrm{s}$, from rating curve extended above $1,500 \, \mathrm{ft}^3/\mathrm{s}$.

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 2 3 4 5	10 9.3 8.6 8.2 7.9	4.1 4.0 3.9 3.9 3.9	6.9 6.7 6.5 6.3 6.1	5.2 5.1 5.0 4.8 4.8	13 20 17 14 12	4.5 4.9 5.3 7.2 9.5	17 15 12 11 9.8	2.5 2.4 2.7 2.2 2.4	1.8 1.9 1.6 1.6	4.4 3.5 3.0 2.6 2.3	11 16 18 40 63	38 32 26 20 17
6 7 8 9 10	7.4 7.5 7.3 6.5 5.9	3.8 3.8 3.7 3.7 3.9	5.9 5.6 5.5 5.2 5.0	4.9 4.8 5.3 5.6 5.1	10 9.0 8.2 7.7 7.2	7.6 6.2 5.6 5.2 5.0	8.8 7.9 7.4 7.0 5.9	2.3 2.7 2.9 2.7 2.6	1.9 2.3 2.0 2.2 2.7	2.2 2.1 4.2 7.5 7.9	111 72 56 37 27	16 16 16 13 11
11 12 13 14 15	5.6 5.4 5.1 4.9 4.6	3.9 3.8 3.9 4.3 4.8	5.0 5.1 5.0 4.9 4.9	4.9 5.3 5.4 5.2 5.0	6.9 6.5 6.3 6.2	5.2 4.9 7.6 10 7.8	5.3 4.6 4.5 4.2 3.9	2.3 2.1 2.1 2.0 1.9	3.3 3.2 3.3 2.6 2.4	11 8.3 7.7 7.0 5.4	21 17 14 12 10	9.8 9.3 11 103 265
16 17 18 19 20	4.4 4.2 4.1 4.0 4.1	4.8 4.6 4.4 4.4	4.9 7.9 8.3 6.9 6.4	4.9 4.8 4.7 4.7 5.0	5.9 5.7 5.6 5.4 5.3	7.4 8.3 8.5 35 75	3.9 3.3 3.0 2.9 2.4	1.9 1.7 1.6 1.7	2.1 4.2 8.0 6.3 4.7	4.3 3.7 4.1 15 16	19 14 11 9.3	192 126 93 72 59
21 22 23 24 25	4.3 4.2 4.5 4.9 5.2	5.1 4.8 4.7 4.7 7.0	6.1 5.9 5.7 5.6 5.5	5.0 4.9 4.8 4.7 4.5	5.2 5.0 5.1 5.0 5.0	45 33 26 21 18	2.4 2.4 2.3 2.1 3.3	1.6 1.6 1.6 1.5	4.1 4.1 4.7 5.5 4.4	19 17 12 11 13	19 11 8.8 7.4 6.5	48 43 43 37 75
26 27 28 29 30 31	6.5 5.9 5.2 4.7 4.5 4.3	11 12 9.2 7.9 7.5	5.4 5.3 5.5 5.7 5.5 5.3	4.4 4.3 4.3 4.3 4.3 6.8	4.8 4.7 4.7 	16 14 12 14 25 21	5.3 4.0 3.2 2.8 2.7	1.5 1.4 1.4 1.7 2.0	3.5 3.4 3.7 4.5 5.2	18 12 11 13 11	6.4 5.9 5.6 29 59	73 64 55 47 40
TOTAL MEAN MAX MIN CFSM IN.	179.2 5.78 10 4.0 .01 .01	156.3 5.21 12 3.7 .00 .01	8.3 4.9 .01 .01	152.8 4.93 6.8 4.3 .00 .01	217.7 7.78 20 4.7 .01 .01	475.7 15.3 75 4.5 .01 .02	170.3 5.68 17 2.1 .01 .01	61.5 1.98 2.9 1.4 .00	103.1 3.44 8.0 1.6 .00	272.2 8.78 19 2.1 .01	795.9 25.7 111 5.6 .02 .03	1670.1 55.7 265 9.3 .05
MEAN MAX (WY) MIN (WY)	166 934 1965 3.00 1991	118 652 1948 3.04 1991	99.4 536 1948 3.59 1991	113 522 1970 4.93 2001	141 1003 1970 5.09 1991	191 1095 1998 4.83 2000	171 909 1970 4.64 1994	94.6 504 1959 1.98 2001	72.0 558 1959 2.31 2000	82.3 627 1959 3.44 1992	133 790 1965 2.52 1993	175 1001 1964 2.59 1990
SUMMAR	Y STATIST	ICS	FOR 2	000 CALE	NDAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1942	2001
ANNUAL HIGHES' LOWEST HIGHES' LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				Sep 7 Jun 19 Jun 16		265 1.4 1.5 285 5.83 .01: .15 23 5.3 2.3	May 23 Sep 15 Sep 15	27-29	131 500 6.39 1940 1.0 1.3 2170 9.86 .12 1.59 377 46 5.6	Sep Jun Jun Sep Sep	1948 1990 13 1964 19 2000 16 2000 13 1964 13 1964

02243960 OCKLAWAHA RIVER AT RODMAN DAM, NEAR ORANGE SPRINGS, FL

LOCATION.--Lat $29^{\circ}30^{\circ}30^{\circ}$, long $81^{\circ}48^{\circ}15^{\circ}$, in $NN^{1/4}_{4}$ sec.28, T.11 S., R.25 E., Putnam County, Hydrologic Unit 03080102, at downstream side of control structure of Rodman Dam, 8.4 mi east of Orange Springs, and 11.6 mi upstream from mouth.

DRAINAGE AREA.--2,747 mi², includes Paynes Prairie, a diked sinkhole area of 650 mi², approximately, which is noncontributing except for pumpage.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR FL-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Auxiliary gage at upstream side of control structure at same datum.

REMARKS.--Records fair. Flow regulated by manipulation of gates in spillway; dam completed and flow through spillway began on Sept. 30, 1968. Discharge computed from relation between discharge, head, and gate openings. Since November 1969, diversion above station from Lake Ocklawaha for boat lockages, through Cross-Florida Barge Canal (see station 02244032) to St. Johns River. Elevations published as Ocklawaha River below Rodman Dam previously published as Ocklawaha River at Rodman Dam.

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

COOPERATION.--Gate-opening record provided by Cross Florida Greenways and Trails.

		DISCHA	RGE, CUBI	C FEET PEI		WATER Y MEAN V		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	307	312	575	554	353	449	444	292	407	595	442
2	643	308	312	573	679	354	448	444	292	363	594	441
3	611	308	312	572	828	354	448	445	292	362	594	442
4	610	308	311	572	641	355	448	445	292	362	595	442
5	610	308	312	572	484	357	448	444	292	363	596	442
6	571	308	676	571	483	357	448	444	292	362	735	443
7	533	308	927	570	483	356	448	444	292	319	1030	444
8 9	494 388	308 308	923 919	570 569	482 482	356 357	448 449	444 444	292 293	291 330	868 601	444 444
10	304	309	915	567	482	357	448	444	293	367	601	443
11	304	309	911 811 756 754 826	566	481 447 522 619 621	357	448 448 448 447 448	444	293	367	600	443
12	205	309	811	567	447	358	448	444	294	368	600	443
13	305	309	756	565	522	359	448	517 551 514	294	368	600	443
14	305	309	754	564	619	395	447	551	293	367	599	448
15	305 305 305 306	309	826	566 567 565 564 564		357 358 359 395 432	448	514	293	367	597	3910
16	306	310	898	563	622 623	432	447	514	293	367	596	2450
17	306 307 306	311	899	562	623	431	447	512	293	367	595	1210
18	307	310	893	562	622	430	445	511	295	368	594	1220
19 20	306	310 311 310 310 310	891 888	562 563	623 623 624	352 579	445 444	466 364	444 590	368 370	593 592	1230 1570
21	307	310	885	560	626	881	444	291	588	371	525	1750
22	307	310	882	558	628	639	444	291	587	371	443	1270
23		310	878	558	627	442	444	291	586	372	443	1380
24	307	310 310 311	877	557	628	443	444	291	584	373	443	1600
25	307	311	885 882 878 877 874	560 558 558 557 556	626 628 627 628 630	443 444	445	291	510	373	443	1930
26	307 307 307 307	311 312 312 312 312	871	471 416 416 450 485 519	631 632 633 	444	445 445 445 444 444	291 291 291 292 291 291	437 436 436 436 436	374	442 442 442 441 441 441	1900
27	307	312	870	416	632	444	445	291	436	412	442	1360
28 29	307	312	724	416	633	444	445	291	436	450 525	442	1230 1030
30	307	312 212	5/9 579	450		356	444	292	436	525 598	441	752
31	307	312	576 569	519		448		291		589	441	752
										303		
TOTAL	11917	9286 310 312 307	23033	16895	16437	13046	13393	12481	11340	12011	17721	31996
MEAN	384 720	310	743	545	587 828	421	446	403 551	378 590	387	572	1067
MAX MIN	304	312 207	927	5/5 416	828 447	881 352	449 444	291	292	598 201	1030 441	3910 441
IN.	.16	.13	.31	545 575 416 .23	.22	.18	.18	.17	.15	387 598 291 .16	24	441
	.10		.51	.23						.10	.24	. 43
STATIST	rics of Mc	NTHLY MEA	AN DATA F	OR WATER	YEARS 1969	9 - 2001	, BY WATER					
MEAN	1269	1097	1220	1448	1466	1544	1478	1039	1094	1225	1338	1460
MAX	3288	2982	2871	4394 1998	5004	5432	4518	2807	3765	3247	3182	3651
(WY)	1970	1970	1970	1998	1970	1998	1970	1970	1982	1974	1978	1979
MIN (WY)	384 2001	2982 1970 310 2001	478 1994	423 1982	531 1982	5432 1998 421 2001	345 1992	357 1985	2001	1225 3247 1974 387 2001	1338 3182 1978 445 1993	554 1993
	Y STATISTI						FOR 2001 W					
		Co			NDAR IEAR			ALEK IEAK		WAIER IF	AKS 1909	- 2001
ANNUAL				182528			189556			1206		
ANNUAL		(T) 7 3 T		499			519			1306		1070
	T ANNUAL M ANNUAL ME	ILAIN ILAIN								3245 510		1970
	ANNUAL ME DAILY ME	JUVI PATA		1830	Sen 10		3910	Sen 15		9560	Feb	5 1970
	DAILY MEA	N.		304	Oct 10	11	a 291	seb 13		9300) Ma	nv dave
	SEVEN-DAY	MINIMIM		305	Oct. 10		291	May 21		207	Jul	4 1969
	M PEAK STA	AGE			0		7.7	3 Sep 16		9.64	Apr	12 1982
	RUNOFF (I	NCHES)		2.4	7		2.5	7		6.46	5	
10 PERG	CENT EXCEE	DS		721			827			2560		
	CENT EXCEE	DS		445			3910 a291 291 7.7 2.5 827 444 306			1050		
90 PER	CENT EXCEE	DS		309			306			448		

a May 21-28,30,31, July 8

02243960 OCKLAWAHA RIVER AT RODMAN DAM, NEAR ORANGE SPRINGS, FL--Continued

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 2.71 3.75 2.62 3.37 3.37 2.33 2.53 2.19 2.68 3.35 2 ---2.62 3.33 3.51 2.67 2.17 2.40 2.36 3.72 2.32 2.54 3.40 ---3.76 2.30 2.65 3 2.54 3.44 4 3.74 2.62 3.31 3.64 2.29 2.63 2 55 2.12 2.35 3.43 5 3.72 ---2.76 3.30 3.15 2.19 2.65 2.54 2.11 2.34 3.43 ---3.09 2.68 2.32 6 3.63 ---3.36 3.29 2.12 2.54 2.10 3.63 ___ 3.44 3.28 ---4.20 3.28 3.06 2.12 2.15 2.68 2.55 2.08 2.15 4.16 ---8 4.28 3.05 2.66 2.07 2.02 2.61 ---9 2.93 ---4.30 3.05 2.17 2.63 2.06 2.14 3.66 ___ ---10 ------2.19 2.64 2.08 2.35 ------4.31 3.05 3.48 11 4.22 ___ 3.05 2.23 2.71 2.09 2.36 3.37 3.07 12 ------3.97 ---2.98 2.74 2.25 2.70 ---2.09 2.35 3.07 3.33 ------13 4.03 2.24 2.67 2.07 2.34 ___ 2.56 14 4.03 2 58 2 45 2 64 2.07 2 37 3.41 3 51 2.49 3.30 2.89 3.04 15 ---4.02 2.53 2.62 2.07 2.42 3.39 5.73 2.47 4.00 3 28 2.43 2.88 2.59 3.01 2.04 2 43 3.41 16 ___ 6.69 ---2.85 3.95 3.22 2.58 3.00 2.06 5.49 2.48 2.40 2.45 3.40 17 18 ---2.53 3.86 3.20 2.37 2.85 2.58 3.01 2.09 2.45 3.40 5.28 19 2 46 3 82 3 06 2 38 2.85 2 59 2.92 2 49 2 45 3 39 5 22 3.79 2.57 20 2.50 3.27 2.38 3.00 2.61 3.13 2.46 3.38 5.34

3.82

3.59

3.02

2.94

2.91

2.86

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2.85

2.63

2.75

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3.82 2.12

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2.48

3.34 2.02

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6.69 3.07

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2.36

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2.77

3.87 2.34

3.26

3.25

3.26

3.29

3.29

3.15

2.91

2.88

3.06

3.19

3.21

3.37

2.88

2.46 CAL YR 2000 MEAN 2.86 MAX 5.04 WTR YR 2001 MEAN 2.99 MAX 6.69 MAX 5 04 MTN 2 07 MIN 2.02

2.50

2.56

2.71

2.67

2.67

2.67

2.64

2.63

2.63

2.58

2.71

3.55

3.76 2.93

21

22

23

24

25

26

27

28

29

30

31

MEAN

MAX

MIN

3.77

3.76

3.74

3.75

3.75

3.76

3.78

4.01 3.71

3.62

3.51

3.69

4.31 2.57

MISCELLANEOUS WATER-QUALITY RECORDS OCTOBER 2000 TO SEPTEMBER 2001

02240000 -- OCKLAWAHA RIVER NR CONNER, FL

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR													
10	1000	2.50	527		7.6	455	22.8	.50	.13	.90	.02	.03	4.3
24	1100	2.34	508	5.0	7.7	448	24.4	.35	.10	.85	.03	.03	< .1
MAY													
08	0940	2.12	492	3.1	7.0	414	22.9	.43	.060	.89	.03	< .02	< .1
22	1110	1.97	466	4.5	7.5	446	23.9	.54	.13	.81	.02	< .02	4.3
JUN													
05	0915	1.78	444		7.5	439	23.8	.46	E.112cl	.86	.01	.03	5.2
19	0947		E432		7.6	435	23.6	.39	E.036cl	.82	<.01	.05	45
JUL													
02	1040		E437	4.9	7.5	443	24.1	.22	E.063cl	.79	< .01	.03	6.3
17	0900		E431	3.9	7.6	442	23.8	.23	E.036cl	.82	.01	.03	5.2

02240500 -- OCKLAWAHA RIVER AT EUREKA, FL

			DIS-		PH			NITRO-					CHLOR-A
			CHARGE,		WATER	SPE-		GEN, AM-	NITRO-	NITRO-	PHOS-		PHYTO-
			INST.		WHOLE	CIFIC		MONIA +	GEN,	GEN,	PHORUS	PHOS-	PLANK-
			CUBIC	OXYGEN,	FIELD	CON-	TEMPER-	ORGANIC	AMMONIA	NO2+NO3	ORTHO	PHORUS	TON
		GAGE	FEET	DIS-	(STAND-	DUCT-	ATURE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	CHROMO
DATE	TIME	HEIGHT	PER	SOLVED	ARD	ANCE	WATER	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	FLUOROM
		(FEET)	SECOND	(MG/L)	UNITS)	(US/CM)	(DEG C)	AS N)	AS N)	AS N)	AS P)	AS P)	(UG/L)
		(00065)	(00061)	(00300)	(00400)	(00095)	(00010)	(00625)	(00610)	(00630)	(70507)	(00665)	(70953)
APR													
10	1120	19.80	653		7.7	459	23.5	.40	.050	.89	.02	.02	<.1
24	1250	19.70		3.9	7.8	438	23.6	.34	.040	.81	.02	.03	< . 1
MAY													
08	1308	19.70	E505	6.2	6.3	412	23.5	.50	.040	.76	.03	< .02	< .1
22	1330	19.33	453	7.1	7.8	442	24.9	.46	.070	.82	.02	< .02	45
JUN													
05	1100	19.34	457		7.8	438	25.5	.44	E.055cl	.82	.01	.02	4.3
19	1153	19.47	485		7.9	435	25.1	.28	E.068cl	.78	.02	.03	3.2
JUL													
02	1200	19.27	441	7.3	7.9	440	25.7	.22	E.036cl	.71	.01	.03	<.1
17	1100	19.46	449	7.2	7.9	445	25.4	. 3	E.038cl	.507	< .01	.03	<.1

291242081591601 -- OCKLAWAHA RIVER 100 YDS UPSTREAM FROM SILVER RIVER NR OCALA, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	H GEN, C AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
10	0930		7.2	495	23.1	3.8	1.2	.71	.02	.04	25
24	1030	3.2	7.2	421	23.2	3.3	1.1	.046	<.01	.04	20
MAY											
08	0915	1.3	6.7	372	23.5	3.6	.91	.032	.03	.02	25
22	0935	1.6	7.3	423	26.4	3.8	E1.50cl	.017	.01	.02	33
JUN											
05	0900		7.5	446	28.0	3.2	.66	E.102cl	.02	.05	42
19	0920		7.8	457	27.6	2.8	.12	E.035cl	< .01	.06	< .1
JUL											
02	1030	4.7	7.8	415	28.3	2.8	E.365cl	E.002cl	.01	.06	70
17	0845	3.3	7.6	392	27.4	2.7	E.519cl	E.006cl	<.01	.05	56

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) ^{2}$

291243081592001 -- SILVER SPRINGS 100 YDS UPSTREAM FROM OKLAWAHA RIVER NR OCALA, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)		
APR 10 24	0900 1000	 6.5	7.8 7.5	450 444	22.7 23.0	<.20 <.2	.002	.91 .928	.04	.03	<.1 <.1		
MAY 08 22	0855 0920	3.2 3.9	6.6 7.5	418 446	22.8 23.4	<.20 <.20	.010	.93 .91	.04	<.02 <.02	<.1 <.1		
JUN 05 19	0845 0900		7.5 7.5	438 439	23.2 28.3	<.20 <.20	E.010cl E.027cl	.94 .90	.03	.02	<.1 <.1		
JUL 02 17	1015 0825	4.5 3.8	7.5 7.5	444 445	23.6 23.6	<.20 <.20	E.006 E.009cl	.85 .88	.03	.03	<.1 <.1		
291722081481301 OCKLAWAHA RIVER AT GORES LANDING NR FT McCOY, FL													
DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)		
APR 10 24	1110 1200	 8.6	7.9 7.8	457 440	23.7 24.0	.45	.090	.87 .800	.02	.03	3.0 <.1		
MAY 08 22	1046 1225	5.7 7.5	6.8 7.8	409 441	23.4 25.2	.58 .60	.080	.73 .77	.03	<.02 <.02	<.1 <.1		
JUN 05 19	1015 1100		7.8 7.7	436 437	25.2 25.0	.46	E.08 E.074cl	.79 .76	.01	.02	4.7 5.5		
JUL 02 17	1200 1015	7.3	 7.9	 439	 24.7	. 27	E.047cl E.041cl	.70 .721	<.01 <.01	.02	<.1 <.1		
	29	260008140	5401 ST	JOHNS RIV	ER AT BUZZ	ARD'S POI	INT NR STOK	ES FERRY,	FL				
DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)		
APR 11 26	1100 0935		7.7	1710	25.4	.95 1.0	.040	<.002 <.002	<.01 <.01	.03	15 26		
MAY 09 23	1250 1445	6.7 9.9	7.6 8.9	1200 1680	24.0 28.6	1.1	.040 E.221cl	<.002	<.01	.02	28 43		
JUN 06 20	1120 1308		9.0 8.9	1720 1720	29.5 30.1	1.8 2.1	E.514cl E.054cl	<.002cl <.002cl	.01	.04	78 91		
JUL 03 18	0730 1220	8.7 7.7	9.2 8.8	1610 1480	30.3 29.2	2.1	E.381cl E.257cl	E.002cl <.002cl	<.01 <.01	.05	68 53		

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

292751081411001 -- ST JOHNS RIVER AT BEECHER'S POINT NR WELAKA, FL

			PH			NITRO-					CHLOR-A
			WATER	SPE-		GEN, AM-	NITRO-	NITRO-	PHOS-		PHYTO-
			WHOLE	CIFIC		MONIA +	GEN,	GEN,	PHORUS	PHOS-	PLANK-
		OXYGEN,	FIELD	CON-	TEMPER-	ORGANIC	AMMONIA	NO2+NO3	ORTHO	PHORUS	TON
		DIS-	(STAND-	DUCT-	ATURE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	CHROMO
DATE	TIME	SOLVED	ARD	ANCE	WATER	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	FLUOROM
		(MG/L)	UNITS)	(US/CM)	(DEG C)	AS N)	AS N)	AS N)	AS P)	AS P)	(UG/L)
		(00300)	(00400)	(00095)	(00010)	(00625)	(00610)	(00630)	(70507)	(00665)	(70953)
APR											
11	1030		7.9	1560	25.3	.86	.040	< .002	.01	.03	16
26	0930					.81	.040	< .002	<.01	.03	16
MAY											
09	1158	7.4	7.9	1170	23.7	.93	.060	< .002	< .01	< .02	33
23	1400	10.1	8.9	1610	28.9	1.1	E.262cl	< .002	.01	< .02	44
JUN											
06	1000		8.8	1440	29.4	1.4	E.424cl	<.002cl	< .01	.03	58
20	1228		8.8	1400	29.7	1.7	E.066cl	<.002cl	<.01	.04	69
JUL											
03	0710	8.2	9.1	1520	30.2	1.9	.32	.004	< .01	.04	78
18	1150	6.5	8.6	1440	28.9	1.5	E.204cl	<.002cl	<.01	.03	34

292819081413101 -- OCKLAWAHA RIVER 100 YDS UPSTREAM FROM ST JOHNS RIVER NR WELAKA, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
11	1015		8.2	520	23.7	.43	.050	.044	.02	< .02	<.1
26	0845					. 5	.039	.046	<.01	< .02	<.1
MAY											
08	1110	4.6	7.3	452	23.5	.57	.020	.033	<.01	< .02	2.9
23	1310	5.4	7.8	401	27.8	.55	.020	.037	.01	< .02	<.1
JUN											
06	0930		7.6	379	28.7	.52	E.057cl	E.040cl	< .01	< .02	< .1
20	1200		7.7	409	29.2	.51	E.029cl	E.036cl	<.01	< .02	<.1
JUL											
03	0630	5.3	7.6	432	29.3	.53	E.070cl	E.028cl	< .01	< .02	10
18	1120	5.7	7.8	410	28.5	.50	.04c	M	<.01	.02	5.4

292843081442601 -- OCKLAWAHA RIVER AT US HIGHWAY 19 NR SALT SPGS, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
10	1420		8.1	517	24.4	.43	.060	.036	.01	< .02	<.1
24	1645					.49	.04	.030	<.01	< .02	<.1
MAY											
08	1645	5.9	7.1	456	23.8	.61	.020	.031	.02	< .02	<.1
22	1700	6.7	8.1	404	28.2	.54	.040	.029	.01	< .02	<.1
JUN											
05	1525		7.8	379	29.3	.52	E.05	E.031	< .01	< .02	<.1
19	1511		7.8	409	29.7	.47	E.055cl	E.034cl	< .01	< .02	<.1
JUL											
02	1350	6.4	7.7	427	29.3	.51	E.077cl	E.028cl	< .01	< .02	4.6
17	1545	6.3	7.9	413	29.0	.60	E.048cl	E.027cl	< .01	< .02	<.1

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

292905081403401 -- ST JOHNS RIVER AT MARKER 48 AT WELAKA, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
11	0945		7.6	1530	25.2	.75	.040	<.002	.01	.02	12
26	0745					.90	.040	<.002	<.01	.03	24
MAY											
08	1040	7.0	7.0	1290	25.0	1.1	.007	< .002	< .01	.03	60
23	1130	8.0	8.6	1320	27.9	1.1	.060	< .002	< .01	< .02	11
JUN											
06	0900		8.9	1590	29.3	1.7	E.49	E.002	.01	.04	66
20	1020		8.6	1300	29.7	1.7	E.048cl	<.002cl	.01	.05	61
JUL											
03	0610	7.7	8.9	1400	30.2		E.304cl	<.002cl	<.01	.04	81
18	0920	7.1	8.4	1220	29.0	1.3	E.230cl	<.002cl	<.01	.04	67
	29302208148	1301 OKI	AWAHA RIV	ER 800 FT D	OWNSTREAM	FROM RODM	IAN DAM, NR	ORANGE SPI	RINGS, FL		CHLOR-A
			WATER	SPE-		GEN, AM-	NITRO-	NITRO-	PHOS-		PHYTO-

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)		NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
10	1345		8.1	502	25.3	.48	.070	.010	<.01	< .02	<.1
24	1545					.54	.040	.004	<.01	< .02	<.1
MAY											
08	1530	6.8	6.5	446	23.9	.60	.020	.004	.01	< .02	<.1
22	1605	8.4	8.4	401	28.1	.50	.030	.004	.02	< .02	<.1
JUN											
05	1420		8.1	385	30.0	.53	E.043cl	E.002cl	< .01	< .02	< .1
19	1423		8.0	405	30.0	.52	E.033cl	E.005cl	< .01	< .02	5.6
JUL											
02	1410	7.9	8.1	424	30.6	.60	E.073cl	<.002cl	< .01	< .02	6.8
17	1410	7.9	8.1	412	21.0	.60	E.053cl	<.002cl	<.01	<.02	6.4

293036081542501 -- LAKE OCKLAWAHA BL ORANGE CREEK INFLOW NR ORANGE SPGS, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
10	1230		7.7	523	25.6	.48	.080	.08	.01	.03	<.1
24	1420	9.3	7.6	483	23.1	. 4	.040	.007	<.01	< .02	<.1
MAY											
08	1437	7.0	7.1	439	24.0	.52	.030	.009	.02	< .02	<.1
22	1445	9.1	7.7	487	28.1	.44	.030	.004	<.01	< .02	41
JUN											
05	1320		7.6	482	29.0	.48	E.051cl	<.002cl	<.01	< .02	5.2
19	1306		7.6	453	28.8	.45	E.03	E.002	<.01	< .02	8.4
JUL											
02	1253	7.0	7.6	471	29.9	.33	E.055cl	<.002cl	<.01	< .02	6.3
17	1245	8.0	7.9	453	29.1	. 4	E.062cl	<.002cl	<.01	< .02	5.4

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

293112081404201 -- ST JOHNS RIVER AT NASHUA, FL

			PH			NITRO-					CHLOR-A
			WATER	SPE-		GEN,AM-	NITRO-	NITRO-	PHOS-		PHYTO-
			WHOLE	CIFIC		MONIA +	GEN,	GEN,	PHORUS	PHOS-	PLANK-
		OXYGEN,	FIELD	CON-	TEMPER-	ORGANIC	AMMONIA	NO2+NO3	ORTHO	PHORUS	TON
		DIS-	(STAND-	DUCT-	ATURE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	CHROMO
DATE	TIME	SOLVED	ARD	ANCE	WATER	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	FLUOROM
		(MG/L)	UNITS)	(US/CM)	(DEG C)	AS N)	AS N)	AS N)	AS P)	AS P)	(UG/L)
		(00300)	(00400)	(00095)	(00010)	(00625)	(00610)	(00630)	(70507)	(00665)	(70953)
APR											
11	0915		7.7	1540	25.1	.79	.040	< .002	.01	.02	12
25	0955					. 8	.018	< .002	< .01	.03	<16
MAY											
08	0940	6.7	6.5	1340	24.7	1.1	.004	< .002	.01	.03	<.1
23	1050	7.6	8.5	1250	28.1	1.0	.060	< .002	.01	<.02	54
JUN											
06	0830		8.8	1580	29.4	1.5	E.443cl	<.002cl	<.01	.04	72
20	0945		8.7	1530	30.0	1.7	E.073cl	<.002cl	.01	.04	44
JUL											
03	0550	7.1	8.7	1220	30.0	1.5	E.238cl	<.002cl	<.01	.03	72
18	0850	7.0	8.5	1340	29.3	1.7	E.265cl	<.002cl	<.01	.04	66

293554081390401 -- ST JOHNS RIVER AT HORSESHOE POINT NR SATSUMA, FL

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
APR											
11	0745		7.8	1420	24.8	.76	.060	< .002	< .01	.03	11
25	0815					.74	.030	< .002	< .01	.03	16
MAY											
09	0750	6.9	7.0	810	23.2	1.4	.010	.002	.02	.06	32
23	0830	7.3	8.2	1140	28.3	.94	.090	< .002	.01	< .02	25
JUN											
06	0701		8.5	1430	29.4	1.3	E.367cl	<.002cl	.01	.04	56
20	0751		8.5	1410	30.0	1.6	E.044cl	<.002cl	.01	.04	52
JUL											
02	1530	10.0	8.7	1260	31.9	1.3	E.251cl	<.002cl	< .01	.03	38
18	0720	6.4	8.2	1400	29.4	1.6	E.304cl	<.002cl	< .01	.04	82

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

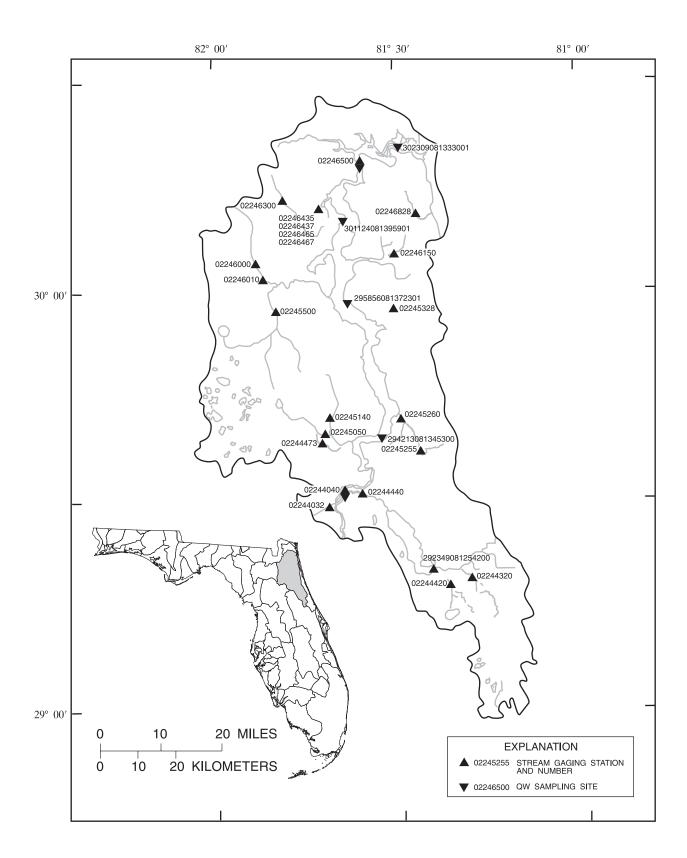


Figure 6.--Location of stream gaging stations in the St. Johns River basin below the Ocklawaha River basin.

02244032 CROSS-FLORIDA BARGE CANAL AT BUCKMAN LOCK, NEAR PALATKA, FL

LOCATION.--Lat $29^{\circ}32^{\circ}45^{\circ}$, long $81^{\circ}43^{\circ}35^{\circ}$, in land grant 37, T.11 S., R.26 E., Putnam County, Hydrologic Unit 03080103, at downstream side of Buckman Lock, 1.7 mi upstream from mouth, and 9.0 mi southwest of Palatka.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--December 1969 to current year. Prior to October 1974, published as "at St. Johns Lock".

GAGE .-- Nonrecording gage.

REMARKS.--Discharge at station is a diversion of flow, for boat lockages, from Lake Ocklawaha and Ocklawaha River into St. Johns River and is computed using daily volume of water used for lockage. Boat lock was closed for maintenance for the entire water year.

COOPERATION. -- Lockage record provided by Cross Florida Greenways and Trails.

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 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1970	- 2001,						
MEAN MAX (WY) MIN (WY)	34.3 78.4 1988 .000 2001	36.0 77.1 1988 .000 2001	28.8 67.4 1988 .000 2001	32.4 67.1 1976 .000 1996	51.8 87.9 1973 .000 1996	53.5 89.7 1985 .000 1996	47.9 90.5 1985 .000 1996	50.3 98.2 1997 .000 2000	41.4 93.5 1994 .000 2000	33.2 62.7 1988 .000 2000	28.8 56.8 1997 .000 1985	30.0 73.1 1987 .000 1985
SUMMARY STATISTICS			FOR 2000 CALENDAR YEAR				OR 2001 WATER YEAR			WATER YEARS 1970 - 2001		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		2807.00 7.67 85 Mar 5 .00 Many days .00 Apr 3 35 .00			ys	.00 Many days .00 Oct 1 .00 .00			39.1 65.4 1988 .000 2001 430 Mar 15 1997 .00 Many days .00 Many days 92 30 .00			

02244040 ST. JOHNS RIVER AT BUFFALO BLUFF NEAR SATSUMA, FL

LOCATION.--Lat $29^{\circ}35^{\circ}46^{\circ}$, long $81^{\circ}41^{\circ}00^{\circ}$, in $SE^{1/4}_{4}$ sec.27, T.10 S., R.26 E., Putnam County, Hydrologic Unit 03080103, near left bank, 400 ft upstream from CSX Transportation bridge, 2.4 mi downstream from Cross-Florida Barge Canal, 3.2 mi northwest of Satsuma, and 89 mi upstream from mouth.

DRAINAGE AREA.--6,580 mi^2 , approximately. Includes Paynes Prairie, a diked sinkhole area of about 650 mi^2 , which is noncontributing.

PERIOD OF RECORD.--September 1943 to July 1948 (gage heights only), October 1992 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 11.00 ft below sea level.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Discharge represents net of much larger upstream and downstream discharges.

		DISCHA	RGE, CUB	IC FEET PE		WATER Y Y MEAN V	EAR OCTOBE	R 2000 TO	SEPTEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-10100	5610	5940	6560	3850	359	4830	-1680	2460	3580	-1360	6140
2	-1450	6030	-367	2860	2460	2100	5760	385	4640	4140	848	4990
3	4110	5780	-8790	1830	1740	6540	7470	-75	3800	3510	3050	2770
4	3900	6790	e3700	2460	-929	7590	3010	484	3120	1300	6880	1270
5	8770	3770	e4200	4450	-138	1970	-1400	54	3500	4810	5670	3220
6	9270	1370	4550	4300	1880	-929	296	244	3870	4470	6270	3680
7	7510	5610	e3900	2190	1340	-2130	3050	-5400	2730	3300	5330	2120
8	-1540	6190	e3200	2710	954	-3970	4270	-6190	2070	943	4860	1990
9	-11200	8630	e2600	-2060	1710	-3380	4020	-1200	-188	1310	6710	5230
10	-2280	2660	e1800	-358	2400	-6950	3180	1770	-1030	1700	8310	7230
11	3830	-269	e2100	-344	453	-5690	3800	4070	1390	2580	9400	7240
12	3970	-1410	e2300	-1360	-3030	-48	2220	4480	2610	2910	9690	4940
13	2900	548	e2100	-3630	-1250	4760	3620	5510	3050	2240	9260	-928
14	2740	2120	2490	-4770	2920	5330	2910	833	3070	-7940	7660	-11700
15	4830	935	4300	-386	3650	9140	1490	2080	4260	-3680	5840	-15100
16	5190	3240	4970	2450	4780	6520	-1210	3590	3340	-572	2340	3050
17	4460	4300	7050	2780	2870	1480	-3520	-736	2540	751	2840	12000
18	4120	1850	7160	1330	-4940	-1700	-4920	-1390	-612	3590	4710	14600
19	4540	143	3920	3910	-3520	-10700	3200	1680	-250	4330	4360	16000
20	1060	-2380	4160	3260	978	-4490	4730	3000	-181	3920	6290	17600
21	1680	2170	4350	3980	2790	2700	3000	3220	1660	635	5390	16900
22	969	5220	1630	-1180	3690	8090	2860	3860	2790	-3280	3430	17000
23	-2370	6840	-2800	-6400	-3190	4620	3140	201	2130	4310	2440	15800
24	-3990	6710	-2980	-1710	-1010	4060	2800	51	1440	6940	4950	15900
25	-1530	3300	-3690	-95	792	4680	1510	1330	130	6000	5480	15200
26 27 28 29 30 31	-591 434 5610 5370 2810 5780	e1200 e3500 5460 4590 3880	-5030 2520 4550 -4880 1980 7030	317 2820 4320 4070 6450 6430	1740 2730 935 	2520 547 -1740 4820 7570 6440	-6650 -1620 1180 982 -4760	215 1080 2440 3120 2510 2100	550 553 50 547 2710	5330 5670 6170 4380 5240 3620	1500 4410 6910 7910 7170 5930	15700 15300 13200 1310 3840
TOTAL	58802	104387	63963	47184	26655	50109	49248	31636	56749	82207	164478	216492
MEAN	1897	3480	2063	1522	952	1616	1642	1021	1892	2652	5306	7216
MAX	9270	8630	7160	6560	4780	9140	7470	5510	4640	6940	9690	17600
MIN	-11200	-2380	-8790	-6400	-4940	-10700	-6650	-6190	-1030	-7940	-1360	-15100
STATIS	TICS OF	MONTHLY ME	AN DATA	FOR WATER	YEARS 199	3 - 2001	, BY WATER	YEAR (WY)			
MEAN	5762	7102	5622	6205	5316	4991	3900	2261	3259	3759	3182	5349
MAX	12460	14270	14230	15230	13690	17290	10880	6302	7998	6954	8621	12050
(WY)	1996	1995	1995	1995	1998	1998	1998	1998	1994	1996	1994	1995
MIN	1027	227	1652	-278	952	1348	741	-327	545	756	317	745
(WY)	1994	1994	1994	1994	2001	2000	1997	1994	1993	2000	1993	1999
SUMMAR	Y STATIS	TICS	FOR	2000 CALE	NDAR YEAR	!	FOR 2001 W	ATER YEAR		WATER	YEARS 1993	3 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		ſ	714144.3 1951 10200 -11200 -4130 6440 2320 -2980	Sep 23	,Oct 9	951910 2608 17600 -15100 -3300 14.1 6860 2790 -2190	Sep 20 Sep 15 Mar 6 8 Sep 16		4956 8048 2608 23400 -23900 -11600 14.! 12200 4360 -1650	May Nov	1995 2001 28 1994 20 1994 21 1993 7 1996	

e Estimated.

Note. -- Negative figures indicate reverse flow

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

02244040 ST. JOHNS RIVER AT BUFFALO BLUFF NEAR SATSUMA, FL--Continued

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 3 4 5	12.02 11.94 11.73 11.65 11.49	11.38 11.31 11.24 11.16 11.17	10.45 10.58 11.02	9.99 10.01 10.03 9.99 9.89	9.69 9.71 9.73 9.92 10.00	10.15 10.10 9.86 9.69 9.55	10.16 10.07 10.02 10.04 10.34	10.38 10.38 10.41 10.39 10.42	10.19 10.09 10.00 9.97 9.92	10.40 10.33 10.27 10.31 10.22	10.94 11.06 11.02 10.86 10.85	10.56 10.59 10.75 10.92 10.96
6 7 8 9 10	11.28 11.19 11.38 11.79 11.75	11.33 11.23 11.10 10.98 10.96	11.05 	9.77 9.84 9.85 9.93 9.97	9.93 9.94 9.98 9.97 9.89	9.58 9.81 10.12 10.29 10.53	10.42 10.30 10.17 10.11 10.11	10.44 10.71 10.97 10.89 10.75	9.89 9.86 9.92 10.01 10.12	10.08 10.03 10.12 10.11 10.12	10.85 10.88 10.89 10.84 10.71	10.96 11.11 11.24 11.24 11.10
11 12 13 14 15	11.58 11.49 11.49 11.50 11.42	11.06 11.26 11.28 11.20 11.17	 10.86 10.69	10.06 10.12 10.30 10.54 10.45	9.90 10.17 10.19 10.02 9.90	10.72 10.61 10.40 10.19 9.95	10.12 10.14 10.03 9.93 10.05	10.59 10.45 10.30 10.44 10.48	10.14 10.16 10.01 9.94 9.92	10.11 10.06 10.05 10.53 10.68	10.55 10.42 10.30 10.24 10.31	11.03 11.09 11.46 12.29 13.49
16 17 18 19 20	11.35 11.33 11.30 11.26 11.35	11.12 11.02 11.02 11.14 11.30	10.65 10.33 10.06 10.08 9.95	10.26 10.18 10.23 10.20 10.03	9.79 9.75 10.07 10.29 10.19	9.86 9.91 10.05 10.78 11.22	10.11 10.20 10.40 10.18 10.07	10.34 10.49 10.61 10.51 10.39	9.87 9.90 10.15 10.27 10.28	10.61 10.64 10.58 10.53 10.56	10.51 10.59 10.58 10.62 10.55	13.64 13.47 13.25 13.04 12.77
21 22 23 24 25	11.37 11.40 11.52 11.75 11.77	11.12 10.88 10.74 10.71 10.81	9.86 10.02 10.23 10.40 10.51	9.81 9.98 10.37 10.44 10.30	10.03 9.94 10.18 10.31 10.25	10.86 10.46 10.46 10.48 10.34	10.04 9.97 9.91 9.87 9.84	10.37 10.30 10.35 10.40 10.37	10.26 10.22 10.18 10.21 10.29	10.79 11.14 11.16 10.82 10.69	10.55 10.62 10.73 10.69 10.63	12.54 12.38 12.28 12.15 12.12
26 27 28 29 30 31	11.80 11.80 11.64 11.55 11.60	10.49 10.46 10.43	10.74 10.59 10.42 10.80 10.54 10.15	10.33 10.23 10.07 10.06 9.91 9.76	10.13 10.06 10.10 	10.36 10.45 10.61 10.59 10.33 10.23	10.16 10.21 10.13 10.11 10.37	10.36 10.35 10.31 10.19 10.13 10.19	10.32 10.36 10.39 10.48 10.48	10.63 10.55 10.49 10.55 10.50	10.81 10.85 10.73 10.60 10.56	11.98 11.92 11.96 12.30 12.56
MEAN MAX MIN	11.55 12.02 11.19	11.04 11.38 10.43	10.45 11.05 9.86	10.09 10.54 9.76	10.00 10.31 9.69	10.28 11.22 9.55	10.12 10.42 9.84	10.44 10.97 10.13	10.13 10.48 9.86	10.46 11.16 10.03	10.67 11.06 10.24	11.90 13.64 10.56

CAL YR 2000 MEAN 10.65 MAX 12.05 MIN 9.83 WTR YR 2001 MEAN 10.60 MAX 13.64 MIN 9.55

02244040 ST. JOHNS RIVER AT BUFFALO BLUFF NEAR SATSUMA, FL--Continued

WATER-OUALITY RECORDS

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: April 1995 to current year. WATER TEMPERATURE: April 1995 to current year. DISSOLVED OXYGEN: March 1996 to current year.

INSTRUMENTATION .-- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,520 μS/cm @ 25 °C, Mar. 5, 2001; minimum daily mean, 360 μS/cm @ 25 °C, Feb. 24, 1998.

WATER TEMPERATURE: Maximum daily mean, 32.7 °C, Aug. 1, 1999; minimum daily mean, 9.4 °C, Jan. 5, 2001.
DISSOLVED OXYGEN: Maximum daily mean, 10.8 mg/L, Jan. 29, Feb. 10,11, 2001; minimum daily mean, 2.7 mg/L, Sept. 14, 2000.

EXTREMES FOR CURRENT YEAR . --

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,520 µS/cm @ 25 °C, Mar. 5; minimum daily mean, 864 µS/cm @ 25 °C, Sept. 28. WATER TEMPERATURE: Maximum daily mean, 31.7 °C, Aug. 18; minimum daily mean, 9.4 °C, Jan. 5.

DISSOLVED OXYGEN: Maximum daily mean, 10.8 mg/L, Jan. 29, Feb. 10,11; minimum daily mean, 3.0 mg/L, Aug. 18.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	969 930 943 967 912	1140 1190 1210 1220 1230	1390 1380 1370 1290 1260	1080 1260 1320 1370 1340	1450 1460 1470 1450 1430	1270 1240 1270 1420 1520	1440 1460 1470 1470 1460	1210 1220 1210 1210 1240	 	 	 	1370 1360 1370 1360 1360
6 7 8 9 10	945 1010 1010 917 895	1240 1260 1230 1290 1340	1270 1280 1230 1220 1240	1350 1420 1460 1470 1460	1420 1380 1350 1280 1180	1480 1420 1300 1220 1220	1460 1460 1450 1320 1340	1230 1250 1310 1320 1280	 	 	1280 1220 1210	1310 1230 1210 1210 1250
11 12 13 14 15	909 936 940 947 980	1330 1350 1320 1330 1330	1240 1230 1200 1160 1140	1440 1440 1430 1400 1370	1190 1200 1220 1210 1220	1240 1240 1210 1180 1270	1400 1420 1450 1450 1450	1240 1150 1110 1110 1100	 	 	1280 1310 1340 1300 1280	1330 1330 1320 1170 1130
16 17 18 19 20	1030 1100 1140 1170 1180	1290 1190 1190 1200 1200	1190 1320 1370 1370 1390	1350 1340 1210 1110 1030	1220 1270 1240 1210 1210	1410 1460 1440 1280 1200	1420 1410 1380 1380 1400	1090 1070 1090 1090 1080	 	 	1250 1260 1220 1140 1170	1120 1090 1020 1060 1090
21 22 23 24 25	1190 1180 1170 1140 1090	1210 1200 1200 1280 1320	1310 1290 1290 1290 1300	1070 1150 1080 1100 1110	1210 1250 1270 1230 1240	1190 1190 1190 1240 1280	1310 1250 1250 1250 1270	1070 1050 			1210 1240 1240 1260 1250	1090 1100 1080 1060 980
26 27 28 29 30 31	1080 1090 1100 1070 1050 1100	1360 1360 1380 1410 1400	1300 1280 1270 1270 1260 1090	1110 1130 1130 1080 1280 1400	1240 1270 1280 	1310 1320 1320 1320 1280 1350	1240 1220 1220 1220 1220 	 	 	 	1270 1290 1280 1210 1350 1390	899 888 864 876 886
MEAN MAX MIN	1040 1190 895	1270 1410 1140	1270 1390 1090	1270 1470 1030	1290 1470 1180	1300 1520 1180	1360 1470 1220	1170 1320 1050			1260 1390 1140	1150 1370 864

CAL YR 2000 MEAN 973 MAX 1410 MIN 541 WTR YR 2001 MEAN 1240 MAX 1520 MIN 864 02244040 ST. JOHNS RIVER AT BUFFALO BLUFF NEAR SATSUMA, FL--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMP:	ERATURE,	WATER (DEC		TER YEAR (Y MEAN VA		000 TO SEF	TEMBER 20	101		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.7	22.6	16.3	10.9	16.1	22.6	20.4	24.1				31.0
2	25.4	22.6	16.4	10.4	16.0	22.9	20.6	24.2				30.8
3	25.5	22.5	16.5	9.9	15.7	23.3	20.9	24.2				30.5
4	25.8	22.6	15.5	9.7	15.3	23.3	21.3	24.3				30.6
5	26.1	22.7	14.8	9.4	15.2	22.2	21.5	24.5				30.5
6	26.6	22.8	14.4	9.6	15.3	20.6	22.0	24.8				30.2
7	26.8	23.0	14.5	10.0	15.5	19.3	22.6	24.8				29.9
8	26.5	23.2	14.7	10.5	15.9	18.7	23.2	24.3			29.2	29.8
9	24.8	23.4	15.2	10.8	16.4	18.4	24.0	24.2			29.7	29.7
10	22.8	23.6	15.7	10.5	16.9	17.7	24.9	24.5			30.3	29.6
11	22.0	23.1	16.2	10.7	17.4	17.2	25.5	25.0			30.6	29.5
12	22.0	22.5	16.8	11.3	17.6	17.9	26.0	25.4			30.9	29.2
13	22.0	22.1	17.4	11.7	17.7	18.8	26.5	26.0			31.3	28.4
14	21.9	21.9	18.0	11.9	18.2	19.7	26.6	26.5			31.2	27.2
15	21.8	21.0	18.7	12.4	18.9	21.0	26.8	26.8			31.1	25.1
16	21.7	20.4	19.6	13.1	19.8	21.7	26.8	27.3			31.1	24.4
17	21.9	20.4	20.0	13.7	20.5	21.8	26.2	27.7			31.4	24.6
18	22.0	20.1	18.7	14.3	20.0	21.3	24.6	28.0			31.7	24.9
19	22.3	19.8	17.2	15.2	19.2	20.1	24.1	28.0			31.6	25.3
20	22.3	19.3	15.5	16.0	19.3	19.1	24.1	28.1			31.4	25.8
21	22.2	18.2	14.1	15.5	20.0	18.7	24.1	28.3			31.4	26.5
22	22.3	17.2	13.4	15.3	20.4	18.7	24.1	28.6			31.5	27.1
23	22.3	16.3	13.1	14.3	20.5	18.7	24.2				31.5	27.2
24	22.2	15.8	13.4	13.8	20.0	19.0	24.6				31.5	27.6
25	22.1	16.3	13.3	13.7	20.5	19.3	24.6				31.4	27.3
26	22.1	16.6	13.4	13.6	21.2	19.4	24.2				31.2	26.6
27	22.1	16.6	13.6	13.8	21.9	19.3	24.0				31.1	26.1
28	22.1	16.7	13.7	14.1	22.4	19.3	24.2				31.0	25.8
29	22.3	16.6	13.4	14.2		19.3	24.3				31.0	25.2
30	22.6	16.4	12.8	15.0		19.3	24.1				31.1	24.3
31	22.6		11.9	15.7		19.8					31.2	
MEAN	23.3	20.2	15.4	12.6	18.4	19.9	24.0	25.9			31.1	27.7
MAX	26.8	23.6	20.0	16.0	22.4	23.3	26.8	28.6			31.7	31.0
MIN	21.7	15.8	11.9	9.4	15.2	17.2	20.4	24.1			29.2	24.3

CAL YR 2000 MEAN 23.5 MAX 31.4 MIN 11.8 WTR YR 2001 MEAN 21.5 MAX 31.7 MIN 9.4

OXYGEN DISSOLVED (MG/L), 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	5.2 5.0	6.3 6.6	6.1 6.3	9.8 9.8	9.2 9.1	8.5 8.7		10.4					
3 4	4.7 4.7	6.8 6.8	6.6 8.2	10.0 10.1	9.2 9.3	8.2 7.5		10.1 10.2					
5	5.1	6.7	8.7	10.4	9.5	7.1		10.4					
6 7 8 9	6.2 6.5 6.3 6.2	6.5 6.2 6.0 5.9	8.3 8.0 7.8 7.4	10.3 10.2 10.0 10.1	9.9 10.1 10.4 10.7	8.3 9.0 9.8 9.7	 	10.6 10.4 9.9 9.5	 	 	 5.7 5.7		
10 11	6.4	5.8 5.9	6.9 6.8	10.4	10.8	9.7 9.8		9.8 10.1			5.7 5.4		
12 13 14 15	6.2 6.7 6.9 7.1	6.0 5.9 5.6 5.8	6.5 6.5 6.4	10.3 10.5 10.6 10.6	10.6 10.5 10.6 10.5	9.5 8.9 	7.8 8.1 8.1 8.0	10.3 9.1 8.8 8.7	 		5.2 5.3 5.1 4.7		
16 17 18 19 20	7.1 7.3 7.4 7.4 7.0	5.9 5.8 6.0 6.2 6.1	6.3 6.3 6.9 7.5 7.8	10.4 10.2 10.0 9.8 9.1	10.3 9.7 9.8 10.3 10.5	 	8.2 8.5 9.0 9.5 9.7	8.8 8.7 8.9 9.2 8.7	 	 	4.5 3.4 3.0 		
21 22 23 24 25	6.7 6.4 6.2 5.9 5.7	6.3 6.7 7.5 7.8 7.4	8.2 8.7 8.9 9.1 9.3	8.6 8.6 9.3 9.6 9.9	10.5 10.4 9.9 9.6 9.5	 	9.8 9.8 9.8 9.5	8.4 7.2 	 	 	 		
26 27 28 29 30 31	5.4 5.2 5.0 5.1 5.2 5.8	7.1 7.2 6.8 6.1 5.9	9.6 9.7 9.5 9.6 9.8	10.2 10.3 10.6 10.8 10.0 9.4	9.4 9.3 8.9 		9.7 10.2 10.7 10.4 10.3	 	 	 	 		
MEAN MAX MIN	6.1 7.4 4.7	6.4 7.8 5.6	7.9 9.8 6.1	10.0 10.8 8.6	10.0 10.8 8.9	8.8 9.8 7.1	9.3 10.7 7.8	9.5 10.6 7.2			4.9 5.7 3.0		

CAL YR 2000 MEAN 7.2 MAX 9.8 MIN 2.7 WTR YR 2001 MEAN 8.2 MAX 10.8 MIN 3.0

02244320 MIDDLE HAW CREEK NEAR KORONA, FL

LOCATION.--Lat $29^{\circ}21^{\circ}35^{\circ}$, long $81^{\circ}18^{\circ}42^{\circ}$, in NW $^{1}_{4}$ sec.19, T.13 S., R.30 E., Flagler County, Hydrologic Unit 03080103, near center of span on downstream side of bridge on State Highway 11, 1.2 mi north of Codys Corner and 7.7 mi southwest of Korona.

DRAINAGE AREA.--78.3 \min^2 .

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

REVISED RECORDS. -- WDR FL-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

		DISCHAR	GE, CUBIC	FEET PER		WATER Y Y MEAN V	EAR OCTOBER	2000 TO	SEPTEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.6 9.8 9.4 8.9 8.2	.15 .09 .07 .05	.00 .00 .00 .00	.00 .00 .00 .00	.02 .02 .01 .04	.00 .00 .00 .01	79 91 93 88 79	3.4 3.1 2.7 2.4 2.0	.00 .00 .00 .00	.04 .03 .02 .01	57 39 36 54 156	61 59 87 102 187
6 7 8 9 10	7.4 6.6 5.9 5.0 4.3	.03 .02 .01 .01	.00 .00 .00 .00	.00 .00 .00 .00	.03 .02 .01 .01	.00 .00 .00 .00	68 58 49 43 38	1.7 1.3 1.1 .94	.00 .05 .02 .01	.02 .01 .01 .00 e.01	214 206 191 172 170	402 570 494 400 339
11 12 13 14 15	3.5 2.9 2.3 1.8 1.3	.00 .00 .00 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .04 .01	34 31 28 26 25	.59 .45 .33 .23	.15 .10 .03 .01	e.02 .02 .02 .23 .11	225 201 166 141 128	294 278 316 1110 3030
16 17 18 19 20	.82 .47 .29 .20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.01 .00 .03 1.4	22 20 17 15 14	.10 .05 .00 .00	.02 .00 .00 .01	1.7 2.6 4.1 9.9	124 119 114 111 110	3400 2660 2120 1700 1360
21 22 23 24 25	.12 .09 .11 .23 .47	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	6.8 12 32 39 36	12 10 9.1 7.9 7.0	.00 .00 .00 .00	e.01 e.10 .09 .07	26 28 28 26 22	106 101 99 94 88	1090 898 804 675 577
26 27 28 29 30 31	.91 .97 .73 .52 .36	.01 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00	37 38 38 40 57 71	6.6 5.7 4.8 4.3 3.8	.00 .00 .00 .00	.03 .02 .04 .06	25 35 24 17 17	80 72 63 56 49 47	504 451 412 458 891
TOTAL MEAN MAX MIN CFSM IN.	93.54 3.02 9.8 .09 .04	0.52 .017 .15 .00 .00	.00		.00	419.30 13.5 71 .00 .17 .20	33.0 93 3.8 .42 .47	21.32 .69 3.4 .00 .01	0.99 .033 .15 .00 .00	342.86 11.1 57 .00 .14 .16	3589 116 225 36 1.48 1.71	25729 858 3400 59 11.0 12.22
							, BY WATER					
MEAN MAX (WY) MIN (WY)	129 374 1996 .37 1981	61.1 435 1995 .017 2001	43.0 232 1998 .000 2001	72.6 239 1977 .001 2001	64.9 259 1998 .007 2001	69.6 269 1978 .060 1985	55.6 374 1982 .043 1976	12.6 197 1979 .000 1978	48.1 300 1976 .000 1981	52.2 339 1991 .022 1993	72.1 354 1978 .033 1988	171 858 2001 .29 1989
SUMMARY	Y STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	!	FOR 2001 WA	TER YEAR		WATER Y	EARS 1975	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN ANNUAL ANNUAL 10 PERC 50 PERC	MEAN F ANNUAL M	CAN		3070.68 8.39 129 .00 .00 .11 1.46 13 .27	Apr 10 Many d May 26	lays	31185.95 85.4 3400 .00 3720 14.15 1.09 14.82 133 .05	Sep 16 Many da Nov 16 Sep 15, Sep 15,	ys 16 16	70.2 125 10.3 3400 .00 3720 14.1! .11 214 11	Sep :) Mai) Mai Sep 15, 5 Sep 15,	1979 1981 16 2001 ny days ny days 16 2000 16 2000

e Estimated

02244420 LITTLE HAW CREEK NEAR SEVILLE, FL

LOCATION.--Lat $29^{\circ}19^{\circ}20^{\circ}$, long $81^{\circ}23^{\circ}10^{\circ}$, in SE_{4}^{1} sec.32, T.13 S., R.29 E., Flagler County, Hydrologic Unit 03080103, on right bank 600 ft downstream from bridge on State Highway 305, 1.4 mi downstream from Lake Disston, and 6.4 mi east of Seville.

DRAINAGE AREA.--93.0 \mbox{mi}^{2} .

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5.74 ft above sea level. Prior to Jan. 5, 1953, water-stage recorder at site 600 ft upstream at same datum.

REMARKS.--Records fair.

		DISCHA	RGE, CUBI	C FEET PER		WATER Y		BER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APF	2	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	36 32 29 28 27	4.5 4.2 3.9 3.6 3.4	1.3 1.3 1.2 1.1	.91 .89 .89 .86	1.3 1.3 1.2 1.6 1.6	1.0 1.0 .98 1.2 1.1	26 26 27 28	5 7 3	13 12 12 11 9.9	2.0 2.0 1.7 1.6 1.8	3.8 3.2 2.9 3.1 4.8	25 30 32 50 56	64 57 53 51 56
6 7 8 9 10	25 25 23 20 16	3.3 3.1 3.0 2.9 2.7	1.0 1.0 1.0 1.0	.85 .85 .88 .89	1.4 1.3 1.3 1.2	.91 .78 .70 .67	32 33	3	9.1 8.4 8.0 7.3 6.8	1.9 1.7 1.8 1.8 2.0	4.5 3.8 3.3 2.9 3.1	91 103 109 109 126	112 220 178 162 157
11 12 13 14 15	14 13 12 11 10	2.5 2.3 2.2 2.2 2.2	1.0 1.5 1.4 1.2	.82 .91 .91 .89	1.2 1.2 1.2 1.2 1.1	.68 .65 2.9 3.4 2.1	37 38 38 38	3 3 3	6.1 5.6 5.0 4.6 4.1	2.3 2.6 2.1 2.3 3.5	4.1 3.6 3.7 5.0 5.5	238 256 225 187 155	173 199 255 748 1650
16 17 18 19 20	9.3 8.7 8.3 7.6 7.2	2.0 1.8 1.7 1.6 1.5	1.1 1.1 1.0 .97	.90 .89 .90 .89	1.1 1.1 1.1 1.0 1.0	2.1 2.1 2.1 13 51	36 33 30 25	3) 7	3.7 3.3 3.0 2.7 2.5	5.5 12 9.9 9.9 6.7	4.4 5.2 4.8 4.9 5.5	136 133 123 110 102	1810 1690 1580 1480 1380
21 22 23 24 25	7.0 6.6 6.4 7.1 7.0	1.5 1.4 1.3 1.2	.89 .89 .88 .88	1.0 .96 .92 .89	.98 .97 .94 1.1 1.3	18 9.6 7.6 7.1 7.3	24 22 23 20 20	2 L)	2.4 3.1 3.5 2.9 2.5	4.9 4.9 5.6 4.9 4.1	6.9 9.0 15 15	97 92 92 83 77	1290 1200 1120 1050 976
26 27 28 29 30 31	8.8 8.2 6.4 5.6 5.2 4.8	1.7 1.8 1.6 1.4 1.4	.85 .85 1.0 1.1 1.1	.81 .82 .83 .82 .85	1.2 1.1 1.0 	7.8 7.8 8.1 11 23 30	21 18 16 15 14	3 5 1	2.2 2.1 1.9 1.9 1.9	3.5 3.2 3.7 4.4 4.2	17 18 16 15 14 20	77 70 64 59 54 53	908 850 796 826 940
TOTAL MEAN MAX MIN CFSM IN.	435.2 14.0 36 4.8 .15 .17	69.3 2.31 4.5 1.2 .02	32.55 1.05 1.5 .85 .01	27.48 .89 1.0 .81 .01	33.19 1.19 1.6 .94 .01	226.37 7.30 51 .65 .08		3 3 1	164.5 5.31 13 1.9 .06	118.5 3.95 12 1.6 .04	242.0 7.81 20 2.9 .08 .10	3214 104 256 25 1.11 1.29	22031 734 1810 51 7.90 8.81
STATIST	TICS OF MC	ONTHLY ME.	AN DATA F	OR WATER Y	EARS 195	1 - 200	1, BY WAT	TER Y	EAR (WY)			
MEAN MAX (WY) MIN (WY)	157 635 1970 2.48 1987	72.5 433 1995 1.40 1987	51.3 290 1998 1.05 2001	70.8 347 1998 .89 2001	83.3 334 1998 1.19 2001	96.0 539 1960 .87 1968	379 1982 . 22	9 2 2	17.8 131 1964 .093 1968	30.1 338 1991 .033 1962	61.0 364 1960 .24 1977	87.3 348 1978 .78 1999	168 860 1953 4.55 1986
SUMMARY	STATISTI	ICS	FOR :	2000 CALEN	DAR YEAR	!	FOR 2001	LWAT	ER YEAR		WATER Y	EARS 1951	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MINSTANT ANNUAL ANNUAL 10 PERC		EAN EAN AN MINIMUM AGE OW FLOW CFSM) ENCHES)		.37	Sep 11 Jun 21 Jun 15		1810 1840 9	6.1 .65 .73) 9.57 .62 .81	Sep 16 Mar 12 Mar 6 Sep 15 Sep 15 Mar 11	,16 ,16		Sep Som Som Sep 15, 7 Sep 15,	
	CENT EXCEE			.73				.91			1.5		

292349081254200 HAW CREEK AT MOUTH NEAR SEVILLE, FL

LOCATION.--Lat $29^{\circ}23^{\circ}49^{\circ}$, long $81^{\circ}25^{\circ}42^{\circ}$, in $SE^{1/2}_{4}$ sec.1, T.13 S., R.28 E., Volusia County, Hydrologic Unit 03080103, on left bank, 0.4 mi upstream from mouth, and 6.7 mi northeast of Seville.

DRAINAGE AREA.--230 mi².

PERIOD OF RECORD.--February to September 2001 (discharge measurements only).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 203 $\rm ft^3/s$, Aug. 22, 2001; minimum measured, 9.8 $\rm ft^3/s$, Feb. 15, 2001.

DISCHARGE MEASUREMENTS, PERIOD FEBRUARY 2001 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)
FEB 15 APR	1009	9.8	JUN 19 AUG	0810	66
17	0757	30	22	0813	203

02244440 DUNNS CREEK NEAR SATSUMA, FL

LOCATION.--Lat $29^{\circ}34^{\circ}39^{\circ}$, long $81^{\circ}37^{\circ}35^{\circ}$, in $NE^{\frac{1}{4}}_{4}$ sec.1, T.11 S., R.27 E., Putnam County, Hydrologic Unit 03080103, on bridge pile near left bank of the U.S. Highway 17 bridge, 0.3 mi upstream from Murphy Creek, 0.8 mi upstream from mouth, 2.4 mi northeast of Satsuma, and 3.1 mi southwest of San Mateo.

DRAINAGE AREA.--585 mi².

PERIOD OF RECORD.--January 1978 to current year.

REVISED RECORDS.--WDR FL-93-1A: Drainage area.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 10.00 ft below sea level. Prior to July 21, 1987, at site 200 ft downstream at present datum.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Discharge represents net of much larger upstream and downstream discharges.

		DISCHA	RGE, CUBI	C FEET PER		, WATER T	YEAR OCTOBER VALUES	2000 TO) SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-3000	1010	-65	1840	1240	-7.7	979	-702	309	e1150	-616	e-160
2	-236	1030	-616	673	726	450	1310	-187	842	e1300	-229	e-350
3	1430	951	-3230	266	482	1680	1130	-138	822	e950	784	e-800
4	1450	1070	-3650	355	-457	1880	563	93	661	e450	2100	e-2200
5	2550	452	-779	865	-133	772	-935	-154	643	e850	2460	e-640
6	2880	-505	1050	1090	563	171	-422	-159	590	e1100	3000	e1420
7	2320	722	1360	363	360	-529	574	-1750	400	e800	2430	e1100
8	-394	1190	1630	285	176	-1270	959	-1950	236	e400	1890	e900
9	-3160	1400	1390	-729	249	-1180	724	-578	-129	e700	2060	e1540
10	-733	339	310	-196	483	-1800	408	458	-411	e1100	2230	e2300
11	976	-480	-277	-365	74	-1510	393	931	-166	e1200	2790	e2200
12	1030	-1190	265	-751	-1110	20	-74	1060	-176	722	2520	1650
13	583	-591	-31	-1130	-373	1240	416	1060	587	411	e2000	361
14	386	-85	152	-1510	793	1600	567	-204	679	-2300	e1500	-2510
15	856	-131	886	-66	1050	2200	-136	-130	633	-1210	923	e-7000
16	914	345	714	930	1240	1620	-508	522	530	41	e170	e1000
17	632	666	1710	860	822	284	-1170	-725	284	320	e432	e5000
18	456	247	2070	239	-1320	-441	-1130	-714	-474	846	434	e8000
19	549	-675	861	773	-1060	-2970	939	e300	-153	1220	-198	e10000
20	-280	-1440	1160	941	272	-1980	1160	e800	-9.2	969	438	10600
21	79	615	763	1590	918	1130	727	e600	234	-55	e1100	10200
22	28	1720	67	-409	949	2880	668	e800	470	-1690	-52	9650
23	-1220	1830	-1220	-1960	-895	1780	618	e-200	309	-172	e-1000	8930
24	-1900	1530	-1140	-708	-313	1190	509	e-200	86	1440	e-600	8330
25	-974	352	-1250	130	281	1360	213	e-50	-460	1380	194	7590
26 27 28 29 30 31	-653 -325 1070 1030 230 1080	665 1070 1110 661 437	-1610 420 845 -1730 717 2330	58 729 1200 812 1260 1500	706 905 180 	587 3.2 -776 656 1710 1510	-1780 -763 -7.3 51 -1500	-316 e1100 e1500 e1700 e1250 299	-465 -337 -107 e300 e750	1050 1170 1120 381 582 667	e-1440 e-250 e700 e1100 e800 e1600	7260 6470 5440 1460 509
TOTAL	7654	14315	3102	8935	6808	12259.5	4482.7	4316	6477.8	16892	29270	98250
MEAN	247	477	100	288	243	395	149	139	216	545	944	3275
MAX	2880	1830	2330	1840	1240	2880	1310	1700	842	1440	3000	10600
MIN	-3160	-1440	-3650	-1960	-1320	-2970	-1780	-1950	-474	-2300	-1440	-7000
STATIST	TICS OF M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 19	78 - 200	1, BY WATER	YEAR (W)	()			
MEAN	652	728	468	779	723	576	279	-56.4	324	443	225	633
MAX	3011	3035	2205	2823	4431	2249	1670	1898	2274	1385	1453	3868
(WY)	1996	1995	1998	1983	1983	1983	1996	1997	1997	1997	1978	1995
MIN	-241	-93.6	-356	-217	-184	-311	-576	-339	-806	-328	-775	-600
(WY)	1991	1984	1991	1991	1982	1995	1999	1994	1979	1999	1995	1978
SUMMARY	STATIST	ICS	FOR	2000 CALEN	DAR YEA	R	FOR 2001 WA	TER YEAF	2	WATER Y	EARS 1978	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC	MEAN CANNUAL ANNUAL M CDAILY M DAILY ME	EAN EAN AN Y MINIMUM 'AGE EDS EDS		79971.3 219 3280 -3650 -1220 1400 296 -1200	Sep 1 Dec May 2	4	212762.0 583 10600 e-7000 -1030 *14.82 1710 482 -1120	Sep 20 Sep 15 Nov 29 Sep 16	5	483 975 -128 10600 -8340 -3130 *14.8 2060 363 -911	Sep Aug	1983 1999 20 2001 15 1999 29 1999 16 2001

Note. -- Negative figures indicate reverse flow

e Estimated * From floodmark

02244440 DUNNS CREEK NEAR SATSUMA, FL--Continued

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12.37 12.26 12.05 11.95 11.75	11.66 11.59 11.52 11.44 11.46	10.77 10.92 11.40 11.77 11.65	10.26 10.31 10.34 10.30 10.19	9.98 10.02 10.04 10.25 10.32	10.47 10.42 10.15 9.97 9.91	10.47 10.35 10.30 10.34 10.66	10.71 10.70 10.73 10.70 10.74	10.54 10.43 10.35 10.31 10.25	 	11.29 11.41 11.30 11.15 11.17	10.97
6 7 8 9 10	11.53 11.47 11.71 12.17 12.08	11.63 11.51 11.37 11.25 11.27	11.40 11.24 11.07 10.98 11.09	10.06 10.14 10.15 10.27 10.28	10.23 10.23 10.28 10.26 10.19	9.94 10.15 10.47 10.63 10.88	10.73 10.60 10.45 10.41 10.41	10.76 11.07 11.31 11.22 11.06	10.23 10.21 10.26 10.37 10.49	 	11.17 11.20 11.22 11.16 11.02	 11.55
11 12 13 14 15	11.87 11.77 11.78 11.79 11.71	11.38 11.57 11.58 11.50 11.47	11.20 11.13 11.15 11.15 10.97	10.37 10.45 10.64 10.88 10.77	10.22 10.50 10.51 10.33 10.20	11.07 10.94 10.70 10.47 10.20	10.41 10.45 10.34 10.24 10.37	10.89 10.75 10.60 10.75 10.79	10.49 10.50 10.36 10.28 10.26	10.39 10.39 10.92 11.04	10.85 10.72 10.64	11.43 11.77 12.74
16 17 18 19 20	11.63 11.61 11.59 11.54 11.65	11.41 11.31 11.32 11.46 11.68	10.93 10.63 10.34 10.37 10.24	10.56 10.48 10.55 10.49 10.34	10.09 10.05 10.41 10.62 10.50	10.14 10.22 10.38 11.13 11.57	10.45 10.56 10.75 10.48 10.35	10.65 10.83 10.94	10.22 10.25 10.52 10.63 10.64	10.96 10.97 10.89 10.84 10.88	10.88 10.99 10.90	 12.98
21 22 23 24 25	11.64 11.65 11.84 12.08 12.09	11.43 11.16 11.00 10.97 11.09	10.23 10.32 10.57 10.73 10.85	10.10 10.31 10.74 10.77 10.64	10.33 10.24 10.53 10.62 10.56	11.18 10.75 10.75 10.78 10.63	10.34 10.26 10.20 10.17 10.16	 	10.61 10.56 10.53 10.56 10.65	11.13 11.50 11.47 11.15 10.99	10.94 10.96	12.74 12.58 12.50 12.36 12.35
26 27 28 29 30 31	12.11 12.10 11.91 11.83 11.90	11.03 10.89 10.77 10.74 10.72	11.08 10.89 10.72 11.14 10.86 10.43	10.65 10.54 10.37 10.35 10.19	10.45 10.36 10.42 	10.67 10.76 10.94 10.87 10.61 10.51	10.52 10.53 10.44 10.40 10.71	10.69 10.54	10.68 10.71 10.75 	10.94 10.91 10.91 10.86 10.81 10.90	 	12.19 12.14 12.21 12.65 12.88
MEAN MAX MIN	11.84 12.37 11.47	11.31 11.68 10.72	10.91 11.77 10.23	10.40 10.88 10.05	10.31 10.62 9.98	10.59 11.57 9.91	10.43 10.75 10.16	10.82 11.31 10.54	10.45 10.75 10.21	10.94 11.50 10.39	11.05 11.41 10.64	12.25 12.98 10.97

CAL YR 2000 MEAN 10.94 MAX 12.39 MIN 10.13 WTR YR 2001 MEAN 10.89 MAX 12.98 MIN 9.91

02244473 RICE CREEK NEAR SPRINGSIDE, FL

LOCATION.--Lat 29°41'17", long 81°44'32", in land grant 40, T.9 S., R.26 E., Putnam County, Hydrologic Unit 03080103, near left bank on downstream side of bridge on State Highway 100, 1.8 mi northwest of Springside, 5.9 mi northwest of Palatka, and 7.5 mi upstream from mouth.

DRAINAGE AREA. -- 43.2 mi².

PERIOD OF RECORD. -- October 1973 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 1.04 ft above sea level (levels by Wardlin Engineering Associates).

REMARKS. -- Records fair.

	DISCHAF	RGE, CUBIC	FEET PER				2000 TO	SEPTEMBER	2001		
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
68 56 39 28 22	6.3 6.2 6.1 6.1	9.7 9.0 8.6 8.5 8.3	7.5 7.5 7.4 7.4	15 24 31 25 22	5.1 5.1 4.9 6.6	45 31 21 16 13	3.4 3.3 3.3 3.3 3.1	2.1 2.1 2.0 2.0 2.2	9.4 6.6 5.0 4.2 3.8	5.9 11 18 48 112	5.2 4.9 5.1 5.2 5.2
18 25 33 30 19	6.1 6.0 5.9 5.9 6.0	7.9 7.7 7.5 7.5 7.4	7.3 7.2 7.2 7.4 7.1	18 14 12 11 9.7	9.2 7.0 6.0 5.6 5.9	12 9.9 8.1 7.0 6.2	2.9 3.2 4.4 3.9 3.4	2.1 2.1 2.2 2.1 2.1	3.8 3.5 3.5 3.4 3.4	303 216 142 103 59	5.8 7.2 7.0 6.3 5.5
14 11 9.4 8.3 7.6	5.9 5.8 5.7 5.9 6.3	7.6 7.9 8.0 8.3 8.2	7.0 7.4 7.8 7.5 7.5	9.2 8.5 8.1 8.0 7.8	5.8 5.5 6.1 7.5 6.7	5.5 4.9 4.5 4.3 5.8	3.1 2.8 2.7 2.6 2.5	2.8 3.5 3.1 3.5 4.4	3.7 3.7 3.7 3.9 3.6	39 30 23 21 18	5.0 5.2 6.3 36 518
6.9 6.3 6.0 5.8 5.7	6.1 6.0 5.8 5.8 6.5	8.0 9.5 9.8 9.0 8.6	7.5 7.3 7.1 7.0 7.3	7.4 7.1 6.8 6.5 6.2	6.5 7.6 8.1 25 127	5.6 4.4 3.8 3.6 3.5	2.4 2.3 2.2 2.2 2.1	3.5 3.5 6.7 7.9 6.2	3.2 3.1 3.1 3.4 6.6	38 63 65 58 46	556 430 356 275 210
6.3 6.3 6.7 9.7 9.5	6.7 6.4 6.2 6.3	8.3 8.2 8.1 7.9 7.8	7.4 7.2 7.1 6.9 6.6	6.1 5.9 5.8 5.8 5.9	167 128 91 73 60	3.3 3.2 3.1 3.0 3.5	2.1 2.1 2.1 2.1 2.0	4.6 4.2 4.3 4.2 3.8	9.7 8.3 5.9 5.9 5.1	42 26 16 11 8.3	164 183 711 506 396
9.6 8.9 7.9 7.2 6.9 6.6	17 20 16 13 11	7.7 7.7 7.7 8.3 8.2 7.8	6.3 6.2 6.2 6.2 6.2 7.8	5.7 5.5 5.3 	48 33 22 20 39 51	7.0 6.6 4.9 4.1 3.7	2.0 2.0 1.9 2.0 2.0	3.4 4.4 10 15 13	4.7 8.2 9.5 5.6 4.4 4.3	6.8 5.7 5.0 4.6 4.3 4.1	439 346 253 192 154
504.6 16.3 68 5.7 .38 .43	233.1 7.77 20 5.7 .18 .20	254.7 8.22 9.8 7.4 .19 .22	220.8 7.12 7.8 6.2 .16 .19	303.3 10.8 31 5.3 .25 .26	1005.2 32.4 167 4.9 .75 .87	257.5 8.58 45 3.0 .20	81.5 2.63 4.4 1.9 .06	133.0 4.43 15 2.0 .10	156.2 5.04 9.7 3.1 .12	1552.7 50.1 303 4.1 1.16 1.34	5798.9 193 711 4.9 4.47 4.99
rics of M	ONTHLY MEA						YEAR (WY				
37.8 152 1993 3.50 1988	123 1998 5.57	324 1998 6.83	46.4 146 1998 7.12 2001	62.1 367 1998 8.61 2000	58.8 203 1987 6.74 1976	35.9 149 1983 4.45 1999	13.7 142 1979 2.63 2001	33.3 177 1982 2.86 1998	38.2 149 1994 3.11 1988	58.4 303 1978 2.61 1993	69.3 267 1979 3.35 1990
Y STATIST	ICS	FOR 2	000 CALEN	DAR YEAR	F	FOR 2001 WAS	TER YEAR		WATER Y	EARS 1974	- 2001
MEAN F ANNUAL M ANNUAL M DAILY ME SEVEN-DA M PEAK ST FANEOUS L RUNOFF (RUNOFF (RUNOFF (RUNOFF XCE CENT EXCE	EAN EAN AN Y MINIMUM OW AGE OW FLOW CFSM) LINCHES) EDS EDS		1.7 1.8 .54 7.34 39 7.2	Jun 10 Jun 6		1.9 2.0 835 7.82 b1.9 .67 9.04 47 6.9	May 28 May 24 Sep 23		99.5 15.6 2000 1.7 1.8 a2990 9.8 *1.7 13.5 112	Aug Jun Jun Aug Aug O O O O O O O O O O O O O O O O O O O	1998 1990 2 1978 10 2000 6 2000 1 1978 1 1978
	68 56 39 28 22 18 25 33 30 19 14 11 9.4 8.3 7.6 6.9 6.3 6.0 5.8 5.7 6.3 6.3 6.7 9.7 9.5 9.6 8.9 7.2 6.9 6.6 16.3 68 5.7 38 .43 FICS OF M 37.8 152 1993 3.50 1988 4 STATIST TOTAL MEAN F ANNUAL M F DAILY ME DAILY ME DAILY ME DAILY ME DAILY ME T ANNUAL M F LANGEOUS ME T ANNUAL M F LA	OCT NOV 68 6.3 56 6.2 39 6.1 28 6.1 22 6.1 18 6.1 22 6.0 33 5.9 30 5.9 19 6.0 14 5.9 11 5.8 9.4 5.7 8.3 5.9 7.6 6.3 6.9 6.1 6.3 6.0 6.0 5.8 5.8 5.8 5.8 5.7 6.5 6.3 6.7 6.5 6.	OCT NOV DEC 68 6.3 9.7 56 6.2 9.0 39 6.1 8.6 28 6.1 8.5 22 6.1 8.3 18 6.1 7.9 25 6.0 7.7 33 5.9 7.5 30 5.9 7.5 19 6.0 7.4 14 5.9 7.6 11 5.8 7.9 9.4 5.7 8.0 8.3 5.9 8.3 7.6 6.3 8.2 6.9 6.1 8.0 6.3 6.0 9.5 6.0 5.8 9.8 5.8 5.8 9.0 5.7 6.5 8.6 6.3 6.7 8.3 6.3 6.4 8.2 6.9 6.1 8.0 6.7 6.2 8.1 9.7 6.3 7.9 9.5 10 7.8 9.6 17 7.7 7.9 16 7.7 7.1 8.9 20 7.7 7.9 16 7.7 7.9 9.8 50.0 5.5 6.0 5.8 6.0 5.8	OCT NOV DEC JAN 68 6.3 9.7 7.5 56 6.2 9.0 7.5 39 6.1 8.6 7.4 28 6.1 8.5 7.4 22 6.1 8.3 7.3 18 6.1 7.9 7.3 25 6.0 7.7 7.2 33 5.9 7.5 7.2 30 5.9 7.5 7.2 30 5.9 7.5 7.4 19 6.0 7.4 7.1 14 5.9 7.6 7.0 11 5.8 7.9 7.4 19 6.0 7.4 7.1 14 5.9 7.6 7.0 11 5.8 7.9 7.4 19 6.0 7.4 7.1 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.5 6.9 6.1 8.0 7.3 6.0 5.8 9.8 7.1 5.8 5.8 9.0 7.0 5.7 6.5 8.6 7.3 6.3 6.7 8.3 7.4 6.3 6.4 8.2 7.2 6.7 6.2 8.1 7.1 9.7 6.3 7.9 6.9 9.5 10 7.8 6.6 9.6 17 7.7 6.3 8.9 20 7.7 6.2 7.9 16 7.7 6.2 3.8 18 1.9 1.6 1.3 20 22 1.9 PICS OF MONTHLY MEAN DATA FOR WATER YEAR SUBJECT S	OCT NOV DEC JAN FEB 68 6.3 9.7 7.5 15 56 6.2 9.0 7.5 24 39 6.1 8.6 7.4 31 28 6.1 8.5 7.4 25 22 6.1 8.3 7.3 22 18 6.1 7.9 7.3 18 25 6.0 7.7 7.2 14 33 5.9 7.5 7.2 12 30 5.9 7.5 7.2 12 30 5.9 7.5 7.4 11 19 6.0 7.4 7.1 9.7 14 5.8 7.9 7.4 8.5 9.4 5.7 8.0 7.8 8.1 8.3 5.9 8.3 7.5 8.0 7.6 6.3 8.2 7.5 7.8 6.9 6.1 8.0 7.5 7.3 8.0 7.6 6.3 8.2 7.5 7.8 6.9 6.1 8.0 7.5 7.3 7.1 6.0 5.8 9.8 7.1 6.8 5.8 5.8 9.0 7.0 6.5 5.7 6.5 8.6 7.3 6.2 6.3 6.7 8.3 7.4 6.1 6.3 6.4 8.2 7.2 5.9 6.7 6.2 8.1 7.1 5.8 9.7 6.3 7.9 6.9 5.8 9.5 7.6 6.3 7.9 6.9 5.8 9.5 10 7.8 6.6 5.9 9.6 17 7.7 6.3 5.7 9.6 6.3 7.9 6.9 5.8 9.7 6.3 7.9 6.9 5.8 9.5 10 7.8 6.6 5.9 9.6 17 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.5 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 16 7.7 6.2 5.3 7.9 1.1 8.2 6.2 8.8 20 9.8 7.8 31 8.3 6.9 9.8 7.8 31 8.3 6.9 9.8 7.8 31 8.3 6.9 9.8 7.8 31 8.3 6.9 9.8 7.8 31 8.3 6.9 9.9 7.0 6.9 9.9 7.0 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	OCT NOV DEC JAN FEB MAR 68 6.3 9.7 7.5 15 5.1 56 6.2 9.0 7.5 24 5.1 39 6.1 8.6 7.4 31 4.9 28 6.1 8.5 7.4 25 6.6 22 6.1 8.3 7.3 22 12 18 6.1 7.9 7.3 18 9.2 25 6.0 7.7 7.2 14 7.0 33 5.9 7.5 7.2 12 6.0 30 5.9 7.5 7.4 11 5.6 19 6.0 7.4 7.1 9.7 5.9 14 5.9 7.6 7.0 9.2 5.8 11 5.8 7.9 7.4 8.5 5.5 11 5.8 7.9 7.4 8.5 5.5 7.6 6.3 8.2 7.5 7.8 6.7 8.3 5.9 8.3 7.5 8.0 7.5 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.0 9.5 7.3 7.1 7.6 6.3 6.7 8.3 7.4 6.1 167 6.3 6.7 8.3 7.4 6.1 167 6.3 6.7 8.3 7.4 6.1 167 6.3 6.7 8.3 7.4 6.1 167 6.3 6.7 8.3 7.9 6.9 5.8 73 9.5 10 7.8 6.9 5.8 73 9.5 10 7.8 6.9 5.8 73 9.5 10 7.8 6.9 5.8 73 9.5 10 7.8 6.9 5.8 73 7.9 16 7.7 6.2 5.5 33 7.9 16 7.7 6.2 5.5 33 7.9 16 7.7 6.2 5.3 32 7.2 13 8.3 6.2 20 9.6 17 7.7 6.2 5.3 32 7.9 16 7.7 6.2 5.3 39 7.9 16 7.7 6.2 5.3 39 7.9 16 7.7 6.2 5.3 39 7.9 16 7.7 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.4 6.2 5.3 39 7.9 16 7.7 7.9 6.9 9.9 5.8 73 7.9 16 7.7 7.9 6.9 9.9 5.8 73 7.9 10 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	OCT NOV DEC JAN FEB MAR APR 68 6.3 9.7 7.5 15 5.1 45 68 6.2 9.0 7.5 24 5.1 31 39 6.1 8.6 7.4 31 4.9 21 28 6.1 8.5 7.4 25 6.6 16 22 6.1 8.5 7.4 25 6.6 16 22 6.1 8.5 7.4 25 6.6 16 23 6.0 7.7 7.2 14 7.0 9.9 33 5.9 7.5 7.2 12 6.0 8.1 30 5.9 7.5 7.2 12 6.0 8.1 30 5.9 7.5 7.4 11 5.6 7.0 19 6.0 7.4 7.1 9.7 5.9 6.2 14 5.9 7.6 7.0 9.2 5.8 5.5 11 5.8 7.9 7.4 8.5 5.5 4.9 9.4 5.7 8.0 7.8 8.1 6.1 4.5 8.3 7.5 8.0 7.5 8.0 7.5 8.3 7.5 8.0 7.5 8.0 7.5 6.3 6.0 9.5 7.3 7.1 7.6 6.7 5.8 6.9 6.1 8.0 7.5 7.3 7.1 7.6 6.8 8.1 5.8 5.8 9.0 7.0 6.5 25 3.6 6.0 0.5 8 9.8 7.1 6.8 8.1 3.8 5.8 5.8 9.0 7.0 6.5 25 3.6 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.3 6.7 8.3 7.4 6.1 167 3.3 6.7 6.2 22 12 3.5 6.3 6.7 8.3 7.4 6.1 167 3.3 6.7 9.0 16 7.7 6.2 5.5 32 4.9 9.7 6.3 7.9 6.9 5.8 73 7.9 16 3 7.9 6.9 5.8 73 3.0 7.9 16 7.7 7.8 6.6 5.9 60 3.5 9.6 17 7.7 6.2 5.5 32 4.9 7.2 13 8.3 6.2 20 4.1 6.6 7.8 7.8 51 504.6 233.1 254.7 220.8 303.3 1005.2 257.5 6.8 20 9.8 7.8 31 167 45 1993 1998 1998 1998 1998 1997 1983 1993 1998 1999 1999 1998 1997 1983 28 EVENDAY MINIMUM 4 84 62.1 58.8 35.9 28 EVENDAY MINIMUM 4 1.8 Jun 6 2.0 4 PEAR SINGE 5 POR 2000 CALENDAY REAR FOR 201 WAIL 8 EVENDAY MINIMUM 1.8 Jun 6 2.0 4 PEAR SINGE 4 PEAR SINGE 4 PEAR SINGE 5 POR 2000 CALENDAY REAR FOR 201 WAIL 8 PEAR SINGE 5 POR 2000 CALENDAY REAR FOR 201 WAIL 8 PEAR SINGE 5 PANNUAL MEAN 1.7 Jun 10 1.9 2.0 4 PEAR SINGE 4 PEAR SINGE 5 PARSON LOW PLOW 8 RUNOFF (CPSM) 8 PEAR SINGE 9 PEAR SINGE 9 PEAR SINGE 9 PEA	OCT NOV DEC JAN FEB MAR APR MAY 68 6.3 9.7 7.5 15 5.1 45 3.4 56 6.2 9.0 7.5 24 5.1 31 3.3 39 6.1 8.6 7.4 31 4.9 21 3.3 28 6.1 8.5 7.4 25 6.6 16 3.3 22 6.1 8.3 7.3 22 12 13 3.1 18 6.1 7.9 7.3 18 9.2 12 2.9 25 6.0 7.7 7.2 14 7.0 9.9 3.2 33 5.9 7.5 7.2 12 6.0 8.1 4.4 30 5.9 7.5 7.2 12 6.0 8.1 4.4 31 5.9 7.5 7.2 12 6.0 8.1 4.4 31 6.0 8.1 7.9 7.3 18 9.2 12 2.9 33 5.9 7.5 7.2 12 6.0 8.1 4.4 30 5.9 7.5 7.4 11 5.6 7.0 3.9 19 6.0 7.4 7.1 9.7 5.9 6.2 3.4 14 5.9 7.6 7.0 9.2 5.8 5.5 3.1 11 5.8 7.9 7.4 8.5 5.5 4.9 2.8 9.4 5.7 8.0 7.8 8.1 6.1 4.5 2.7 8.3 3.9 8.3 7.5 8.0 7.5 8.0 7.5 4.3 2.6 7.6 6.3 8.2 7.5 7.8 6.7 7.5 8.8 2.5 6.9 6.1 8.0 7.5 7.8 6.7 7.5 8.8 2.5 6.9 6.1 8.0 7.5 7.8 6.7 7.5 7.8 6.7 5.8 2.5 6.9 6.1 8.0 7.5 7.3 7.1 7.6 4.4 2.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 5.7 6.5 8.6 7.3 6.2 127 3.5 2.1 6.3 6.4 8.2 7.5 7.3 6.2 127 3.5 2.1 6.3 6.4 8.2 7.5 7.8 6.2 127 3.5 2.1 6.3 6.7 8.8 9.0 7.0 6.5 25 3.6 2.2 5.7 6.5 8.6 7.3 6.2 127 3.5 2.1 6.3 6.7 8.8 3.7 9.8 6.7 7.3 4.1 2.7 3.5 2.1 6.3 6.7 8.8 3.7 9.8 6.7 7.3 6.2 127 3.5 2.1 6.3 6.4 8.2 7.2 5.9 128 3.2 2.1 9.7 6.3 7.9 6.5 8.6 7.3 6.2 127 3.5 2.1 6.3 6.4 8.2 7.2 5.9 128 3.2 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.7 6.2 5.5 3 3.6 6.6 2.0 9.6 17 7.7 6.2 5.5 5.3 22 4.9 1.9 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.7 6.2 5.5 5.3 2.2 4.9 1.9 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.4 4.4 5.2 7.2 5.9 128 3.2 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.3 7.9 6.9 5.8 73 3.0 2.1 9.7 6.4 8.9 20 7.7 6.2 5.5 5.3 22 4.9 1.9 9.7 6.3 7.9 1.0 7.8 6.6 5.9 60 3.5 2.0 9.6 17 7.7 7.7 6.2 5.5 5.0 33 6.6 6.0 2.0 9.6 17 7.7 7.7 6.2 5.5 5.0 33 6.6 6.0 2.0 9.6 17 7.7 7.8 6.2 5.5 5.0 33 6.6 6.0 2.0 9.6 17 7.7 7.8 6.2 5.5 5.0 33 6.0 6.0 2	OCT NOV DEC JAN FEB MAR APR MAY JUN 68 6.3 9.7 7.5 15 5.1 45 3.4 2.1 56 6.2 9.0 7.5 24 5.1 31 3.3 2.0 139 6.1 8.6 7.4 31 4.9 21 3.3 2.0 22 6.1 8.5 7.4 25 24 5.1 31 3.3 2.0 22 6.1 8.5 7.4 31 4.9 21 33.3 2.0 22 6.1 8.3 7.3 22 12 13 3.3 2.0 22 6.1 8.5 7.4 25 25 26 26 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 68 6.3 9.7 7.5 15 5.1 45 13.3 2.1 9.4 56 6.2 9.0 7.5 14 5.1 31 3.3 2.1 6.6 56 6.2 9.0 7.5 14 5.1 31 3.3 2.1 6.6 56 6.1 8.5 7.4 31 4.9 21 3.3 3.2 2.0 0.0 228 6.1 8.5 7.4 25 6.6 6.6 16 3.3 3.2 2.0 0.0 22 6.1 8.3 7.3 22 12 13 3.1 2.2 3.8 18 6.1 7.9 7.3 18 9.2 12 2.9 2.1 3.8 18 6.1 7.9 7.7 7.2 14 7.0 9.9 3.2 2.1 2.1 3.8 25 6.0 7.7 7.7 7.2 12 6.0 8.1 4.4 2.2 3.5 33 5.9 7.5 7.7 7.2 12 6.0 8.1 4.4 2.2 3.5 33 5.9 7.5 7.7 7.4 19.7 5.9 6.2 3.4 2.1 3.5 19 6.0 7.4 7.1 9.7 5.9 6.2 3.4 2.1 3.4 11 5.8 7.9 7.6 7.0 9.2 5.8 5.5 3.1 2.8 3.7 11 5.8 7.9 7.4 8.5 5.5 4.9 2.8 3.5 3.7 12 9.4 5.7 8.0 7.8 8.1 6.1 4.5 2.7 3.1 3.7 8.3 5.9 8.3 7.5 8.0 7.5 8.0 7.5 4.3 2.6 3.5 3.7 8.3 5.9 8.3 7.5 7.5 7.8 6.7 5.5 4.9 2.8 3.5 3.7 8.3 6.9 6.1 8.0 7.8 8.1 6.1 4.5 2.7 3.1 3.7 8.3 6.0 8.2 7.5 7.8 8.0 7.5 8.0 7.5 4.3 2.6 3.5 3.7 8.3 6.9 8.3 7.5 8.0 7.5 8.0 7.5 4.3 2.6 3.5 3.9 7.6 6.3 8.2 7.5 7.8 6.7 5.5 4.9 2.8 3.5 3.5 6.9 6.1 8.0 7.5 7.4 6.8 8.1 6.1 4.5 2.7 3.1 3.7 8.6 6.3 6.0 9.5 7.3 7.1 7.6 4.4 2.3 3.5 6.3 6.0 9.5 7.3 7.1 7.6 6.2 5.5 3.6 2.2 7.9 3.4 6.3 6.0 9.5 7.3 7.1 7.6 6.2 5.5 3.6 2.2 7.9 3.4 5.8 5.8 9.8 7.1 6.8 8.1 3.8 2.2 6.7 3.1 6.3 6.0 9.5 7.3 7.1 7.6 6.2 5.7 3.6 2.2 7.9 3.4 5.8 6.7 8.8 9.8 7.1 6.8 8.1 3.8 2.2 6.7 3.1 6.3 6.4 8.2 7.5 7.8 6.6 7.3 3.2 2.1 4.2 2.5 9.9 9.5 10 7.8 6.6 5.9 6.0 3.5 2.0 3.8 5.1 9.6 17 7.7 6.3 5.7 48 7.0 2.0 3.4 2.1 4.3 5.9 9.7 6.3 7.9 6.9 5.8 7.3 7.1 7.6 4.4 2.3 3.5 3.5 9.7 6.3 7.9 6.9 6.9 5.8 7.3 3.0 2.1 4.2 2.5 9.9 9.5 10 7.8 6.6 5.9 6.0 3.5 2.0 3.5 2.1 6.2 6.6 6.7 6.2 8.1 7.1 5.8 9.1 3.1 2.2 3.9 3.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	OCT NOV DEC JAN FEB MAR AFR MAY JUN JUL AUG 68 6.3 9.7 7.5 15 15 5.1 45 3.4 2.1 9.4 6.5 9 56 6.2 9.0 7.7 7.5 24 5.1 31 3.3 2.1 6.6 11 39 6.1 8.6 7.4 31 4.9 21 3.3 2.0 4.2 48 22 6.1 8.3 7.3 7.3 12 12 13 3.3 2.0 4.2 48 22 6.1 8.3 7.3 7.3 12 12 13 3.3 2.0 4.2 48 122 6.1 8.5 7.4 12 15 15 5.1 31 3.3 2.0 4.2 48 123 6.1 8.5 7.4 25 6.6 16 3.3 2.0 4.2 48 125 6.0 7.7 7.7 7.2 14 7.0 9.9 3.2 2.1 3.5 216 33 5.9 7.5 7.2 12 6.0 8.1 4.4 2.2 3.5 142 33 5.9 7.5 7.4 11 5.6 7.0 9.9 3.2 2.1 3.5 216 33 5.9 7.5 7.4 11 9.7 5.6 7.0 3.9 3.2 2.1 3.5 142 30 5.9 7.5 7.4 11 9.7 5.6 7.0 3.9 2.1 3.4 2.1 3.4 59 14 5.9 7.6 7.0 9.9 2 5.8 5.5 3.4 2.1 3.5 216 31 5.9 7.5 7.4 11 9.7 5.9 6.2 3.4 2.1 3.4 59 11 5.8 7.9 7.4 7.1 9.7 5.9 6.2 3.4 2.1 3.4 59 11 5.8 7.9 7.4 8.5 5.5 4.9 2.8 3.5 3.7 30 9.4 5.7 8.0 7.8 8.1 6.1 4.5 2.7 3.1 3.7 30 9.4 5.7 8.0 7.8 8.1 6.1 4.5 2.7 3.1 3.3 3.7 30 9.4 5.7 8.0 7.8 8.1 6.7 5.8 2.5 4.3 2.6 3.5 3.9 21 7.5 6.3 8.2 7.5 7.3 7.1 6.7 5.8 2.5 4.3 2.6 3.5 3.9 21 6.9 6.1 8.0 7.5 7.3 7.1 7.5 8.0 7.5 5.8 2.5 3.4 2.4 3.5 3.9 21 6.9 6.1 8.0 7.5 7.3 7.1 7.5 8.0 7.5 5.8 2.5 3.8 2.5 4.4 3.5 3.9 21 6.9 6.1 8.0 7.5 7.3 7.1 7.6 6.4 2.3 3.8 2.2 6.7 3.1 6.3 6.3 6.0 9.5 7.3 7.1 7.6 6.4 2.3 3.8 2.2 6.7 3.1 6.3 6.3 6.0 9.5 7.3 7.1 7.6 6.8 8.1 3.8 2.2 6.7 3.1 6.3 6.3 6.0 9.5 7.3 7.1 7.6 6.4 2.3 3.8 2.2 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 3.1 6.3 6.0 5.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 8.3 1.8 8.2 7.2 9.8 9.8 7.1 6.8 8.1 3.8 2.2 2.1 4.2 8.3 2.6 6.7 8.3 1.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9

a From rating curve extended above 1,130 $\rm ft^3/s$ * June 10,11,21,2000 b May 27-30, June 3,4

02245050 ETONIA CREEK AT BARDIN, FL

LOCATION.--Lat $29^{\circ}43^{\circ}00^{\circ}$, long $81^{\circ}43^{\circ}31^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.17, T.9 S., R.26 E., Putnam County, Hydrologic Unit 03080103, near left bank on downstream side of bridge on Bardin Road, 0.2 mi north of Bardin, 4.6 mi upstream from mouth, and 6.2 mi northwest of Palatka.

DRAINAGE AREA. -- 219 mi².

PERIOD OF RECORD. -- October 1973 to September 1990, June 1996 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 7.60 ft above sea level (levels by Wardlin Engineering Associates).

REMARKS.--Records poor. Records include an appreciable amount of ground-water flow from Hudson Pulp and Paper Corporation production wells.

		DISCHARG	E, CUBIC	FEET PER		NATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	99 74 60 53 48	27 29 29 29 29	38 37 37 37 37	36 35 35 34 39	42 42 42 39 40	37 33 31 40 34	60 54 43 35 31	36 29 38 26 35	21 26 26 20 30	19 18 18 18 22	20 22 25 36 45	36 45 45 46 51
6 7 8 9 10	45 64 82 64 53	28 28 31 31 39	37 36 37 36 37	40 33 33 32 31	36 33 31 32 31	28 39 34 30 40	29 28 27 26 26	29 29 36 26 25	23 20 24 20 20	24 18 30 20 19	147 101 158 70 47	75 79 64 62 59
11 12 13 14 15	47 43 41 39 38	34 36 34 35 37	37 37 35 36 36	30 39 41 32 34	31 30 30 30 30	30 29 28 28 35	39 30 28 39 28	24 25 24 24 23	21 21 21 18 18	20 19 19 19	34 29 25 23 22	56 50 43 95 568
16 17 18 19 20	37 36 35 35 35	38 37 37 37 37	36 36 36 36 36	33 32 32 32 32 32	41 30 34 35 32	39 39 40 54 111	40 30 35 30 37	24 24 28 30 22	21 26 18 19 18	18 18 26 24 21	21 21 21 20 20	711 404 203 109 78
21 22 23 24 25	34 31 36 35 35	36 30 39 38 38	36 36 36 35 36	35 33 32 32 32	44 31 42 33 35	102 75 55 46 43	31 27 38 28 40	33 25 22 30 27	18 18 18 21 18	27 23 21 18 17	23 27 21 31 21	63 57 103 85 105
26 27 28 29 30 31	33 31 27 25 25 25	47 46 42 40 39	35 35 35 37 36 36	35 38 31 45 36 34	34 32 31 	44 42 41 42 52 70	38 29 27 28 28	21 28 26 21 30 23	17 21 29 25 21	17 18 18 17 22 24	25 29 21 37 25 26	191 131 86 68 56
TOTAL MEAN MAX MIN	1365 44.0 99 25	1057 35.2 47 27	1123 36.2 38 35	1068 34.5 45 30	973 34.8 44 30	1391 44.9 111 28	1009 33.6 60 26	843 27.2 38 21	637 21.2 30 17	631 20.4 30 17	1193 38.5 158 20	3824 127 711 36
STATIST	ICS OF MO	NTHLY MEAN	DATA FOR	R WATER YI	EARS 1974	- 2001,	BY WATER Y	EAR (WY)				
MEAN MAX (WY) MIN (WY)	80.1 263 1997 30.3 2000	68.6 142 1998 35.2 2001	97.1 382 1998 36.2 2001	99.2 232 1998 34.5 2001	113 393 1998 34.8 2001	105 227 1986 39.7 1999	89.2 204 1997 33.6 2001	70.7 220 1979 27.2 2001	79.4 279 1982 21.2 2001	86.6 175 1982 20.4 2001	107 291 1978 35.7 2000	115 303 1988 46.2 1999
SUMMARY	STATISTI	CS	FOR 20	000 CALENI	DAR YEAR	F	OR 2001 WAT	ER YEAR		WATER YEA	RS 1974	- 2001
LOWEST LOWEST LOWEST LOWEST LANNUAL MAXIMUM MAXIMUM 10 PERC 50 PERC		AN AN N MINIMUM W GE DS		17935 49.0 382 24 27 65 44 33	Sep 11 Aug 9 Oct 28		711 *17 18 916 6.48 56 33 20	Sep 16 Jul 23 Sep 15 Sep 15		92.8 154 41.4 1780 *17 18 2650 8.41 156 67 46	Jul 2 Apr 2	1998 2001 8 1997 3 2001 8 1997 8 1997

^{*}June 26, July 25,26,29, 2001

02245140 SIMMS CREEK NEAR BARDIN, FL

LOCATION.--Lat $29^{\circ}44^{\circ}07^{\circ}$, long $81^{\circ}42^{\circ}36^{\circ}$, in $NE^{1/4}_{4}$ sec.9, T.9 S., R.26 E., Putnam County, Hydrologic Unit 03080103, on right bank 0.4 mi downstream from bridge on Simms Creek Road, 1.7 mi northeast of Bardin, 2.7 mi upstream from Etonia Creek, and 6.7 mi northwest of Palatka.

DRAINAGE AREA. -- 47.3 mi².

PERIOD OF RECORD.--October 1973 to September 1975, March 1976 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (levels by Wardlin Engineering Associates). Prior to Feb. 26, 1976, at bridge 0.4 mi upstream at datum 7.26 ft higher.

REMARKS.--Records fair. Some artesian ground water inflow from well upstream from gage.

		DISCHARO	E, CUBIC	C FEET PER		WATER YEA MEAN VAI	AR OCTOBER LUES	2000 ТО	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	169 115 76 51 42	14 14 13 12	14 13 13 13 13	e12 e12 e12 e11 e11	18 25 29 23 24	9.4 9.3 9.0 9.8	87 57 37 29 25	8.6 8.4 8.4 8.2	7.0 7.2 7.0 6.7 6.7	18 15 12 10 9.5	19 35 65 78 81	15 16 19 22 21
6 7 8 9 10	36 73 94 57 38	11 11 11 11 11	12 12 12 12 12	e11 e11 e12 e12 e11	20 17 15 14 13	12 11 9.9 9.4 9.3	24 20 18 15 14	7.7 7.8 8.8 8.7 8.2	6.7 6.7 8.6 8.9 8.8	8.9 8.8 8.8 9.4	232 307 411 247 156	24 48 70 41 32
11 12 13 14 15	30 25 22 20 19	11 10 10 10	12 12 12 e12 e13	e11 e12 e12 e11 e11	13 12 12 12 12	9.3 9.1 10 13 11	13 11 11 9.9 9.6	7.7 7.4 7.3 7.1 7.0	10 11 12 11 9.1	13 14 12 14 17	91 63 45 36 29	28 31 67 206 1470
16 17 18 19 20	19 18 16 15 14	10 10 10 10	e14 e16 e15 e14 e13	e10 10 10 10 11	11 11 11 10 10	12 14 15 34 94	9.6 8.5 8.1 7.9 7.9	6.7 6.5 6.3 6.2 6.1	8.0 7.5 9.8 13 11	13 11 11 13 28	30 29 26 21 18	827 420 273 200 154
21 22 23 24 25	14 14 14 15 16	11 11 12 12 17	e13 e13 e12 e12 e11	11 11 11 11 10	10 9.8 9.7 9.7	130 92 47 33 27	7.7 7.5 8.0 8.4 9.1	6.7 7.0 6.9 6.8	9.2 8.7 8.7 9.1 8.7	51 42 27 22 19	17 15 14 13 12	114 83 79 69 84
26 27 28 29 30 31	16 16 15 14 14	24 23 18 16 15	e12 e11 e12 e13 e14 e13	10 10 10 9.8 9.8	10 10 9.8 	26 23 20 19 34 81	13 12 10 9.4 8.9	6.8 6.7 6.8 7.0	8.0 8.1 19 27 26	18 20 15 13 11	12 11 11 11 12 14	144 147 110 77 56
TOTAL MEAN MAX MIN CFSM IN.	1112 35.9 169 14 .76	382 12.7 24 10 .27 .30	395 12.7 16 11 .27	338.6 10.9 12 9.8 .23 .27	391.0 14.0 29 9.7 .30	855.5 27.6 130 9.0 .58 .67	516.5 17.2 87 7.5 .36 .41	226.5 7.31 8.8 6.1 .15 .18	309.2 10.3 27 6.7 .22 .24	505.2 16.3 51 8.8 .34	2161 69.7 411 11 1.47 1.70	4947 165 1470 15 3.49 3.89
STATIST	ICS OF MC	NTHLY MEAN	DATA FO	OR WATER Y	EARS 1974	4 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	55.3 205 1997 8.55 1988	30.8 94.8 1998 10.2 1991	1.8 302 156 198 1998 1998 1.2 11.2 10.9		62.6 374 1998 12.9 1989	58.2 156 1986 10.4 1976	37.1 143 1983 8.49 1989	19.9 141 1979 5.93 2000	33.4 125 1991 6.91 2000	46.4 182 1994 6.49 1988	64.9 174 1974 7.95 1999	74.7 345 1979 6.64 1990
SUMMARY	MMARY STATISTICS FOR 2000 CALEN				DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1974	- 2001
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL I ANNUAL I 10 PERCI 50 PERCI	MEAN ANNUAL M ANNUAL ME DAILY ME DAILY MEA	AN AN AN N MINIMUM W GE W FLOW FSM) NCHES) DS		9217.2 25.2 931 4.9 4.9 .53 7.25 44 13 5.7	Jun 5		12139.5 33.3 1470 6.1 6.5 1670 13.97 6.0 .70 9.55 66 12 8.0	Sep 15 Sep 15 May 20,		48.4 106 16.4 2250 4.1 4.3 a2840 a14.96 4.0 1.02 13.90 114 20 8.8	Jul I Jul Oct Oct	1998 1990 8 1996 10 1988 5 1988 8 1996 8 1996 10 1988

e Estimated

a From floodmark

294213081345300 ST. JOHNS RIVER AT DANCY POINT NEAR SPUDS, FL

LOCATION.--Lat 29°42'13", long 81°34'53", in T.9 S., R.27 E., Putnam County, Hydrologic Unit 03080103, on Aids to Navigation marker (Dancy Point RFL: LLNR 7965), 6.0 mi west-southwest of Spuds, 5.0 mi north-northeast of Palatka and 68 mi upstream

WATER-QUALITY RECORDS

PERIOD OF RECORD. --

SPECIFIC CONDUCTANCE (TOP, BOTTOM): January 1998 to current year. WATER TEMPERATURE (TOP, BOTTOM): January 1998 to current year.
DISSOLVED OXYGEN (TOP, BOTTOM): January 1998 to current year.

INSTRUMENTATION. -- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 1,980 µS/cm @ 25 °C, Sept. 16, 1999; minimum daily mean, 322 µS/cm @ 25 °C, Feb. 26, 1998.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 2,230 µS/cm @ 25 °C, Sept. 16, 1999; minimum daily mean, 323 µS/cm @ 25 °C, Feb. 26, 1998.

Feb. 26, 1998.

WATER TEMPERATURE (TOP): Maximum daily mean, 32.4 °C, Aug. 1, 1999; minimum daily mean, 9.7 °C, Jan. 4,5, 2001.

WATER TEMPERATURE BOTTOM): Maximum daily mean, 32.3 °C, Aug. 1, 1999; minimum daily mean, 9.6 °C, Jan. 4, 2001.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 12.2 mg/L, Jan. 15, 2001; minimum daily mean, 1.1 mg/L, Sept. 27, 2001.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 12.2 mg/L, Jan. 15, 2001; minimum daily mean, 1.1 mg/L, Sept. 27, 2001.

EXTREMES FOR CURRENT YEAR . --

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 1,510 µS/cm @ 25 °C, May 22-27; minimum daily mean, 737 µS/cm @ 25 °C,

Oct. 2.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 1,510 µS/cm @ 25 °C, May 22-28; minimum daily mean, 737 µS/cm @ 25 °C,

OCL. 1.
WATER TEMPERATURE (TOP): Maximum daily mean, 31.7 °C, Aug. 19; minimum daily mean 9.7 °C, Jan. 4,5.
WATER TEMPERATURE BOTTOM): Maximum daily mean, 31.5 °C, Aug. 19; minimum daily mean 9.6 °C, Jan. 4.
DISSOLVED OXYGEN (TOP): Maximum daily mean, 12.2 mg/L, Jan. 15; minimum daily mean, 1.1 mg/L, Sept. 27.
DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 12.2 mg/L, Jan. 15; minimum daily mean, 1.1 mg/L, Sept. 27.

SPECIFIC CONDUCTANCE TOP (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	738 737 761 749 787	999 1030 1070 1080 1090	1240 1240 1230 1250 1220	1270 1280 1290 1290 1250	1160 1140 1130 1140 1160	1350 1350 1360 1310 1270	1190 1210 1250 1250 1250	1420 1410 1440 1450 1450	1440 1400 1350 1290 1270	 	 	1430 1450 1460 1450 1450
6 7 8 9 10	835 907 910 797 799	1090 1110 1130 1170 1200	1230 1240 1240 1250 1260	1180 1160 1130 1140 1150	1160 1160 1180 1190 1200	1290 1290 1320 1340 1340	1240 1250 1270 1290 1320	1440 1420 1390 1380 1380	1230 1220 1210 1220 1220	 	1240 1170 1100 1140	1460 1460 1460 1460 1470
11 12 13 14 15	779 805 821 838 869	1200 1190 1190 1200 1190	1260 1270 1270 1270 1260	1160 1170 1160 1190 1210	1210 1210 1210 1210 1230	1320 1320 1340 1350 1330	1350 1360 1400 1420 1430	1410 1430 1470 1480 1470	1230 1220 1250 1260 1270	1310 1310 1280 1300 1380	1220 1240 1250 1280 1300	1480 1430 1410 1400 1250
16 17 18 19 20	894 902 910 918 924	1210 1250 1260 1250 1230	1240 1210 1210 1180 1180	1180 1190 1200 1220 1250	1260 1320 1300 1260 1260	1320 1300 1300 1330 1320	1430 1440 1350 1380 1430	1480 1490 1480 1480 1490	1300 1330 1310 1310	1380 1370 1360 1350 1330	1320 1320 1330 1330 1340	1200 1160 1010 924 910
21 22 23 24 25	923 929 932 904 872	1230 1260 1290 1290 1290	1190 1190 1190 1200 1210	1270 1280 1250 1240 1250	1280 1290 1300 1280 1290	1320 1320 1280 1260 1230	1440 1450 1460 1460 1470	1500 1510 1510 1510 1510	1320 1350 1410 1430 1430	 	1350 1360 1370 1380 1380	933 947 939 924 891
26 27 28 29 30 31	874 875 905 939 948 965	1280 1240 1200 1200 1220	1210 1210 1220 1220 1220 1230	1260 1260 1300 1320 1330 1270	1300 1330 1340 	1210 1230 1210 1220 1190 1160	1460 1450 1450 1460 1450	1510 1510 1500 1500 1460 1450	1420 	 	1370 1370 1360 1350 1380 1410	860 805 798 789 789
MEAN MAX MIN	863 965 737	1190 1290 999	1230 1270 1180	1230 1330 1130	1230 1340 1130	1290 1360 1160	1370 1470 1190	1460 1510 1380	1310 1440 1210	1340 1380 1280	1310 1410 1100	1180 1480 789

CAL YR 2000 MEAN 959 MAX 1290 MIN 649 WTR YR 2001 MEAN 1240 MAX 1510 MIN 737

294213081345300 ST. JOHNS RIVER AT DANCY POINT NEAR SPUDS, FL--Continued

	SPECIFIC	C CONDUCT	ANCE BOTTO	M (MICROS		M AT 25 D Y MEAN VA		WATER YEAR	OCTOBER	2000 TO	SEPTEMBER	2001
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	737 744	1010 1040	1230 1240	1270 1290	1160 1140	1350 1350	1190 1220	1420 1410	1440 1400			1430 1450
3	761 748	1070 1080	1230 1250	1290 1290	1140 1150	1360 1320	1250 1250	1430 1440	1330 1310			1450 1450
5	786	1090	1220	1250	1160	1270	1250	1450	1280			1450
6 7 8	834 906 908	1090 1110 1130	1230 1240 1240	1180 1160 1140	1160 1160 1180	1290 1290 1320	1240 1250 1270	1440 1420 1390	1240 1220 1210		1260 1170	1460 1460 1460
9 10	794 789	1170 1200	1250 1260	1140 1150	1190 1200	1340 1340	1280 1310	1380 1390	1220 1220		1090 1130	1460 1470
11	783	1200	1260	1160	1210	1330	1340	1410	1230	1310	1210	1470
12 13 14	803 816 833	1190 1190 1200	1270 1270 1270	1170 1170 1190	1210 1200 1210	1320 1340 1350	1360 1390 1430	1430 1470 1480	1220 1250 1270	1310 1280 1300	1240 1250 1270	1440 1410 1390
15	867	1190	1260	1210	1230	1340	1430	1470	1280	1380	1300	1240
16 17	895 903	1210 1250	1250 1210	1170 1190	1260 1320	1320 1300	1440 1440	1480 1490	1300 1330	1380 1370	1320 1320	1190 1170
18 19	911 919	1260 1250	1210 1180	1200 1220	1300 1270	1300 1330	1350 1380	1480 1480	1330	1360 1360	1330 1340	1020 921
20 21	924 923	1230 1230	1180 1190	1250 1270	1260 1280	1320 1320	1430 1440	1480 1490	1320 1320	1330	1340 1350	907 933
22 23	929 931	1260 1280	1190 1190	1280 1250	1300 1300	1310 1280	1450 1460	1510 1510	1350 1410		1360 1370	947 934
24 25	905 871	1290 1290	1200 1210	1240 1250	1280 1290	1260 1230	1460 1460	1510 1510	1430 1420		1380 1380	923 890
26	873	1280	1210	1260	1300	1210	1460	1510	1420		1370	858
27 28 29		1240 1200 1200	1210 1220 1220	1260 1300 1320	1330 1350	1230 1210 1220	1450 1450 1460	1510 1510 1500			1370 1350 1350	802 800 789
30 31		1220	1220 1230	1330 1270		1190 1170	1450	1460 1450			1370 1410	789
MEAN	850	1190	1230	1230	1230	1290	1370	1460	1310	1340	1310	1180
MAX MIN	931 737	1290 1010	1270 1180	1330 1140	1350 1140	1360 1170	1460 1190	1510 1380	1440 1210	1380 1280	1410 1090	1470 789
CAL YR WTR YR		EAN 960	MAX 1290	MIN 647								
	. 2001 MI	EAN 1250	MAX 1510	MIN 737								
	. 2001 MI							DBER 2000 TO	O SEPTEM	BER 2001		
DAY	OCT					, WATER Y Y MEAN VA MAR		DBER 2000 TO	O SEPTEM JUN	BER 2001 JUL	AUG	SEP
DAY 1	OCT 25.0	TEMP NOV 22.8	PERATURE, W DEC 16.1	JAN	DAIL FEB 15.5	Y MEAN VA MAR 22.6	APR 20.2	MAY 23.1	JUN 28.3	JUL 		31.1
DAY 1 2 3	OCT 25.0 24.9 25.0	TEMF NOV 22.8 22.6 22.6	DEC 16.1 16.3 16.1	JAN 10.5 10.2 9.8	DAIL' FEB 15.5 15.4 14.9	Y MEAN VA MAR 22.6 22.9 22.8	APR 20.2 19.9 20.4	MAY 23.1 23.2 23.3	JUN 28.3 28.1 28.5	JUL		31.1 30.9 30.8
DAY 1 2 3 4 5	OCT 25.0 24.9 25.0 25.4 25.9	NOV 22.8 22.6 22.6 22.6 22.6	DEC 16.1 16.3 16.1 14.6 13.8	JAN 10.5 10.2 9.8 9.7 9.7	DAIL' FEB 15.5 15.4 14.9 14.4	Y MEAN VA MAR 22.6 22.9 22.8 22.5 20.5	APR 20.2 19.9 20.4 20.9 20.9	MAY 23.1 23.2 23.3 23.5 23.7	JUN 28.3 28.1 28.5 28.9 29.3	JUL 	 	31.1 30.9 30.8 30.6 30.4
DAY 1 2 3 4 5	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6	TEMF NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0	DEC 16.1 16.3 16.1 14.6 13.8	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2	DAIL' FEB 15.5 15.4 14.9 14.4 14.5	MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2	MAY 23.1 23.2 23.3 23.5 23.7	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9	JUL	 28.5	31.1 30.9 30.8 30.6 30.4 30.2 30.1
DAY 1 2 3 4 5 6 7 8 9	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2	NOV 22.8 22.6 22.6 22.6 22.6 23.0 23.4 23.4	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.9 10.7	DAIL' FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2	Y MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.1	APR 20.2 19.9 20.4 20.9 21.3 22.2 23.1 24.0	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0	JUL	 28.5 29.1 29.9	31.1 30.9 30.8 30.6 30.4 30.2 30.1 30.1 29.8
DAY 1 2 3 4 5 6 7 8	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0	TEMF NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0 23.4	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2	JAN 10.5 10.2 9.8 9.7 9.7 10.2	DAIL' FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4	Y MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0	JUL	 28.5 29.1	31.1 30.9 30.8 30.6 30.4 30.2 30.1 30.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.1	TEMF NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0 21.8	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2	JAN 10.5 10.2 9.8 9.7 9.7 10.2 10.9 10.7 10.2 10.6 11.3 11.6	DAIL: FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2 17.0	MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.1 16.2 16.7 17.6 18.5	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1	JUL 29.4 29.5 29.4	28.5 29.1 29.9 30.1 30.4 30.5 31.0	31.1 30.9 30.8 30.6 30.4 30.2 30.1 30.1 29.6 29.3 28.8 28.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1	NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.9 10.7 10.2 11.3	DAIL: FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2 17.0	MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.2 16.7 17.6	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.6 25.2 25.7	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 29.7 29.4 29.1	JUL 29.4 29.5	28.5 29.1 29.9 30.1 30.4 30.5	31.1 30.9 30.8 30.6 30.4 30.2 30.1 30.1 29.8 29.6
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.3 21.6 21.8	NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0 23.4 23.3 22.5 22.0 21.8 21.6 20.3	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1	JAN 10.5 10.2 9.8 9.7 9.7 9.7 10.2 10.6 11.3 11.6 11.8 12.2 13.0	DAIL: FEB 15.5 15.4 14.9 14.4 14.5 15.0 17.5 17.4 17.9 18.8 19.4	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.2 16.7 17.6 18.5 19.1 19.9	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1 26.0 26.0	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.0 29.1 29.2	JUL 29.4 29.5 29.4 29.1 28.9	28.5 29.1 29.9 30.1 30.4 30.5 31.0 31.3 31.1	31.1 30.9 30.8 30.6 30.4 30.2 30.1 30.1 29.8 29.6 29.3 28.8 28.8 24.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.1 21.3 21.6 21.8 22.0 22.4 22.6	NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 20.3 19.8 19.4	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.9 10.7 10.2 11.6 11.3 11.6 11.8 12.2 13.0 13.6 14.1 14.8	DAIL: FEB 15.5 15.4 14.9 14.4 14.5 15.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 18.2	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 19.8 18.8	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 26.0 26.0 26.1 22.4 22.4	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.3 27.6 27.6	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.2 29.4 29.4 29.4	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2	28.5 29.1 29.9 30.1 30.4 30.5 31.3 31.1 30.9 31.2 31.6 31.7	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 28.0 26.3 24.4 23.8 24.6 25.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.1 21.3 21.6 21.8 22.0 22.4 22.6 22.5	TEMP NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 20.3 19.8 19.4 18.4	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1	JAN 10.5 10.2 9.8 9.7 9.7 10.2 10.9 10.7 10.2 11.6 11.8 12.2 13.6 14.1 14.8 15.3	DAIL FEB 15.5 15.4 14.9 14.4 14.4 14.5 15.0 15.4 16.2 17.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 18.2 18.6	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 18.8 18.8 18.5	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.7 26.1 26.0 26.2 26.0 25.1 22.8	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.6 27.6 27.5	JUN 28.3 28.1 28.5 28.9 29.3 29.6 30.0 30.0 29.7 29.4 29.1 29.0 29.1 29.2 29.4 29.3 29.9	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2 29.4	28.5 29.1 29.9 30.1 30.4 30.5 31.0 31.3 31.1 30.9 31.2 31.6 31.7 31.5	31.1 30.9 30.8 30.6 30.4 30.1 29.8 29.6 29.3 24.4 23.8 24.0 24.6 25.2 25.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.3 21.6 22.4 22.6 22.5 22.6	TEMF NOV 22.8 22.6 22.6 22.6 22.6 22.7 23.0 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 20.3 19.8 19.4 18.4	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.9 10.7 10.2 10.6 11.3 11.6 11.8 12.2 13.0 13.6 14.1 14.8 15.3	DAIL FEB 15.5 15.4 14.9 14.4 14.5 15.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 19.3 19.8	Y MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 19.8 18.8 18.5	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1 26.0 26.2 26.0 25.1 22.4 22.1 22.8 23.0 23.2	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.3 27.6 27.6 27.5	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.2 29.4 29.3 29.9 30.2 29.7	JUL 29.4 29.5 29.4 29.5 29.1 28.9 28.7 28.8 29.2 29.4	28.5 29.1 29.9 30.1 30.4 30.5 31.0 31.3 31.1 30.9 31.2 31.6 31.7 31.5	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 28.0 26.3 24.4 23.8 24.0 24.6 25.2 25.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.1 21.3 21.6 21.8 22.0 22.4 22.5	TEMF NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 21.8 21.6 21.6 21.7 22.0 21.8 21.6 21.7 22.7 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.9 10.7 10.2 11.3 11.6 11.8 12.2 13.0 13.6 14.8 15.3	DAIL: FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2 17.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 18.2 18.6	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.1 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 18.8 18.5 17.8	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1 26.0 26.2 26.0 25.1 22.8 23.0	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.3 27.6 27.6 27.5	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.2 29.4 29.4 29.3 30.0 30.0 30.0 30.0 30.0 30.0 30.0 3	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2 29.4	28.5 29.1 29.9 30.1 30.4 30.5 31.0 31.3 31.1 30.9 31.2 31.6 31.7 31.5	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 28.0 26.3 24.4 23.8 24.0 24.6 25.2 25.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.3 21.6 21.8 22.0 22.4 22.5 22.5 22.6 22.4 22.2 22.1	TEMP NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 21.8 21.6 20.3 19.8 19.4 18.4 17.4 16.5 15.7 16.7	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1 13.5 13.2 12.4 12.0 12.0	JAN 10.5 10.2 9.8 9.7 9.7 10.2 10.9 10.7 10.2 11.3 11.6 11.8 12.2 13.0 13.6 14.1 14.8 15.3 14.3 13.5 12.6 12.4 12.1	DAIL: FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2 17.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 19.6 19.3 19.6 19.2 20.1	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 19.8 18.8 18.5 17.8 17.6 17.9 18.5 19.1 19.9	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1 26.0 26.2 26.0 25.1 22.8 23.0 23.2 23.8 23.0 23.2 23.8 23.0 23.8 23.0 23.8 23.0 23.8 23.0 23.8 23.0 23.3	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.2 29.4 29.3 30.2 29.7 29.4 29.3 29.5	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2 29.4 29.5	28.5 29.1 29.9 30.1 30.4 31.3 31.1 30.9 31.2 31.6 31.7 31.5 31.3 31.1 30.9	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 26.3 24.4 23.8 24.0 24.6 25.2 25.9 26.5 26.5 27.4 27.5 27.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.1 21.3 21.6 21.8 22.0 22.4 22.5 22.5 22.5 22.5 22.6 22.1	TEMF NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 20.5 22.0 21.8 21.6 20.3 20.0 21.8 21.6 20.7 21.6 20.7 21.8 21.6 20.7 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 20.7 21.8 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1 13.5 13.2 12.4 12.4 12.0 12.0 12.0 12.3 13.0	JAN 10.5 10.2 9.8 9.7 9.7 10.2 10.9 10.7 10.2 11.6 11.8 12.2 13.0 13.6 14.1 14.8 15.3 14.3 13.5 12.6 12.4 12.1 12.1 12.1	DAIL FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2 17.0 17.5 17.4 17.9 18.8 19.7 18.8 19.7 18.8 19.6 19.3 19.6 19.2 20.1 20.9 21.4 22.3	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 18.8 18.8 17.6 17.9 18.5 17.8 17.9 18.5 19.1	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.7 26.1 26.0 26.2 26.0 25.1 22.8 23.0 23.1 22.8 23.0 23.1 22.8 23.0 23.2 23.8 24.4 24.3	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.6 27.6 27.6 27.6 27.7 25.3 27.9 28.1 27.9 27.6 27.4	JUN 28.3 28.1 28.5 28.9 29.3 29.6 30.0 30.0 29.7 29.4 29.1 29.0 29.1 29.2 29.4 29.3 29.9 30.2 29.7 29.3	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2 29.4 29.5	28.5 29.1 29.9 30.1 30.4 30.5 31.0 31.3 31.1 30.9 31.5 31.5 31.5 31.5 31.3 31.4 31.1	31.1 30.9 30.8 30.6 30.4 30.1 29.8 29.6 29.3 28.0 26.3 24.4 23.8 24.4 23.8 24.6 25.2 25.9 26.5 27.2 26.5 27.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.3 21.6 21.8 22.0 22.4 22.2 22.4 22.2 22.4 22.2 22.1	NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 21.8 21.6 21.6 20.7 21.6 21.7 21.8 21.6 21.7 21.8 21.7 21.8 21.6 21.8 21.8 21.6 21.8 21.6 21.8 21.8 21.8 21.8 21.8 21.8 21.8 21.8	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1 13.5 13.2 12.4 12.0 12.0 12.3 13.0 12.3 11.5	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.6 11.3 11.6 11.8 12.2 13.0 13.6 14.1 14.8 15.3 14.3 13.5 12.6 12.4 12.1 12.4 12.9 13.7 14.5	DAIL FEB 15.5 15.4 14.9 14.4 14.5 15.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 19.6 19.3 19.8 19.6 19.2 20.1	Y MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.1 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 19.8 18.8 18.5 17.8 17.6 17.9 18.5 19.1	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1 26.0 26.2 26.0 25.1 22.4 22.1 22.4 22.1 22.8 23.0 23.2 23.8 24.4 24.3	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.3 27.6 27.6 27.5 27.9 28.1 27.9 27.6 27.6 27.6 27.7 4 27.8 28.2 28.5 28.3	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.0 29.1 29.2 29.4 29.3 29.2 29.4 29.3 29.5	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2 29.4 29.5	28.5 29.1 29.9 30.1 30.4 30.5 31.3 31.1 30.9 31.2 31.5 31.5 31.3 31.4 31.1	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 28.8 24.4 24.6 25.2 25.9 26.5 26.9 27.4 27.5 27.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MEAN	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.1 21.3 21.6 21.8 22.0 22.4 22.2 22.4 22.2 22.4 22.2 22.4 22.2 22.4 22.2 22.8 23.0 22.8 23.1	NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 21.8 21.6 21.6 20.7 17.2 16.7 17.2 16.7 17.2 16.9 16.6 16.2	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.4 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1 13.5 13.2 12.4 12.0 12.3 13.0 12.3 13.0 12.3 11.5 10.9 14.6	JAN 10.5 10.2 9.8 9.7 9.7 9.9 10.2 10.6 11.3 11.6 11.8 12.2 13.0 13.6 14.1 14.8 15.3 14.3 13.5 12.6 12.4 12.1 12.4 12.9 13.7 14.5 15.2	DAIL FEB 15.5 15.4 14.9 14.4 14.5 15.0 15.4 16.2 17.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 19.6 19.3 19.8 19.6 19.2 20.1 20.9 21.4 22.3 17.8	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.1 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 18.8 18.5 17.8 17.6 17.9 18.5 19.1 19.9	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 25.7 26.1 26.0 26.2 26.0 25.1 22.4 22.1 22.8 23.0 23.2 23.8 24.4 24.3 23.3 23.9 23.1 23.4 23.3 23.9 23.1 23.4 23.2	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.3 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.7 28.1 27.9 28.1 27.9 28.1 27.9 27.6 27.4	JUN 28.3 28.1 28.5 28.9 29.3 29.6 29.9 30.0 30.0 29.7 29.4 29.1 29.2 29.4 29.4 29.3 29.9 30.2 29.7 29.4 29.4 29.4 29.4 29.4 29.4 29.5	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.4 29.5	28.5 29.1 29.9 30.1 30.4 30.5 31.3 31.1 30.9 31.2 31.5 31.5 31.3 31.4 31.1	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 28.0 26.3 24.4 23.8 24.0 24.6 25.2 25.9 27.4 27.5 27.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	OCT 25.0 24.9 25.0 25.4 25.9 26.7 26.6 26.0 23.2 21.4 21.2 21.1 21.3 21.6 21.8 22.0 22.4 22.2 22.5 22.6 22.4 22.2 22.1 22.2 22.2 22.2 22.8 23.0 22.8	NOV 22.8 22.6 22.6 22.6 22.7 23.0 23.4 23.4 23.3 22.5 22.0 21.8 21.6 20.3 20.0 21.8 21.6 20.7 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17	DEC 16.1 16.3 16.1 14.6 13.8 13.9 14.0 14.2 14.8 15.2 15.8 16.9 17.4 18.1 18.8 18.7 17.2 16.0 14.1 13.5 13.2 12.4 12.0 12.3 13.0 12.3 11.5 10.9	JAN 10.5 10.2 9.8 9.7 9.7 10.2 10.9 10.7 10.2 11.6 11.8 12.2 13.0 13.6 14.1 14.8 15.3 14.3 13.5 12.4 12.1 12.1 12.1 12.1 12.1 12.2 13.7 14.5 15.2	DAIL FEB 15.5 15.4 14.9 14.4 14.4 14.5 15.0 15.4 16.2 17.0 17.5 17.4 17.9 18.8 19.4 19.7 18.8 19.6 19.3 19.8 19.6 19.2 20.1 20.9 21.4 22.3	MEAN VA MAR 22.6 22.9 22.8 22.5 20.5 18.3 16.7 16.1 16.2 16.7 17.6 18.5 19.1 19.9 20.5 20.5 18.8 18.5 17.8 17.6 17.9 18.5 19.1 19.2 18.9 18.5 19.1 19.2	APR 20.2 19.9 20.4 20.9 20.9 21.3 22.2 23.1 24.0 24.6 25.2 26.1 26.0 26.2 26.1 22.8 23.0 23.2 23.1 24.0 24.4 22.1 22.8 23.0 23.2 23.8 24.4 24.3	MAY 23.1 23.2 23.3 23.5 23.7 24.1 24.0 23.9 23.9 24.2 24.7 25.3 26.1 26.2 26.4 26.8 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	JUN 28.3 28.1 28.5 28.9 29.3 30.0 30.0 29.7 29.4 29.1 29.2 29.4 29.3 29.9 30.2 29.7 29.4 29.3 29.9	JUL 29.4 29.5 29.4 29.1 28.9 28.7 28.8 29.2 29.4 29.5	28.5 29.1 29.9 30.1 30.4 30.5 31.3 31.1 30.9 31.2 31.6 31.7 31.5 31.3 31.3 31.4 31.1	31.1 30.9 30.8 30.6 30.4 30.2 30.1 29.8 29.6 29.3 28.8 26.3 24.4 23.8 24.0 24.6 25.2 25.9 26.5 27.2 26.8 27.2 26.8 27.2

CAL YR 2000 MEAN 23.0 MAX 30.9 MIN 10.9 WTR YR 2001 MEAN 22.1 MAX 31.7 MIN 9.7

294213081345300 ST. JOHNS RIVER AT DANCY POINT NEAR SPUDS, FL--Continued

TEMPERATURE, WATER BOTTOM (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAIL	MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	25.0 24.8 25.0 25.4	22.8 22.6 22.5 22.5	16.1 16.3 16.1 14.6	10.5 10.2 9.7 9.6	15.4 15.4 14.8 14.3	22.6 22.8 22.8 22.5	20.2 19.8 20.2 20.8	23.0 23.2 23.3 23.5	28.3 28.1 28.2 28.5	 	 	30.9 30.6 30.6 30.5
5	25.8	22.5	13.8	9.7	14.3	20.5	20.9	23.7	29.0			30.2
6 7 8 9 10	26.6 26.6 26.0 23.2 21.2	22.6 22.9 23.3 23.4 23.2	13.8 14.0 14.1 14.7 15.2	9.9 10.1 10.8 10.7 10.1	14.4 14.8 15.4 16.0 16.8	18.3 16.7 15.9 16.0 16.2	21.1 21.7 22.7 23.6 24.2	24.0 24.0 23.9 23.8 23.9	29.4 29.7 29.8 29.9 29.6	 	28.3 28.7 29.4 29.9	30.2 30.0 31.1 29.8 29.6
11 12 13 14 15	20.8 21.0 21.1 21.3 21.5	22.4 21.9 21.7 21.6 20.1	15.7 16.3 16.8 17.3 18.0	10.5 11.3 11.5 11.7 12.1	17.5 17.4 17.3 17.6 18.5	16.5 17.3 18.4 18.9 19.9	24.8 25.3 26.0 25.9 26.2	24.5 25.1 25.7 26.1 26.1	29.3 29.0 29.0 29.0 28.8	29.5 29.5 29.4 29.1 28.9	30.0 30.3 30.8 31.2 31.0	29.2 28.8 28.0 26.3 24.4
16 17 18 19 20	21.6 21.7 22.3 22.4 22.5	19.9 20.3 19.8 19.4 18.4	18.7 18.7 17.0 16.0 14.1	12.9 13.5 14.0 14.6 15.3	19.2 19.7 18.8 18.1 18.3	20.5 20.3 19.8 18.8 18.5	26.0 25.0 22.3 21.9 22.5	26.4 26.9 27.3 27.4 27.2	29.2 29.3 29.0 29.7	28.7 28.7 28.9 29.2 29.4	30.8 30.9 31.3 31.5	23.7 24.0 24.5 25.1 25.7
21 22 23 24 25	22.5 22.6 22.4 22.2 22.1	17.4 16.4 15.7 15.7	13.4 13.1 12.4 12.4 12.0	14.1 13.4 12.6 12.2 12.1	18.9 19.6 19.6 19.2 19.8	17.8 17.4 17.9 18.2 18.9	22.8 23.1 23.4 24.0 24.3	27.4 27.7 27.8 27.5 27.3	30.0 29.7 29.3 29.1 29.1	 	31.3 31.3 31.3 31.2 31.1	26.4 26.8 27.2 27.5 27.2
26 27 28 29 30 31	22.2	17.2 17.0 16.8 16.6 16.2	11.9 12.1 13.0 12.3 11.5 10.8	11.9 12.3 12.8 13.5 14.5 15.2	20.7 21.2 22.1 	19.1 18.9 18.5 18.5 18.9	23.3 22.7 23.0 23.4 23.2	27.6 28.0 28.3 28.2 28.1 28.1	29.2 	 	30.8 30.5 30.7 30.8 30.9 30.9	26.8 26.2 26.0 25.0 23.8
MEAN MAX MIN	23.1 26.6 20.8	20.0 23.4 15.7	14.6 18.7 10.8	12.0 15.3 9.6	17.7 22.1 14.3	18.9 22.8 15.9	23.1 26.2 19.8	26.0 28.3 23.0	29.2 30.0 28.1	29.1 29.5 28.7	30.7 31.5 28.3	27.5 31.1 23.7

CAL YR 2000 MEAN 22.9 MAX 30.8 MIN 10.8 WTR YR 2001 MEAN 22.0 MAX 31.5 MIN 9.6

OXYGEN DISSOLVED TOP (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DALL	Y MEAN VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.2 7.4 7.3 7.1 6.9	7.2 6.7 6.4 5.9	8.2 	11.1 11.3 11.6 11.7 11.6	9.6 9.5 9.6 9.9 10.4	8.0 7.9 7.7 7.8 8.5	9.3 9.4 9.8 9.6 9.3	9.1 9.3 9.2 9.3 9.2	7.5 7.4 8.1 8.2 8.0	 	 	3.1 3.5 3.9 4.1 4.1
6 7 8 9 10	6.3 5.1 5.8 7.6 7.9	6.3 6.5 7.0 7.2 7.4	10.0 10.2 10.0 9.8	11.6 11.7 11.5 11.4 11.7	10.8 10.9 10.6 10.9 11.3	9.0 9.8 10.6 10.8 10.5	9.4 9.6 9.5 9.3 9.0	9.2 8.7 8.6 8.6 8.9	8.0 8.2 8.3 8.1 7.7	 	6.1 6.9 7.1 6.5	3.5 3.8 4.0 4.2 4.3
11 12 13 14 15	8.6 8.7 9.0 8.9 8.8	7.7 7.6 7.7 7.6 7.9	9.7 9.5 9.4 9.4 9.1	11.8 11.7 11.8 12.0 12.2	11.0 11.0 11.0 11.2 11.2	10.4 10.5 9.9 9.4 8.9	8.7 8.6 8.2 8.0	9.4 9.2 9.0 8.5 8.6	7.8 7.8 7.5 7.6 7.9	5.7 6.1 6.5 6.4 6.9	6.7 6.5 6.3 6.3	4.2 4.2 4.6 6.2 7.0
16 17 18 19 20	8.5 8.3 8.2 7.8 7.1	8.2 8.0 8.1 8.2 8.3	8.8 8.4 8.6 8.5 9.1	12.1 11.9 11.6 11.1 10.3	10.6 10.0 9.8 9.7 9.9	8.4 8.7 8.9 8.6 9.0	8.2 8.5 9.0 9.6 9.6	8.6 8.8 9.0 8.9 8.7	7.4 7.0 7.5 6.6	7.0 7.2 7.4 7.3 6.4	5.4 6.3 5.8 5.5 4.8	7.2 5.9 3.4 2.4 2.9
21 22 23 24 25	7.2 7.1 7.4 7.9 8.0	8.8 8.9 9.0 9.2 8.9	9.6 10.0 10.5 10.6 10.9	10.3 10.5 10.9 11.1 11.0	10.1 9.8 9.3 8.9 8.8	9.4 9.9 10.2 10.6 10.8	9.7 9.4 9.5 9.5 8.8	8.6 8.3 8.0 8.0	5.6 4.1 3.6 3.7 4.8	 	4.2 3.7 4.1 5.0 4.7	3.2 3.3 3.1 2.3 2.2
26 27 28 29 30 31 MEAN MAX MIN	8.2 8.5 8.3 8.3 8.0 7.5 7.7 9.0 5.1	8.3 8.0 7.9 7.9 7.7 9.2 5.9	11.0 11.4 11.3 11.0 11.2 11.5 9.9 11.5 8.2	11.3 11.7 11.4 11.6 11.1 10.4 11.4 12.2 10.3	8.8 8.4 8.3 10.0 11.3 8.3	10.4 10.3 9.7 9.2 8.9 9.2 9.4 10.8	8.6 9.2 9.7 9.5 8.9 9.1 9.8 8.0	8.4 8.6 8.3 7.6 7.5 7.7 8.6 9.4 7.5	4.8 6.9 8.3 3.6	 6.7 7.4 5.7	5.0 4.7 4.7 4.7 4.0 3.7 5.4 7.1 3.7	1.7 1.1 1.3 3.8 5.4 3.8 7.2

CAL YR 2000 MEAN 7.7 MAX 11.5 MIN 2.1 WTR YR 2001 MEAN 8.2 MAX 12.2 MIN 1.1

294213081345300 St. JOHNS RIVER AT DANCY POINT NEAR SPUDS, FL--Continued OXYGEN DISSOLVED BOTTOM (Mg/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		OX	YGEN DISS	OLVED BOT), WATER Y Y MEAN VAL		ER 2000 T	O SEPTEME	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.2 7.4 7.3 7.1 6.6	6.9 6.5 6.1 5.6 5.7	 	11.1 11.3 11.7 11.8 11.6	9.5 9.3 9.5 9.8 10.2	7.9 7.7 7.6 7.8 8.4	9.3 9.3 9.6 9.4 9.2	8.9 9.1 9.1 9.2 9.1	7.1 7.2 7.4 7.2 7.0	 	 	2.9 3.2 3.4 4.0 4.2
6 7 8 9 10	6.1 5.1 5.7 7.5 8.1	5.8 6.2 6.8 7.0 7.0	9.7 10.0 9.7 9.5	11.6 11.7 11.5 11.5	10.5 10.4 10.3 10.5 10.9	9.0 9.8 10.4 10.7 10.5	9.1 9.2 9.2 8.9 8.6	9.0 8.7 8.5 8.5 8.5	7.3 7.5 7.6 7.8 7.5	 	5.5 5.6 5.7 5.8	3.7 3.7 4.0 4.1 4.3
11 12 13 14 15	8.5 8.8 9.0 8.9 8.7	7.4 7.3 7.1 7.3 7.6	9.5 9.3 9.2 9.0 8.9	11.8 11.9 12.0 12.2	10.8 10.7 10.7 10.7 10.6	10.2 10.2 9.8 9.3 8.9	8.4 8.2 8.1 8.0 7.9	8.9 8.9 8.3 8.0 7.9	7.4 7.4 7.1 6.9 5.9	5.5 6.0 6.4 6.3 6.8	5.9 5.8 5.7 5.8 5.2	4.3 4.5 4.8 6.4 7.1
16 17 18 19 20	8.2 7.9 7.9 7.3 7.1	7.6 7.7 7.9 8.0 8.1	8.5 8.2 8.5 8.4 9.0	12.1 11.8 11.5 11.0 10.3	10.2 9.9 9.8 9.6 9.5	8.3 8.5 8.9 8.5 9.0	8.1 8.4 8.8 9.3 9.1	7.9 8.0 8.4 8.4	6.7 5.8 4.6 5.2	7.0 7.1 6.8 6.7 6.6	4.8 4.7 4.7 4.9 4.4	7.2 6.1 3.7 2.5 2.8
21 22 23 24 25	7.2 7.2 7.4 7.8 8.0	8.7 8.8 8.9 9.0 8.7	9.4 9.8 10.3 10.5 10.8	10.3 10.6 10.9 11.1 11.0	9.6 9.4 9.2 8.8 8.5	9.3 9.8 10.1 10.4 10.6	9.4 9.3 9.1 9.0 8.8	7.6 7.4 7.7 7.6 7.8	4.6 3.6 3.2 3.1 3.5	 	3.7 3.6 4.0 4.2 4.6	3.2 3.3 3.0 2.4 2.3
26 27 28 29 30 31	8.3 	8.2 	10.9 11.0 11.1 10.9 11.1 11.4	11.4 11.6 11.1 11.2 11.0 10.3	8.5 8.1 8.0 	10.3 10.3 9.7 9.1 8.7 9.0	8.6 9.0 9.3 9.4 8.9	7.8 7.8 7.8 7.3 7.0	3.8	 	4.7 4.0 3.8 3.7 3.4 3.1	1.7 1.1 1.3 4.1 5.9
MEAN MAX MIN	7.6 9.0 5.1	7.4 9.0 5.6	9.8 11.4 8.2	11.4 12.2 10.3	9.8 10.9 8.0	9.3 10.7 7.6	8.9 9.6 7.9	8.2 9.2 6.5	6.1 7.8 3.1	6.5 7.1 5.5	4.7 5.9 3.1	3.8 7.2 1.1

CAL YR 2000 MEAN 7.3 MAX 11.4 MIN 1.7 WTR YR 2001 MEAN 7.9 MAX 12.2 MIN 1.1

02245255 DEEP CREEK NEAR HASTINGS, FL

LOCATION.--Lat $29^{\circ}40^{\circ}52^{\circ}$, long $81^{\circ}26^{\circ}56^{\circ}$, in NW^{1}_{4} sec.35, T.9 S., R.28 E., St. Johns County, Hydrologic Unit 03080103, near right bank at downstream side of bridge on County Road, 1.3 mi upstream from Sixteenmile Creek, and 4.2 mi southeast of Hastings.

DRAINAGE AREA. -- 20.7 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 6.99 ft above sea level.

 ${\tt REMARKS.--Records\ fair\ except\ for\ period\ of\ estimated\ daily\ discharge,\ which\ is\ poor.}$

		DISCHA	RGE, CUBIC	C FEET PER		WATER YE. Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	72 43 27 18 14	.81 .72 .76 .83 .78	.76 .82 .95 .91	2.9 3.0 3.0 2.5 2.7	4.1 7.5 4.1 3.9 3.4	4.9 5.0 4.4 5.9 3.5	2.9 1.9 1.9 2.5 3.7	1.7 1.9 1.7 1.3	.27 .44 .16 .12	1.5 1.1 .82 .58 .43	18 30 20 24 24	.94 .95 2.0 1.3 2.8
6 7 8 9 10	10 11 9.3 6.5 4.5	.76 .74 .70 .73	1.0 e1.5 e2.1 e2.5 e2.4	3.3 3.4 3.7 3.6 3.0	1.7 1.3 1.1 1.0	1.0 1.0 1.9 2.5 1.5	3.6 3.2 3.3 3.1 3.2	1.3 2.3 1.9 1.6 1.0	.30 .48 .75 4.3 4.8	.34 .28 .24 .23	39 23 14 8.2 4.7	15 26 14 19 17
11 12 13 14 15	3.4 2.7 2.5 2.2 1.9	.72 .73 .72 .90 .69	e2.6 e2.9 e3.1 e3.3 e3.2	3.2 3.7 3.4 3.3 3.3	1.0 1.2 1.6 1.9 2.0	1.4 2.0 1.7 .96	3.3 3.4 3.5 4.0 4.7	.96 1.0 1.2 1.6 2.1	20 25 3.7 1.5 1.9	.43 .30 .35 1.3 .70	3.1 2.3 1.7 1.3	13 41 130 511 845
16 17 18 19 20	1.7 1.5 1.4 1.1	.74 .79 .75 .83	e3.5 e3.9 e4.8 e4.0 e3.6	2.8 2.7 2.7 2.9 3.7	2.1 3.0 3.3 3.2 3.2	1.5 1.2 1.3 49	3.3 2.6 2.2 2.5 2.8	2.2 2.1 2.0 1.2 .74	.88 .83 1.2 .79 .53	1.7 2.1 .92 1.1	1.4 2.5 1.6 1.1	440 322 246 191 147
21 22 23 24 25	1.1 1.0 1.1 1.7	.96 .86 .68 .66	e3.3 3.1 3.0 3.0 2.8	2.0 1.5 1.3 1.1	3.4 4.0 4.7 5.3 5.3	15 8.3 5.4 3.7 3.1	2.6 2.6 2.6 2.6 9.6	.72 .99 1.1 .44 .27	.55 .74 .68 .79 .46	20 5.3 2.9 2.6 1.5	1.1 .76 .57 .42 .35	114 87 68 51 89
26 27 28 29 30 31	2.1 1.8 1.4 1.2 1.0	1.6 1.3 1.0 .93 .86	2.8 2.4 2.9 3.8 3.1 2.4	1.4 1.9 2.7 2.9 3.0 4.3	5.3 5.5 5.7 	2.7 2.2 2.6 2.7 6.4 4.8	8.0 1.2 .74 .49 1.1	.18 .15 .13 .53 .56	.28 .24 7.0 11 2.3	1.1 1.2 .96 .63 .44	.35 .29 .26 .26 .24	91 66 50 38 31
TOTAL MEAN MAX MIN CFSM IN.	249.83 8.06 72 .91 .39 .45	25.81 .86 1.6 .66 .04	81.37 2.62 4.8 .76 .13	86.1 2.78 4.3 1.1 .13	90.73 3.24 7.5 .93 .16	218.22 7.04 70 .66 .34 .39	93.13 3.10 9.6 .49 .15	36.45 1.18 2.3 .13 .06	92.09 3.07 25 .10 .15 .17	76.27 2.46 20 .23 .12 .14	227.00 7.32 39 .24 .35 .41	3669.99 122 845 .94 5.91 6.60
STATIS	TICS OF M	ONTHLY ME	AN DATA FO	OR WATER Y	EARS 197	75 - 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	13.8 61.3 1996 .082 1991	6.61 43.2 1995 .093 1991	9.46 80.2 1998 .42 1981	8.70 28.3 1998 .34 1981	11.5 78.4 1998 .61 1985	11.9 36.6 1987 .70 1985	7.38 25.7 1997 1.79 1985	3.14 8.42 1995 .49 1990	7.39 53.7 1982 .062 1981	5.80 23.6 1982 .13 1990	9.73 51.9 1985 .089 1993	23.1 122 2001 .090 1990
SUMMAR	Y STATIST	ICS	FOR 2	2000 CALEN	DAR YEAR	P F	OR 2001 WA	TER YEAR		WATER Y	EARS 197	5 - 2001
LOWEST HIGHES LOWEST ANNUAL MAXIMU INSTAN ANNUAL ANNUAL 10 PER 50 PER		EAN EAN AN Y MINIMUM OW AGE OW FLOW CFSM) INCHES) EDS EDS			Sep 9 Jun 10 Jun 6)	.25 1290 9.52	Sep 15 Jun 5 May 31 Sep 14 Sep 14 Jun 6		9.8 24.8 1.2 845 .(.(1290 9.5 *.(.4 6.4 24 2.3	8 22 Sep 90 M _M 90 M Sep 52 Sep 17 13	1995 1981 15 2001 any days any days 14 2001 14 2001

e Estimated * Aug. 31, Sept. 1,2,4-6,9, 1999

02245260 DEEP CREEK AT SPUDS, FL

LOCATION.--Lat $29^{\circ}43^{\circ}46^{\circ}$, long $81^{\circ}29^{\circ}13^{\circ}$, in $SW^{1/4}_{4}$ sec.9, T.9 S, R.28 E., St. Johns County, Hydrologic Unit 03080103, on right bank at abandoned Florida East Coast Railway crossing, 0.5 mi east of Spuds, and 3.9 mi upstream from mouth.

DRAINAGE AREA.--60.5 mi².

PERIOD OF RECORD. -- May 1992 to current year.

REVISED RECORDS.--WDR FL-95-1A: Discharge.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level.

 ${\tt REMARKS.--Records\ poor.\ Discharge\ represents\ net\ of\ much\ larger\ upstream\ and\ downstream\ discharges.}$

		DISCHA	RGE, CUBI	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	275 192 137 83 82	2.8 9.1 8.8 8.6 78	4.9 3.2 -34 -9.1 22	13 10 9.3 9.5	37 41 32 20 23	21 21 17 28 27	25 16 11 14 14	3.7 3.4 7.3 8.6 8.5	7.2 7.6 4.3 2.8 2.1	15 10 6.0 4.9 5.4	52 116 120 103 100	5.8 4.0 6.6 7.3 36
6 7 8 9 10	61 42 18 1.3	3.8 28 24 17 17	21 18 16 14 10	12 12 15 9.8	15 11 9.8 8.8 7.4	10 2.8 7.9 10 9.6	23 19 17 19 21	7.0 2.3 6.6 11 10	8.6 8.1 28 58 40	3.7 .59 1.4 .50 4.0	167 133 94 73 58	151 254 214 134 104
11 12 13 14 15	44 22 13 12 15	9.0 5.9 12 14 11	14 19 11 14 18	15 12 12 11 18	7.3 6.4 10 11	7.3 15 13 12 10	15 15 15 14 16	8.4 7.4 7.2 3.0 6.0	40 138 82 38 22	9.0 1.1 -4.9 -11 3.9	44 82 55 27 23	91 100 218 541 1390
16 17 18 19 20	9.8 2.5 4.0 1.1 -6.4	5.0 8.1 1.7 -18 8.1	13 23 12 6.8 14	17 13 12 18 23	11 13 13 12 18	11 7.5 5.7 46 208	14 8.8 13 13	4.4 -3.9 4.0 12 10	7.5 .08 2.2 2.2 1.6	10 14 9.2 16 34	20 18 14 10 13	1150 823 619 474 391
21 22 23 24 25	10 13 8.0 3.7 23	30 18 14 11 15	11 14 11 15 13	15 7.3 5.7 10 8.6	17 17 17 23 23	187 86 43 25 19	14 15 15 15 26	11 12 12 11 7.8	.53 6.5 6.7 -11 .61	112 84 50 27 13	15 8.8 1.5 3.7 15	333 279 246 227 212
26 27 28 29 30 31	20 19 38 8.9 24	18 14 9.9 8.9 8.3	11 18 16 5.8 21	12 13 15 13 17 27	26 25 24 	15 15 9.6 22 44 34	47 19 7.3 4.6 1.2	6.7 5.0 3.4 12 10 4.1	-2.0 62 24 53 26	6.5 12 15 6.5 14 14	-14 -1.2 7.3 4.0 19 .39	295 228 152 67 59
TOTAL MEAN MAX MIN	1211.66 39.1 275 -6.4	322.22 10.7 30 -18	364.6 11.8 23 -34	411.2 13.3 27 5.7	489.7 17.5 41 6.4	989.4 31.9 208 2.8	480.9 16.0 47 1.2	221.9 7.16 12 -3.9	604.00 20.1 138 -11	486.79 15.7 112 -11	1347.15 43.5 167 -14	8811.7 294 1390 4.0
STATIS	STICS OF N	MONTHLY ME.	AN DATA F	OR WATER Y	EARS 1992	2 - 2001,	BY WATER	YEAR (W)	")			
MEAN MAX (WY) MIN (WY)	93.7 217 1996 12.8 1998	56.5 139 1995 10.7 2001	64.4 206 1998 5.02 1999	46.1 87.8 1993 11.1 2000	47.1 203 1998 10.6 1999	50.0 128 1996 19.4 2000	37.9 98.2 1997 6.20 1994	17.9 38.4 1995 -11.2 1994	42.4 80.3 1997 4.12 1998	29.6 56.1 1996 2.78 1999	42.2 104 1995 1.47 1999	133 294 2001 21.3 1997
SUMMAR	RY STATIST	rics	FOR	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAF	2	WATER	YEARS 1992	2 - 2001
ANNUAI HIGHES LOWEST HIGHES LOWEST ANNUAI MAXIM 10 PER 50 PER	L TOTAL L MEAN ST ANNUAL I ST DAILY M T DAILY M L SEVEN-DI JM PEAK ST RCENT EXCE RCENT EXCE RCENT EXCE RCENT EXCE	MEAN MEAN EAN AY MINIMUM FAGE EEDS EEDS		11147.85 30.5 916 -34 -4.0 62 11 1.3	Sep 10 Dec 3 Aug 18		15741.22 43.1 1390 -34 -1.1 7.58 92 13 2.8	Sep 15 Dec 3 Nov 28	} }	54. 88. 20. 1390 -78 -22 7. 126 25	1 4 Sep Jan May 58 Sep	1995 1999 15 2001 26 1993 19 1994 15 2001

Note. -- Negative figures indicate reverse flow

02245328 SIXMILE CREEK NEAR PICOLATA, FL

LOCATION.--Lat $29^{\circ}57'34"$, long $81^{\circ}32'37"$, in $SW^{1/4}_{4}$ sec.24, T.6 S, R.27 E., St. Johns County, Hydrologic Unit 03080103, (Picolata Quadrangle), on right bank, 50 ft upstream from bridge on State Highway 13, 2.0 mi upstream from mouth, and 4.2 mi northeast of Picolata.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--October 1990 to September 1993 (periodic measurements only), October 1993 to current year.

REVISED RECORDS.--WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 10.00 ft below sea level.

REMARKS.--Records poor. Discharges not published some days, due to missing velocity record. Discharge represents net of much larger upstream and downstream discharges.

		DISCHA	ARGE, CUBI	C FEET PE		WATER Y		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	267 343 305 210 212	9.2 65 154 19 184	52 7.4 -117 20 73	117 100 126 103 85	197 99 139 70 91	98 74 -28 41 52	219 172 50 79 138	63 -5.3 18 29 29	728 1090 1300 1170 1180	 	334 519 484 666 799	-66 -90 -125 -63 -106
6 7 8 9 10	186 46 -44 -95 120	-70 61 24 6.9 80	108 77 80 30 41	53 50 -1.0 68 59	131 86 52 -20 -21	112 141 209 32 54	103 34 -27 87 166	-22 -6.9 19 69 52	795 982 707 352 107	 	930 968 1090 979 759	-229 -220 -282 -249 -186
11 12 13 14 15	164 104 79 95 70	-20 36 44 84 67	115 188 110 142 207	85 88 27 18 37	86 102 77 55 87	73 90 50 114 -31	-55 27 117 3.3 -74	-15 -73 -35 -3.3 92	312 295 293 357 448	 -660 -76	51 -120 -21 23 161	-169 -303 -265 532 3510
16 17 18 19 20	74 29 29 -33 46	33 37 18 -70 -11	-32 -22 86 82 123	71 62 124 -31 5.1	54 -1.7 73 8.7 34	36 14 55 -6.9 257	33 32 127 84 -24	127 -34 -18 6.2 1.9	444 370 -135 -243 -208	-867 -538 645 -25 33	-18 92 11 -12 1.4	3120 1890 1160 773 432
21 22 23 24 25	50 7.8 -57 46 133	185 71 69 18 30	148 46 40 64 83	117 58 81 123 78	62 11 31 -23 -54	428 188 158 102 84	-40 -43 -30 -36 6.2	14 47 18 54 77	-241 -223 -208 -222 -196	-25 -145 -36 -17 42	-6.0 -72 -84 -41 -128	 774
26 27 28 29 30 31	142 168 225 106 107 100	114 130 113 109 58	84 72 88 34 122 88	118 125 20 28 -11 82	55 36 -29 	47 90 106 112 124 355	91 30 -59 -61 -35	147 500 615 702 824 852	-219 -229 29 	145 139 22 -115 49 242	-165 -76 12 -71 -87 -96	631 524
TOTAL MEAN MAX MIN	3234.8 104 343 -95	1648.1 54.9 185 -70	2239.4 72.2 207 -117	2065.1 66.6 126 -31	1488.0 53.1 197 -54	3230.1 104 428 -31	1114.5 37.2 219 -74	4143.6 134 852 -73	8835 316 1300 -243	-1187 -65.9 645 -867	6882.4 222 1090 -165	10993 478 3510 -303
STATIS	TICS OF I	MONTHLY ME	EAN DATA F	OR WATER	YEARS 199	94 - 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	354 1818 1997 -5.75 1998	141 438 1994 54.9 2001	236 715 1998 62.7 1999	155 500 1994 66.6 2001	161 658 1998 3.10 1997	126 268 1996 -1.36 1997	146 421 1997 -8.30 1998	70.2 296 1994 -18.5 1998	129 316 2001 -40.1 1998	70.2 186 2000 -65.9 2001	137 386 1995 -79.2 1999	201 478 2001 -302 1999
SUMMAR	Y STATIS	rics	FOR	2000 CALE	NDAR YEAR	2 :	FOR 2001 W	ATER YEAR		WATER Y	YEARS 1994	- 2001
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL MAXIMU 10 PER 50 PER	T ANNUAL ANNUAL I T DAILY I DAILY MI	MEAN MEAN EAN AY MINIMUN FAGE EEDS EEDS	4	33542.2 93.4 2270 -514 -74 207 52 -51		j	3510 -867 -239 14.0 439 58 -81	Sep 15 Jul 16 Sep 7 02 Sep 16		161 380 43.1 6870 -1430 -239 14.1 396 87 -49	Oct Sep Sep	1994 1999 8 1996 15 1999 7 2001 16 2001

Note.--Negative figures indicate reverse flow

295856081372301 ST. JOHNS RIVER AT SHANDS BRIDGE NEAR GREEN COVE SPRINGS, FL

LOCATION.--Lat 29°58'56", long 81°37'23",T.6 S., R.27 E., St. Johns County, Hydrologic Unit 03080103, below Shands Bridge on State Highway 16, on the southeast piling of boat fenders, 3.5 mi east-southeast of Green Cove Springs, and 48 mi upstream

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. --SPECIFIC CONDUCTANCE (TOP, MIDDLE, BOTTOM): April 1995 to September 2001 (discontinued). WATER TEMPERATURE (TOP, MIDDLE, BOTTOM): April 1995 to September 2001 (discontinued). DISSOLVED OXYGEN (TOP, MIDDLE, BOTTOM): March 1996 to September 2001 (discontinued).

INSTRUMENTATION. -- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

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SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 15,000 µS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 327 µS/cm @ 25 °C,
      Mar. 3, 1998.
 SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 15,100 µS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 327 µS/cm @ 25 °C,
      Mar. 3, 1998.
SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 19,500 μS/cm @ 25 °C, May 6, 1999; minimum daily mean, 327 μS/cm @ 25 °C,
Mar. 3, 1998.

WATTER TEMPERATURE (TOP): Maximum daily mean, 32.5 °C, Aug. 1, 1999; minimum daily mean, 8.3 °C, Feb. 5, 1996.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 32.4 °C, Aug. 1, 1999; minimum daily mean, 9.5 °C, Jan. 9, 1996, Jan. 11, 2001.

WATER TEMPERATURE (BOTTOM): Maximum daily mean, 32.4 °C, Aug. 1, 1999; minimum daily mean, 9.5 °C, Jan. 11, 2001.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 12.0 mg/L, Jan. 29, 2001; minimum daily mean, 4.3 mg/L, Aug. 20,21, 2001.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 12.1 mg/L, Jan. 29, 2001; minimum daily mean, 4.2 mg/L, Aug. 20,21, 2001.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 12.0 mg/L, Jan. 29, 2001; minimum daily mean, 4.0 mg/L, Aug. 21, 2001.
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EXTREMES FOR CURRENT YEAR.-

TREMES FOR CURRENT YEAR.-
SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 5,920 μS/cm @ 25 °C, June 1; minimum daily mean, 828 μS/cm @ 25 °C, Nov. 9.

SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 5,990 μS/cm @ 25 °C, June 1; minimum daily mean, 828 μS/cm @ 25 °C, Nov. 9.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 5,980 μS/cm @ 25 °C, June 1; minimum daily mean, 827 μS/cm @ 25 °C, Nov. 9.

WATER TEMPERATURE (TOP): Maximum daily mean, 31.1 °C, Aug. 18; minimum daily mean, 9.5 °C, Jan. 11.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 31.0 °C, Aug. 18; minimum daily mean, 9.5 °C, Jan. 11.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 31.0 °C, Aug. 18,19; minimum daily mean, 9.5 °C, Jan. 11.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 12.0 mg/L, Jan. 29; minimum daily mean, 4.3 mg/L, Aug. 20,21.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 12.1 mg/L, Jan. 29; minimum daily mean, 4.2 mg/L, Aug. 20,21.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 12.0 mg/L, Jan. 29; minimum daily mean, 4.0 mg/L, Aug. 21.

SPECIFIC CONDUCTANCE TOP (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		854	979					1640	5920	2950		1150
2	1270	847							5150	2700		1150
3	1180	834							4560	2500		1150
4	1100	834							4330	2560		1130
5	1000	831							4130	2460		1130
6	928	849	920						3970	2130	1280	1130
7	928 882	849 846	920 921						3970	1980	1280	1130
			952						3790		1270	1130
8	922	831								2110		
9	1230	828	986						3840	2040	1260	1140
10	1470	831	996					3310	4050	1970	1240	1170
11	1260	834	993	1210			1340	3270	4010	1890	1220	1190
12	1120	837	1010	1210			1350		3760	1810	1200	1200
13	1110	840	1020	1210		2130	1320		3340	1740	1190	1170
14	1090	841	1030	1200	1230	1840	1290		3050	2100	1180	1120
15	1020	841	1070	1210	1230	1810	1300		2960	2330	1180	
16	938	845	1080	1210		1450	1300		2700		1170	
17	916	846	1110	1210		1510	1330		2530		1170	
18	895	850	1120	1210		1860	1560		3000		1170	
19	877	850	1130	1210		3310	1520		3290		1160	
20	881	855	1150	1210		4880	1400		3390		1160	
21	873	854	1150	1220		3770	1370		3390		1150	
22	862	860	1150	1220		2600	1330		3270		1150	
23	898	876	1140	1210		2350	1300		3100		1150	
24	1000	898	1130	1220		2330	1300		3030		1150	
25	1070	900		1220		2120	1290		3140		1140	
26	1120	921		1220		1920	1370		3320		1150	
27	1130	933		1220		2060	1440		3290		1150	
28	999	953 951		1220		2300	1420		3270		1150	
				1220		2300						
29	909	959					1400		3240		1140	
30	931	974		1220		1610	1540		3160		1150	
31	899										1150	
MEAN	1030	865	1050	1210		2340	1370		3590	2220	1180	1150
MAX	1470	974	1150	1220		4880	1560		5920	2950	1280	1200
MIN	862	828	920	1200		1450	1290		2530	1740	1140	1120
		-20	- 20							10		

CAL YR 2000 MEAN 2740 MAX 11100 MIN 688 WTR YR 2001 MEAN 1620 MAX 5920 MIN 828

295856081372301 ST. JOHNS RIVER AT SHANDS BRIDGE NEAR GREEN COVE SPRINGS, FL--Continued

	295	856081372	301 ST. J	OHNS RIVE	R AT SHAN	IDS BRIDGE	E NEAR G	REEN COVE	SPRINGS,	FLCont	inued	
	SPECIFI	IC CONDUCT	ANCE MIDDL	E (MICROS		1 AT 25 DI 7 MEAN VAI		WATER YEAR	OCTOBER	2000 TO	SEPTEMBER	2001
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	854	978			1260		1650	5990	2980	1460	1150
2 3	1350 1180	848 835				1260 1250			5230 4620	2730 2550	1500 1430	1150 1150
4	1100	832				1250			4400	2590	1350	1130
5	1010	831				1250			4180	2470	1320	1120
6 7	925 883	849 844	920 921			1260 1270			4050 3850	2140 1990	1300 1280	1130 1130
8	923	830	953			1290			3840	2110	1270	1130
9 10	1260 1490	828 831	987 998					3540	3900 4080	2050 1970	1260 1240	1130 1170
11	1290	835	993	1220				3630	4060	1890	1220	1190
12	1140	838	1010	1210		2440	1300		3810	1810	1200	1200
13 14	1130 1110	840 841	1020 1030	1210 1200	1230	2160 2050	1320 1290		3370 3090	1750 2110	1190 1180	1170 1120
15	1030	842	1070	1210	1230	2060	1300		3010	2530	1170	
16	944	845	1080	1210	1240	1480	1300		2730	2540	1170	
17 18	916 893	846 850	1110 1120	1210 1210	1240 1240	1550 1890	1330 1570		2570 3040	2550 2490	1170 1170	
19	874	850	1130	1210	1240	3480	1530		3340	2240	1160	
20	881	855	1150	1210	1240	5020	1410		3410	2070	1150	
21 22	874 862	855 860	1150 1150	1220 1220	1240 1240	3820 2640	1370 1330		3410 3320	2090 2650	1150 1150	
23	899	875	1140	1210	1240	2370	1310		3130	2900	1150	
24 25	1000 1080	898 899	1130	1220 1220	1240 1250	2400 2160	1290 1280		3080 3180	2150 1830	1150 1140	
26	1120	921		1220	1250	1960	1380		3370	1620	1150	
27	1140	934		1220	1250	2100	1440		3330	1550	1150	
28 29	1010 909	951 959		1220 1220	1250	2320 2340	1420 1400		3290 3260	1500 1480	1150 1140	
30 31	930 903	974				1630	1560		3190	1450 1410	1140 1150	
MEAN MAX	1050 1490	865 974	1050 1150	1210 1220	1240 1250	2070 5020	1380 1570		3640 5990	2140 2980	1220 1500	1150 1200
MIN	862	828	920	1200	1230	1250	1280		2570	1410	1140	1120
CAL YR		MEAN 3300	MAX 11700									
WTR YR		MEAN 1630 IC CONDUCT	MAX 5990 ANCE BOTTO		IEMENS/CM	1 AT 25 DI	EG. C),	WATER YEAR	OCTOBER	2000 TO	SEPTEMBER	2001
WTR YR	SPECIFI	IC CONDUCT	ANCE BOTTO	M (MICROS	DAILY	MEAN VAI	LUES	WATER YEAR				
WTR YR	SPECIFI	IC CONDUCT	ANCE BOTTO			MEAN VAI		MAY	JUN	JUL	AUG	SEP
WTR YR DAY	SPECIFIOCT 1350	IC CONDUCT NOV 855	ANCE BOTTO DEC 978	M (MICROS	DAILY	MEAN VAI MAR 1260	LUES	MAY 1650	JUN 5980	JUL 3000	AUG 1460	SEP 1150
DAY 1 2 3	OCT 1350 1350 1180	NOV 855 847 835	DEC 978	JAN	DAILY FEB 	MEAN VAI MAR 1260 1260 1250	APR	MAY 1650 	JUN 5980 5260 4650	JUL 3000 2740 2570	AUG 1460 1500 1440	SEP 1150 1150 1140
WTR YR DAY 1 2	OCT 1350 1350	NOV 855 847	DEC 978	M (MICROS: JAN 	DAILY FEB 	MEAN VAI MAR 1260 1260	APR	MAY 1650	JUN 5980 5260	JUL 3000 2740	AUG 1460 1500	SEP 1150 1150
DAY 1 2 3 4 5	OCT 1350 1350 1380 1180 1100 1010	NOV 855 847 835 832 831	DEC 978	JAN	DAILY FEB 	MEAN VAI MAR 1260 1260 1250 1250 1250	APR	MAY 1650 	JUN 5980 5260 4650 4420 4200	JUL 3000 2740 2570 2600 2480	AUG 1460 1500 1440 1350 1320	SEP 1150 1150 1140 1130 1120
DAY 1 2 3 4 5	OCT 1350 1350 1180 1100 1010 924 883	NOV 855 847 835 832 831 849 844	DEC 978 920 921	JAN	DAILY FEB	MAR 1260 1260 1250 1250 1250 1250 1270	APR	MAY 1650 	JUN 5980 5260 4650 4420 4200 4070 3870	JUL 3000 2740 2570 2600 2480 2140 2000	AUG 1460 1500 1440 1350 1320	SEP 1150 1150 1140 1130 1120
DAY 1 2 3 4 5	OCT 1350 1350 1180 1100 1010	NOV 855 847 835 832 831	DEC 978 920	JAN	DAILY FEB	MEAN VAI MAR 1260 1260 1250 1250 1250 1260	APR	MAY 1650 	JUN 5980 5260 4650 4420 4200	JUL 3000 2740 2570 2600 2480 2140	AUG 1460 1500 1440 1350 1320	SEP 1150 1150 1140 1130 1120
DAY 1 2 3 4 5 6 7 8	OCT 1350 1350 1180 1100 1010 924 883 924	NOV 855 847 835 832 831 849 844 830	DEC 978 920 921 952	JAN	DAILY FEB	MAR 1260 1260 1250 1250 1250 1250 1250 1260 1270 1290	APR	MAY 1650	JUN 5980 5260 4650 4420 4200 4070 3870 3860	JUL 3000 2740 2570 2600 2480 2140 2000 2120	AUG 1460 1500 1440 1350 1320 1300 1280 1270	SEP 1150 1150 1140 1130 1120 1130 1130 1130
DAY 1 2 3 4 5 6 7 8 9 10 11	OCT 1350 1350 1180 1100 1010 924 883 924 1260 1510	NOV 855 847 835 832 831 849 844 830 827 831	DEC 978 978 920 921 952 987 998	JAN 1220	DAILY FEB	MAR 1260 1250 1250 1250 1250 1250 1260 1270 1290	APR 1310	MAY 1650 3620 3730	JUN 5980 5260 4650 4420 4200 4070 3870 3860 3920 4090	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1130 1130 113
DAY 1 2 3 4 5 6 7 8 9 10	OCT 1350 1350 1180 1100 1010 924 883 924 1260 1510	NOV 855 847 835 832 831 849 844 830 827 831	DEC 978 920 921 952 987 998	JAN	DAILY FEB	MEAN VAI MAR 1260 1250 1250 1250 1270 1290	APR	MAY 1650 3620	JUN 5980 5260 4650 4420 4200 4070 3870 3860 3920 4090	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 1350 1350 1380 1000 1010 924 883 924 1260 1510 1290 1140 1140 1110	NOV 855 847 835 832 831 849 844 830 827 831 835 838 849	DEC 978 920 921 952 987 998 993 1010 1020 1030	JAN 1220 1210 1210 1200	DAILY FEB 1230	MEAN VAI MAR 1260 1250 1250 1250 1250 1260 1270 1290 2470 2170 2100	APR 1310 1350 1320 1290	MAY 1650 3620 3730	JUN 5980 5260 4450 4420 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1200 1190 1180	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190 1200 1170 1120
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070	JAN 1220 1210 1210 1210	DAILY FEB 1230 1230	MEAN VAI MAR 1260 1250 1250 1250 1270 1290 2470 2170 2100 2210	APR 1310 1350 1320 1290 1300	MAY 1650 3620 3730	JUN 5980 5260 4650 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110 2540	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1180 1170	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190 1200 1170 1120
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 1350 1350 1380 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842	DEC 978 920 921 952 987 998 993 1010 1020 1030 1070	JAN 1220 1210 1210 1210	DAILY FEB 1230 1230	MEAN VAI MAR 1260 1250 1250 1250 1250 1260 1270 1290 2470 2170 2100 2210	APR 1310 1350 1320 1300	MAY 1650 3620 3730	JUN 5980 5260 4450 4420 4200 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110 2540	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1190 1170	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1130 1170 1190 1200
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SPECIFI OCT 1350 1350 1380 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 892	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240 1240	MEAN VAI MAR 1260 1250 1250 1250 1250 1270 1290 2470 2170 2100 2210 1490 1560 1910	APR 1310 1350 1320 1290 1300 1330 1330 1380	MAY 1650 3620 3730	JUN 5980 5260 4650 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110 2540 2550 2560 2560	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1180 1170 1160 1160	SEP 1150 1140 1130 1120 1130 1130 1130 1130 1170 1190 1200
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240	MEAN VAI MAR 1260 1260 1250 1250 1250 1270 1270 1290 2470 2170 2100 2210 1490 1560	APR 1310 1350 1320 1290 1300 1300	MAY 1650 3620 3730	JUN 5980 5260 4450 4420 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110 2540 2550	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1170	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190 1200 1170
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	SPECIFI OCT 1350 1350 1380 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 892 873 882	NOV 855 847 835 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 850 855	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1120 1150	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240 1240 1240	MEAN VAI MAR 1260 1250 1250 1250 1250 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090	APR 1310 1350 1320 1290 1300 1330 1330 1580 1530 1410	MAY 1650 3620 3730	JUN 5980 5260 4650 44200 4200 4200 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110 2540 2550 2560 2510 2250 2080	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1180 1170 1160 1160 1160	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 892 873 882 873 882	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 855	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240	MEAN VAI MAR 1260 1250 1250 1250 1250 1260 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670	APR 1310 1350 1320 1290 1300 1300 1300 1300 1300 1310 1300 1330 1530 15	MAY 1650 3620 3730	JUN 5980 5260 4420 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3420 3430	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1810 1750 2110 2540 2550 2250 2080 2100 2660	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 12100 1190 1180 1170 1160 1160 1160 1150	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190 1200
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 8912 873 882 873 882 873 862 900 1000	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 855 860 855	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150 115	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 124	MEAN VAI MAR 1260 1250 1250 1250 1250 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430	APR 1310 1350 1320 1290 1300 1330 1580 1580 1410 1380 1380 1310 1380 1310 1380	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3420 3330 3140 3090	JUL 3000 2740 2570 2600 2480 2140 2050 1980 1890 1810 2750 2110 2540 2550 2250 2080 2100 2660 2920 2160	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1160 1160 1160 1150 1150 1150	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	SPECIFI OCT 1350 1350 1380 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 892 873 882 873 882 873 862 900	NOV 855 847 835 837 831 849 844 830 827 831 835 838 840 841 842 845 846 850 850 855 855 866 875	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240	MEAN VAI MAR 1260 1250 1250 1250 1250 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380	APR 1310 1350 1320 1290 1300 1330 1580 1530 1410 1380 1380 1330 1310	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4200 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3420 3430 3140	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 1750 2110 2540 2550 2560 2510 2250 2080 2100 2660 2920	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1160 1160 1160 1150 1150	SEP 1150 1140 1130 1120 1130 1130 1130 1130 1170 1120
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 8912 873 882 873 882 873 882 900 1000 1080 1120	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 850 855 860 875 896 899	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150 115	JAN JAN 1220 1210 1210 1210 12	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 124	MEAN VAI MAR 1260 1250 1250 1250 1250 1260 1270 1290 2470 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200	APR 1310 1350 1320 1290 1300 1330 1410 1380 1330 1410 1380 1330 1310 1390 1390	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3360 3420 3420 3420 33140 3090 3190 3370	JUL 3000 2740 2570 2600 2480 2140 2050 1980 1890 1810 1750 2110 2540 2550 2560 2510 2250 2080 2100 2660 2920 2160 1850	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1160 1160 1160 1150 1150 1150 1150 11	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	SPECIFI OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 892 873 882 873 882 873 882 900 1000 1080 1120 1140 1010	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 866 875 896 899	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1140 1130	JAN JAN 1220 1210 1210 121	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 124	MEAN VAI MAR 1260 1250 1250 1250 1250 1270 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200 1980 2100 2320	APR	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3420 3330 3140 3090 3190 3370 3370 3370 3370 3370	JUL 3000 2740 2570 2600 2480 2140 2050 1980 1890 1810 2540 2550 2560 2510 2250 2080 2100 2660 2920 2160 1850 1630 1560 1500	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1290 1180 1170 1160 1160 1150 1150 1150 1150 1150 115	SEP 1150 1140 1130 1120 1130 1130 1130 1130 1170 1120
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	SPECIFI OCT 1350 1350 1380 1100 1010 924 883 924 1260 1510 1290 1140 1140 1130 945 915 8912 873 882 873 882 873 882 900 1000 1080 1120 1140 1010 910	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 860 875 860 875 896 899	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150 115	JAN JAN 1220 1210 1210 121	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 124	MEAN VAI MAR 1260 1250 1250 1250 1250 1250 1270 1290 2470 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200 1980 2100 2350	APR	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3360 3420 3420 3420 33140 3090 3190 3370 3340 3340 3340 3340 3340 3340 334	JUL 3000 2740 2570 2600 2480 2140 2050 1980 1890 1810 2540 2550 2550 2550 2250 2080 2100 2660 2920 2160 1850 1630 1560 15600 15600 15600 15600 15600 15600	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1170 1160 1160 1150 1150 1150 1150 1150 115	SEP 1150 1150 1140 1130 1120 1130 1130 1130 1170 1190 1200 1170 11
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	SPECIFI OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1110 1030 945 915 892 873 882 873 882 873 882 900 1000 1080 1120 1140 1010	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 866 875 896 899	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1140 1130	JAN JAN 1220 1210 1210 121	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 124	MEAN VAI MAR 1260 1250 1250 1250 1250 1270 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200 1980 2100 2320	APR	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3420 3330 3140 3090 3190 3370 3370 3370 3370 3370	JUL 3000 2740 2570 2600 2480 2140 2050 1980 1890 1810 2540 2550 2560 2510 2250 2080 2100 2660 2920 2160 1850 1630 1560 1500	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1290 1180 1170 1160 1160 1150 1150 1150 1150 1150 115	SEP 1150 1140 1130 1120 1130 1130 1130 1130 1170 1120
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MEAN	SPECIFI OCT 1350 1350 1380 1100 1010 924 883 924 1260 1510 1290 1140 1140 1140 110 1030 945 915 892 873 882 873 882 873 862 900 1000 1080 1120 1140 1010 911 905	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 855 860 875 860 875 899 921 934 951 934 951 939 974	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150 115	JAN JAN 1220 1210 121	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 1250 1250 1250 1250 1250	MEAN VAI MAR 1260 1250 1250 1250 1250 1250 1260 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200 1980 2100 2320 2350 1640 2090	APR 1310 1350 1320 1290 1300 1330 1410 1380 1530 1410 1380 1310 1310 1380 1410 1380 1310 1380 1410	MAY 1650 3620 3730	JUN 5980 5260 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3340 3390 3140 3390 3190 3370 3340 3390 3190 3650	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 2750 2110 2540 2550 2250 2080 2100 2250 2160 1850 1630 1560 1500 1440 1410 2140	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1160 1160 1150 1150 1150 1150 1150 11	SEP 1150 1150 1150 1140 1130 1120 1130 1130 1170 1190 1200
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MEAN MAX	SPECIFI OCT 1350 1350 1350 1180 1100 1010 924 883 924 1260 1510 1290 1140 1140 1140 1140 110 1030 945 915 892 873 882 873 882 873 882 873 862 900 1000 1080 1120 1140 910 910 911 905	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 855 866 875 896 899 921 934 951 959 974	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150 115	JAN JAN 1220 1210 1210 121	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 124	MEAN VAI MAR 1260 1250 1250 1250 1250 1250 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200 1980 2100 2320 2350 1640 2090 5090	APR 1310 1350 1320 1290 1300 1330 1580 1530 1410 1380 1330 1310 1300 1290 1300 1310 1300 1290 1310 1300 1290 1380 1310 1300 1290 1380 1310 1380 1310 1380 1450 1410 1560 1380	MAY 1650 3620 3730	JUN 5980 5260 4450 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3420 3420 3330 3140 3090 3190 3370 3370 3340 3390 3190 3370 3370 3360 3420 3420 3590 3650 3650 3650 3650	JUL 3000 2740 2570 2600 2480 2140 2050 1980 1890 1810 2540 2550 2560 2510 2250 2080 2100 2660 2920 2160 1850 1630 1560 1500 1480 1410 2140 3000	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1290 1180 1170 1160 1160 1150 1150 1150 1150 1140 1150 1150 115	SEP 1150 1140 1130 1120 1130 1130 1130 1130 1170 1120
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MEAN	OCT 1350 1350 1350 1360 1010 924 883 924 1260 1510 1290 1140 1140 110 1030 945 915 892 873 882 873 862 900 1000 1080 1120 1140 1010 911 905 1050 1510 862	NOV 855 847 835 832 831 849 844 830 827 831 835 838 840 841 842 845 846 850 855 855 860 875 899 921 934 951 934 951 934 951 939 974 865 974 827	PANCE BOTTO DEC 978 920 921 952 987 998 993 1010 1020 1030 1070 1080 1110 1120 1150 1150 1150 1150 1150 115	JAN JAN	DAILY FEB 1230 1230 1240 1240 1240 1240 1240 1240 1240 1250 1250 1250 1250 1250	MEAN VAI MAR 1260 1250 1250 1250 1250 1250 1260 1270 1290 2470 2170 2100 2210 1490 1560 1910 3560 5090 3840 2670 2380 2430 2200 1980 2100 2320 2350 1640 2090	APR 1310 1350 1320 1290 1300 1330 1410 1380 1530 1410 1380 1310 1310 1380 1410 1380 1310 1380 1410	MAY 1650 3620 3730	JUN 5980 5260 44200 4200 4070 3870 3860 3920 4090 4070 3840 3390 3110 3020 2740 2580 3050 3360 3420 3340 3390 3140 3390 3190 3370 3340 3390 3190 3650	JUL 3000 2740 2570 2600 2480 2140 2000 2120 2050 1980 1890 1810 2750 2110 2540 2550 2250 2080 2100 2250 2160 1850 1630 1560 1500 1440 1410 2140	AUG 1460 1500 1440 1350 1320 1300 1280 1270 1260 1240 1220 1190 1180 1170 1160 1160 1150 1150 1150 1150 1150 11	SEP 1150 1150 1150 1140 1130 1120 1130 1130 1170 1190 1200

CAL YR 2000 MEAN 3300 MAX 12100 MIN 688 WTR YR 2001 MEAN 1640 MAX 5980 MIN 827

TEMPERATURE, WATER TOP (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMP	EKAIUKE,	WAIER TOP		, WAIER II Y MEAN VAI		ER 2000 1	O SEPIEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		22.4	15.6					22.9	28.0	28.9		30.3
2	25.0	22.5							27.8	29.2		30.1
3	25.2	22.4							28.0	29.8		30.0
4	25.6	22.5							28.5	30.1		29.8
5	25.8	22.5							29.0	30.2		29.8
6	26.1	22.6	13.9						29.1	30.2	28.7	29.9
7	26.0	22.8	13.5						29.4	30.4	28.9	29.8
8	25.5	22.9	13.8						29.4	30.5	29.2	29.8
9	23.3	22.9	14.3						29.3	30.4	29.9	29.6
10	21.7	22.9	14.6					24.5	28.9	30.3	29.9	29.4
11	21.1	22.0	14.9	9.5			24.2	24.4	28.4	30.1	29.7	29.2
12	21.1	21.5	15.4	9.9		17.7	24.4		28.0	30.1	30.0	28.7
13	21.2	21.4	15.8	10.2		18.1	24.9		28.2	30.0	30.4	28.0
14	21.3	21.2	16.3	10.7	16.7	18.5	25.0		28.5	29.5	30.6	26.8
15	21.4	19.9	16.9	11.1	17.1	19.2	25.2		28.8	29.3	30.4	
16	21.5	19.6	17.4	11.7		20.0	25.1		28.9		30.4	
17	21.7	19.7	17.3	12.3		19.8	24.3		29.0		30.8	
18	21.9	19.3	15.9	12.9		19.0	21.9		29.4		31.1	
19	22.1	18.8	15.1	13.6		18.3	21.5		29.4		31.0	
20	22.2	17.7	13.5	13.7		18.2	21.7		29.7		30.7	
21	22.2	16.8	12.8	12.5		17.8	22.2		30.0		30.8	
22	22.3	15.6	12.6	12.1		17.4	22.7		29.6		30.9	
23	22.2	15.3	12.0	11.7		17.5	23.2		29.2		30.8	
24	22.1	15.5	11.8	11.7		18.0	23.8		29.0		30.7	
25	21.9	16.2		11.5		18.1	23.8		29.3		30.6	
26	21.9	16.3		11.3		18.2	23.0		29.5		30.6	
27	21.9	16.1		11.5		17.8	22.8		29.5		30.5	
28	21.9	15.9		12.1		17.5	23.1		29.0		30.5	
29	22.1	15.8		12.7		17.6	23.2		28.6		30.7	
30	22.4	15.6		13.3		18.1	23.0		28.6		30.8	
31	22.4										30.7	
MEAN	22.8	19.6	14.7	11.8		18.3	23.5		28.9	29.9	30.4	29.4
MAX	26.1	22.9	17.4	13.7		20.0	25.2		30.0	30.5	31.1	30.3
MIN	21.1	15.3	11.8	9.5		17.4	21.5		27.8	28.9	28.7	26.8
CAL YR	2000 M	MEAN 22.3	MAX 30.6	MIN 11.0								

MEAN 22.9 MAX 31.1 MIN 9.5 WTR YR 2001

TEMPERATURE, WATER MIDDLE (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES FEB SEP DAY OCT VOM DEC MAT MAR APR MAY JIII JUL ATIG 24.9 22.3 15.5 21.3 22.8 28.1 28.8 29.6 30.3 2 24.8 25.2 22.4 22.3 ---___ ---21.6 21.8 ___ 29.2 29.7 29.3 28.9 ---27.8 30 0 3 ------------28.0 30.0 25.6 28.4 ------21.6 ---30.0 28.8 29.8 5 25.7 22.4 ---------20.4 ------28.9 30.2 28.8 29.8 6 7 26.1 22.6 13.8 18.2 29.1 30.1 28.6 29.9 ------------26.0 25.5 22.7 22.8 16.7 30.3 29.7 13.5 29.3 28.8 8 13.7 ------16.1 ------29.4 29.1 29.8 q 23.4 22.9 14.2 ------------29.3 30.3 29.7 29.6 ---10 21.6 22.9 ---24.1 29.8 29.4 14.6 28.9 30.3 9.5 29.7 11 21.1 22.0 14.9 24.1 24.1 28.4 30.1 29.2 12 9.9 ---17.5 29.9 30.4 21.1 21.2 15.4 15.8 21.5 24.3 ---28.0 28.8 30.1 13 21.4 10.2 18.1 24.9 28.1 30.0 28.0 14 21.3 21.2 16.3 10.6 16.5 18.4 19.2 25.0 ---28.4 29.5 30.5 26.8 15 21.4 19.9 16.8 17.0 25.2 28.7 29.2 30.4 11.1 19.5 19.7 19.3 17.4 21.4 17.6 25.0 30.3 16 11.6 19.9 28.9 28.9 ---17.3 15.9 24.3 21.6 12.3 18.0 17.7 19.8 28.9 28.9 18 21.8 12.8 19.0 21.8 ---29.3 29.1 31.1 ---21.5 ------19 22.1 18.7 15.1 13.5 17.6 18.3 29.4 29.2 31.0 13.7 21.7 20 22.2 17.8 13.5 17.9 18.2 29.7 29.2 30.7 21 22.2 16.8 12.8 12.5 18.3 17.8 22.1 22.7 29.9 29.1 30.7 ------17.4 17.5 12.1 11.7 11.7 22 22.3 15.6 12.6 18.9 29.6 29.5 30.9 23 22.2 15.3 12.0 18.9 23.1 ---29.2 29.5 30.8 ___ ------24 22.1 15.5 17.9 23.7 29.0 28.9 30.7 11.8 18.8 25 21.9 16.2 23.8 11.5 19.2 18.1 29.2 29.1 30.6 19.8 26 21.9 16.3 11.3 18.1 23.0 29.4 29.5 30.6 ---17.8 17.5 17.6 29.7 29.7 16.1 ---11.5 22.7 ---30.4 28 21.9 15.9 ---12.1 12.7 21.0 23.1 ---29.0 ___ 22.1 ---------29 15.8 ---23.2 28.6 30.2 30.6 22.4 ___ 18.1 23.0 ___ 31 22 3 ___ ___ 30.1 30 7 MEAN 22.8 19.5 14.6 11.8 18.5 18.7 23.4 28.9 29.7 30.1 29.4 22.9 ---MAX 26.1 17.4 13.7 21.0 21.8 25.2 29.9 30.5 31.1 30.3 MIN 21.1 15.3 11.8 9.5 16.1 21.5 27.8 28.8 16.5 28.6 26.8

CAL YR 2000 MEAN 22.7 MAX 30.6 MIN 11.0 WTR YR 2001 MEAN 23.1 MAX 31.1 MIN 9.5

295856081372301 ST. JOHNS RIVER AT SHANDS BRIDGE NEAR GREEN COVE SPRINGS, FL--Continued

TEI	MPERATURE,	WATER	BOTTOM	(DEG.	C),	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
				DATE	Y ME	TAV NA	IES					

	DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	24.9 24.8 25.2 25.6 25.7	22.3 22.4 22.3 22.4 22.4	15.5 	 	 	21.3 21.6 21.8 21.6 20.4	 	22.8 	28.0 27.8 28.0 28.4 28.9	28.8 29.2 29.7 30.0 30.2	29.6 29.3 28.9 28.8 28.8	30.3 30.0 29.9 29.8 29.8	
6 7 8 9 10	26.1 26.0 25.5 23.3 21.6	22.6 22.7 22.8 22.9 22.9	13.8 13.5 13.7 14.2 14.6	 	 	18.2 16.7 16.0 	 	 24.0	29.1 29.2 29.4 29.4 28.9	30.1 30.3 30.4 30.3 30.3	28.6 28.8 29.0 29.6 29.8	29.9 29.7 29.8 29.6 29.4	
11 12 13 14 15	21.1 21.1 21.2 21.3 21.4	22.0 21.5 21.4 21.2 19.9	14.9 15.4 15.8 16.3 16.8	9.5 9.9 10.2 10.6 11.1	 16.4 17.0	17.5 18.1 18.4 19.2	23.9 24.2 24.9 25.0 25.2	24.2 	28.4 28.0 28.1 28.4 28.6	30.1 30.1 30.0 29.5 29.2	29.7 29.9 30.4 30.5 30.4	29.2 28.8 28.0 26.8	
16 17 18 19 20	21.4 21.6 21.8 22.1 22.2	19.5 19.7 19.3 18.7 17.7	17.4 17.3 15.9 15.0 13.5	11.6 12.2 12.8 13.5 13.7	17.6 18.0 17.7 17.6 17.9	19.9 19.8 19.0 18.3 18.2	25.0 24.2 21.7 21.5 21.6	 	28.9 28.9 29.3 29.4 29.7	28.9 28.9 29.1 29.2 29.2	30.3 30.7 31.0 31.0 30.7	 	
21 22 23 24 25	22.2 22.3 22.2 22.1 21.9	16.8 15.5 15.3 15.5 16.2	12.8 12.6 12.0 11.8	12.5 12.1 11.7 11.7 11.5	18.3 18.8 18.9 18.7 19.2	17.8 17.4 17.5 17.9 18.1	22.1 22.7 23.1 23.7 23.7	 	29.9 29.6 29.2 29.0 29.1	29.1 29.5 29.5 28.9 29.1	30.7 30.9 30.8 30.7 30.6		
26 27 28 29 30 31	21.9 21.9 21.9 22.1 22.4 22.3	16.3 16.1 15.9 15.8 15.6	 	11.3 11.5 12.1 12.6 13.2	19.8 20.2 20.9 	18.1 17.7 17.5 17.6 18.0	23.0 22.7 23.1 23.2 23.0	 	29.4 29.5 29.0 28.6 28.6	29.5 29.7 29.7 30.2 30.4 30.1	30.6 30.4 30.4 30.6 30.7	 	
MEAN MAX MIN	22.8 26.1 21.1	19.5 22.9 15.3	14.6 17.4 11.8	11.8 13.7 9.5	18.5 20.9 16.4	18.7 21.8 16.0	23.4 25.2 21.5	 	28.9 29.9 27.8	29.7 30.4 28.8	30.1 31.0 28.6	29.4 30.3 26.8	

CAL YR 2000 MEAN 22.4 MAX 30.6 MIN 11.0 WTR YR 2001 MEAN 23.1 MAX 31.0 MIN 9.5

OXYGEN DISSOLVED TOP (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAIL.	I MEAN VAI	TOES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.2 8.2 8.1 7.9	7.6 7.0 6.8 6.7 6.6	8.2 	 	 	 	 	10.1	6.4 6.5 6.7 6.9	5.8 5.9 6.5 7.1 6.9	 	5.0 4.9 5.4 5.5 5.5
6 7 8 9 10	7.5 7.4 7.6 8.3 8.7	6.7 6.8 6.7 6.7	9.2 9.2 9.3 8.9 8.8	 	 	 	 	 8.1	6.7 6.6 6.4 6.3	6.4 6.5 6.7 6.2 6.0	5.8 5.9 6.2 6.5 5.8	5.3 5.2 5.5 5.7 5.0
11 12 13 14 15	8.9 8.9 8.9 9.0 8.9	7.2 7.3 7.2 7.2 7.6	8.7 8.5 8.4 8.3 8.2	10.8 11.2 11.4 11.3 11.4	 10.3 10.5	10.3 10.0 9.9 9.6	9.1 9.2 9.2 8.9 9.0	7.8 	6.4 6.5 6.5 6.6 7.1	6.0 6.2 6.3 6.6 7.0	5.1 5.3 5.3 5.0 4.7	4.7 5.4 5.9 6.6
16 17 18 19 20	8.7 8.5 8.3 8.2 8.0	7.7 7.5 7.7 7.9 8.3	8.1 8.3 8.5 8.7	11.4 11.5 11.3 11.4 11.1	 	9.1 9.0 9.0 8.9 9.0	9.2 9.4 9.7 9.9 10.0	 	7.3 7.4 7.5 7.2 6.9	 	4.8 5.2 5.1 5.0 4.3	
21 22 23 24 25	8.1 8.1 8.3 8.5 8.4	8.5 8.8 8.6 8.5	8.8 8.9 9.2 9.4	11.1 11.2 11.4 11.5 11.7	 	9.0 9.1 9.1 9.2 9.0	10.1 10.2 10.0 9.8 9.5	 	6.7 6.4 6.2 6.4 6.9	 	4.3 4.6 5.1 5.4 5.1	
26 27 28 29 30 31	8.2 8.0 7.8 7.7 7.6 7.4	8.3 8.2 8.2 8.2 8.2	 	11.8 11.9 11.8 12.0 11.5	 	9.2 9.3 9.3 9.0 8.7	9.8 10.1 10.2 10.0 10.0	 	7.0 6.7 6.3 5.9 5.8	 	5.9 6.1 6.1 5.8 5.7 5.5	
MEAN MAX MIN	8.2 9.0 7.4	7.6 8.8 6.6	8.7 9.4 8.1	11.4 12.0 10.8		9.2 10.3 8.7	9.7 10.2 8.9		6.6 7.5 5.8	6.4 7.1 5.8	5.4 6.5 4.3	5.4 6.6 4.7

CAL YR 2000 MEAN 7.8 MAX 10.0 MIN 4.8 WTR YR 2001 MEAN 7.9 MAX 12.0 MIN 4.3

295856081372301 ST. JOHNS RIVER AT SHANDS BRIDGE NEAR GREEN COVE SPRINGS, FL--Continued

		O	XYGEN DISS	OLVED MIDI), WATER : MEAN VAI		BER 2000 T	O SEPTEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	7.7 8.1	7.2 6.9	8.0			8.9 8.8		10.0	6.4 6.6	5.7 5.8	6.0 6.1	4.8
3 4 5	8.2 8.1 7.8	6.6 6.4 6.4				8.3 7.9 8.1			6.8 6.9 6.9	6.3 6.8 6.8	6.2 6.0 5.8	5.2 5.3 5.4
6	7.4	6.5	9.1			8.7			6.7	6.2	5.8	5.2
7 8 9	7.3 7.6 8.3	6.6 6.5 6.6	9.0 9.0 8.7			9.1 9.1			6.5 6.4 6.4	6.2 6.5 6.0	5.6 5.6 6.0	4.9 5.3 5.5
10	8.6	6.7	8.6					7.8	6.3	5.9	5.6	4.9
11 12 13	8.8	7.0 7.1	8.5 8.3	10.7 11.1		10.1 9.9	8.9 9.0	7.7 	6.3 6.5	5.9 6.1	5.0	4.7 5.3
13 14 15	8.9 8.9 8.8	7.0 7.1 7.4	8.2 8.1 8.0	11.3 11.3 11.3	10.2	9.9 9.7 9.4	9.1 8.8 8.9		6.6 6.5 6.9	6.2 6.6 6.8	5.0 4.8 4.6	5.8 6.6
16	8.5	7.5	7.9	11.4	10.2	9.0	9.1		7.2	7.0	4.6	
17 18 19	8.4 8.2 8.0	7.3 7.5 7.7	7.9 8.1 8.3	11.5 11.4 11.4	9.9 9.9 10.0	8.8 8.7 8.7	9.4 9.6 9.8		7.3 7.4 7.0	6.9 6.7 6.3	4.9 4.9 4.9	
20	7.9	8.1	8.4	11.1	9.9	8.8	10.0		6.8	6.0	4.2	
21 22 23	8.0 8.0 8.2	8.3 8.6 8.4	8.6 8.7 9.0	11.0 11.1 11.3	9.8 9.6 9.4	8.8 8.8 8.9	10.0 10.1 9.9		6.6 6.3 6.2	6.0 6.8 6.8	4.2 4.5 5.0	
24 25	8.4	8.3	9.2	11.5 11.6	9.3	8.9 8.9	9.7 9.4		6.3	6.5 6.3	5.2 5.0	
26 27	8.1 7.9	8.1 8.0		11.8 11.8	9.1 9.0	9.0 9.2	9.7 10.0		6.8 6.6	6.7 6.4	5.8 5.8	
28 29	7.7 7.5	8.0 7.9		11.9 12.1	9.0	9.3 9.0	10.1 10.0		6.2 5.8	6.1 6.4	5.8 5.6	
30 31	7.4 7.2	7.9 		11.7		8.6 	10.0		5.7 	6.1 5.7	5.5 5.3	
MEAN MAX	8.1 8.9	7.4 8.6	8.5 9.2	11.4 12.1	9.7 10.2	8.9 10.1	9.6 10.1		6.6 7.4	6.3 7.0	5.3 6.2	5.3 6.6
MIN CAL YR	7.2	6.4 AN 7.4	7.9 MAX 10.0	10.7 MIN 4.6	9.0	7.9	8.8		5.7	5.7	4.2	4.7
WTR YR	2001 ME	AN 7.7	MAX 12.1	MIN 4.2								
WTR YR	2001 ME		MAX 12.1), WATER : MEAN VAI		3ER 2000 T	O SEPTEMB	ER 2001		
DAY	OCT	O. NOV	XYGEN DISS	OLVED BOTT	DAILY FEB	MEAN VAI	LUES APR	MAY	JUN	JUL	AUG	SEP
DAY 1 2	OCT 7.7 7.9	NOV 7.1 6.8	XYGEN DISS	OLVED BOTT	DAILY	MEAN VAI MAR 8.9 8.8	LUES		JUN 6.3 6.5	JUL 5.7 5.7	5.9 6.0	4.7 4.6
DAY 1	OCT 7.7	02 NOV 7.1	XYGEN DISSO DEC 7.9	OLVED BOTT	DAILY FEB 	MEAN VAI MAR 8.9	APR	MAY 10.0	JUN 6.3	JUL 5.7	5.9	4.7
DAY 1 2 3 4 5	OCT 7.7 7.9 7.9 7.8 7.5 7.1	NOV 7.1 6.8 6.5 6.3 6.3	DEC 7.9 8.9	JAN	DAILY FEB	MAR 8.9 8.8 8.4 8.0 8.2	APR	MAY 10.0 	JUN 6.3 6.5 6.7 6.8 6.9	JUL 5.7 5.7 6.1 6.7 6.6	5.9 6.0 6.1 5.9 5.7	4.7 4.6 5.0 5.2 5.2
DAY 1 2 3 4 5 6 7 8 9	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5	DEC 7.9 8.9 9.0 8.9 8.6	JAN	DAILY FEB	MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1	APR	MAY 10.0	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.1 6.4 5.9	5.9 6.0 6.1 5.7 5.7 5.5 5.8	4.7 4.6 5.0 5.2 5.2 5.2 5.2 5.0 4.7 5.2 5.4
DAY 1 2 3 4 5 6 7 8 9 10	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 6.7	TYGEN DISS	JAN	DAILY FEB	MEAN VAL MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1	APR	MAY 10.0 7.7	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3 6.3	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.1 6.4 5.9 5.8	5.9 6.1 5.9 5.7 5.5 5.5 5.8 5.4	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5	DEC 7.9 8.9 9.0 8.9 8.6	JAN 10.6 11.0 11.2	DAILY FEB	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8	APR	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.0 6.2	5.9 6.0 6.1 5.7 5.7 5.5 5.8	4.7 4.6 5.0 5.2 5.2 5.2 5.2 5.0 4.7 5.2 5.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.6	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 6.7 7.0	7.9 8.9 9.0 8.9 8.6 8.5 8.4 8.3	JAN 10.6 11.0	DAILY FEB	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1	APR 8.7 9.1	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3 6.3 6.3	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.1 6.4 5.9 5.8 6.0	5.9 6.0 6.1 5.9 5.7 5.5 5.5 5.8 4.9 4.9	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4 4.8
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.6 8.7 8.7	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 7 7.0 7.1 6.9 7.0	XYGEN DISS DEC 7.9 8.9 9.0 8.9 9.6 8.5 8.4 8.3 8.1 8.1	JAN 10.6 11.0 11.2 11.3	DAILY FEB	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6	APR 8.7 9.1 9.2 8.8	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3 6.3 6.5 6.5	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.0 6.2 6.5	5.9 6.0 6.1 5.9 5.7 5.5 5.8 5.4 4.9 4.9 4.7	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4 4.8 4.5 5.2 5.7 6.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.7 8.7 8.6 8.3 8.2 8.0 7.9	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.7 7.0 7.1 6.9 7.0 7.3 7.4 7.3 7.5	XYGEN DISSI DEC 7.9 8.9 9.0 8.6 8.5 8.4 8.3 8.1 7.9 7.8 7.8 8.0 8.2	JAN 10.6 11.0 11.2 11.3 11.4 11.4 11.3 11.4	DAILY FEB 10.0 10.1 10.0 9.7 9.7	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.9	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3 6.3 6.5 6.5 6.7 7.2 7.1 7.2 6.9	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.2 6.5 6.8 6.9 6.8 6.9 6.5 6.2	5.9 6.1 5.9 5.7 5.5 5.8 4.9 4.9 4.7 4.5 4.7 4.7	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4 4.8 4.5 5.2 5.7 6.5
DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 7.7 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.7 8.7 8.6 8.3 8.2 8.0 7.9 7.8	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 7 7.0 7.1 6.9 7.0 7.3 7.4 7.3 7.5 7.7 8.0	XYGEN DISS DEC 7.9 8.9 9.0 8.9 8.6 8.5 8.4 8.3 8.1 7.9 7.8 8.0 8.2 8.3	JAN 10.6 11.0 11.2 11.3 11.4 11.4 11.1	DAILY FEB 10.0 10.1 10.0 9.7 9.7 9.9 9.8	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.9	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8 9.9	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3 6.3 6.5 6.5 6.7 7.2 7.2 6.9 6.7	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.0 6.2 6.5 6.8 6.9 6.8 6.5 6.2 5.9	5.9 6.1 5.7 5.5 5.5 5.4 4.9 4.8 4.7 4.5 4.7 4.7 4.7	4.7 4.6 5.0 5.2 5.2 5.2 5.2 5.4 4.8 4.5 5.2 5.7 6.5
DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 7.7 7.9 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.7 8.7 8.6 8.3 8.2 8.0 7.9 7.8 7.9 8.0 8.1	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 6.7 7.0 7.1 6.9 7.0 7.3 7.4 7.3 7.5 7.7 8.0 8.2 8.5 8.4	XYGEN DISS DEC 7.9 8.9 9.0 8.9 9.0 8.5 8.4 8.3 8.1 7.9 7.8 8.0 8.2 8.3 8.5 8.6 8.9	JAN 10.6 11.0 11.2 11.3 11.4 11.4 11.3 11.4 11.1 10.9 11.1	DAILY FEB 10.0 10.1 10.0 9.7 9.7 9.9 9.8 9.7 9.5 9.4	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.8 8.7 8.6 8.7 8.6 8.7 8.7 8.7	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8 9.9 10.0 10.0 9.9	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.4 6.3 6.3 6.3 6.5 6.5 6.7 7.2 7.2 6.9 6.7 6.5 6.7	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.0 6.2 6.5 6.8 6.9 6.2 5.9 6.0 6.7 6.7	5.9 6.1 5.7 5.7 5.5 5.8 4.9 4.8 4.7 4.7 4.7 4.7 4.1 4.0 4.9	4.7 4.6 5.0 5.2 5.2 5.2 5.4 4.8 4.5 5.2 5.7 6.5
DAY 1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 7.7 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.7 8.6 8.3 8.2 8.0 7.9 7.8 7.9 8.0	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 6.7 7.0 7.1 6.9 7.3 7.4 7.3 7.5 7.7 8.0 8.2	XYGEN DISS DEC 7.9 8.9 9.0 8.9 8.6 8.5 8.4 8.3 8.1 7.9 7.8 8.0 8.2 8.3 8.5 8.6	JAN 10.6 11.0 11.2 11.3 11.4 11.4 11.3 11.4 11.1 10.9 11.1	DAILY FEB 10.0 10.1 10.0 9.7 9.7 9.9 9.8 9.7 9.5	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.6 9.3 8.9 8.8 8.7 8.6 8.6 8.7	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8 9.9	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.3 6.3 6.3 6.5 6.5 6.7 7.2 7.1 7.2 6.9 6.7	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.0 6.2 6.5 6.8 6.9 6.8 6.9 6.7	5.9 6.1 5.9 5.7 5.5 5.8 4.9 4.7 4.5 4.7 4.7 4.1 4.3	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4 4.8 4.5 5.2 6.5
DAY 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	OCT 7.7 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.6 8.7 8.7 8.6 8.3 8.2 8.0 7.9 7.8 7.9 7.8 7.9 8.1 8.3 8.3 8.1 7.9	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 6.7 7.0 7.1 6.9 7.3 7.4 7.3 7.5 7.7 8.0 8.2 8.4 8.2 8.0 7.9	XYGEN DISS DEC 7.9 8.9 9.0 8.6 8.5 8.4 8.3 8.1 7.9 7.8 8.0 8.2 8.3 8.5 8.6 8.9 9.1	JAN 10.6 11.0 11.2 11.3 11.3 11.4 11.4 11.1 10.9 11.1 11.3 11.4 11.1 11.3 11.4 11.1 11.3	DAILY FEB 10.0 10.1 10.0 9.7 9.7 9.9 9.8 9.7 9.5 9.4 9.2 9.2 9.1	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.7 8.6 8.7 8.7 8.7 8.7 8.8 8.8	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8 9.9 10.0 10.0 9.9 9.7 9.4	MAY 10.0 7.7 7.6	JUN 6.3 6.7 6.8 6.9 6.6 6.3 6.3 6.3 6.5 6.5 6.7 7.2 7.1 7.2 6.7 6.5 6.7 6.6 6.7 6.6	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.2 6.5 6.8 6.9 6.5 6.9 6.7 6.7 6.4 6.2 6.6 6.3	5.0 6.1 5.7 5.5 5.8 4.9 4.7 4.5 4.7 4.7 4.1 4.3 4.9 4.8 4.7 4.1 4.3 4.9 4.8 5.7	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4 4.8 4.5 5.7 6.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	OCT 7.7 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.7 8.7 8.6 8.3 8.2 8.0 7.9 7.8 7.9 8.0 8.1 8.3 8.1 7.9 7.4	NOV 7.1 6.5 6.3 6.5 6.5 6.5 6.7 7.0 7.1 6.9 7.3 7.4 7.3 7.7 8.0 8.2 8.5 8.4 8.2 8.0 7.9 7.8	XYGEN DISSI DEC 7.9 8.9 9.0 8.9 8.6 8.5 8.4 8.3 8.1 7.9 7.8 7.8 8.0 8.2 8.3 8.5 8.6 8.9 9.1	JAN 10.6 11.0 11.2 11.3 11.4 11.4 11.1 10.9 11.1 11.3 11.4 11.1 10.9 11.1 11.3 11.4 11.1	DAILY FEB	MEAN VAL MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.8 8.7 8.6 8.7 8.7 8.8 8.8	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8 9.9 10.0 10.0 9.7 9.4 9.7 9.9	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.3 6.3 6.3 6.3 6.5 6.5 6.7 7.2 7.1 7.2 6.9 6.7 6.5 6.7 6.6 6.7 6.6 6.7 6.6 6.7 6.6 6.7 6.6 6.7 6.6 6.7	JUL 5.7 5.7 6.1 6.7 6.6 6.1 6.4 5.9 5.8 6.2 6.5 6.8 6.9 6.5 6.2 5.9 6.7 6.4 6.2 6.3 5.9 6.3	5.0 6.1 5.7 5.5 5.8 4.9 4.7 4.7 4.7 4.1 4.3 9.0 8.6 7.5 5.4 9.0 8.6 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	4.7 4.6 5.0 5.2 5.2 5.2 5.4 4.7 5.2 5.4 4.8 4.5 5.7 6.5
DAY 1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	OCT 7.7 7.9 7.8 7.5 7.1 7.0 8.4 8.6 8.6 8.7 8.6 8.3 8.2 8.0 7.9 7.8 7.9 8.0 8.1 8.3 8.1 7.9 7.4 7.4 7.2	NOV 7.1 6.5 6.3 6.5 6.5 6.5 6.7 7.0 7.1 6.9 7.3 7.4 7.3 7.7 8.0 8.2 8.5 8.4 8.2 8.0 7.9 7.8 7.8 7.8	XYGEN DISS DEC 7.9 8.9 9.0 8.6 8.5 8.4 8.3 8.1 7.9 7.8 7.8 8.0 8.2 8.3 8.5 8.6 8.9 9.1	JAN 10.6 11.0 11.2 11.3 11.4 11.4 11.1 10.9 11.1 11.3 11.4 11.1 10.9 11.1 11.3 11.4 11.1	DAILY FEB 10.0 10.1 10.0 9.7 9.7 9.9 9.8 9.7 9.5 9.4 9.2 9.2 9.1 9.0 9.0	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.7 8.6 8.7 8.7 8.8 8.8 8.9 9.1 8.8 8.9	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.2 9.9 10.0 10.0 9.7 9.4 9.7 9.9 10.1 9.9 9.9	MAY 10.0 7.7 7.6	JUN 6.3 6.5 6.7 6.8 6.9 6.6 6.3 6.3 6.3 6.3 6.5 6.7 7.2 7.1 7.2 6.9 6.7 6.5 6.7 6.6 6.7 6.6 6.2 5.8 5.6	JUL 5.7 5.7 6.1 6.6 6.1 6.4 5.9 5.8 6.2 6.5 6.9 6.5 6.9 6.7 6.4 6.2 6.3 5.9 6.3 6.6 5.6	5.0 6.1 5.7 5.5 5.8 4.9 4.7 4.7 4.7 4.1 4.3 5.3 5.5 5.4 4.7 5.5 5.5 5.5 4.7 7.5 5.5 5.5 5.6 4.7 7.5 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5	4.7 4.6 5.0 5.2 5.2 5.2 5.2 5.4 4.8 4.5 5.2 5.7 6.5
DAY 1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT 7.7 7.9 7.8 7.5 7.1 7.0 7.3 8.0 8.4 8.6 8.6 8.7 8.7 8.6 8.3 8.2 8.0 7.9 7.8 7.9 7.8 7.9 7.4 7.4 7.4	NOV 7.1 6.8 6.5 6.3 6.5 6.5 6.5 7 7.0 7.1 6.9 7.3 7.4 7.3 7.5 7.7 8.0 8.2 8.4 8.2 8.0 7.9 7.8	XYGEN DISS DEC 7.9 8.9 9.0 8.6 8.5 8.4 8.3 8.1 7.9 7.8 8.0 8.2 8.3 8.5 8.6 8.9 9.1	JAN 10.6 11.0 11.2 11.3 11.3 11.4 11.1 10.9 11.1 11.3 11.4 11.1 10.9 11.1 11.3 11.4 11.1 10.9 11.1 11.3 11.4 11.7 11.8 11.8 12.0 11.7	DAILY FEB	MEAN VAI MAR 8.9 8.8 8.4 8.0 8.2 8.7 9.0 9.1 10.1 9.8 9.6 9.3 8.9 8.7 8.7 8.7 8.7 8.7 8.7 8.8 8.8 8.9 9.1 8.8 8.9 9.1 8.8 8.9	APR 8.7 9.1 9.2 8.8 8.9 9.1 9.3 9.6 9.8 9.9 10.0 10.0 9.9 9.7 9.4 9.7 9.9 10.1 9.9 9.9	MAY 10.0 7.7 7.6	JUN 6.3 6.7 6.8 6.9 6.64 6.3 6.3 6.5 6.5 7.2 7.1 7.2 6.7 6.3 6.2 6.6 6.2 5.6	JUL 5.7 6.1 6.6 6.1 6.4 5.9 5.8 6.2 6.5 6.9 6.7 7 6.7 6.7 6.2 6.3 5.9 6.7 6.4 6.2 6.3 5.9 6.0 6.3 5.9 6.0	5.00 6.00 6.00	4.7 4.6 5.0 5.2 5.2 5.0 4.7 5.2 5.4 4.8 4.5 5.7 6.5

CAL YR 2000 MEAN 7.4 MAX 10.0 MIN 4.5 WTR YR 2001 MEAN 7.6 MAX 12.0 MIN 4.0

02245500 SOUTH FORK BLACK CREEK NEAR PENNEY FARMS, FL

LOCATION.--Lat $29^{\circ}58'45"$, long $81^{\circ}51'08"$, in NE $^{1}_{4}$ sec.13, T.6 S., R.24 E., Clay County, Hydrologic Unit 03080103, on right bank at upstream side of bridge on State Highway 16, 0.7 mi downstream from Greens Creek, 2.5 mi west of Penney Farms, 9.5 mi west of Green Cove Springs, and 24 mi upstream from mouth of Black Creek.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 9.82 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to July 18, 1940, nonrecording gage at same site and datum.

REMARKS .-- Records poor .

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e125 e110 98 73 66	26 26 25 25 25	33 32 31 31 30	35 33 32 32 31	48 63 70 63 68	22 22 21 29 46	167 153 101 75 61	13 13 13 12 12	8.8 8.9 8.9 8.9	25 40 25 18 16	104 102 100 109 130	55 72 316 205 364
6 7 8 9 10	61 63 66 61 55	24 24 24 23 23	e29 e29 e29 e29 e28	31 30 30 29 28	54 45 40 37 35	34 27 24 23 27	53 46 40 34 29	11 11 14 14 12	9.0 9.2 14 10 11	14 13 15 17 18	372 344 207 132 92	180 172 165 106 89
11 12 13 14 15	50 46 43 41 39	22 22 22 22 22 23	e28 e28 e28 e28 28	28 29 29 28 28	34 33 32 32 31	29 26 26 30 26	25 22 20 18 18	11 11 12 11	16 33 58 29 19	19 16 14 30 23	65 50 67 44 39	77 86 144 476 1930
16 17 18 19 20	35 32 30 29 31	23 23 23 22 24	29 30 28 28 28	28 27 27 27 42	30 28 27 26 25	106 186 102 148 400	16 14 13 13	11 11 11 11	15 14 13 12 59	16 14 14 17 e21	51 51 85 76 60	1700 878 474 286 213
21 22 23 24 25	39 36 34 37 38	24 23 24 24 58	28 29 28 28 28	46 39 36 36 33	25 25 24 24 26	481 296 184 129 100	12 12 13 13 15	11 e11 e11 e11 e10	29 19 18 24 18	e18 e16 e15 e14 e17	39 29 24 21 19	168 149 e136 e122 e109
26 27 28 29 30 31	39 37 33 31 29 28	76 65 49 40 37	28 28 36 67 47 38	30 29 29 28 28 33	25 24 23 	92 79 67 62 98 124	25 20 17 15 14	e10 e10 e10 e12 e11 e10	14 13 18 34 39	e15 e30 86 58 64 72	18 16 19 21 23 52	e97 e88 e80 e73 e68
TOTAL MEAN MAX MIN CFSM IN.	1535 49.5 125 28 .37 .43	891 29.7 76 22 .22	969 31.3 67 28 .23 .27	971 31.3 46 27 .23 .27	1017 36.3 70 23 .27 .28	3066 98.9 481 21 .74 .85	1087 36.2 167 12 .27	353 11.4 14 10 .08	591.6 19.7 59 8.8 .15	790 25.5 86 13 .19	2561 82.6 372 16 .62 .71	9078 303 1930 55 2.26 2.52
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1940	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	167 633 1948 21.1 1978	87.8 484 1948 18.1 1941	123 859 1998 23.9 1991	140 442 1970 30.5 1957	174 808 1998 34.0 1957	181 666 1948 34.5 1956	120 563 1997 22.7 1968	81.8 747 1959 11.4 2001	107 334 1965 16.2 1955	154 530 1960 21.5 1977	224 885 1953 15.9 1993	233 770 1988 14.0 1990
SUMMARY	STATISTI	CS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1940	- 2001
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC 50 PERC				28653.8 78.3 3800 9.7 10 .58 7.95 131 29 12	Sep 10 May 11- May 19	13	22909.6 62.8 1930 8.8 8.9 2490 15.02 b8.6 .47 6.36 109 29	Sep 15 Jun 1 Jun 1 Sep 15 Sep 15		149 302 52.0 10300 8.8 8.9 a13900 a26.33 b8.6 1.11 15.14 311 70 28	Jun Jun Oct 1	1948 1990 21 1959 1 2001 1 2001 19 1944 19 1944

e Estimated a From floodmarks and rating curve extended above 11,000 $\rm ft^3/s$ b May 31, Jun 1, 2001

02246000 NORTH FORK BLACK CREEK NEAR MIDDLEBURG, FL

LOCATION.--Lat $30^{\circ}06^{\circ}47^{\circ}$, long $81^{\circ}54^{\circ}24^{\circ}$, in $NE^{1/2}_{4}$ sec.33, T.4 S., R.24 E., Clay County, Hydrologic Unit 03080103, on left bank 0.3 mi upstream from Big Branch, 4 mi northwest of Middleburg, and 7.5 mi upstream from confluence with South Fork.

DRAINAGE AREA.--177 mi².

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 852: 1933 (m). WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 0.62 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Mar. 31, 1933, nonrecording gage at site 0.4 mi downstream at different datum. Mar. 31, 1933 to Apr. 28, 1955, nonrecording gage at present site and datum.

REMARKS.--Records fair. Stage-discharge relation affected by tide on many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1919 reached a stage of 25.3 ft, from information by local resident, discharge 15,000 ft³/s.

		DISCHAR	GE, CUBIC	FEET PER		VATER YE. MEAN VA	AR OCTOBER LUES	2000 TO) SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	200 181 132 107 92	43 40 37 36 36	43 44 47 52 49	56 50 46 44 42	50 58 61 59 69	38 47 39 52 113	109 87 67 60 54	13 13 12 12 11	5.6 5.5 4.8 4.1 4.0	56 47 45 49 62	433 479 326 276 243	106 249 575 707 804
6 7 8 9 10	81 119 135 123 108	43 38 35 33 29	45 41 37 34 34	41 38 37 36 34	61 52 46 42 38	74 57 47 40 39	50 44 39 36 33	11 12 19 16 12	4.1 5.4 26 35 27	46 35 30 28 25	560 615 458 335 208	837 650 473 359 266
11 12 13 14 15	88 72 64 60 55	30 37 38 35 32	35 35 35 36 34	34 34 36 36 35	36 34 33 33 32	45 41 41 43 40	31 28 25 23 22	9.6 8.4 9.1 11 8.6	30 50 72 50 47	24 22 24 133 230	126 93 103 130 98	211 232 520 1270 3710
16 17 18 19 20	50 47 45 47 52	32 29 28 32 37	34 36 36 37 37	34 33 33 31 31	31 30 30 28 27	44 70 62 104 309	21 19 18 17 17	7.4 7.7 8.1 6.7 6.3	46 40 37 40 42	92 57 48 44 41	76 64 167 296 323	4720 2120 1110 675 450
21 22 23 24 25	57 56 57 68 67	31 28 27 28 53	36 36 35 34 34	32 32 31 33 31	26 26 25 25 26	333 205 155 115 88	16 16 15 15	6.1 5.9 5.6 5.2 4.8	44 43 48 50 46	115 143 102 99 108	215 133 95 74 61	332 262 292 314 275
26 27 28 29 30 31	65 65 59 52 53 47	86 68 56 49 45	34 34 37 69 69	30 29 29 28 29 34	26 26 28 	88 83 70 67 116 139	19 18 15 14 14	4.8 5.1 5.1 7.2 14 7.5	40 36 37 43 63	70 54 66 66 72 113	55 50 39 35 34 38	249 200 183 169 162
TOTAL MEAN MAX MIN CFSM IN.	2504 80.8 200 45 .46 .53	1171 39.0 86 27 .22 .25	1260 40.6 69 34 .23	1099 35.5 56 28 .20	1058 37.8 69 25 .21	2804 90.5 333 38 .51 .59	958 31.9 109 14 .18 .20	285.2 9.20 19 4.8 .05 .06	1025.5 34.2 72 4.0 .19 .22	2146 69.2 230 22 .39 .45	6238 201 615 34 1.14 1.31	22482 749 4720 106 4.23 4.73
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	R WATER Y	EARS 1932	- 2001,	BY WATER	YEAR (W	<i>(</i>)			
MEAN MAX (WY) MIN (WY)	244 1087 1948 15.0 1932	96.5 662 1948 8.69 1932	136 667 1998 13.7 1932	166 540 1964 13.1 1932	239 1288 1998 14.3 1932	236 1310 1959 21.0 1935	140 627 1973 8.98 1935	92.7 816 1964 7.14 1935	130 681 1934 6.50 1935	188 611 1991 14.8 1990	288 1038 1968 7.25 1954	329 1489 1964 15.1 1990
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR	3	WATER YE	ARS 1932	- 2001
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM INSTANTA ANNUAL I ANNUAL I 10 PERCI 50 PERCI	MEAN ANNUAL MANNUAL ME DAILY ME	CAN CAN LAN LAN LAN LAN LAN LAN LAN LAN LAN L		30289.5 82.8 1260 2.9 3.8 .47 6.37 165 35 9.2	Sep 10 Jun 19 Jun 14		4720 4.0 4.8 5770 18.47 3.7 .67 9.04 236 43	Jun 4	5 L 5	190 440 50.4 11200 2.9 3.8 12700 24.69 2.6 1.07 14.59 407 71 21	Jun 1 Jun 1 Oct Oct Jun 19,	1948 1955 30 1968 19 2000 14 2000 4 1992 4 1992 20 2000

02246010 NORTH FORK BLACK CREEK AT MIDDLEBURG, FL

LOCATION.--Lat $30^{\circ}04^{\circ}31^{\circ}$, long $81^{\circ}51^{\circ}51^{\circ}$, in SW^{1}_{4} sec.12, T.5 S., R.24 E., Clay County, Hydrologic Unit 03080103, at downstream side of upstream bridge on State Highway 21, 0.5 mi north of Middleburg, 1.5 mi upstream from confluence with South Fork, and 14 mi upstream from mouth of Black Creek.

DRAINAGE AREA. -- 197 mi².

PERIOD OF RECORD.--October 1981 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 9.80 ft below sea level. Prior to Feb. 28, 1986, at site 50 ft downstream at present datum.

REMARKS.--Stage affected by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.37 ft, Oct. 4, 1992, from peak stage indicator; minimum, 9.34 ft, Dec. 23, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.90 ft, Sept. 16; minimum, 10.09 ft, March 5.

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 1 13.48 12.68 11.81 11.20 10.98 11.58 11.38 11.83 11.70 11.85 12.48 11.92 2 13.33 12.62 12.00 11.17 10.97 11.57 11.40 11.85 11.56 11.74 12.56 11.99 3 13.03 12.55 12.44 11.29 11.05 11.29 11.45 11.83 11.41 11.66 12.36 12.29 4 12.90 12.52 12.71 11.28 11.31 11.24 11.30 11.29 11.45 11.80 11.34 11.59 12.17 12.53 5 12.70 12.56 11.27 11.45 10.73 11.78 11.80 11.34 11.59 12.17 12.53 6 12.48 12.81 11.10 11.31 10.72 11.89 11.82 11.28 11.40 12.28 12.45 7 12.41 12.64 11.24 11.30 11.20 11.68 12.16 11.26 11.41 12.29 12.61 8 12.66 12.47 11.27 11.34 11.67 11.51 12.46 11.31 11.59 12.26 12.73 9 12.98 12.43 11.09 11.34 11.82 11.46 12.31 11.41 11.53 12.19 12.67 10 12.97 12.26 11.29 11.24 11.99 11.50 12.12 11.58 11.60 12.01 12.43 11 12.75 12.38 11.43 11.22 12.23 11.60 11.96 11.64 11.60 12.01 12.43 11 12.75 12.38 11.45 11.60 12.11 11.62 11.77 11.70 11.55 11.71 12.51 13 12.67 12.68 11.45 11.60 12.11 11.62 11.77 11.70 11.55 11.71 12.51 13 12.67 12.68 11.45 11.60 12.11 11.62 11.77 11.70 11.55 11.71 12.51 14 12.71 12.53 12.06 11.39 11.47 11.33 11.93 11.38 12.15 11.54 13.88 15 12.66 12.44 11.86 11.27 11.55 11.50 12.06 11.32 12.00 15.27 18 12.61 12.27 11.68 11.81 11.25 11.55 11.50 12.06 11.32 12.00 15.27 18 12.61 12.27 11.68 11.81 12.40 11.65 11.77 11.70 11.55 11.71 12.51 17 12.63 12.33 11.53 11.13 11.25 11.55 11.50 12.06 11.32 12.00 15.27 18 12.61 12.27 11.68 11.81 12.40 11.57 11.99 11.35 12.20 11.73 15.56 16 12.61 12.27 11.68 11.81 12.40 11.57 11.99 11.38 11.91 11.98 11.98 11.94 12.72 12.68 12.44 11.68 11.81 12.40 11.57 11.99 11.35 11.50 12.06 11.32 12.00 15.27 18 12.69 12.27 11.68 11.81 12.40 11.57 11.99 11.35 11.99 11.35 12.00 15.27 19 12.59 12.51 11.68 11.81 12.40 11.57 11.99 11.30 11.49 11.88 11.99 11.98 11.99 12.62 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.60 12.05 11.95 13.15				GAGE HEI	GHT, FEET		EAR OCTOB Y MEAN VA		O SEPTEMB	ER 2001			
2 13.33 12.62 12.00 11.17 10.97 11.57 11.40 11.85 11.56 11.74 12.56 11.99 3 13.03 12.55 12.44 11.29 11.31 11.42 11.44 11.78 11.38 11.71 12.18 12.50 5 12.70 12.56 11.27 11.45 10.73 11.78 11.80 11.34 11.59 12.17 12.53 6 12.48 12.81 11.10 11.31 10.72 11.89 11.82 11.40 12.28 12.45 7 12.41 12.64 11.24 11.30 11.20 11.68 12.16 11.26 11.41 12.29 12.61 8 12.66 12.47 11.27 11.34 11.67 11.51 12.46 11.31 11.59 12.26 12.73 10 12.97 12.26 11.27 11.34 11.67 11.51 12.46 11.31 11.59 12.26 12.73 10 12.97	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2 13.33 12.62 12.00 11.17 10.97 11.57 11.40 11.85 11.56 11.74 12.56 11.99 3 13.03 12.55 12.44 11.29 11.31 11.42 11.44 11.78 11.38 11.71 12.18 12.50 5 12.70 12.56 11.27 11.45 10.73 11.78 11.80 11.34 11.59 12.17 12.53 6 12.48 12.81 11.10 11.31 10.72 11.89 11.82 11.40 12.28 12.45 7 12.41 12.64 11.24 11.30 11.20 11.68 12.16 11.26 11.41 12.29 12.61 8 12.66 12.47 11.27 11.34 11.67 11.51 12.46 11.31 11.59 12.26 12.73 10 12.97 12.26 11.27 11.34 11.67 11.51 12.46 11.31 11.59 12.26 12.73 10 12.97	1	13.48	12.68	11.81	11.20	10.98	11.58	11.38	11.83	11.70	11.85	12.48	11.92
3 13.03 12.55 12.44 11.29 11.05 11.29 11.45 11.83 11.41 11.66 12.36 12.29 4 12.90 12.52 12.71 11.28 11.31 11.24 11.44 11.78 11.38 11.71 12.18 12.50 5 12.70 12.56 11.27 11.45 10.73 11.78 11.80 11.34 11.59 12.17 12.53 6 12.48 12.81 11.10 11.31 10.72 11.89 11.82 11.40 12.28 12.45 7 12.41 12.64 11.27 11.34 11.60 11.29 11.26 11.41 12.29 12.45 8 12.66 12.47 11.27 11.34 11.67 11.51 12.46 11.41 11.59 12.26 12.73 9 12.98 12.43 11.29 11.34 11.67 11.51 12.46 11.31 11.59 12.26 12.73 9 12.98 12.25													
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	12.97	12.26		11.29	11.24	11.99	11.50	12.12	11.58	11.60	12.01	12.43
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14 12.71 12.53 12.06 11.39 11.47 11.33 11.93 11.38 12.15 11.54 13.88 15 12.66 12.44 11.86 11.27 11.35 11.55 11.99 11.35 12.20 11.73 15.56 16 12.61 12.47 11.59 11.19 11.30 11.49 11.83 11.26 12.06 11.97 16.59 17 12.63 12.33 11.53 11.13 11.25 11.50 12.06 11.32 12.03 12.00 15.27 18 12.61 12.27 11.67 11.44 11.44 11.61 12.15 11.67 11.98 11.98 14.27 19 12.59 12.51 11.68 11.81 12.40 11.57 11.97 11.70 11.89 11.98 13.94 20 12.72 12.68 11.30 11.61 13.05 11.48 11.83 11.71 11.88 11.89 13.59 21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 </td <td>13</td> <td>12.67</td> <td>12.68</td> <td></td> <td>11.72</td> <td>11.58</td> <td></td> <td>11.44</td> <td>11.63</td> <td>11.45</td> <td>11.57</td> <td>11.62</td> <td>13.07</td>	13	12.67	12.68		11.72	11.58		11.44	11.63	11.45	11.57	11.62	13.07
15 12.66 12.44 11.86 11.27 11.35 11.55 11.99 11.35 12.20 11.73 15.56 16 12.61 12.47 11.59 11.19 11.30 11.49 11.83 11.26 12.06 11.97 16.59 17 12.63 12.33 11.53 11.13 11.25 11.50 12.06 11.32 12.03 12.00 15.27 18 12.61 12.27 11.67 11.44 11.44 11.61 12.15 11.67 11.98 11.98 14.27 19 12.59 12.51 11.68 11.81 12.40 11.57 11.97 11.70 11.89 11.98 13.94 20 12.72 12.68 11.30 11.61 13.05 11.48 11.83 11.71 11.88 11.89 13.32 21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15					12.06								
17 12.63 12.33 11.53 11.13 11.25 11.50 12.06 11.32 12.03 12.00 15.27 18 12.61 12.27 11.67 11.44 11.44 11.61 12.15 11.67 11.98 11.98 14.27 19 12.59 12.51 11.68 11.81 12.40 11.57 11.97 11.70 11.89 11.98 13.94 20 12.72 12.68 11.30 11.61 13.05 11.48 11.83 11.71 11.88 11.89 13.59 21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15	15	12.66	12.44		11.86	11.27	11.35	11.55	11.99	11.35	12.20	11.73	15.56
18 12.61 12.27 11.67 11.44 11.44 11.61 12.15 11.67 11.98 11.98 14.27 19 12.59 12.51 11.68 11.81 12.40 11.57 11.97 11.70 11.89 11.98 13.94 20 12.72 12.68 11.30 11.61 13.05 11.48 11.83 11.71 11.88 11.89 13.59 21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15	16												
19 12.59 12.51 11.68 11.81 12.40 11.57 11.97 11.70 11.89 11.98 13.94 20 12.72 12.68 11.30 11.61 13.05 11.48 11.83 11.71 11.88 11.89 13.59 21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15										11.32		12.00	
20 12.72 12.68 11.30 11.61 13.05 11.48 11.83 11.71 11.88 11.89 13.59 21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15													
21 12.69 12.27 10.98 11.38 12.23 11.43 11.84 11.68 12.19 11.86 13.32 22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15								11.57		11.70		11.98	
22 12.68 12.04 11.29 11.15 11.33 11.71 11.32 11.75 11.64 12.65 11.95 13.15	20	12.72	12.68		11.30	11.61	13.05	11.48	11.83	11.71	11.88	11.89	13.59
	21	12.69	12.27		10.98	11.38	12.23	11.43	11.84	11.68	12.19	11.86	13.32
02 10 02 11 05 11 46 11 72 11 60 11 74 11 00 11 70 11 60 10 70 10 00 12 11	22		12.04	11.29	11.15	11.33	11.71	11.32	11.75	11.64	12.65	11.95	13.15
	23	12.83	11.95	11.46	11.73	11.60	11.74	11.29	11.72	11.60	12.72	12.09	13.11
24 13.14 12.05 11.67 11.85 11.80 11.84 11.25 11.83 11.66 12.26 12.01 13.00	24		12.05	11.67	11.85	11.80	11.84	11.25	11.83	11.66	12.26	12.01	13.00
25 13.12 12.23 11.74 11.55 11.69 11.64 11.16 11.80 11.78 12.05 11.96 12.92	25	13.12	12.23	11.74	11.55	11.69	11.64	11.16	11.80	11.78	12.05	11.96	12.92
26 13.10 12.05 12.01 11.67 11.50 11.63 11.48 11.78 11.83 11.99 12.23 12.75	26		12.05	12.01	11.67		11.63	11.48	11.78	11.83	11.99	12.23	12.75
27 13.09 11.86 11.89 11.56 11.43 11.68 11.60 11.82 11.80 11.90 12.24 12.75	27	13.09	11.86	11.89	11.56	11.43	11.68	11.60	11.82	11.80		12.24	12.75
28 12.92 11.74 11.76 11.37 11.49 11.96 11.55 11.77 11.83 11.86 12.06 12.83	28		11.74	11.76		11.49		11.55	11.77	11.83		12.06	
29 12.83 11.76 12.21 11.44 12.10 11.53 11.63 11.93 11.96 11.88 13.24	29	12.83	11.76	12.21	11.44		12.10	11.53	11.63	11.93	11.96	11.88	13.24
30 12.90 11.69 11.72 11.30 11.70 11.85 11.60 11.96 11.81 11.86 13.53	30		11.69	11.72	11.30		11.70	11.85		11.96	11.81	11.86	13.53
31 12.75 11.25 11.04 11.56 11.70 12.01 11.94	31	12.75		11.25	11.04		11.56		11.70		12.01	11.94	
MEAN 12.83 12.34 11.85 11.42 11.38 11.68 11.50 11.88 11.57 11.88 12.04 13.19	MEAN	12.83	12.34	11.85	11.42	11.38	11.68	11.50	11.88	11.57	11.88	12.04	13.19
MAX 13.48 12.81 12.71 12.06 11.81 13.05 11.89 12.46 11.96 12.72 12.56 16.59													
MIN 12.41 11.69 11.25 10.98 10.97 10.72 11.16 11.60 11.26 11.40 11.54 11.92	MIN	12.41	11.69	11.25	10.98	10.97	10.72	11.16	11.60	11.26	11.40	11.54	11.92

CAL YR 2000 MEAN 12.01 MAX 14.28 MIN 11.07 WTR YR 2001 MEAN 11.97 MAX 16.59 MIN 10.72

02246150 BIG DAVIS CREEK AT BAYARD, FL

LOCATION.--Lat 30°09'05", long 81°31'35", in land grant 37, T.4 S., R.28 E., Duval County, Hydrologic Unit 03080103, at downstream end of culvert on U.S. Highway 1, 0.8 mi northwest of Bayard, 2.0 mi upstream from mouth, and 14.8 mi southeast of Union Station in Jacksonville.

DRAINAGE AREA.--13.6 mi².

PERIOD OF RECORD.--Water years 1964-66, 1970-74 (annual peak discharge), August 1966 to September 1969, June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Feb. 18, 1965 to Aug. 21, 1966, crest-stage gage at same site and datum.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	31 25 19 15	5.0 4.7 4.5 4.2 4.0	3.9 3.8 3.8 3.6 3.5	5.2 4.8 4.5 4.4	6.1 7.1 6.4 6.4	4.0 3.8 3.3 5.0 6.6	e7.4 e7.2 e7.0 e6.5 6.1	2.6 2.6 2.6 2.6 2.5	3.2 3.0 2.8 2.6 2.5	6.7 4.9 4.0 3.5 3.3	7.5 11 10 8.2 6.1	4.5 9.5 22 19 16
6 7 8 9 10	11 10 9.4 8.2 7.5	3.9 3.8 3.7 3.7	3.4 3.4 3.3 3.3 3.3	4.3 4.1 4.1 4.0 3.8	5.6 4.9 4.5 4.3 4.1	5.0 3.9 3.4 3.2 3.3	6.0 5.4 5.0 4.5 4.1	2.5 2.6 2.8 2.6 2.5	3.2 4.5 3.9 3.8 4.2	3.1 2.9 2.9 3.2 2.9	7.4 6.2 5.7 4.2 3.4	22 25 14 14 16
11 12 13 14 15	6.8 6.1 5.6 5.3 4.9	3.3 3.3 3.1 3.2 3.1	3.4 3.5 3.3 3.3	3.8 3.9 3.8 3.8 3.7	3.9 3.7 3.6 3.6 3.5	3.2 3.1 4.1 4.5 4.1	3.7 3.5 3.3 3.2 3.2	2.4 2.3 2.4 2.3 2.3	4.4 5.8 6.1 5.2 8.3	3.0 2.8 3.0 11 7.3	6.8 14 7.1 5.0 4.0	21 60 93 151 336
16 17 18 19 20	4.6 4.1 3.8 3.5 6.2	3.1 3.0 2.9 2.8 3.0	3.4 3.5 3.3 3.3	3.7 3.6 3.6 3.3 4.0	3.4 3.3 3.1 3.1 3.0	13 10 9.0 17 52	3.0 2.8 2.6 2.7 2.7	2.2 2.2 2.1 2.0 2.0	6.1 6.0 5.0 4.3 3.9	4.8 4.0 4.3 6.1 6.0	5.4 4.7 3.7 4.8 4.4	217 119 77 57 43
21 22 23 24 25	7.9 6.7 6.5 8.3 9.2	2.8 2.7 2.6 2.7 6.7	3.3 3.3 3.3 3.3 3.2	3.8 3.6 4.0 4.1 3.8	2.9 2.9 2.9 2.8 2.9	38 25 18 14 12	2.7 2.7 2.7 2.6 3.0	2.0 2.0 2.0 2.0 1.9	3.6 4.1 3.9 4.4	12 7.6 5.4 4.6 3.8	3.7 3.1 2.7 2.5 2.3	33 34 53 43 38
26 27 28 29 30 31	9.2 6.7 3.2 3 10 7.7 3.3 3 8.6 6.7 3.3 3 7.4 5.5 4.4 3 6.5 4.8 5.3 5.9 4.3 5.7 3 5.2 5.8 4				2.8 2.8 3.0 	13 11 9.1 e8.4 e8.0 e7.6	3.3 2.9 2.7 2.7 2.7	1.9 1.9 2.1 3.9 5.2 3.8	11 6.1 5.2 12 11	3.3 3.0 2.8 2.5 2.4 3.0	2.2 2.2 2.3 2.2 2.0 2.4	32 26 22 18 14
TOTAL MEAN MAX MIN CFSM IN.			113.2 3.65 5.8 3.2 .27	120.9 3.90 5.2 3.2 .29	113.0 4.04 7.1 2.8 .30	325.6 10.5 52 3.1 .77 .89	117.9 3.93 7.4 2.6 .29	76.8 2.48 5.2 1.9 .18	164.1 5.47 14 2.5 .40 .45	140.1 4.52 12 2.4 .33 .38	157.2 5.07 14 2.0 .37 .43	1649.0 55.0 336 4.5 4.04 4.51
STATIST	TICS OF MO	ONTHLY MEA	AN DATA FO	R WATER Y	EARS 196	6 - 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	AX 74.3 44.9 WY) 1992 1995 IN .78 1.44			10.6 30.8 1994 1.66 1981	12.6 48.6 1998 3.39 1991	11.7 31.0 1986 2.72 2000	6.82 21.3 1997 1.22 1968	5.19 37.5 1979 .47 1981	8.80 47.7 1991 .57 1981	9.13 40.5 1975 .29 1977	14.2 69.6 1968 .56 1990	22.1 68.9 1979 .93 1980
SUMMARY	STATIST:	ICS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1966	- 2001
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS				2174.16 5.94 127 .46 .47 .44 5.95 9.1 3.3	Sep 9 Jun 3 Jun 3	,10	3378.5 9.26 336 1.9 2.0 377 8.48 1.8 .68 9.24 14	Sep 15 May 25 May 21 Sep 15 Sep 15 Aug 30	, 26	11.5 22.0 2.33 735 .07 .13 1170 10.47 *.05 .84 11.48 25	Aug Jul Jul Aug Aug	1995 1981 1968 25 1977 21 1977 29 1968 29 1968
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS				.64			2.6			1.3		

e Estimated * July 25, 1977, June 19, 1981

301124081395901 ST. JOHNS RIVER AT BUCKMAN BRIDGE AT JACKSONVILLE, FL

LOCATION.--Lat 30°11'24", long 81°39'59",T.3 S., R.27 E., Duval County, Hydrologic Unit 03080103, below Buckman Bridge, Interstate Highway I-295, one piling east of boat fenders, on the north side, 2.7 mi northeast of Orange Park, and 36 mi upstream from mouth.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE (TOP, MIDDLE, BOTTOM): June 1995 to current year. WATER TEMPERATURE (TOP, MIDDLE, BOTTOM): June 1995 to current year. DISSOLVED OXYGEN (TOP, MIDDLE, BOTTOM): May 1996 to current year.

INSTRUMENTATION .-- Water-quality monitor.

REMARKS--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 31,700 μS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 318 μS/cm @ 25 °C, Mar. 9, 1998.

SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 38,500 μ S/cm @ 25 °C, May 3, 1999; minimum daily mean, 318 μ S/cm @ 25 °C, Mar. 9, 1998.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 42,400 μ S/cm @ 25 °C, May 3, 1999; minimum daily mean, 318 μ S/cm @ 25 °C, Mar. 9, 1998.

WATER TEMPERATURE (TOP): Maximum daily mean, 32.2 °C, Aug. 1, 2, 1999; minimum daily mean, 8.7°C, Jan. 9, 1996.
WATER TEMPERATURE (MIDDLE): Maximum daily mean, 32.2 °C, Aug. 1, 2, 1999; minimum daily mean, 8.3 °C, Jan. 4, 2001.
WATER TEMPERATURE (BOTTOM): Maximum daily mean, 32.2 °C, Aug. 2, 1999; minimum daily mean, 8.4 °C, Jan. 4, 5, 2001.
DISSOLVED OXYGEN (TOP): Maximum daily mean, 11.5 mg/L, Jan. 11, 2001; minimum daily mean, 2.9 mg/L, Sept. 8, 1998.
DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 11.6 mg/L, Jan. 11, 2001; minimum daily mean, 2.7 mg/L, Sept. 8, 1998.
DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 11.3 mg/L, Jan. 11, 2001; minimum daily mean, 2.7 mg/L, Sept. 8, 1998.

EXTREMES FOR CURRENT YEAR-

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 20,600 μS/cm @ 25 °C, May 9; minimum daily mean, 889 μS/cm @ 25 °C, Sept. 28.

SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 24,600 μS/cm @ 25 °C, May 10; minimum daily mean, 889 μS/cm @ 25 °C, Sept. 28.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 31,800 μ S/cm @ 25 $^{\circ}$ C, Mar. 21; minimum daily mean, 889 μ S/cm @ 25 $^{\circ}$ C, Sept. 28.

Sept. 28.

WATER TEMPERATURE (TOP): Maximum daily mean, 31.3 °C, Aug. 18; minimum daily mean, 9.3 °C, Jan. 11.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 31.3 °C, Aug. 18; minimum daily mean, 8.3 °C, Jan. 4.

WATER TEMPERATURE (BOTTOM): Maximum daily mean, 31.2 °C, Aug. 18; minimum daily mean, 8.4 °C, Jan. 4,5.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 11.5 mg/L, Jan. 11; minimum daily mean, 4.3 mg/L, Sept. 26-28.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 11.6 mg/L, Jan. 11; minimum daily mean, 4.1 mg/L, Sept. 26-28.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 11.3 mg/L, Jan. 11; minimum daily mean, 3.8 mg/L, Sept. 28.

SPECIFIC CONDUCTANCE TOP (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	9700 11200 9220 9150 7780	6340 5930 5360 4930 4880	1660 1790 3140 6130 7530	 	4570 4210 4130 4540 4760	9070 8900 7800 7170 6120	8030 7460 7130 6750 7440	11900 12500 12900 13300 13800	14600 14000 13300 13100 12700	11900 11300 11000 11100 10600	7870 7950 7190 6300 5660	1810 1680 1680 1730 1650
6 7 8 9 10	6460 6080 7010 8950 9060	5400 4830 4330 4080 3640	7920 8190 7400 6570 7240	 	4450 4290 4370 4390 4090	6260 7030 8890 10900 13900	7690 7170 6650 6310 6130	13800 16900 19600 20600 19500	12300 12100 12000 12000 12300	9730 9420 9720 9600 9640	4900 4140 3780 3450 2910	1520 1590 1650 1600 1450
11	8330	3860	7340	2480	3880	17800	6180	17700	12400	9470	2320	1290
12	7850	4440	6790	3200	4960	17200	6120	16100	12300	9090	1950	1280
13	7780	4770	6610	4340	5560	15600	5830	14800	11400	8860	1810	1380
14	7680	4770	6460	7110	5150	13000	5490	15500	11000	10300	1710	1620
15	7190	4740	5590	8590	4940	12400	5960	15800	10700	11700	1720	3680
16	6720	4640	5460	8310	4610	10700	6240	15000	10300	12200	1760	2370
17	6470	4190	4490	7410	4410	10400	6660	15700	10300	12600	1780	1490
18	6140	4030	3480	7820	5700	10900	8000	16300	11100	12200	1750	934
19	5800	4700	3450	7680	7980	14600	7890	15900	11300	11400	1710	911
20	5980	5800	2980	6430	8710	19500	7870	15600	11400	11000	1630	970
21	5830	4680	2840	5280	7970	14400	7860	15500	11500	11400	1590	1000
22	5620	3850	2740	5680	7880	12200	7710	15200	11500	13200	1570	997
23	6180	3200	2980	7740	8870	12300	7290	15200	11300	14300	1610	970
24	7570	3030	3360	8610	9730	12200	6940	15700	11200	12000	1640	954
25	8110	2970	3920	8170	9810	11000	6500	15700	11500	10800	1620	949
26 27 28 29 30 31	8750 9150 8600 7970 7870 7010	2560 2130 1830 1720 1660	5410 5660 5930 7910 6490	8580 8290 7260 7350 6360 5240	8990 8660 8910 	10600 10600 11200 11100 9360 8530	7590 8230 8600 8900 11300	15700 15900 15700 14900 14500 14500	12000 12100 12400 12600 12300	9990 9180 8350 8140 7640 7410	1720 1920 2150 2020 2010 1990	929 912 889 891 928
MEAN	7650	4110	5250	6760	6090	11300	7260	15500	12000	10500	2970	1390
MAX	11200	6340	8190	8610	9810	19500	11300	20600	14600	14300	7950	3680
MIN	5620	1660	1660	2480	3880	6120	5490	11900	10300	7410	1570	889

CAL YR 2000 MEAN 10100 MAX 26600 MIN 786 WTR YR 2001 MEAN 7630 MAX 20600 MIN 889 301124081395901 ST. JOHNS RIVER AT BUCKMAN BRIDGE AT JACKSONVILLE, FL--Continued

SPECIFIC CONDUCTANCE MIDDLE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

				- (DAIL	Y MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11900	6860	1680	3780	4640	9560		12600	14900	12600	8070	1830
2	17000	6400	1800	3270	4230	9320		13700	14200	11900	8110	1690
	17000		3140	3420	4140	8070		14400	13500	11300	7280	1710
3 4	14400	5320	7370	3240	4620	7300		14400	13200	11300	6380	1760
5	10900	5000	14300	3030	4860	6120		14600	12800	10700	5730	1630
6	9170	5690	15000	2450	4530	6260		15100	12500	9840	4940	1530
7	6630	5260	13400	2550	4380	7130		17300	12100	9530	4170	1590
8	7050	4660	10600	2470	4590	9580		21400	12000	9830	3790	1650
9	8970	4280	7800	2350	4600	13500		24400	12100	9700	3460	1600
10	9080	3650	7590	2530	4180	15500		24600	12300	9760	2960	1450
11	8390	3920	7580	2830	3930	20000	5850	22600	12500	9640	2340	1300
12	7900	4540	6930	3420	5010	23400	6200	19600	12600	9390	1960	1280
13	7870	5100	6710	4660	6080	19800	5950	16700	11600	9090	1820	1380
14	7850	5170	6650	9390	6000	15400	5570	16500	11200	10600	1700	1620
15	7410	4880	5660	12200	5710	12900	6110	17100	10800	12700	1720	3720
16	6940	4870	5610	11000	5220	11100	6260	16500	10400	13500	1760	2630
17	6650	4340	4510	9350	4540	10500	6710	17300	10300	13600	1780	1740
18	6380	4070	3500	9080	5730	11000	8600	18300	11200	13200	1750	957
19	6040	4810	3450	8350	9200	14700	9480	17000	11500	12200	1710	918
20	6110	5970	3000	6540	11700	23200	9160	16400	11800	11500	1630	968
21	5920		2850	5360	10600	18400	8630	16000	11900	11800	1580	999
22	5710		2750	5690	9050	14000	8020	15600	11800	13800	1570	996
23	6210		2980	7890	9180	13100	7590	15500	11400	15400	1610	969
24	7700	3120	3400	9640	9980	12800	7140	15900	11400	13100	1640	955
25	8810	3070	3900	8760	11100	11200	6550	15900	11900	11200	1620	949
26	9730		5500	9280	10100	10700	7630	16000	12500	10300	1730	929
27	10100		7350	9310	9390	10600	8640	16300	12600	9520	2180	912
28	9680		7900	8250	9430		9410	16300	12900	8540	2460	889
29	8980		8300	8180			9670	15200	13200	8470	2150	891
30	8390	1660	7010	6880			11600	14800	13000	7750	2070	928
31	7600		4770	5380				14900		7490	2020	
MEAN	8790		6230	6150	6670	12800	7740	16900	12200	10900	3020	1410
MAX	17000		15000	12200	11700	23400	11600	24600	14900	15400	8110	3720
MIN	5710	1660	1680	2350	3930	6120	5570	12600	10300	7490	1570	889
CAL YR		MEAN 9670	MAX 30700	MIN 73								
WTR YR	∠00T	MEAN 8080	MAX 24600	MTN 88	9							

SPECIFIC CONDUCTANCE BOTTOM (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	18500 24900 24300 20100 15100	7420 6720 6050 5550 5240	 	3910 3300 3470 3290 3060	4710 4280 4180 4650 4920	9900 9710 8570 7500 6100	8050 7570 7240 6880 7560	13300 14900 15900 15500 15400	15100 14300 13500 13200 12900	13200 12300 11500 11400 10800	8160 8220 7400 6450 5790	1850 1710 1730 1790 1660
6 7 8 9 10	12000 7740 7090 8990 9210	5870 5640 5050 4370 3670	24500 19600 13100 8930 7840	2490 2600 2510 2380 2560	4590 4450 4400 4640 4090	6270 7200 10100 17600 16500	7890 7370 6830 6430 6270	16000 17700 24100 28800 28000	12500 12200 12000 12100 12400	9890 9580 9900 9720 9810	4980 4200 3830 3490 2970	1540 1600 1650 1610 1450
11 12 13 14 15	8470 8140 8040 7990 7550	3960 4590 5350 5420 4970	7730 7050 6820 6780 5760	2910 3550 4800 13000 17900	3990 5150 6470 6550 6400	22300 27600 24900 17200 13400	6290 6240 6060 5620 6170	25500 22200 18200 17400 18200	12700 13000 11700 11400 10900	9810 9590 9230 10800 15000	2350 1990 1840 1710 1720	1300 1280 1380 1620 3910
16 17 18 19 20	7050 6800 6510 6170 6260	4980 4540 3300 	5700 4550 3540 3480 3030	14900 10700 9770 8840 6740	5670 4740 5760 10400 17300	11400 10700 11100 15100 27700	6290 6730 9190 11900 11500	18300 18800 19600 18400 17500	10400 10300 11200 11600 12000	16000 14700 14200 13200 11900	1760 1780 1750 1700 1630	2970 2310 985 935 971
21 22 23 24 25	6020 5840 6250 7870 9630	 	2880 2760 3000 3460 3970	5450 5710 8000 11100 10100	13500 10400 9430 10300 12800	31800 21300 14200 13200 11400	9300 8250 7710 7250 6590	16700 15900 15600 16000 16100	12100 11900 11500 11500 12000	12000 14100 17400 14800 11500	1580 1570 1610 1640 1620	997 995 968 955 949
26 27 28 29 30 31	10600 11400 10800 10200 8880 8030	 	5660 10500 11600 8890 8030 5290	9830 10100 9270 8880 7310 5580	11300 9930 9820 	10700 10700 11400 11400 9900 8900	7630 8850 10100 10300 12000	16200 16500 16700 15400 14900 15200	12700 13000 13200 13600 13700	10400 9670 8730 8620 7840 7550	1740 2560 2810 2280 2140 2060	928 912 889 892 928
MEAN MAX MIN	10200 24900 5840	5150 7420 3300	7480 24500 2760	6900 17900 2380	7320 17300 3990	14100 31800 6100	7870 12000 5620	18000 28800 13300	12400 15100 10300	11500 17400 7550	3080 8220 1570	1460 3910 889

CAL YR 2000 MEAN 11800 MAX 34500 MIN 734 WTR YR 2001 MEAN 8960 MAX 31800 MIN 889

301124081395901 ST. JOHNS RIVER AT BUCKMAN BRIDGE AT JACKSONVILLE, FL--Continued

		TEMPI	ERATURE,	WATER TOP		WATER MEAN V		2000	TO SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	25.0 25.1 25.1 25.5 25.7	22.4 22.3 22.3 22.5 22.5	15.5 15.6 15.2 13.9 13.3	 	13.7 13.7 13.5 13.1 13.2	21.1 21.5 21.7 21.6 20.2	18.9 18.9 19.1 19.7 19.9	22.7 22.8 22.8 23.1 23.5	28.1 27.9 28.1 28.5 29.1	29.4 29.9 30.3 30.4 30.6	29.7 29.3 29.1 29.1 29.0	30.5 30.1 30.0 29.9
6 7 8 9 10	26.3 26.1 25.5 23.1 21.3	22.6 22.8 23.0 23.1 23.0	13.3 13.4 13.6 14.2 14.6	 	13.3 13.8 14.3 15.0 15.6	18.0 16.4 16.1 16.3 16.6	20.5 21.3 22.0 22.9 23.4	24.0 23.9 23.6 23.7 24.0	29.4 29.5 29.6 29.3 28.7	30.5 30.7 30.7 30.6 30.6	28.7 28.8 29.4 30.1	29.9 29.8 29.6 29.4
11 12 13 14 15	20.6 20.7 20.7 20.9 21.2	22.2 21.7 21.5 21.2 19.9	15.0 15.5 15.7 16.2 16.7	9.3 9.8 10.2 10.7 11.2	15.8 15.6 15.7 16.0 16.8	16.9 17.8 18.6 18.8 19.3	23.9 24.3 24.9 25.1 25.3	24.5 24.8 25.3 25.7 26.0	28.3 27.8 27.9 28.2 28.5	30.3 30.2 30.1 29.7 29.4	30.0 30.3 30.7 30.5	29.2 28.8 28.2 27.2 25.5
16 17 18 19 20	21.3 21.6 21.9 22.1 22.1	19.4 19.6 18.9 18.2 17.3	17.1 17.2 15.8 14.8 13.2	11.7 12.3 12.7 13.5 13.7	17.5 17.9 17.4 17.1 17.5	19.9 19.7 19.0 18.2 18.1	25.0 24.3 22.0 21.8 21.9	26.5 26.9 27.3 27.3 27.2	28.8 28.9 29.0 29.2 29.5	29.0 29.0 29.4 29.7 29.7	31.3 31.1 31.0	24.4 24.6
21 22 23 24 25	22.1 22.3 22.3 22.0 21.9	16.4 15.3 14.9 15.0 15.7	12.5 12.3 11.6 11.4 11.1	12.7 12.3 11.8 11.8 11.6	18.1 18.7 18.7 18.5 19.2	17.1 17.0 17.2 17.7 18.1	22.2 22.6 23.0 23.7 23.5	27.4 27.7 27.7 27.6 27.3	29.5 29.2 29.0 29.3	29.4 29.6 29.5 28.7 28.9	30.9 30.8	26.5 26.7 26.9 27.1
26 27 28 29 30 31	22.0 22.0 22.1 22.3 22.4 22.5	15.9 15.8 15.7 15.5	11.1 11.3 11.7 11.4 	11.4 11.6 12.0 12.6 13.2 13.6	19.8 20.3 20.8 	18.0 17.4 17.1 17.2 17.8 18.6	22.7 22.5 22.7 22.9 22.8	27.6 27.7 27.8 27.7 27.8 28.2	29.5 29.7 29.3 28.9 29.1	29.3 29.5 30.4 30.5 30.2	30.7 30.7 30.7 30.8 30.9	26.5 26.2 26.0 25.1 23.7
MEAN MAX MIN	22.8 26.3 20.6	19.4 23.1 14.9	13.9 17.2 11.1	11.9 13.7 9.3	16.5 20.8 13.1	18.4 21.7 16.1	22.5 25.3 18.9	25.8 28.2 22.7	28.9 29.7 27.8	29.9 30.7 28.7	30.2 31.3 28.7	27.6 30.5 23.7

MEAN 23.3 MEAN 22.4 MAX 30.8 MAX 31.3 CAL YR 2000 MIN 11.1 WTR YR 2001 MIN 9.3

TEMPERATURE, WATER MIDDLE (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY ОСТ NOV DEC MAT FEB MAR APR MAY TITIN JUL ATIG SEP 25.0 22.3 15.4 9.4 13.7 21.0 22.7 28.1 29.4 29.7 30.4 2 25.1 25.2 22.3 22.3 15.5 15.2 9.0 8.6 13.7 13.5 21.5 21.7 ___ 22.8 22.9 27.9 28.1 29.8 30.2 29.3 29.1 30.0 3 ---29.9 25.4 30.4 4 22.4 14.0 8.3 13.1 21.6 ---23.1 28.5 29.0 29.8 5 25.7 22.5 14.0 8.4 13.2 20.1 ---23.5 29.1 30.5 29.0 29.9 17.9 6 7 26.0 22.6 13.9 8.7 13.3 24.0 29.3 30.5 28.7 29.9 ---22.8 16.4 16.1 26.1 25.6 9.0 23.9 23.7 30.5 30.7 28.8 29.8 13.7 13.8 29.4 8 23.0 13.8 9.6 14.2 ---29.5 29.3 29.8 q 23.2 23.1 23.0 14.2 9.4 15.0 16.4 ---23.7 29.3 30.6 29.9 29.6 10 21.3 14.6 16.6 23.9 28.8 30.0 29.4 15.6 30.6 20.7 20.7 20.7 15.8 15.7 15.6 16.8 17.2 18.2 11 12 22.2 21.6 9.2 30.3 30.0 15.0 23.9 24.3 28.3 29.2 27.8 27.9 15.4 15.7 9.8 24.3 24.6 28.8 13 21.5 10.2 24.8 25.1 30.1 30.6 28.2 18.7 14 15 20.9 21.2 16.1 10.8 16.0 16.7 25.1 25.5 28.2 29.8 30.7 27.2 21.1 19.9 16.6 11.2 19.3 25.3 25.8 28.4 29.6 30.5 25.5 17.4 17.9 17.4 19.9 19.7 19.0 19.4 25.1 26.3 26.7 27.1 30.6 16 17 21.2 17.1 11.5 28.8 29.2 24.3 17.2 15.7 21.5 21.7 24.3 31.0 19.6 12.0 28.9 29.1 24.3 18 18.9 12.6 22.0 29.0 29.3 31.3 24.5 21.7 27.3 29.1 29.6 29.7 19 22.0 18.3 14.8 13.5 17.1 18.2 31.1 25.113.7 30.9 20 22.1 17.3 13.2 17.4 18.1 21.9 27.2 29.4 25.5 27.4 27.7 27.7 27.5 21 22.1 16.4 15.3 12.5 12.3 12.6 17.9 17.3 22.2 29.8 29.4 30.9 26.0 22 22.3 12.2 16.9 22.6 30.9 18.6 29.5 29.5 26.4 17.1 17.6 23 22.3 14.9 11.6 11.9 18.6 22.9 29.2 29.5 30.9 26.7 29.0 24 22.1 15.0 23.6 28.8 30.8 26.9 11.4 11.9 18.5 25 21.9 15.7 19.0 18.1 27.3 27.0 11.1 11.6 23.6 29.2 28.9 30.8 27.5 27.7 27.8 27.8 27.7 19.6 17.9 26 22.0 15.9 11.1 11.4 22.8 29.5 29.3 30.7 26.6 20.1 22.4 22.7 29.5 29.7 22.0 15.8 11.4 11.6 17.4 29.7 30.6 26.2 28 22.1 15.7 15.7 11.7 12.0 12.5 29.4 29.0 30.6 26.0 ___ 22.2 22.9 29 11.4 ---30.3 30.8 25.2 30 22.4 10.8 22.8 29.1 23.7 31 22 3 9 7 13.6 28 1 30.2 30.8 16.4 20.7 MEAN 22.7 19.4 13.7 10.9 18.4 23.3 25.8 28.9 29.9 30.3 27.4 13.7 25.3 21.7 28.1 22.7 31.3 28.7 MAX 26.1 23.1 17.2 21.7 29.8 30.7 30.4 23.7 MIN 20.7 14.9 9.7 16.1 27.8 28.8 8.3 13.1

MEAN 22.3 CAL YR 2000 MAX 30.8 MIN 9.7 WTR YR 2001 MEAN 22.3 MAX 31.3 MIN 8.3

301124081395901 ST. JOHNS RIVER AT BUCKMAN BRIDGE AT JACKSONVILLE, FL--Continued TEMPERATURE, WATER BOTTOM (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPI	ERATURE, I	WATER BOT.		C), WATEI Y MEAN VAI		POBER 2000	J TO SEPTI	EMBER 2001	L	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	25.1 25.4 25.4 25.4 25.5	22.3 22.3 22.3 22.4 22.5	 	9.4 9.1 8.6 8.4 8.4	13.7 13.8 13.5 13.2 13.2	21.0 21.4 21.7 21.6 20.2	19.0 18.8 19.1 19.7 19.9	22.7 22.8 22.9 23.1 23.5	28.1 27.9 28.1 28.4 29.0	29.3 29.7 30.1 30.4 30.5	29.7 29.3 29.1 29.0 29.0	30.4 30.0 29.9 29.8 29.8
6 7 8 9 10	25.8 26.1 25.6 23.2 21.4	22.6 22.7 23.0 23.1 23.0	14.7 14.2 13.8 14.1 14.6	8.6 9.0 9.5 9.5 9.0	13.3 13.7 14.2 14.9 15.6	18.0 16.4 16.1 16.6 16.6	20.4 21.2 21.9 22.7 23.3	24.0 23.9 23.6 23.7 23.9	29.3 29.4 29.5 29.2 28.8	30.5 30.5 30.7 30.6 30.6	28.6 28.8 29.2 29.8 30.0	29.8 29.7 29.8 29.6 29.4
11 12 13 14 15	20.6 20.6 20.7 20.9 21.1	22.2 21.7 21.5 21.2 19.9	15.0 15.4 15.7 16.1 16.6	9.2 9.7 10.2 10.8 11.1	15.8 15.7 15.6 16.0 16.5	16.7 16.9 17.7 18.5 19.2	23.8 24.3 24.8 25.1 25.3	24.2 24.5 24.9 25.4 25.7	28.3 27.9 27.8 28.1 28.4	30.3 30.2 30.1 29.8 29.7	29.9 30.2 30.5 30.7 30.5	29.2 28.8 28.2 27.2 25.5
16 17 18 19 20	21.2 21.5 21.7 22.0 22.1	19.5 19.6 19.1 	17.1 17.2 15.8 14.9 13.2	11.4 11.9 12.5 13.3 13.7	17.3 17.9 17.5 17.1	19.8 19.8 19.1 18.2 18.0	25.1 24.3 22.0 21.6 21.9	26.1 26.5 27.0 27.2 27.2	28.8 28.8 29.0 29.1 29.4	29.4 29.1 29.3 29.6 29.7	30.5 31.0 31.2 31.1 30.9	24.3 24.3 24.5 25.0 25.5
21 22 23 24 25	22.1 22.4 22.3 22.1 21.9	 	12.5 12.3 11.7 11.4 11.2	12.7 12.3 11.9 12.0 11.8	17.6 18.3 18.7 18.5 18.8	17.6 17.1 17.1 17.6 18.0	22.2 22.6 23.0 23.6 23.6	27.3 27.6 27.7 27.5 27.3	29.8 29.5 29.2 29.0 29.2	29.4 29.5 29.6 28.9 29.0	30.9 30.9 30.8 30.8 30.8	26.0 26.4 26.7 26.8 26.9
26 27 28 29 30 31	22.1 22.1 22.1 22.3 22.4 22.4	 	11.1 11.5 11.8 11.5 10.9 9.7	11.5 11.6 12.0 12.4 13.1 13.5	19.4 20.0 20.7 	17.9 17.4 17.1 17.2 17.7 18.5	22.8 22.4 22.7 22.9 22.9	27.5 27.7 27.8 27.8 27.7 28.0	29.5 29.7 29.4 29.0 29.0	29.3 29.5 29.7 30.2 30.5 30.2	30.7 30.6 30.5 30.7 30.8 30.8	26.6 26.2 26.0 25.2 23.7
MEAN MAX MIN	22.8 26.1 20.6	21.7 23.1 19.1	13.6 17.2 9.7	10.9 13.7 8.4	16.3 20.7 13.2	18.3 21.7 16.1	22.4 25.3 18.8	25.7 28.0 22.7	28.9 29.8 27.8	29.9 30.7 28.9	30.2 31.2 28.6	27.4 30.4 23.7

CAL YR 2000 MEAN 23.4 MAX 30.8 MIN 9.7 WTR YR 2001 MEAN 22.5 MAX 31.2 MIN 8.4

	OXYGEN DISSOLVED TOP (MG/L), 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 3 4 5	7.2 6.8 7.1 7.3 7.5	8.3 8.1 8.1 7.9 7.8	9.4 9.4 9.3 9.5 9.6	 	10.5 10.3 10.3 10.3	8.8 8.7 8.8 8.7 8.8	8.2 8.8 8.9 8.6 8.2	7.4 7.5 7.8 8.4 8.7	5.3 5.4 5.7 5.6 5.6	7.3 7.4 7.2 6.7	 	5.8 5.9 5.9 5.9 5.9	
6 7 8 9 10	7.7 7.5 7.3 7.9 8.4	7.7 7.8 7.7 7.7 7.8	9.4 9.0 9.0 8.8 8.6	 	10.2 10.3 10.2 10.2	9.1 9.4 9.3 9.2 9.1	7.9 7.8 7.7 7.6 7.6	8.8 8.7 8.6 8.5 8.1	5.7 5.5 5.3 5.3	6.0 5.9 4.7 5.5 6.6	 	5.6 5.7 5.6 5.6 5.5	
11 12 13 14 15	8.5 8.5 8.4 8.2 8.1	7.8 7.8 7.8 7.8 8.0	8.5 8.5 8.4 8.4	11.5 11.4 11.3 11.2	10.0 9.7 9.6 9.6 9.6	8.9 9.2 9.2 9.1 8.9	8.6 9.5 9.4 9.1 8.8	8.1 8.0 7.7 7.5 7.5	5.4 5.6 6.1 6.4 6.6	 	 	5.5 5.6 5.7 6.1 6.8	
16 17 18 19 20	8.1 8.1 8.2 8.1 7.9	8.1 8.3 8.3 8.5 8.6	8.4 8.4 8.5 8.6 8.9	11.1 11.1 11.0 11.0	9.7 9.7 9.5 9.4 9.4	8.6 8.5 8.3 8.2 7.9	8.5 8.2 8.5 8.6 8.6	7.5 7.5 7.4 7.3 6.9	6.7 6.7 6.6 6.8 7.1	 	 	7.2 7.1 6.6 6.4 6.4	
21 22 23 24 25	7.8 7.9 7.8 7.7	8.8 9.1 9.3 9.3 9.4	9.2 9.3 9.6 9.8 9.9	10.8 10.8 10.8 10.8	9.5 9.7 9.4 9.2 9.1	7.9 7.8 7.6 7.4 7.2	8.3 8.1 8.0 7.8 7.5	6.8 6.6 6.3 6.2	7.0 6.8 6.7 6.8 7.0	 	 	6.5 6.2 5.8 5.2 4.7	
26 27 28 29 30 31	8.1 8.4 8.5 8.5 8.4	9.3 9.3 9.4 9.3 9.3	10.0 10.1 10.0 9.9	10.8 10.9 10.9 10.9 10.8 10.6	9.0 9.0 9.0 	7.1 7.1 7.2 7.4 7.6 7.8	7.5 7.6 7.6 7.5 7.4	6.2 5.9 6.1 5.9 5.7	7.0 6.8 6.5 6.4 6.8	 	 6.2 6.0 5.8	4.3 4.3 4.3 5.5 7.1	
MEAN MAX MIN	7.9 8.5 6.8	8.4 9.4 7.7	9.1 10.1 8.4	11.0 11.5 10.6	9.7 10.5 9.0	8.3 9.4 7.1	8.2 9.5 7.4	7.3 8.8 5.5	6.2 7.1 5.3	6.4 7.4 4.7	6.0 6.2 5.8	5.8 7.2 4.3	

CAL YR 2000 MEAN 7.6 MAX 10.1 MIN 5.3 WTR YR 2001 MEAN 8.0 MAX 11.5 MIN 4.3

301124081395901 ST. JOHNS RIVER AT BUCKMAN BRIDGE AT JACKSONVILLE, FL--Continued

		0.	XYGEN DISS	OLVED MID		, WATER Y		ER 2000 T	O SEPTEME	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	6.4 5.9	7.8 7.7	9.1 9.1	10.3 10.4	10.1 10.0	8.2 8.2		6.8 6.8	5.5 5.6	6.9 7.2		5.7 5.7
3 4	5.8 6.1	7.6 7.5	9.0 9.0	10.6 10.7	10.0	8.3 8.2		7.1 7.6	5.8 5.8	7.0 6.6		5.8 5.7
5 6	6.7 6.8	7.4	8.7 8.5	10.9 11.0	10.0	8.4		8.1	5.8 5.8	6.5 6.0		5.7 5.6
7	7.2 7.1	7.3 7.3	8.4 8.4	11.0 11.1	10.0 9.9	8.9 8.9		8.0 7.7	5.6 5.5	5.7 4.8		5.5 5.5
9 10	7.8 8.2	7.3 7.4	8.4 8.3	11.1 11.2	9.9 9.9	8.7 8.6		7.3 7.2	5.5 5.4	5.4 6.5		5.5 5.4
11 12	8.4 8.3	7.5 7.5	8.2 8.2	11.6 11.2	9.7 9.5	8.4 8.5	8.5 9.2	7.3 7.3	5.5 5.7			5.4 5.5
13 14	8.2 8.1	7.4 7.4	8.2 8.1	11.1 10.9	9.2 9.1	8.6 8.7	9.2	7.2 7.1	6.0			5.7 6.0
15	7.9	7.7	8.1	10.7	9.2	8.7	8.5	7.2	6.5			6.7
16 17 18	7.8 7.8 7.9	7.8 7.9 8.0	8.1 8.1 8.3	10.7 10.7 10.6	9.3 9.3 9.2	8.4 8.2 8.1	8.1 7.9 8.1	7.1 7.0 6.9	6.6 6.6 6.6			7.0 6.8 6.4
19 20	7.8 7.7	8.2 8.3	8.4 8.6	10.6	9.1 8.9	7.9 7.6	8.0 7.9	6.9	6.7 6.9			6.1 6.1
21	7.7	8.5	8.9	10.5	8.9	7.5	7.8	6.4	6.9			6.1
22 23 24	7.8 7.7 7.7	8.8 8.9 9.0	9.1 9.3 9.6	10.5 10.5 10.4	9.0 9.0 8.7	7.5 7.3 7.2	7.6 7.5 7.3	6.3 6.1 5.9	6.6 6.5 6.7			5.8 5.5 4.9
25	7.7	9.1	9.7	10.5	8.5	7.0	7.1	5.9	6.8			4.4
26 27	8.1 8.0	9.0 9.0	9.8 9.7	10.5 10.5	8.5 8.5	7.0 7.0	7.1 7.0	5.9 5.6	6.8 6.6			4.1 4.1
28 29	8.0	9.0	9.7 9.7	10.6 10.5	8.4		6.9 7.0	5.8 5.7	6.4		5.9	4.1 5.3
30 31	7.9 7.9	9.0	9.8 10.1	10.5 10.3			6.8	5.5 5.5	6.5 		5.8 5.7	7.0
MEAN MAX MIN	7.6 8.4 5.8	8.1 9.1 7.3	8.9 10.1 8.1	10.7 11.6 10.3	9.3 10.1 8.4	8.1 8.9 7.0	7.8 9.2 6.8	6.8 8.1 5.5	6.2 6.9 5.4	6.3 7.2 4.8	5.8 5.9 5.7	5.6 7.0 4.1
CAL YR			MAX 10.1 MAX 11.6									
CAL YR WTR YR		MEAN 7.8		MIN 4.1				ER 2000 T	O SEPTEME	SER 2001		
		MEAN 7.8	MAX 11.6	MIN 4.1		, WATER Y MEAN VAL MAR		ER 2000 T MAY	O SEPTEME JUN	ER 2001 JUL	AUG	SEP
WTR YR	2001 1	MEAN 7.8	MAX 11.6 XYGEN DISS	MIN 4.1	DAILY	MEAN VAL	UES				AUG 	SEP 5.5 5.5
DAY 1 2 3 4	OCT 5.1 4.8 4.9 5.1	MEAN 7.8 O. NOV 7.6 7.6 7.5 7.3	MAX 11.6 XYGEN DISS DEC	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6	DAILY FEB 10.0 9.9 9.9 9.9	MEAN VAL MAR 8.3 8.2 8.2 8.1	MPR 8.0 8.6 8.6 8.3	MAY 6.4 6.5 6.7 7.3	JUN 5.3 5.5 5.7 5.6	JUL 6.5 6.8 6.9 6.5	 	5.5 5.5 5.5 5.5
DAY 1 2 3 4 5	OCT 5.1 4.8 4.9 5.1 5.5	MEAN 7.8 0 NOV 7.6 7.6 7.5 7.3 7.3	MAX 11.6 XYGEN DISS DEC	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9	DAILY FEB 10.0 9.9 9.9 9.9 9.9	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4	APR 8.0 8.6 8.6 8.3 8.0	MAY 6.4 6.5 6.7 7.3 7.7	JUN 5.3 5.5 5.7 5.6 5.6	JUL 6.5 6.8 6.9 6.5 6.4		5.5 5.5 5.5 5.5 5.3
DAY 1 2 3 4	OCT 5.1 4.8 4.9 5.1	MEAN 7.8 O. NOV 7.6 7.6 7.5 7.3	MAX 11.6 XYGEN DISS DEC	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6	DAILY FEB 10.0 9.9 9.9 9.9	MEAN VAL MAR 8.3 8.2 8.2 8.1	MPR 8.0 8.6 8.6 8.3	MAY 6.4 6.5 6.7 7.3	JUN 5.3 5.5 5.7 5.6	JUL 6.5 6.8 6.9 6.5	 	5.5 5.5 5.5 5.5
DAY 1 2 3 4 5 6 7	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6	MEAN 7.8 O. NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1	MAX 11.6 XYGEN DISS DEC 7.7 7.5	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.0	DAILY FEB 10.0 9.9 9.9 9.9 9.9	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9	MES APR 8.0 8.6 8.6 8.3 8.0 7.7	MAY 6.4 6.5 6.7 7.3 7.7	JUN 5.3 5.5 5.7 5.6 5.7	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8		5.5 5.5 5.5 5.3 5.2 5.2
DAY 1 2 3 4 5 6 7 8 9 10 11	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1 8.2	MEAN 7.8 NOV 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.2 7.3 7.4	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.0 11.1 11.1 11.2 11.3	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.9 9.7 9.7	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.2	MES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.8 6.4 6.4	JUN 5.3 5.5 5.7 5.6 5.6 5.7 5.4 5.4 5.2	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2
DAY 1 2 3 4 5 6 7 8 9 10	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.2 7.1 7.1 7.2 7.3	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.1	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.7	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4	MES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 6.4 6.4	JUN 5.3 5.5 5.7 5.6 5.6 5.7 5.4 5.4 5.2	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.0 7.9 7.9	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.2 7.3 7.4 7.4 7.2 7.5	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.9 9.7 9.7 9.7 9.7	MEAN VAL MAR 8.3 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.4 8.2 8.4	MES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.8 6.7	JUN 5.3 5.5 5.7 5.6 5.6 5.7 5.5 5.4 5.2 5.3 5.5 5.9 6.2 6.4	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.2 5.2 6.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.0 7.9 7.9 7.8 7.8	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.1 7.2 7.3 7.4 7.2 7.5 7.6 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.2	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.9 9.7 9.7 9.7 9.6 9.3 9.2 9.1 9.0	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.4	MES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2 7.8	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3 6.5	JUN 5.3 5.5 5.7 5.6 5.7 5.5 5.4 5.2 5.3 5.5 6.2 6.4 6.6	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.3 5.5 6.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.2 8.1 8.2 7.9 7.8	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.2 7.3 7.4 7.4 7.2 7.5 7.6	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.2	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.9 9.7 9.7 9.7 9.6 9.3 9.2 9.1 9.0	MEAN VAL MAR 8.3 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.4 8.2 8.3	MES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2 7.8	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3	JUN 5.3 5.5 5.7 5.6 5.7 5.5 5.4 5.2 5.3 5.5 6.2 6.4 6.6	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.3 6.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.2 8.1 8.2 8.7 7.9 7.8 7.8 7.8 7.7	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.2 7.3 7.4 7.4 7.4 7.2 7.5 7.6 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.5 10.5 10.4 10.4	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.7 9.7 9.7 9.6 9.3 9.2 9.1 9.0 9.2 9.1 8.8	MEAN VAL MAR 8.3 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.2 8.1 8.7 8.7 8.9 8.1 8.7 8.9 8.1 8.1 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MES APR 8.0 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.7 7.7 7.5 7.4 7.4 7.4 7.4	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.5 6.4 6.2 6.1	JUN 5.3 5.5 5.6 5.7 5.6 5.7 5.4 5.2 5.3 5.9 6.4 6.4 6.5 6.8 6.7 6.7	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.3 5.5 5.3 6.4 6.7 6.5 6.2 5.9 6.0
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 5.1 4.8 4.9 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.0 7.9 7.8 7.8 7.8 7.7 7.7	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.1 7.2 7.2 7.3 7.4 7.4 7.2 7.5 7.6 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.5 10.5 10.4 10.4 10.4	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.7 9.7 9.6 9.3 9.2 9.1 9.0 9.2 9.1 8.8 8.2	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.4 8.2 8.1 8.7 6.7 6.7 6.7 6.8 7.0	WES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2 7.8 7.7 7.3 7.4 7.4 7.4 7.2	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.4 6.2 6.1 5.8	JUN 5.3 5.7 5.6 5.7 5.4 5.2 5.5 5.9 6.4 6.5 6.7 6.5 6.7 6.6 6.5	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.3 5.5 6.4 6.7 6.2 5.9 6.0 5.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	OCT 5.1 4.8 4.9 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.0 7.9 7.8 7.8 7.8 7.8 7.7 7.7	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.1 7.2 7.3 7.4 7.2 7.5 7.6 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 9.7	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.5 10.5 10.5 10.5 10.5	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.9 9.7 9.7 9.6 9.3 9.1 9.0 9.2 9.1 8.2 8.4 8.8	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.4 8.5 8.2 8.1 8.6 7.1 6.7	WES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2 7.8 7.7 7.3 7.4 7.4 7.4 7.6 6.9	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.4 6.2 6.1 5.8 5.8	JUN 5.3 5.7 5.6 5.7 5.4 5.2 5.5 5.9 6.4 6.4 6.5 6.7 6.5 6.4 6.7	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.3 5.5 6.4 6.7 6.2 5.9 6.0 7 5.9 6.0 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	OCT 5.1 4.8 4.9 5.5 5.9 6.6 7.6 8.1 8.2 8.1 8.0 7.9 7.8 7.8 7.7 7.8 7.7 7.6 7.9 7.7	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.1 7.2 7.3 7.4 7.4 7.2 7.5 7.6 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 9.1 9.3 8.6 8.9 9.1 9.3 9.6 9.7	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.5 10.5 10.5 10.5 10.5	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.7 9.7 9.6 9.3 9.1 9.0 9.2 9.1 8.2 8.4 8.8 8.9 8.7 8.4	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.4 8.5 8.2 8.1 6.7 6.8 7.0 6.9 6.8 6.8	WES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2 7.8 7.7 7.7 7.7 7.9 6.9 6.8 6.7	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.1 5.8 5.7 5.7	JUN 5.3 5.7 5.6 6 5.7 5.4 5.2 5.5 5.2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.3 5.5 5.9 6.4 6.7 6.5 6.9 9 6.7 7 5.8 4.2 3.9 9
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.2 8.1 8.0 7.9 7.8 7.7 7.8 7.7 7.6 7.9 7.7 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	MEAN 7.8 O NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.2 7.3 7.4 7.4 7.4 7.2 7.5 7.6 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 9.1 9.1 9.3 9.6 9.7	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.5 10.5 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.7 9.7 9.6 9.3 9.2 9.1 9.0 9.2 9.1 8.8 8.2 8.4 8.5 8.4	MEAN VAL MAR 8.3 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.4 8.5 8.2 8.1 8.6 6.7 6.8 7.0 6.9 6.8 6.8 6.9 7.2	MES APR 8.0 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.7 7.7 7.3 7.4 7.4 7.4 7.2 7.0 6.9 6.8 6.7 6.6 6.5	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.5 6.1 5.8 5.7 5.4 5.5 5.5	JUN 5.3 5.7 5.6 6 .7 5.4 5.2 5.5 5.2 4 6.4 5.8 7 6.6 5.4 6 6.4 5.9	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.3 5.5 5.9 6.4 6.7 6.5 5.9 6.4 6.7 5.9 6.2 5.9 5.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	OCT 5.1 4.8 4.9 5.5 5.9 6.6 7.0 7.6 8.1 8.2 8.1 8.0 7.9 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.7 7.7	MEAN 7.8 NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.1 7.2 7.3 7.4 7.2 7.5 7.6 7.7 7.7 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 9.1 9.3 9.6 9.7	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.2 10.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.7 9.7 9.6 9.3 9.2 9.1 9.0 9.2 9.1 8.2 8.4 8.9 8.7 8.4	MEAN VAL MAR 8.3 8.2 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.4 8.2 8.1 8.6 6.7 6.7 6.8 7.0 7.0 6.9 6.8 6.8 6.9	WES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 8.5 8.2 7.8 7.7 7.3 7.4 7.4 7.6 6.9 6.8 6.7 6.6	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.2 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.4 6.5 6.7 5.8 5.7 5.7	JUN 5.3 5.5 7 5.6 6 7 5.5 4 5.2 5.5 5.2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.3 5.5 6.4 6.7 5.9 6.7 5.3 4.8 4.2 3.9 3.8
DAY DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT 5.1 4.8 4.9 5.1 5.5 5.9 6.6 7.6 8.1 8.2 8.1 8.0 7.9 7.8 7.7 7.8 7.7 7.7 7.8 7.7 7.8	MEAN 7.8 O NOV 7.6 7.6 7.5 7.3 7.3 7.2 7.1 7.1 7.2 7.3 7.4 7.4 7.2 7.5 7.6 7.7 7.7	MAX 11.6 XYGEN DISS DEC 7.7 7.5 7.9 8.2 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 9.1 9.3 8.6 8.9 9.1 9.3 9.6 9.7	MIN 4.1 OLVED BOT JAN 10.2 10.4 10.5 10.6 10.9 11.0 11.0 11.1 11.1 11.2 11.3 11.1 11.0 10.5 10.5 10.5 10.5 10.5 10.5	DAILY FEB 10.0 9.9 9.9 9.9 9.9 9.7 9.7 9.6 9.3 9.2 9.1 9.0 9.2 9.1 8.2 8.4 8.8 8.9 8.7 8.4	MEAN VAL MAR 8.3 8.2 8.1 8.4 8.7 8.9 8.8 8.2 8.1 8.4 8.7 6.7 6.8 7.0 6.8 7.0 6.9 6.8 6.8 6.9 7.2 7.3	WES APR 8.0 8.6 8.6 8.3 8.0 7.7 7.5 7.4 7.2 7.3 8.5 9.1 8.8 7.5 7.7 7.4 7.2 7.3 7.4 7.6 6.9 6.8 6.7 6.6 6.5 6.5	MAY 6.4 6.5 6.7 7.3 7.7 7.8 7.7 7.8 7.7 7.2 6.4 6.6 6.8 6.7 6.3 6.5 6.3 6.5 6.1 5.8 5.7 5.7 5.4 5.5 5.5	JUN 5.3 5.7 5.6 6 .7 5.4 4 2 5.5 5.2 4 6 6.4 5.8 7 7 6 6.4 2 5.9 5.9	JUL 6.5 6.8 6.9 6.5 6.4 6.0 5.8 4.8 5.4 6.5		5.5 5.5 5.5 5.5 5.3 5.2 5.2 5.2 5.2 5.2 5.3 5.3 5.9 6.4 6.7 6.5 6.5 9.5 9.6 9.6 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7

CAL YR 2000 MEAN 6.9 MAX 10.0 MIN 4.0 WTR YR 2001 MEAN 7.5 MAX 11.3 MIN 3.8

02246300 ORTEGA RIVER AT JACKSONVILLE, FL

LOCATION.--Lat $30^{\circ}14^{\circ}50^{\circ}$, long $81^{\circ}47^{\circ}49^{\circ}$, in NW $^{1}_{4}$ sec.15, T.3 S., R.25 E., Duval County, Hydrologic Unit 03080103, near center of span on downstream side of bridge on 103rd Street in Jacksonville, 15 mi upstream from mouth.

DRAINAGE AREA. -- 30.9 mi².

PERIOD OF RECORD.--Water years 1928, 1956, 1958-60 (low-flow measurements only); January 1965 to July 1983, July 1984 to current year. Prior to October 1971, published as "near Jacksonville".

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.02 ft above sea level. Prior to Jan. 21, 1965, nonrecording gage at same site and datum.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YEA	AR OCTOBER	2000 TO) SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2 3 4	e17 e15 e13 e12 e13	e5.0 e5.0 e5.0 e5.2	e7.5 e7.2 e7.0 e7.0 e6.8	e16 e10 e9.8 e9.0 e8.8	e9.0 e10 e9.8 e12 e14	16 15 14 20 29	29 26 23 21 21	e4.9 e4.8 e4.6 5.7 4.7	e5.7 e4.3 e3.7 e2.6 e1.5	13 11 9.4 14	46 52 50 32 37	148 248 582 1110 932
7	e12 e11 e10 e9.8 e9.0	e5.3 e5.5 e5.8 e5.8 e5.0	e6.5 e6.5 e6.2 e6.3 e6.5	e8.5 e8.5 e8.2 e8.1 e8.1	e12 e11 e9.5 e8.5 e8.5	25 20 18 17 19	20 19 18 17	4.4 5.4 6.8 6.2 5.3	e.80 13 14 8.7 6.4	15 13 21 19 15	82 101 59 31 22	531 277 176 123 91
11 12 13 14 15	e8.8 e8.0 e7.2 e6.5 e6.2	e4.8 e4.6 e5.0 e5.2 e5.5	e6.8 e7.0 e7.0 e7.0 e7.2	e8.2 e8.8 e9.2 e9.0 e8.5	e8.2 e8.1 e8.2 e14 17	19 18 19 20 19	16 14 13 13	5.5 3.5 1.2 1.2	6.7 15 19 17 25	13 13 13 33 36	18 17 22 22 19	74 135 921 1080 1800
16 17 18 19 20	e5.8 e5.2 e5.0 e5.0 e5.2	e5.5 e5.7 e5.8 e5.6 e5.8	e7.0 e7.0 e7.2 e7.0 e7.0	e8.2 e7.8 e7.8 e7.5 e7.7	16 16 15 15	23 30 28 33 97	11 11 11 10 10	.85 .73 .78 .67	20 15 13 12 15	22 17 15 14 13	17 14 21 40 31	1310 607 295 181 126
21 22 23 24 25	e5.5 e5.8 e5.0 e5.0 e4.8	e5.9 e5.8 e8.0 e9.2 e14	e7.2 e7.2 e7.4 e7.5 e7.3	e7.5 e7.8 e8.0 e9.4 e8.8	14 14 14 14	118 85 53 34 28	10 8.0 7.8 9.7 9.5	.53 .58 .53 .50 .41	15 13 13 12 11	18 20 19 22 22	22 18 15 13 11	92 70 64 82 69
26 27 28 29 30 31	e5.0 e5.0 e5.0 e4.8 e4.5 e4.2	e18 e15 e12 e9.8 e9.0	e7.0 e7.8 e12 e18 e18 e16	e8.0 e7.8 e7.5 e7.2 e7.4 e8.2	14 14 15 	28 27 25 25 30 34	13 12 9.6 8.0 e5.1	.36 .33 .78 e6.0 e8.2 e7.0	9.9 10 10 14 16	19 25 23 18 15 21	9.6 9.0 e11 e12 e13 29	58 44 e43 e39 e36
MEAN MAX MIN CFSM IN.	239.3 7.72 17 4.2 .25 .29	213.0 7.10 18 4.6 .23 .26	253.1 8.16 18 6.2 .26 .30	265.3 8.56 16 7.2 .28 .32	348.8 12.5 17 8.1 .40 .42	986 31.8 118 14 1.03 1.19	424.7 14.2 29 5.1 .46 .51	94.05 3.03 8.2 .33 .10 .11	342.30 11.4 25 .80 .37 .41	557.4 18.0 36 9.4 .58 .67	895.6 28.9 101 9.0 .93 1.08	11344 378 1800 36 12.2 13.66
MEAN MAX (WY) MIN (WY)	53.3 382 1997 1.52 1981	18.9 123 1970 1.45 1991	23.7 157 1998 2.36 1981	35.3 101 1994 2.31 1981	59.0 366 1998 6.35 1981	47.1 151 1970 7.97 1985	27.1 170 1973 1.96 1977	17.3 122 1979 .90 1981	35.0 167 1991 .89 2000	36.3 198 1991 .98 1977	49.9 220 1968 3.41 2000	73.3 378 2001 1.22 1990
ANNUAL TANNUAL MIGHEST LOWEST ANNUAL SANNUAL SANNUAL RANNUAL R	COTAL ANNUAL M ANNUAL M DAILY M DAILY M PEAK FL PEAK ST RUNOFF (CENT EXCE	MEAN EAN EAN AN Y MINIMUM OGE CFSM) INCHES) EDS EDS		4682.55 12.8 e330 e.25 e.49 .41 5.64 20 6.8 1.0	Sep 8 5 Jun 11 6 Jun 5	F(Sep 15 May 27 May 21 Sep 15 Sep 15	; ;	39.4 69.8 9.85 3570 .02 4640 40.37 1.27 17.32 90 12 2.1	Oct Jun 8-1 Jun Oct Oct	- 2001 1995 1981 8 1996 11 1985 5 1985 7 1996 7 1996

e Estimated

02246435 FISHING CREEK AT WESCONNET BLVD. AT JACKSONVILLE, FL

WATER-QUALITY RECORDS

LOCATION.--Lat 30°14'10", long 81°44'22", in SE^{1}_{4} sec.18, T.3 S., R.26 E., Duval County, Hydrologic Unit 03080103, at upstream side of culvert on Wesconnet Boulevard, 2.7 miles upstream from mouth.

DRAINAGE AREA.--1.03 mi^2 .

GAGE. -- Non-recording gage. Datum of gage is undetermined.

PERIOD OF RECORD. -- February 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)
OCT 10	0830		6.3	7.2			243	15.0					
NOV 28	0945		5.8	7.2			247	12.5					
DEC 12	1120	.170	4.6	7.3			253	17.1					
JAN 16	0845		6.1	7.6			257	12.6					
FEB 06	0930	.34	7.9	7.2	7.7	266	244	10.2	98	30	5.7	4.1	12
MAR 13	0945		2.6	7.7			273	21.0					
APR 10	0900		2.9	7.3			258	20.5					
JUL 09	0830		1.0	7.1			269	26.2					
AUG 21	0755	.48	3.7	7.0	7.2	172	168	25.3	74	24	3.3	2.4	6.7
SEP 10	0800		3.3	7.3			185	24.2					
15	0915	75	5.0	7.2			72	21.3					
DATE	ANC UNFLITRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS-PHORUSORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
DEC 12 FEB						.03	.63	<.02	<.01	.10	.14		
06 AUG	66	24	<.10	5.0	20	<.010	.65	<.02	<.01	.06	.05	214	12
21 SEP	E52cl	10	<.1	8.9	11	.08	1.3	.07	<.01	.12	.16	567	14
15						.04	1.2	<.02	<.01	.10	.13		

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) ^{2}$

02246437 FISHING CREEK AT 110th STREET AT JACKSONVILLE, FL

WATER-QUALITY RECORDS

LOCATION.--Lat $30^{\circ}14^{\circ}27^{\circ}$, long $81^{\circ}43^{\circ}54^{\circ}$, in $NE^{1/}_{4}$ sec.18, T.3 S., R.26 E., Duval County, Hydrologic Unit 03080103, at downstream side of bridge on 110th Street, 1.9 miles upstream from mouth.

DRAINAGE AREA.--1.29 mi².

GAGE.--Non-recording gage. Datum of gage is undetermined.

PERIOD OF RECORD. -- February 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)
OCT 10	0900		6.2	7.2			294	15.2					
NOV													
28 DEC	1030		5.2	7.1			312	13.0					
12 JAN	1300	.27	2.9	7.0			284	17.2					
16	0930		5.3	6.7			279	13.1					
FEB 06	1045	.48	7.6	6.9	7.7	320	309	10.6	110	35	5.8	3.6	19
MAR 13	1015		3.4	7.3			302	20.0					
APR 10	0930		2.4	7.0			296	20.0					
JUN 06	0900		1.3	7.0			295	24.5					
JUL 09	0930		2.5	7.0			284	26.0					
AUG 21	0940	1.0	5.2	7.2	7.8	237	234	25.2	94	31	4.0	2.4	13
SEP 10 15	0820 1000	107	5.4 5.4	7.0 7.3			224 63	24.2 21.4					
DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
DEC 12 FEB						.06	.56	<.02	<.01	.09	.11		
06	83	30	.14	9.1	23	.043	.47	.10	<.01	.05	.04	510	19
AUG 21	72	19	.1	12	13	.09	1.2	.15	<.01	.10	.14	811	27
SEP 15						.05	1.1	.03	<.01	.13	.15		

< -- Less than

02246465 SOUTH BRANCH BIG FISHWEIR CREEK AT CASSAT AVE. AT JACKSONVILLE, FL

WATER-QUALITY RECORDS

LOCATION.--Lat $30^{\circ}17'35"$, long $81^{\circ}43'51"$, in SW $^{1}_{4}$ sec.29, T.2 S., R.26 E., Duval County, Hydrologic Unit 03080103, at upstream side of culvert on Cassat Avenue, 0.7 miles upstream from North Branch Big Fishweir Creek, 1.8 miles upstream from mouth.

DRAINAGE AREA.--0.34 mi².

GAGE.--Non-recording gage. Datum of gage is undetermined.

PERIOD OF RECORD. -- February 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 10	0930		634		7.5		16.0	5.4					
NOV 28	1115		597		7.5		14.0	5.9					
DEC 13	0945	.08	622		7.2		16.2	3.2	.030	<.010	.31	<.020	.160
JAN 16	1015		622		6.7		15.0	4.9					
FEB 07	0800	.16	602	610	7.3	7.8	11.4	6.7	.056	.010	.34	.080	.070
MAR 13	1045		543		7.4		21.0	3.9					
APR 10	1000		628		7.3		21.0	3.7					
MAY 15	1120	.04	577		6.9		22.2	2.6	.165	<.010	.64	.060	.200
JUN 06	0930		605		7.3		25.0	3.1					
JUL 09	1000		341		7.2		26.1	3.8					
AUG 21	1050	1.5	620	593	7.4	8.2	26.3	4.3	1.70	.040	2.5	.360	.330
SEP 10 15	0930 1245	9.9	605 237		7.3 7.3		25.1 21.7	5.4 6.6	.090	<.010	1.1	.260	.640
DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
DEC 13	.070												
FEB				10.0	20.0		107		27.0	0	15.0		
07 MAY	.040	250	81.0	12.0	29.0	3.40	187	73.0	37.0	.2	17.0	220	52.0
15 AUG	.080												
21 SEP	.140	250	82.0	11.0	25.0	4.20	185	65.0	36.0	.3	18.0	150	84.0
15	.590												

< -- Less than

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

02246467 SOUTH BRANCH BIG FISHWEIR CREEK AT BLANDING BLVD. AT JACKSONVILLE, FL

WATER-QUALITY RECORDS

LOCATION.--Lat $30^{\circ}17'35"$, long $81^{\circ}43'27"$, in SE^{1}_{4} sec.29, T.2 S., R.26 E., Duval County, Hydrologic Unit 03080103, at upstream side of culvert on Blanding Blvd., 0.2 miles upstream from North Branch Big Fishweir Creek, 1.8 miles upstream from mouth.

DRAINAGE AREA.--0.57 mi². GAGE. -- Non-recording gage.

PERIOD OF RECORD. -- February 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			***************************************	20112111 2	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TODELL EUG	0 10 0011	DI IDDIC DOO	-			
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 10 NOV	1000		635		7.4		16.2	4.7					
28	1140		612		7.4		15.0	4.7					
DEC 13	0845	.20	618		6.5		16.3	2.8	.290	.050	.70	.620	.190
JAN 16	1045		633		7.4		15.0	4.6					
FEB 07	0910	. 25	610	621	7.2	7.9	11.5	6.8	.165	.030	.54	.620	.080
MAR 13	1115		431		7.5		21.2	2.2					
APR 10	1045		613		7.3		21.0	2.2					
MAY 15	1210	.26	563		7.1		21.6	2.3	.284	.050	.92	.590	.340
JUN 06	1000		622		7.3		25.0	2.7					
JUL 09	1030		333		7.5		26.1	2.9					
AUG 22	0800	.12	599	584	6.7	8.0	25.7	4.1	.150	.070	.90	1.10	.190
SEP 10 15	0950 1345	 16	578 281		7.4 7.3		25.2 22.0	4.7 5.7	.170	.020	1.2	 .450	 E.530cl
DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
DEC 13	.120												
FEB 07	.060	250	83.0	11.0	29.0	3.40	182	83.0	35.0	.2	14.0	80	66.0
MAY 15	.220												
AUG 22	.120	250	81.0	11.0	25.0	3.80	179	70.0	35.0	.2	16.0	60	27.0
SEP 15	E.020cl												

 $^{{\}tt E}$ -- Estimated value cl-- Holding time exceeded by the laboratory

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL

LOCATION.--Lat 30°19'20", long 81°39'56", in land grant 44, T.2 S., R.26 E., Duval County, Hydrologic Unit 03080103, near center of channel under the Acosta Bridge at Jacksonville, 2.6 mi upstream from Arlington River, and 23.0 mi upstream from mouth.

DRAINAGE AREA.--8,850 mi², includes Paynes Prairie, a diked sinkhole area of about 650 mi², which is noncontributing except for pumpage.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1954 to September 1970 (volume of flow), October 1970 to September 1971 (gage heights only) October 1971 to September 1974, October 1974 to September 1980 (gage heights only), October 1980 to September 1981, October 1981 to June 1987 (gage heights only), July 1987 to September 1993, October 1993 to July 1996 (gage heights only), August 1996 to current year.

REVISED RECORDS.--WDR FL-92-1A: Drainage area.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 9.99 ft below sea level. Apr. 13, 1966 to Sept. 30, 1971, at site 0.6 mi downstream at same datum. October 1971 to September 1986, water-stage and deflection meter recorder at site 200 ft upstream at same datum. October 1986 to July 1996, water-stage recorder 0.3 mi downstream at same datum. July 24, 1984 to Mar. 13, 1996, auxiliary water-stage recorder about 5.4 mi downstream.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Discharge represents the net of much larger upstream and downstream discharges. The stage record published is the maximum and minimum tide event for each calendar day.

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

		DISCH	ARGE, CUB	IC PEEL PI		Y MEAN V		SR 2000 IC) SEPIEMBI	SR 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-9080	11700	-2390	15300	10000	-4180	11500	-7980	-1090	3110	-5630	12300
2	14400	9990	-10100	3620	965	9260	-3650	-6390	11400	7440	10400	8460
3	12000	8680	-37000	-193	-4200	15400	2260	-3940	8600	5630	18500	2940
4	5150	3540	-23200	2210	-21000	10200	-8900	-5480	5360	4980	23500	6910
5	17500	-8130	1260	8630	672	7680	-21700	-4490	10700	20400	21500	17400
6	21000	-11400	9300	4240	7620	-20700	4460	3010	12600	18400	21300	12600
7	141	13100	5710	-4220	3340	-27300	17500	-24200	11400	3120	14300	-2120
8	-21200	7070	9590	9620	6830	-14600	18800	-5490	9530	2520	11500	3120
9	-28500	11100	6430	2840	10600	1150	15700	10800	245	11000	17100	13500
10	3420	8940	-6730	-2820	22900	-13300	11800	14300	5560	5820	16900	16400
11	12600	-16400	2980	5610	1880	-1420	7570	14700	506	8140	18500	10500
12	9840	-4680	18500	9520	-5630	11000	10400	18500	14800	10300	11100	-11900
13	4530	4710	1290	-17000	10200	32900	19300	8710	11300	-2740	e3500	-14800
14	8890	16800	21800	681	7800	20400	343	-9280	5320	-32300	e7000	-40200
15	15900	6780	18400	15000	2550	22200	-4370	938	4100	-1340	e-1000	-17700
16	14400	12500	11200		4310	13200	-3460	-2640	4180	-5310	-6060	44000
17	10700	14800	43400		-3250	-1120	-5080	-18200	-12400	-6620	4360	58200
18	12200	-1240	-1610		-31300	-26100	-15500	-10000	-16100	4000	12800	e52100
19	6250	-22100	1810		-8680	-55300	8180	3140	-2350	11200	21800	e54100
20	-6690	-10600	6230		4110	4290	2440	5010	1020	11400	20900	e53400
21	-233	20700	-3940	3390	5780	40300	5120	7120	4070	-7190	14300	e45900
22	-6010	9060	1470	-19300	3700	16200	7380	14700	14000	-10900	7110	e37800
23	-23600	12800	-18400	-23100	-17900	73	5530	3800	15400	25700	8630	31200
24	-16100	390	-2150	10500	-4130	15200	13500	5560	6130	36700	12700	32500
25	-1480	11600	-11100	9790	7200	19200	12400	10400	2750	16000	-2000	e28600
26 27 28 29 30 31	-2690 7740 17000 8150 10200 17800	19700 18600 13800 11400 10700	-5120 19300 4700 -10400 36600 25000	2500 19000 12300 7210 27100 20400	12500 1590 3330 	6350 3720 -12700 25400 27400 17100	-15900 10400 11300 -2660 -12900	8870 4070 13100 15500 -5040 -6670	7070 -1910 -5880 -7470 -1430	11300 10200 865 -2380 13000 -9080	-16400 -992 10100 8950 5300 7660	e31700 e15100 e13100 e-29300 7350
TOTAL	114228	183910	112830	154348	31787	141903	101763	52428	117411	163365	297628	493160
MEAN	3685	6130	3640	4979	1135	4578	3392	1691	3914	5270	9601	16440
MAX	21000	20700	43400	27100	22900	40300	19300	18500	15400	36700	23500	58200
MIN	-28500	-22100	-37000	-23100	-31300	-55300	-21700	-24200	-16100	-32300	-16400	-40200
STATIS	STICS OF	MONTHLY MI	EAN DATA	FOR WATER	YEARS 197	2 - 2001	, BY WATER	R YEAR (W)	(1)			
MEAN	10990	8457	8410	7260	7706	5835	7107	4920	8649	8485	8723	9007
MAX	20260	18700	19680	19960	24320	23660	16550	19210	22490	28730	25520	17800
(WY)	1992	1992	1998	1992	1998	1998	1992	1993	1993	1993	1974	1992
MIN	1667	266	-3475	-4023	-1814	-4920	-1826	-10430	-8294	1030	874	-1208
(WY)	1973	1974	1993	1974	1974	1974	1974	1973	1973	1997	2000	1981
SUMMAF	RY STATIS	TICS	FOR	2000 CAL	ENDAR YEAR	:	FOR 2001 V	VATER YEAR	2	WATER Y	YEARS 197	2 - 2001
ANNUAL HIGHES LOWEST ANNUAL MAXIMU 10 PER 50 PER	ST ANNUAL CANNUAL : ST DAILY ! CDAILY M	MEAN MEAN MEAN EAN AY MINIMUI TAGE EEDS EEDS		1352779 3696 55300 -43900 -17700 17900 5030 -13600	Sep 18 May 30 May 26		1964761 5383 58200 -55300 -9780 14.2 19500 6230 -12100	Sep 17 Mar 19 Mar 5 23 Sep 16		7955 15640 4086 73500 -63400 -17700 15.2 25500 8360 -9540	Feb Oct May 20 Sep	1992 1973 18 1998 16 1999 26 2000 10 1964

e Estimated

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL--Continued GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			GAGE HE	IGHT, FEE	II, WAIER	YEAR OCTO	DBER 2000 '	TO SEPTEM	IBER 2001			
DAY	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
	OCTO	OBER	NOVE	EMBER	DECI	EMBER	JAN	JARY	FEBI	RUARY	MAI	RCH
1 2 3 4 5	12.81 12.82 12.48 12.30 12.15	11.39 11.37 11.10 11.06 10.83	12.23 12.18 12.09 12.08 12.13	10.80 10.79 10.73 10.72 10.69	11.45 11.64 11.91 12.10 12.04	9.85 10.16 10.67 10.76 10.73	10.87 10.71 10.86 10.87 11.05	9.27 9.16 9.38 9.30 9.51	10.61 10.59 10.64 11.08 11.28	8.92 8.88 9.00 9.37 9.46	11.24 11.32 11.10 11.04 10.49	9.72 9.63 9.29 9.65 8.54
6 7 8 9 10	11.97 11.90 12.15 12.48 12.32	10.63 10.47 10.71 10.80 10.92	12.38 12.23 12.10 12.15 11.92	11.10 10.82 10.63 10.60 10.26	11.96 11.82 11.74 11.69 11.86	10.64 10.36 10.14 9.84 9.84	10.87 11.10 11.29 11.03 11.28	9.06 9.07 9.11 8.67 8.83	11.15 11.22 11.27 11.33 11.15	9.12 9.04 9.02 9.04 8.98	10.52 11.26 11.63 11.63 11.82	8.37 8.66 9.39 9.73 9.74
11 12 13 14 15	12.17 12.16 12.22 12.28 12.26	10.70 10.60 10.57 10.67	12.25 12.40 12.45 12.24 12.13	10.11 10.58 10.63 10.39 10.18	12.05 11.94 11.97 12.02 11.60	10.02 9.96 9.74 10.10 9.72	11.34 11.39 11.59 11.76 11.61	9.15 9.14 9.46 10.10 9.77	11.01 11.33 11.29 11.10 10.94	8.91 9.50 9.48 9.40 9.29	11.87 11.84 11.75 11.21 11.26	10.15 10.05 9.62 9.33 9.35
16 17 18 19 20	12.26 12.27 12.26 12.19 12.35	10.55 10.60 10.60 10.58 10.76	12.19 11.99 11.88 12.12 12.27	10.43 10.26 10.20 10.64 10.68	11.85 11.70 10.95 11.12 10.77	9.95 9.02 9.10 9.31 8.87	11.29 11.14 11.32 11.26 11.17	9.53 9.60 9.88 9.80 9.25	10.88 10.93 11.08 11.37 11.30	9.25 9.18 9.18 9.80 9.84	10.94 10.82 10.97 11.97	9.39 9.13 9.53 10.77 11.32
21 22 23 24 25	12.28 12.25 12.42 12.63 12.61	10.64 10.61 10.73 11.05	11.84 11.68 11.64 11.81 12.17	10.07 9.85 9.92 9.87 10.27	11.01 11.07 11.17 11.36 11.36	9.07 9.20 9.05 9.44 9.53	10.68 10.86 11.49 11.54 11.11	8.73 8.85 9.54 9.95 9.48	11.11 11.18 11.30 11.47 11.35	9.49 9.35 9.45 9.81 9.77	11.85 11.30 11.46 11.47 11.29	10.21 9.74 9.65 9.83 9.54
26 27 28 29 30 31	12.63 12.61 12.53 12.41 12.45 12.29	11.03 11.10 10.94 10.80 10.93 10.85	11.76 11.58 11.43 11.44 11.28	9.98 9.79 9.65 9.73 9.64	11.51 11.53 11.41 11.85 11.57	9.89 9.94 9.76 10.21 9.58 9.33	11.34 11.20 10.99 11.13 11.09 10.76	9.65 9.56 9.39 9.53 9.26 9.00	11.15 11.09 11.19 	9.43 9.45 9.51 	11.27 11.22 11.45 12.00 11.59 11.26	9.57 9.51 9.83 10.03 9.57 9.47
MAX MIN	12.82 11.90	11.39 10.47	12.45 11.28	11.10 9.64	12.10 10.77	10.76 8.87	11.76 10.68	10.10 8.67	11.47 10.59	9.84 8.88	12.71 10.49	11.32 8.37
DAY	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
DAY		LOW	HIGH			LOW		LOW		LOW		LOW EMBER
DAY 1 2 3 4 5												
1 2 3 4	APF 11.14 11.02 11.21 11.18	9.11 9.37 9.56 9.30	11.35 11.40 11.42 11.41	9.86 9.94 9.81 9.73	J1.53 11.32 11.26 11.18	9.66 9.43 9.28 9.29	J1.56 11.48 11.51 11.52	9.83 9.68 9.63 9.60	AUG 12.20 12.11 12.01 11.87	10.44 10.41 10.30 10.12	SEPT 11.59 11.68 11.97 12.05	9.81 9.90 10.20 10.40
1 2 3 4 5 6 7 8 9	APP 11.14 11.02 11.21 11.18 11.59 11.64 11.45 11.35 11.37	9.11 9.37 9.56 9.30 9.45 9.82 9.47 9.29 9.32	MI 11.35 11.40 11.42 11.41 11.51 11.54 11.98 11.94 11.81 11.59 11.62 11.49 11.49	9.86 9.94 9.81 9.73 9.74 9.70 9.93 10.31 10.21	11.53 11.32 11.26 11.18 11.21 11.09 11.10 10.89 11.22	9.66 9.43 9.28 9.29 9.24 9.26 9.23 9.31 9.39	11.56 11.48 11.51 11.52 11.33 11.17 10.94 11.34	9.83 9.68 9.63 9.60 9.47 9.34 9.73 9.62	12.20 12.11 12.01 11.87 11.83 11.81 11.71 11.79 11.79	10.44 10.41 10.30 10.12 10.03 10.14 10.22 10.24 10.26	SEPT 11.59 11.68 11.97 12.05 11.93 11.88 12.14 12.19	9.81 9.90 10.20 10.40 10.43 10.33 10.55 10.80 10.77
1 2 3 4 5 6 7 8 9 10 11 12 2 13	11.14 11.02 11.21 11.18 11.59 11.64 11.45 11.35 11.37 11.21 11.40 11.45 11.31	9.11 9.37 9.56 9.30 9.45 9.82 9.47 9.29 9.32 9.46 9.65 9.65 9.67 9.40	M2 11.35 11.40 11.42 11.41 11.51 11.54 11.94 11.81 11.59 11.62 11.49 11.34 11.34	9.86 9.94 9.81 9.73 9.74 9.70 9.93 10.31 10.21 10.10 10.01 9.72 9.80 10.17	11.53 11.32 11.26 11.18 11.21 11.09 11.10 10.89 11.22 11.34 11.39 11.45 11.14	9.66 9.43 9.28 9.29 9.24 9.26 9.23 9.31 9.31 9.39 9.62 9.87 9.85 9.61	11.56 11.48 11.51 11.52 11.33 11.17 10.94 11.34 11.39 11.26 11.40 11.27 11.28 11.69 11.69	9.83 9.68 9.63 9.60 9.47 9.34 9.40 9.73 9.62 9.79 9.82 9.77 9.59 10.28	12.20 12.11 12.01 11.87 11.83 11.81 11.71 11.79 11.78 11.71 11.43 11.33 11.28	10.44 10.41 10.30 10.12 10.03 10.14 10.22 10.24 10.26 10.03 9.80 9.64 9.32	SEPT: 11.59 11.68 11.97 12.05 11.93 11.88 12.14 12.19 12.20 11.99 11.97 12.22 12.71 13.23	9.81 9.90 10.20 10.40 10.43 10.33 10.55 10.80 10.77 10.45 10.34 11.00 11.35 12.22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	11.14 11.02 11.21 11.18 11.59 11.64 11.45 11.35 11.37 11.21 11.40 11.45 11.31 10.99 11.21 11.21 11.20	9.11 9.37 9.56 9.30 9.45 9.82 9.47 9.29 9.32 9.46 9.65 9.67 9.40 9.72 9.56 9.83 9.15	11.35 11.40 11.42 11.41 11.51 11.54 11.94 11.81 11.59 11.62 11.49 11.34 11.42 11.58	9.86 9.94 9.81 9.73 9.74 9.70 9.93 10.31 10.21 10.10 10.01 9.72 9.80 10.17 10.24	11.53 11.32 11.26 11.18 11.21 11.09 11.10 10.89 11.22 11.34 11.39 11.45 11.14 11.14 10.98	9.66 9.43 9.28 9.29 9.24 9.26 9.23 9.31 9.39 9.62 9.87 9.85 9.61 9.45 9.35	11.56 11.48 11.51 11.52 11.33 11.17 10.94 11.34 11.39 11.26 11.40 11.27 11.28 11.69 11.69 11.63 11.67 11.74 11.73 11.91	9.83 9.68 9.63 9.60 9.47 9.34 9.40 9.73 9.62 9.79 9.82 9.77 9.59 10.28 10.22 10.08 9.98 9.90 9.77 9.61 10.11 10.57	12.20 12.11 12.01 11.87 11.83 11.81 11.71 11.79 11.78 11.71 11.43 11.33 11.28 11.27 11.65	10.44 10.41 10.30 10.12 10.03 10.14 10.22 10.24 10.26 10.03 9.64 9.32 9.60 9.88 9.83 9.63 9.63	SEPT: 11.59 11.68 11.97 12.05 11.93 11.88 12.14 12.19 12.20 11.99 11.97 12.22 12.71 13.23 14.14 14.23 13.95 13.67 13.47 13.02 12.78	9.81 9.90 10.20 10.40 10.43 10.33 10.55 10.80 10.77 10.45 11.00 11.35 12.22
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	11.14 11.02 11.21 11.18 11.59 11.64 11.35 11.37 11.21 11.40 11.45 11.31 10.99 11.21 11.20 11.15 11.17 11.20	9.11 9.37 9.56 9.30 9.45 9.82 9.47 9.29 9.32 9.46 9.65 9.67 9.40 9.72 9.56 9.83 9.15 9.68 9.59	11.35 11.40 11.42 11.41 11.51 11.54 11.94 11.81 11.59 11.62 11.49 11.34 11.42 11.58 11.34 11.42 11.58	9.86 9.94 9.81 9.73 9.74 9.70 9.93 10.31 10.21 10.10 10.01 9.72 9.80 10.17 10.24 10.01 10.30 10.40 10.40 10.40 10.40 10.40 10.40 10.40 10.40 10.40 10.40 10.40 10.40 10.87	11.53 11.32 11.26 11.18 11.21 11.09 11.10 10.89 11.22 11.34 11.39 11.45 11.14 11.14 10.98 10.97 11.12 11.50 11.57	9.66 9.43 9.28 9.29 9.24 9.26 9.23 9.31 9.39 9.62 9.87 9.85 9.61 9.45 9.35	11.56 11.48 11.51 11.52 11.33 11.17 10.94 11.39 11.26 11.40 11.27 11.28 11.69 11.69 11.69 11.74 11.74 11.73 11.91	9.83 9.68 9.63 9.60 9.47 9.34 9.40 9.73 9.62 9.79 9.82 9.77 9.59 10.28 10.22 10.08 9.98 9.90 9.77 9.61 10.11 10.57 10.72 9.91	12.20 12.11 12.01 11.87 11.83 11.81 11.71 11.79 11.78 11.71 11.43 11.27 11.65 11.93 11.96 11.78 11.74 11.75 11.75 11.76 11.77 11.73	10.44 10.41 10.30 10.12 10.03 10.14 10.22 10.24 10.26 10.03 9.64 9.32 9.60 9.83 9.83 9.63 9.58	SEPT: 11.59 11.68 11.97 12.05 11.93 11.88 12.14 12.19 12.20 11.99 11.97 12.22 12.71 13.23 14.14 14.23 13.95 13.67 13.47 13.02 12.78	9.81 9.90 10.20 10.40 10.43 10.33 10.55 10.80 10.77 10.45 11.35 12.22 12.63 12.24
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	11.14 11.02 11.21 11.18 11.59 11.64 11.45 11.35 11.37 11.21 11.40 11.45 11.31 10.99 11.21 11.20 11.15 11.17 11.21 11.20 11.15 11.17 11.21	9.11 9.37 9.56 9.30 9.45 9.82 9.47 9.29 9.32 9.46 9.65 9.67 9.46 9.72 9.56 9.83 9.15 9.27 9.26 9.27 9.27 9.26 9.33	11.35 11.40 11.42 11.41 11.51 11.54 11.94 11.81 11.59 11.62 11.49 11.34 11.42 11.58 11.39 11.72 11.63 11.63 11.64 11.64 11.63 11.56	9.86 9.94 9.81 9.73 9.74 9.70 9.93 10.31 10.21 10.10 10.01 9.72 9.80 10.17 10.24 10.01 10.30 10.40 10.40 10.40 10.40 9.87 9.88 9.64 9.64 9.64 9.64 9.64 9.64 9.64 9.64	11.53 11.32 11.26 11.18 11.21 11.09 11.10 10.89 11.22 11.34 11.45 11.14 11.14 10.98 10.97 11.12 11.50 11.55 11.57 11.51 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.56 11.55	9.66 9.43 9.28 9.29 9.24 9.26 9.23 9.31 9.39 9.62 9.87 9.85 9.61 9.45 9.35 9.45 9.35 9.27 9.25 9.70 9.58 9.53 9.47 9.58 9.59 9.59 9.70 9.58	11.56 11.48 11.51 11.52 11.33 11.17 10.94 11.34 11.39 11.26 11.40 11.27 11.28 11.69 11.69 11.69 11.63 11.67 11.74 11.73 11.91 12.23 12.25 12.42 12.44 11.71 11.50 11.77 11.50 11.77 11.50 11.71 11.44 11.90	9.83 9.68 9.63 9.60 9.47 9.34 9.40 9.73 9.62 9.79 9.82 9.77 9.59 10.28 10.22 10.08 9.98 9.90 9.97 9.61 10.11 10.57 10.72 9.91 9.96 9.95 9.84 9.77 9.96	12.20 12.11 12.01 11.87 11.83 11.81 11.71 11.79 11.78 11.71 11.43 11.33 11.28 11.27 11.65 11.96 11.78 11.74 11.57 11.73 11.79 11.73 11.79 11.73 11.79 11.73 11.79 11.73 11.61	10.44 10.41 10.30 10.12 10.03 10.14 10.22 10.24 10.26 10.03 9.64 9.32 9.60 9.88 9.32 9.67 9.70 9.94 9.94 9.94 9.94 9.94 9.94 9.96 9.84	SEPT: 11.59 11.68 11.97 12.05 11.93 11.88 12.14 12.19 12.20 11.99 11.97 12.22 12.71 13.23 14.14 14.23 13.95 13.67 13.47 13.02 12.78 12.70 12.78 12.70 12.78 12.79 12.29 12.49	9.81 9.90 10.20 10.40 10.43 10.33 10.55 10.80 10.77 10.45 11.35 12.22 12.63 12.24 11.12 11.13

MAXIMUM 14.23 MINIMUM 10.49 MAXIMUM 12.63 MINIMUM 8.37

YEAR HIGH LOW

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL--Continued

WATER-OUALITY RECORDS

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PERIOD OF DAILY RECORD.
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SPECIFIC CONDUCTANCE (TOP, MIDDLE, BOTTOM): May 1995 to current year. WATER TEMPERATURE (TOP, MIDDLE, BOTTOM): May 1995 to current year. DISSOLVED OXYGEN (TOP, MIDDLE, BOTTOM): March 1996 to current year.

INSTRUMENTATION .-- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 48,800 µS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 308 µS/cm @ 25 °C,

Mar. 10, 1998.

SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 48,800 µS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 309 µS/cm @ 25 °C,

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 48,900 µS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 309 µS/cm @ 25 °C,

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 46,500 µs/cm w 25 c, sept. 15, 1227 minimum dail, mean, 305 µs/cm w 25 c, sept. 17, 1227 minimum dail, mean, 30 pc, 500 c, Mar. 10, 1998.

WATER TEMPERATURE (TOP): Maximum daily mean, 32.3 °C, Aug. 1, 1999; minimum daily mean, 9.1 °C, Jan. 4,5, 2001.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 32.3 °C, Aug. 1, 1999; minimum daily mean, 9.1 °C, Jan. 10, 1996.

WATER TEMPERATURE (BOTTOM): Maximum daily mean, 32.3 °C, Aug. 1, 1999; minimum daily mean, 8.6 °C, Jan. 5, 2001.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 12.4 mg/L, Nov. 9, 1999; minimum daily mean, 3.7 mg/L, July 16, 1998.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 12.6 mg/L, Nov. 9, 1999; minimum daily mean, 3.0 mg/L, July 14, 1998.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 12.5 mg/L, Nov. 9, 1999; minimum daily mean, 4.1 mg/L, Sept. 27,28, 2001.

EXTREMES FOR CURRENT YEAR-

TREMES FOR CURRENT YEAR-
SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 40,800 µS/cm @ 25 °C, May 8; minimum daily mean, 999 µS/cm @ 25 °C, Sept. 27.

SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 41,200 µS/cm @ 25 °C, May 8; minimum daily mean, 999 µS/cm @ 25 °C, Sept. 27.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 41,500 µS/cm @ 25 °C, May 8; minimum daily mean, 991 µS/cm @ 25 °C, Sept. 27.

WATER TEMPERATURE (TOP): Maximum daily mean, 31.2 °C, Aug. 18; minimum daily mean, 8.8 °C, Jan. 4,5.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 31.2 °C, Aug. 18; minimum daily mean, 9.7 °C, Jan. 10.

WATER TEMPERATURE (BOTTOM): Maximum daily mean, 31.1 °C, Aug. 18; minimum daily mean, 8.6 °C, Jan. 5.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 11.0 mg/L, Jan. 6; minimum daily mean, 4.6 mg/L, Sept. 8.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 10.7 mg/L, Jan. 9-11; minimum daily mean, 4.1 mg/L, Sept. 8.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 10.7 mg/L, Jan. 9-11; minimum daily mean, 4.1 mg/L, Sept. 27,28.

SPECIFIC CONDUCTANCE TOP (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	34800 28700 20600 18400 16400	15500 14300 13300 12500 13200	8180 11500 23300 34200 32500	12600 11700 12600 12700 12100	11600 11100 11500 15100 17400	21500 21300 17900 16300 13000	14700 13900 13800 13700 17800	29900 30000 29500 29300 30100	26700 25100 23700 23200 22600	23400 22000 21200 22000 20800	18800 18800 16200 13600 12200	8400 7980 8680 9600 8430
6 7 8 9 10	13500 11900 14100 23700 25900	16100 13600 12000 10900 10100	22600 18700 16100 15000 16100	10000 11100 11500 11600 14500	15800 15700 16100 16000 14800	14100 21400 29000 30200 34700	19600 17300 15600 14900 15100	30200 36200 40800 37200	22000 21400 21100 22400 24300	18800 18600 20600 20500 21800	10400 9170 8390 7700 6570	6990 8810 10400 9160 6100
11 12 13 14 15	21300 18900 18800 18800 17100	12300 17200 17800 16100 16200	18000 16800 17400 17500 14400	16400 17300 23400 28200 22500	14700 21200 21400 18100 15900	37600 33300 28100 24100 22200	15800 16400 15100 14400 17200	 	24700 24200 21100 20100 19100	21000 20200 20100 27300 28100	5400 4550 3980 3610 4760	4860 5250 8420 14500 24500
16 17 18 19 20	15600 15000 14400 13700 15100	16300 14300 14500 19000 24300	14800 10800 8460 8720 7680	18700 18300 19900 19000 15600	14900 14600 21100 26300 20700	19800 19400 21400 33600 38800	19000 21900 27700 23300 20600	 	18500 19000 23000 23900 24500	27100 27200 25500 23500 22500	7730 9060 8720 7620 6300	15100 6090 3690 2080 1170
21 22 23 24 25	14900 15100 18700 25400 25900	18400 15900 13000 12400 12400	8130 9080 13200 18000 21000	13200 15200 25500 26400 23000	18400 18300 22400 25400 22800	27300 22400 21300 21100 19100	19500 18000 17600 17100 16200	 27000 27700	24300 23800 23000 23500 25000	24600 31000 29900 22700 20300	5870 7110 9940 9540 9100	1020 1030 1050 1050 1030
26 27 28 29 30 31	26200 25700 21200 18500 19200 17000	10500 8520 7250 7040 6710	27900 22800 17500 25200 19400 14600	24500 21500 18300 18000 15500 12800	20500 19800 20400 	18500 19100 21700 22600 17500 15800	21900 24500 23100 22300 28900	28100 28700 28200 26100 25400 26300	25900 25700 26100 26300 25100	19100 17700 16300 16700 15600 16100	13500 13100 11000 9450 9190 9310	1010 999 1040 3300 8060
MEAN MAX MIN	19500 34800 11900	13700 24300 6710	17100 34200 7680	17200 28200 10000	17900 26300 11100	23400 38800 13000	18600 28900 13700	30000 40800 25400	23300 26700 18500	22000 31000 15600	9380 18800 3610	6330 24500 999

CAL YR 2000 MEAN 19200 MAX 44900 MIN 1090 WTR YR 2001 MEAN 17800 MAX 40800 MIN 999

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL--Continued

SPECIFIC CONDUCTANCE MIDDLE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ------___ ------___ ---------------18700 7080 22700 26200 16700 ___ ------___ ---MEAN MAX

CAL YR 2000 MEAN 19800 MAX 45400 MIN 1100 WTR YR 2001 MEAN 18600 MAX 41200 MIN 999

MIN

SPECIFIC CONDUCTANCE BOTTOM (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	36000 31200 22600 19400 16900	15700 14600 13500 12800 13300	8480 12500 24600 34800 34000	12700 11800 13000 12500	12400 20800	22100 21900 18300 16500 13100	14700 13900 13800 13800 18000	30800 30800 30200 29800 30400	26900 25300 23800 23300 22700	23700 22100 21300 22100 20900	19200 19200 16400 13700 12300	8670 8230 9080 10100 8820
6	13800	17000	25400	10200	17200	14100	19900	30600	22100	19000	10400	7280
7	12200	14000	20200	11300	15900	21800	17500	36700	21600	18700	9190	9260
8	14500	12300	16600	11700	16300	29800	15700	41500	21300	20900	8410	11100
9	24600	11100	15200	11800	16100	31200	15000	38200	22600	20900	7750	9870
10	26800	10200	16400	14800	15000	35300	15300	34300	24700	22100	6590	6380
11	22000	12500	18300	17000	14900	38900	16100	30700	25300	21500	5400	4910
12	19400	17800	17100	17800	21700	34300	16700	27600	24600	20700	4560	5410
13	19300	18600	17700	24200	21700	28500	15400	25800	21500	20600	3980	8960
14	19400	16700	17900	30200	18800	24200	14700	28000	20400	27900	3630	15000
15	17700	16600	14500	24500	16600	22200	17900	28400	19400	29900	4910	25200
16	16200	16800	14900	19700	15200	19900	19900	26500	18600	28100	8190	15600
17	15600	14700	10900	18700	15000	19500	22800	29900	19100	27700	9540	6160
18	15100	14800	8520	20400	21500	21600	28400	31300	23400	26000	9130	3690
19	14400	19300	8770	19500	28100	33800	24300	29200	24300	23900	7810	2080
20	16000	25200	7720	15800	22200	39600	21200	27800	24900	22600	6390	1160
21	15700	18900	8240	13300	19100	27700	19900	27700	24700	24900	6000	1020
22	15900	16100	9220	15400	18600	22500	18200	26400	24000	31600	7220	1030
23	19400	13100	13400	26300	22800	21400	17800	26600	23200	30300	10300	1050
24	26500	12600	18700	28700	26200	21100	17300	28200	23600	22900	10300	1050
25	26900	12700	21600	23600	23500	19200	16300	28000	25300	20300	9470	1030
26 27 28 29 30 31	26800 26200 21700 18800 19600 17300	10600 8600 7290 7130 6810	28900 24200 18500 26600 18600 14800	25100 22100 18500 18300 16300	21000 20000 20800 	18600 19000 21900 22900 17700 15800	22200 25100 23700 23000 29600	28400 29000 28400 26300 25500	26200 26000 26400 26700 25600	19200 17800 16400 16800 15500 16200	10200 9730 9390 9630	1010 991 1030 3420 9050
MEAN	20300	14000	17700	18100	19300	23700	18900	29700	23600	22300	9270	6590
MAX	36000	25200	34800	30200	28100	39600	29600	41500	26900	31600	19200	25200
MIN	12200	6810	7720	10200	12400	13100	13800	25500	18600	15500	3630	991

CAL YR 2000 MEAN 20200 MAX 45600 MIN 1110 WTR YR 2001 MEAN 18700 MAX 41500 MIN 991

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL--Continued

		TEMPI	ERATURE,	WATER TOP		, WATER Y		R 2000 TO) SEPTEMBI	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	25.1 24.8 24.7 25.2 25.6	22.4 22.4 22.4 22.5 22.6	15.7 16.0 16.2 15.8 14.9	9.5 9.2 9.0 8.8 8.8	13.8 13.7 13.5 13.3	20.4 20.8 21.3 21.3 20.2	18.8 18.8 19.1 19.6 19.6	22.6 22.7 22.8 23.1 23.5	27.9 27.8 28.0 28.6 29.1	29.4 29.9 30.3 30.3	29.8 29.4 29.1 29.1 29.0	30.7 30.4 30.2 30.1 30.1
6 7 8 9 10	26.2 26.3 25.7 24.1 22.6	22.7 22.9 23.2 23.3 23.2	13.9 13.9 14.1 14.7 15.1	9.0 9.4 9.9 9.9 9.7	13.7 14.1 14.6 15.2 15.7	18.9 17.7 16.7 16.2 16.0	20.1 21.1 21.9 22.6 23.2	23.9 23.7 23.6 23.7	29.3 29.5 29.4 29.2 28.7	30.6 30.8 30.7 30.7	28.7 29.0 29.4 29.8 30.1	29.8 29.8 29.7 29.3 29.2
11 12 13 14 15	21.7 21.5 21.5 21.6 21.6	22.6 22.2 21.8 21.5 20.5	15.4 15.8 16.0 16.4 16.7	9.9 10.4 10.7 11.1 11.5	15.8 15.5 15.3 15.8 16.6	16.2 17.4 18.5 18.9 19.2	23.6 24.0 24.5 24.8 24.8	 	28.3 27.8 27.7 28.0 28.2	30.4 30.4 30.2 30.0 29.5	30.0 30.1 30.4 30.5 30.4	29.0 28.7 28.2 27.4 25.9
16 17 18 19 20	21.6 21.7 21.9 22.1 22.2	20.1 19.9 19.3 19.0 18.4	17.0 17.2 16.0 15.2	12.1 12.5 12.9 13.6 13.9	17.3 17.7 17.2 16.9 17.6	19.7 19.7 19.1 18.0 17.6	24.5 23.8 22.4 21.9 22.1	 	28.5 28.7 28.8 29.0 29.3	29.1 29.0 29.3 29.7 29.8	30.6 31.0 31.2 30.9 30.9	24.7 24.7 25.0 25.3 25.7
21 22 23 24 25	22.2 22.4 22.5 22.4 22.2	17.0 16.0 15.3 15.4 16.1	12.9 13.0 12.7 12.7 12.4	13.1 12.9 12.5 12.3 12.1	18.2 18.6 18.2 17.9 18.7	17.2 16.8 17.3 17.8 18.2	22.5 22.8 23.3 23.9 23.8	 27.5 27.2	29.6 29.4 29.0 28.9 29.2	29.5 29.5 29.5 28.8 28.8	31.0 30.9 30.7 30.5 30.5	26.2 26.7 26.9 27.0 26.9
26 27 28 29 30 31	22.4 22.3 22.4 22.6 22.6 22.5	16.2 16.1 16.0 16.0 15.8	12.2 12.2 12.4 12.1 11.1 10.0	11.8 11.9 12.2 12.7 13.3 13.7	19.6 20.0 20.3 	18.1 17.7 17.5 17.5 17.8 18.4	23.0 22.6 22.9 22.9 22.6	27.3 27.5 27.4 27.4 27.6 27.9	29.3 29.5 29.2 28.9 29.0	29.1 29.3 29.6 30.0 30.3 30.2	30.4 30.2 30.5 30.8 31.0	26.3 25.9 25.7 25.2 24.3
MEAN MAX MIN	23.0 26.3 21.5	19.8 23.3 15.3	14.3 17.2 10.0	11.3 13.9 8.8	16.4 20.3 13.3	18.3 21.3 16.0	22.4 24.8 18.8	25.3 27.9 22.6	28.8 29.6 27.7	29.9 30.8 28.8	30.2 31.2 28.7	27.5 30.7 24.3

MEAN 22.1 CAL YR 2000 MAX 30.8 MIN 10.0 WTR YR 2001 MEAN 22.2 MAX 31.2 MIN 8.8

TEMPERATURE, WATER MIDDLE (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY ОСТ NOV DEC MAT FEB MAR APR MAY TITIN JUL ATIG SEP 25.2 22.3 15.6 13.9 20.4 18.8 22.6 27.9 29.4 29.8 30.7 2 24.9 24.9 22.3 22.3 15.9 16.1 ___ 13.7 13.5 20.7 18.8 19.1 22.7 22.8 29.9 30.3 29.4 29.1 27.8 30.4 3 ---28.0 30.3 19.6 4 25.3 15.7 ---13.3 21.3 23.1 28.6 30.3 29.1 30.1 5 25.7 22.5 14.9 ---13.5 20.2 19.6 23.5 29.1 30.4 29.0 30.1 18.9 17.7 16.6 6 7 26.3 22.6 13.9 13.7 20.1 24.0 29.3 30.6 28.7 29.8 22.8 29.0 29.4 26.4 25.8 21.1 21.9 23.7 23.6 30.8 30.7 29.8 13.8 14.1 29.6 8 23.1 14.0 10.0 14.6 29.4 29.7 q 24.2 23.2 14.6 9.9 15.2 15.7 16.2 22.6 23.7 29.2 30.7 29.8 29.4 9.7 10 22.7 16.0 23.2 24.0 29.2 23.1 15.0 28.7 30.6 30.1 22.5 22.0 21.7 15.3 15.7 15.9 15.8 16.1 17.3 18.5 11 12 21.7 9.9 23.6 24.0 24.5 28.3 30.4 30.0 29.0 24.8 27.8 27.7 $\frac{21.4}{21.4}$ 10.4 10.7 15.5 15.3 30.1 30.4 30.4 30.2 28.7 13 24.5 25.0 28.3 14 21.5 21.4 16.3 11.1 15.8 18.9 24.8 25.3 25.7 28.1 30.1 30.5 27.5 15 21.5 20.4 11.5 19.2 24.7 28.2 29.6 30.4 26.0 16.6 16.6 17.0 19.7 26.2 28.5 28.7 30.6 24.8 24.7 16 21.5 20.0 12.1 17.2 24.5 29.2 17.7 17.1 19.7 19.1 26.6 27.0 31.0 23.8 17 21.6 19.8 17.1 12.4 29.0 ---29.3 29.7 18 21.8 19.2 12.9 22.4 28.8 31.2 25.0 27.0 18.9 19 22.0 13.6 16.8 18.0 21.9 29.0 30.9 25.3 17.5 25.7 20 22.1 18.3 13.9 17.6 22.1 27.0 29.3 29.8 30.9 21 22.1 17.0 ---13.1 18.1 17.2 22.5 27.2 29.6 29.5 31.0 26.2 22 22.3 15.9 16.8 22.8 27.5 30.9 26.7 12.9 18.6 29.4 29.5 15.2 15.3 17.3 17.8 23 22.4 ___ 12.5 18.2 23.3 27.6 29.1 29.5 26.9 27.4 27.2 27.0 ---29.0 24 22.3 12.3 17.9 23.9 28.8 30.5 25 18.7 16.0 12.1 18.2 23.8 28.8 26.9 19.5 27.3 30.4 26 22.3 16.1 ---11.8 18.1 23.0 29.3 29.1 26.3 27.5 27.5 27.4 27.6 17.7 17.5 17.5 22.3 16.0 11.9 20.0 22.6 29.5 30.3 25.9 25.7 25.3 28 22.3 15.9 ___ 12.2 12.7 20.3 22.8 29.2 29.6 30.5 15.9 22.5 ---22.9 28.9 29 ---30.0 30.8 30 22.5 17.8 22.6 29.0 24.3 31 22 4 ___ 13.6 18.4 30.2 31.0 16.4 20.3 13.3 MEAN 23.0 19.7 15.5 11.9 18.3 22.4 25.6 28.8 29.9 30.2 27.5 23.2 29.6 27.7 31.2 MAX 26.4 17.1 13.9 21.3 24.8 27.9 30.8 30.7 MIN 15.2 13.8 9.7 16.0 18.8 22.6 28.8 21.4 24.3

CAT. YR 2000 MEAN 22.8 MAX 30.8 MIN 11.0 WTR YR 2001 MEAN 23.0 MAX 31.2 MIN 9.7

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL--Continued

TEMPERATURE, WATER BOTTOM (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 25.2 22.3 15.7 9.3 20.4 18.8 22.6 27.9 29.4 29.8 30.7 2 29.4 29.1 24.9 22.3 16.0 8.9 20.7 18.8 22.7 27.8 29.8 30.4 30.2 30.2 3 24.8 22.3 16.2 8.9 13.5 21.3 19.1 22.8 28.0 19.6 4 25.2 22 5 15.8 21.3 23.1 28.5 30 3 29 1 30 1 8.6 13.5 5 25.6 22.6 15.1 20.2 19.5 23.5 29.1 30.4 29.0 30.1 28.7 6 26.2 22.7 14.1 8.8 13 7 18.8 20.1 23.9 29 3 30.6 29 8 26.2 22.9 13.9 9.2 14.1 14.7 17.6 21.1 21.9 23.7 29.5 30.7 30.7 29.0 29.8 25.7 9.9 16.6 29.7 8 23.2 14.2 23.6 29.4 29.4 9 24 1 23.3 14.7 9.9 15.4 16.2 22.6 23 7 29 2 30 7 29 8 29 4 10 9.7 22.6 23.2 15.1 15.8 15.9 23.2 24.0 28.7 30.6 30.0 29.2 15.4 9.9 11 21.6 22.6 15.8 16.1 23.6 24.5 28.3 30.4 30.0 29.0 22.1 15.8 15.4 15.3 24.8 27.8 28.7 12 21.4 10.4 17.2 23.9 30.4 30.1 21.4 21.8 10.7 18.5 27.7 13 16.0 25.0 28.3 14 21 5 21 5 16 3 11 1 15 8 18 9 24 8 25.2 28 1 30 1 30 5 27 5 15 21.5 20.4 16.6 11.5 16.6 19.2 24.7 25.7 28.2 29.6 30.4 26.0 17.0 17.3 19.7 21.5 20.0 12.1 24 4 26.2 28 5 29.2 30.5 24 8 16 19.7 21.6 19.8 17.1 12.5 23.8 26.5 28.7 29.1 30.9 24.7 17 17.7 21.8 19.2 15.8 12.9 17.1 19.1 22.4 26.9 29.3 31.1 25.0 18 28.8 19 22 0 18 9 15 0 13 7 16 8 18 0 21 9 27 0 29 0 29 6 30 9 25 3 20 22.1 18.3 13.1 13.9 17.5 17.6 22.1 27.0 29.3 29.8 30.9 25.7 21 22.1 17.0 12.8 13.0 18.1 17.2 22.4 27.1 29.6 29.5 31.0 26.2 12.8 16.8 22.8 27.5 29.4 29.5 26.7 22 22.4 15.9 12.9 18.6 30.9 23 22.4 15.2 12.6 12.5 18.2 17.2 23.3 27.6 29.0 29.5 30.7 26.9 12.3 17.8 27.4 24 22.3 15.3 12.6 17.9 23.9 28.9 28.8 30.5 27.0 25 22.2 16.1 12.3 12.1 18.7 18.2 23.8 27.2 29.2 28.8 30.5 26.7 19.5 16.3 12.1 11.8 18.1 23.0 27.3 29.3 29.1 26 22.3 22.3 16.1 12.1 11.9 20.0 17.7 22.6 27.4 29.5 29.3 25.8 12.3 12.3 12.8 17.5 17.5 27.4 27.4 25.7 25.2 28 22.3 16.0 20.3 22.8 29.2 29.6 30.6 22.5 22.9 28.9 29 16.0 30.0 30.8 ---22.6 30 15.8 10.7 13.3 17.8 29.0 31.0 24.3 31 22 4 9 7 ___ 18.4 27 9 30.2 31 0 MEAN 27.5 30.2 23.0 19.7 14.2 11.3 16.7 18.3 25.6 28.8 29.9 23.3 15.2 21.3 15.9 29.6 27.7 31.1 28.7 MAX 26.2 17.1 13.9 20.3 24.8 27.9 30.7 30 7 21.4 13.5 9.7 22.6 28.8 MIN 18.8 24.3 8.6 CAT. YR 2000 MEAN 22.6 MAX 30 8 MTN 9 7

WTR YR 2001 MEAN 22.4 MAX 31.1 MIN 8.6

DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 8 0 8 9 10 7 9 1 8 6 8 0 7 3 6 3 5 5 5.4 6 1 5 8 5.7 8.0 10.7 9.0 8.0 7.5 6.5 5.6 5.7 8.6 8.5 6.2 5.4 3 6.0 7.9 7.9 10.7 9.0 8.4 8.2 7.6 6.3 6.7 6.2 4 5.9 7.8 7.4 10.7 8.9 8.3 8.2 7.6 6.4 6.3 7.0 5.3 5 7.6 9.0 6 7.5 10.4 11.0 9.1 8.5 7.8 7.5 7.0 6.1 6.3 6.4 5.3 6.1 7.8 10.7 10.8 9.2 8.4 8.1 6.9 6.3 7.3 4.8 8 5.9 7.8 10.8 10.8 9.2 8.5 8.7 8.3 6.8 6.2 6.1 7.5 4.6 6.2 9.3 6.0 8.0 10.7 10.7 8.4 7.3 6.0 7.5 4.9 10 8.0 10.4 10.8 9.3 5.9 5.9 11 7.8 10.2 10.8 9.2 8.1 6.9 6.9 8.6 5.9 6.0 5.3 7.1 7.1 7.2 7.9 12 7.5 10.0 10.7 9.0 8.8 ___ 6.0 6.2 6.6 5.2 7.5 7.7 13 9.8 10.3 8.9 9.7 8.9 ---6.3 6.2 6.5 4.9 9.7 14 10.0 8.8 7.4 6.0 4.8 6.6 15 7.2 7.9 9.7 10.1 9.9 7.1 ___ 6.7 6.5 6.0 16 7.3 7.9 9.5 10.1 9.9 8.3 7.0 6.9 6.6 5.7 6.2 7.2 7.1 7.1 7.1 17 8.1 9.7 9.9 9.8 8.1 ___ 6.9 6.5 5.9 6.5 7.8 ---18 8.1 9.8 9.6 9.5 6.5 6.6 6.0 6.2 9.4 9.8 7.5 5.9 19 9.5 8.0 6.8 6.6 6.1 20 7 0 7.8 10.1 9.2 9.6 7.7 8.3 ___ 7 0 6.3 6.2 5.6 21 7.1 8.3 10.2 9.1 9.6 8.1 8.2 7.1 5.9 6.1 5.4 7.1 7.1 7.3 7.9 7.7 22 8.9 10.2 9.0 9.5 8.3 ---6.8 5.8 5.7 5.3 23 8.7 5.6 9.1 10.1 9.1 8.3 6.5 6.0 5.3 9.1 10.1 8.8 8.8 6.3 6.3 5.8 8.3 25 7.7 9.1 9.9 8.9 9.1 8.2 7.2 6.3 6.4 6.4 5.9 5 2 26 7.9 9.1 9.8 8.9 9.1 8.1 6.8 6.2 5.6 5.1 27 8.0 9.2 10.1 9.1 9 0 8.0 7.0 6.2 6.4 6 5 6.0 4.7 9.3 28 8.2 10.4 8.8 7.8 6.1 6.6 6.4 6.5 9.3 5 9 6 2 30 8 0 9.0 10 0 9.3 ___ 8 0 7.0 5 9 6 5 5 7 ---5.9 31 10.5 9.2 6.0 8.1 ---8.1 ------6.0 ---

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OXYGEN DISSOLVED TOP (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

7.5 CAL YR 2000 MEAN 7.7 MAX 11.5 MIN 4.0 WTR YR 2001 MEAN 7.6 MAX 11.0 MIN 4.6

8.2 9.2

9 8

10.8

9 9

11.0

8.7

9 2

9.9

8.8

MEAN

MAX

MIN

7 0

8.2

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

02246500 ST. JOHNS RIVER AT JACKSONVILLE, FL--Continued

		O	XYGEN DISS	OLVED MIDD		, WATER Y MEAN VAL		BER 2000 T	O SEPTEME	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	5.4 5.7	7.9 7.8	9.0 8.7		9.0 8.8	8.5 8.4	7.9 7.9	7.2 7.4	6.0 6.2	6.2 6.5	5.4 5.5	5.7 5.6
3 4 5	5.9 6.0 6.0	7.8 7.7 7.6	8.0 7.6 8.5		8.9 8.8 8.7	8.4 8.2 8.4	8.0 8.0 7.6	7.5 7.6 7.5	6.3 6.3 6.4	6.6 6.2 6.2	6.1 6.9 6.9	5.3 5.1 5.3
6	6.2	7.6	10.2		9.0	8.4	7.7	7.4	6.3	6.3	6.9	5.3
7 8	6.3	7.8 7.8	10.4 10.6	10.5	9.1 9.1	8.3 8.4	8.0 8.2	6.9 6.7	6.4 6.2	6.2 6.0	7.2 7.4	4.6 4.5
9 10	6.1 6.4	8.0 8.1	10.6 10.3	10.7 10.7	9.2 9.2	8.5 8.4	8.2 8.2	7.2 7.6	5.9 5.8	5.9 5.7	7.3 7.1	4.8 5.1
11 12	6.7 6.9	7.8 7.5	10.0 9.8	10.7 10.6	9.1 8.8	8.5 8.7	8.0 7.8	7.7 7.5	5.9 5.9	5.8 6.1	6.8 6.5	5.3 5.2
13 14	7.0 7.0	7.5 7.7	9.7 9.5	10.2 9.9	8.8 9.6	8.8	7.6 7.3	7.1 6.9	6.2 6.5	6.1 5.9	6.4 6.2	4.8 4.7
15 16	7.1 7.1	7.8 7.9	9.4 9.3	10.0	9.9 9.9	8.5 8.2	7.0 6.9	7.0 7.1	6.7 6.9	6.3 6.4	5.9 5.6	5.3 6.1
17 18	7.0 7.0	8.1 8.2	9.5	9.8 9.5	9.7 9.4	8.0 7.8	7.0 7.1	6.8 6.9	6.8 6.4	6.3	5.8 5.9	6.5
19 20	7.0 6.9	7.9 7.9		9.4 9.1	9.3 9.5	7.4 7.6	7.8 8.2	6.9 6.7	6.7 6.9	6.5 6.3	5.9 6.1	5.9 5.6
21 22	7.0 7.0	8.5 9.1		9.1 8.9	9.6 9.5	8.0 8.2	8.1 7.8	6.4 6.5	6.9 6.8	5.8 5.6	6.0 5.6	5.4 5.4
23 24	7.0 7.1	9.3		8.6 8.6	9.0 8.8	8.2 8.2	7.6 7.4	6.4 6.2	6.4 6.3	5.9 6.2	5.5 5.7	5.3 5.2
25	7.4	9.3		8.8	9.0	8.1	7.1	6.2	6.2	6.3	5.7	5.2
26 27 28	7.8 7.9 8.0	9.3 9.3 9.3		8.8 9.0 9.1	9.1 9.0 8.8	8.0 7.9 7.7	6.7 6.9 7.2	6.2 6.1 6.1	6.3 6.3 6.0	6.3 6.4 6.5	5.4 5.8 6.2	5.1 4.8 4.7
29 30	8.0 7.9	9.3 9.2		9.1 9.2		7.7 7.9	7.2 6.9	6.0 5.9	5.7 5.8	6.4 6.4	6.4 6.1	5.0 5.6
31	7.9			9.0		7.9		5.9		5.9	5.9	
MEAN MAX MIN	6.9 8.0 5.4	8.3 9.3 7.4	9.5 10.6 7.6	9.6 10.7 8.6	9.2 9.9 8.7	8.2 8.8 7.4	7.6 8.2 6.7	6.8 7.7 5.9	6.3 6.9 5.7	6.2 6.6 5.6	6.2 7.4 5.4	5.3 6.5 4.5
CAL YR	2000 M	EAN 7.4	MAX 11.9	MIN 4.1								
WTR YR	2001 M		MAX 10.7 XYGEN DISS	MIN 4.5 OLVED BOTT	OM (MG/L)	, WATER Y	EAR OCTOB	ER 2000 T	O SEPTEME	ER 2001		
					DAILY	MEAN VAL	UES					
DAY 1	OCT 5.3	NOV 7.9	DEC 9.0	JAN 10.1	FEB	MAR 8.4	APR 7.8	MAY 7.1	JUN 5.9	JUL 6.1	AUG 5.3	SEP 5.5
2	5.4 5.8	7.8 7.8	8.6 7.9	10.1	8.4	8.2 8.2	7.8 7.9	7.3 7.4	6.0 6.1	6.3 6.4	5.4 5.9	5.4 5.1
4 5	5.9 5.9	7.7 7.7	7.7 8.4	10.3	8.3	8.1 8.2	7.8	7.4 7.3	6.2	6.1	6.8	5.0 5.2
6 7	6.2 6.2	7.4 7.8	9.8 10.2	10.4	0.6		7.5	7.3	6.2	6.0	6.8	
8 9	6.0			10 3	8.6	8.3	7.5	7.3	6.1	6.2	7.0	5.1
10	0.0	7.9 8.0	10.4	10.3 10.5 10.7	8.6 8.8 8.7 8.8	8.3 8.2 8.2 8.4						5.1 4.5 4.3 4.7
	6.2	8.0 8.1	10.4 10.3 10.1	10.5 10.7 10.7	8.8 8.7 8.8 8.8	8.2 8.2 8.4 8.3	7.5 7.8 8.0 8.0	7.3 6.8 6.6 7.0 7.4	6.1 6.2 6.0 5.8 5.7	6.2 6.1 5.9 5.7 5.6	7.0 7.2 7.2 7.2 7.1	4.5 4.3 4.7 5.1
11 12 13	6.2 6.6 6.8	8.0 8.1 7.8 7.4	10.4 10.3 10.1 9.8 9.6	10.5 10.7 10.7 10.7	8.8 8.7 8.8 8.8 8.7	8.2 8.2 8.4 8.3 8.3	7.5 7.8 8.0 8.0 8.0 7.8	7.3 6.8 6.6 7.0 7.4 7.6 7.4	6.1 6.2 6.0 5.8 5.7 5.7	6.2 6.1 5.9 5.7 5.6	7.0 7.2 7.2 7.2 7.1 6.8 6.5	4.5 4.3 4.7 5.1 5.2 5.1
	6.2	8.0 8.1 7.8	10.4 10.3 10.1	10.5 10.7 10.7	8.8 8.7 8.8 8.8	8.2 8.2 8.4 8.3	7.5 7.8 8.0 8.0 8.0	7.3 6.8 6.6 7.0 7.4	6.1 6.2 6.0 5.8 5.7	6.2 6.1 5.9 5.7 5.6	7.0 7.2 7.2 7.2 7.1	4.5 4.3 4.7 5.1
12 13 14 15	6.2 6.6 6.8 6.9 6.9 7.0	8.0 8.1 7.8 7.4 7.7 7.9	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9	8.8 8.7 8.8 8.8 8.7 8.5 8.5 9.2 9.3	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.3	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.9
12 13 14 15 16 17 18	6.2 6.6 6.8 6.9 7.0 7.0 7.0 6.9	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.2	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.5	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.2 9.4	8.2 8.2 8.4 8.3 8.3 8.5 8.6 8.5 8.7 7.9	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.6 6.7	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5	6.2 6.1 5.9 5.7 5.6 5.9 5.9 5.7 6.1 6.2 6.2	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.9 6.3 6.1
12 13 14 15 16 17 18 19 20	6.2 6.6 6.8 6.9 6.9 7.0 7.0 6.9 6.9	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.2 7.9 7.8	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.3 9.3 9.1	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9	8.8 8.7 8.8 8.5 9.2 9.3 9.2 9.4 9.2 8.9	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.7 7.6 7.3 7.4	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8 7.6 8.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.6 6.7 6.8	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5 6.7 6.6 6.3 6.6	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.1	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7 5.9 6.0	4.5 4.3 4.7 5.1 5.2 5.1 4.6 5.2 5.9 6.3 6.1 5.8 5.5
12 13 14 15 16 17 18 19 20 21	6.2 6.6 6.8 6.9 7.0 7.0 6.9 6.9 6.9	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.2 7.8 8.5 9.1	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.3 9.3 9.3 9.3	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.2 9.4 9.2 8.9 9.3	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.3 8.1 7.9 7.6 7.3 7.4	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8 7.6 8.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.6 6.7 6.8 6.6	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5 6.7 6.6 6.7	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.2 6.3 6.3 6.1	7.0 7.2 7.2 7.2 7.1 6.8 6.4 6.2 5.9 5.6 5.7 5.9 6.1	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.9 6.3 6.1 5.5 5.4
12 13 14 15 16 17 18 19 20 21 22 23 24	6.2 6.6 6.8 6.9 7.0 7.0 7.0 6.9 6.9 6.9 7.0 7.0	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.2 7.8 8.5 9.1 9.4 9.3	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.3 9.3 9.5 9.5 9.3	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9 8.7 8.4	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.2 9.4 9.2 8.9 9.3	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.7 7.6 7.3 7.4 7.9 8.0 8.0	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8 6.8 7.6 8.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.7 6.8 6.6 6.3 6.3 6.3 6.2 6.1	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5 6.7 6.3 6.7 6.3 6.3	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.1 5.7 5.5 6.1	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7 5.9 6.0 6.1	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.9 6.3 6.1 5.8 5.5 5.4 5.3 5.2
12 13 14 15 16 17 18 19 20 21 22 23 24 25	6.2 6.6 6.8 6.9 7.0 7.0 6.9 6.9 6.9 7.0 7.0 7.0 7.0 7.0	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.2 7.9 7.8 8.5 9.1 9.3 9.3	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.5 9.3 9.3 9.1 9.5 9.5 9.3	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9 8.7 8.4 8.4 8.6	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.2 9.4 9.2 8.9 9.3 9.4 9.4 8.7 8.9	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.7 7.6 7.3 7.4 7.9 8.0 8.0 8.0	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8 7.6 8.0 7.9 7.4 7.2 7.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.7 6.8 6.7 6.8 6.6 6.3 6.3 6.2 6.1 6.1	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5 6.7 6.3 6.6 6.7 6.3 6.1 6.1 6.1	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.1 5.7 5.7 6.1 6.2 6.3 6.3	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7 5.9 6.0 6.1 5.9 5.7 5.7 5.7	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.9 6.3 6.1 5.8 5.5 5.4 5.3 5.2 5.1 4.7
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	6.2 6.6 6.8 6.9 7.0 7.0 6.9 6.9 6.9 7.0 7.0 7.4 7.8 8.0	8.0 8.1 7.8 7.4 7.4 7.7 7.9 7.9 8.1 8.2 7.8 8.5 9.4 9.3 9.3 9.3	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.3 9.3 9.5 9.5 9.5 9.5 9.3 9.3	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9 8.8 8.7 8.4 8.6 8.6 8.8 8.9	8.8 8.7 8.8 8.8 8.7 8.5 9.3 9.2 9.3 9.2 8.9 9.3 9.4 9.2 8.9 9.3 9.4 9.5 8.9 8.9	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.7 7.6 7.3 7.4 7.9 8.0 8.0 8.0 8.0 7.6	7.5 7.8 8.0 8.0 8.0 7.8 7.4 7.1 6.8 6.7 6.8 7.6 8.0 7.9 7.4 7.2 7.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.6 6.7 6.8 6.6 6.3 6.2 6.1 6.1 6.0 6.0	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.5 6.7 6.6 6.3 6.7 6.3 6.7 6.3 6.1 6.2 6.2 5.9	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.1 5.7 5.7 6.1 6.2 6.3 6.3	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7 5.9 6.1 5.9 5.7 5.5 5.7	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.9 6.1 5.8 5.5 5.3 5.2 5.2 5.1 4.2 4.2 4.1
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	6.2 6.6 6.8 6.9 7.0 7.0 6.9 6.9 6.9 7.0 7.0 7.0 7.0 7.0	8.0 8.1 7.8 7.4 7.7 7.9 7.9 7.9 7.8 8.5 9.1 9.3 9.3	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.5 9.5 9.5 9.3 9.1 9.5	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9 8.7 8.4 8.6 8.6 8.8	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.2 9.4 9.2 8.9 9.3 9.4 8.9 9.3	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.3 8.1 7.9 7.6 7.3 7.4 7.9 8.0 8.0 8.0 8.0	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.1 6.8 6.7 6.8 7.6 8.0 7.6 7.4 7.1 6.8 6.7 6.8 7.6 8.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.6 6.7 6.8 6.6 6.3 6.2 6.1 6.1 6.0 6.0	6.1 6.2 6.0 5.8 5.7 5.7 5.7 6.1 6.4 6.5 6.7 6.6 6.3 6.7 6.6 6.3 6.1 6.1	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.1 5.7 5.5,7 6.1 6.2	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 6.0 6.1 5.7 5.7 5.7 5.7	4.5 4.3 4.7 5.1 5.2 5.1 4.6 5.2 5.9 6.3 6.1 5.5 5.5 5.4 5.2 5.2 5.1 4.7 4.6 4.7 4.6 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	6.2 6.6 6.8 6.9 7.0 7.0 6.9 6.9 6.9 7.0 7.0 7.4 7.8 7.9 8.0 7.9 7.9	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.2 7.8 8.5 9.1 9.3 9.3 9.3 9.3 9.3 9.3	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.5 9.5 9.5 9.5 9.3 9.1 9.5 9.3 9.1 9.5 9.3	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9 8.7 8.4 8.6 8.6 8.8 8.9 8.9	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.4 9.2 8.9 9.3 9.4 8.9 8.7 8.9	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.3 8.1 7.9 7.6 7.3 7.4 7.9 8.0 8.0 8.0 8.0 7.7 7.6 7.7 7.8	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8 7.6 8.0 7.9 7.6 7.2 7.0 6.7 7.0 6.7 7.0 7.0 7.0	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.7 6.8 6.6 6.7 6.8 6.6 6.3 6.3 6.1 6.1 6.0 6.0 6.0 5.7 7.7	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.4 6.5 6.7 6.3 6.6 6.7 6.3 6.1 6.2 5.9 5.7	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.3 6.3 6.3 6.4 6.3 6.4 6.4 6.4 6.4 6.6	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7 5.7 5.7 5.7 5.8 6.3 6.0 5.8 6.2	4.5 4.3 4.7 5.1 5.2 5.1 4.6 5.2 5.9 6.3 6.1 5.8 5.5 5.4 5.3 5.2 5.2 5.1 4.1 4.1 4.1 4.1 4.1 5.0
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	6.2 6.6 6.8 6.9 7.0 7.0 6.9 6.9 6.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	8.0 8.1 7.8 7.4 7.7 7.9 7.9 8.1 8.5 9.1 9.3 9.3 9.3 9.3 9.3	10.4 10.3 10.1 9.8 9.6 9.5 9.3 9.4 9.1 9.3 9.3 9.5 9.5 9.3 9.1 9.5 9.6 9.5 9.3 9.3 9.1 9.5 9.6 9.5 9.3 9.3 9.3 9.5 9.5 9.5 9.5 9.6 9.5 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	10.5 10.7 10.7 10.7 10.6 10.2 9.8 9.9 9.8 9.5 9.3 9.2 8.9 8.7 8.4 8.4 8.6 8.6 8.8 8.9 8.8	8.8 8.7 8.8 8.8 8.7 8.5 9.2 9.3 9.2 9.4 9.2 8.9 9.3 9.4 9.9 8.7 8.9	8.2 8.2 8.4 8.3 8.5 8.6 8.5 8.7 7.6 7.3 7.4 7.9 8.0 8.0 8.0 8.0 7.7 7.6 7.7 7.8	7.5 7.8 8.0 8.0 8.0 7.8 7.6 7.4 7.1 6.8 6.7 6.8 7.6 8.0 7.9 7.4 7.2 7.0 6.6 7.0 7.0 6.8	7.3 6.8 6.6 7.0 7.4 7.6 7.4 7.0 6.8 6.9 7.0 6.6 6.7 6.8 6.6 6.3 6.2 6.1 6.1 6.0 6.0 5.9 5.7	6.1 6.2 6.0 5.8 5.7 5.7 5.8 6.1 6.5 6.7 6.3 6.6 6.7 6.3 6.1 6.2 5.7 6.2 5.7	6.2 6.1 5.9 5.7 5.6 5.7 5.9 5.7 6.1 6.2 6.3 6.3 6.1 5.7 5.7 6.1 6.2 6.3 6.3 6.3 6.4 6.3 6.4 6.3	7.0 7.2 7.2 7.2 7.1 6.8 6.5 6.4 6.2 5.9 5.6 5.7 5.9 6.0 6.1 5.9 5.7 5.7 5.8	4.5 4.3 4.7 5.1 5.2 5.1 4.7 4.6 5.2 5.8 5.5 5.4 5.3 5.2 5.2 5.1 4.2 4.1 4.4 5.0

CAL YR 2000 MEAN 7.4 MAX 11.3 MIN 4.2 WTR YR 2001 MEAN 7.3 MAX 10.7 MIN 4.1

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

302309081333001 ST. JOHNS RIVER AT DAMES POINT BRIDGE AT JACKSONVILLE, FL

LOCATION.--Lat 30°23'09", long 81°33'30",T.1 S., R.28 E., Duval County, Hydrologic Unit 03080103, on top of concrete boat barrier on the east side of Dames Point Bridge, at Dames Point, and 9 mi upstream from mouth.

WATER-OUALITY RECORDS

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PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (TOP, MIDDLE, BOTTOM): March 1996 to October 2001 (discontinued).
WATER TEMPERATURE (TOP, MIDDLE, BOTTOM): March 1996 to October 2001 (discontinued).
DISSOLVED OXYGEN (TOP, MIDDLE, BOTTOM): May 1996 to October 2001 (discontinued).

INSTRUMENTATION.--Water-quality monitor.

REMARKS--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.
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EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 53,700 μS/cm @ 25 °C, Sept. 15, 1999; minimum daily mean, 4,500 μS/cm at 25 °C, Sept. 21, 2001.

SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 56,300 μS/cm @ 25 °C, Dec. 26, 2000; minimum daily mean, 8,240 μS/cm at 25 °C, Sept. 21, 2001.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 55,100 μS/cm @ 25 °C, Dec. 26, 2000; minimum daily mean, 9,660 μS/cm at 25 °C, Mar. 8, 1996.

WATER TEMPERATURE (TOP): Maximum daily mean, 31.5 °C, Aug. 1, 1999; minimum daily mean, 9.6 °C, Jan. 4,5, 2001.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 31.3 °C, Aug. 1, 1999; minimum daily mean, 9.5 °C, Jan. 4, 2001.

WATER TEMPERATURE BOTTOM): Maximum daily mean, 30.8 °C, July 10, 1998; minimum daily mean, 9.6 °C, Jan. 4, 2001.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 9.2 mg/L, Dec. 16, 1996, Nov. 11, 1999, Jan. 2,4,6,2001; minimum daily mean, 3.6 mg/L, Sept. 1, 2001.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 9.1 mg/L, Jan. 29, 2001; minimum daily mean, 3.2 mg/L, Aug. 7, 1999.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 9.1 mg/L, Jan. 6,10,11,27-29, 2001; minimum daily mean, 3.6 mg/L, Aug. 1, 26, 1998.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 51,200 µS/cm @ 25 °C, Mar. 11, 20; minimum daily mean, 4,500, µS/cm at 25 °C, Sept. 21. SPECIFIC CONDUCTANCE (MIDDLE): Maximum daily mean, 56,300 µS/cm @ 25 °C, Dec. 26; minimum daily mean, 8,240, µS/cm at 25 °C, Sept. 21. SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 55,100 µS/cm @ 25 °C, Dec. 26; minimum daily mean, 12,500,µS/cm at 25 °C, Sept. 19.

SPECIFIC CONDUCTANCE (BUTTOM): Maximum daily mean, 55,100 µS/CM @ 25 C, Dec. 207 minimum daily mean, 12,500,µS/CM @ 25 C, Dec. 207 minimum daily mean, 12,500,µS/CM @ 25 C, Dec. 207 minimum daily mean, 12,500,µS/CM @ 25 C, Dec. 207 minimum daily mean, 9.6 °C, Jan. 4,5.

WATER TEMPERATURE (MIDDLE): Maximum daily mean, 30.3 °C, July 7,9,10; minimum daily mean, 9.5 °C, Jan. 4.

WATER TEMPERATURE BOTTOM): Maximum daily mean, 30.3 °C, July 9; minimum daily mean, 9.6 °C, Jan. 4.

DISSOLVED OXYGEN (TOP): Maximum daily mean, 9.2 mg/L, Nov. 11; minimum daily mean, 3.6 mg/L, Sept. 1.

DISSOLVED OXYGEN (MIDDLE): Maximum daily mean, 9.1 mg/L, Jan. 2,4,6; minimum daily mean, 4.1 mg/L, July 21.

DISSOLVED OXYGEN (BOTTOM): Maximum daily mean, 9.1 mg/L, Jan. 6,10,11,27-29; minimum daily mean, 3.9 mg/L, July 14,21.

SPECIFIC CONDUCTANCE TOP (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	48700 47100 40700 36800	35300 33700 32800 33400	 	31200 31200 34500 34800 34200	29500 30600 	42300 42200 38200 35300 30300	31700 32300 33600 33700 41000	46000 46100 46000 45400 45600	42100 40700 39200 39100 39400	43500 41800 41200 42700 40700	35000 31300 29300	
6 7 8 9 10	31400 28700 34900 43400 44300	39100 36200 32700 32000 31100	 	31000 34700 35800 36200 41100	 	35300 44100 48800 49900	42300 39900 38100 	45400 47000 47300 46700 45900	39100 38900 39200 41000 43200	37600 38200 42300 40700 41200	25800 24600 25400 25400 22200	
11 12 13 14 15	41600 39900 40000 40500 39500	37400 43000 43100 40800 41400	 40700 36600	42100 42300 48500 46700	 44700 42400 40000	51200 50400 47600 43200 40600	39800 40300 37800 35800 39600	44600 42400 40200 41800 42200	42800 41900 38800 	41000 39700 39500 44500 46000	18700 17200 17700 20500 27900	
16 17 18 19 20	38200 38400 38400 37500 38800	41600 38500 38300 42800 45600	38200 29700 25700 30600 27200	43000 41300 42400 41400 36200	37400 35700 41500 46000 44400	36700 36900 39600 49100 51200	40100 41500 44700 43400 41700	40600 42700 44100 42800 41600	36300 37900 42700 44200 44800	45200 45300 43000 42200	34400 34400 31700 30500	 8470 5540
21 22 23 24 25	38500 38400 45900	41900 38300 36000 	29900 32600 38100 42200 42900	32000 36900 45900 46300 43600	41200 40200 43300 45400 44300	39100 37800 39200 35900	40300 38500 37900 37700 36300	40600 41100 43200 42700	45100 44200 43900 46100	44500 47800 41400 	34000 37500 36300 35200	4500 6280 7840 8810
26 27 28 29 30 31	45600 45700 43200 41000 41600 38700	 	46400 44900 42100 45300 41200 33700	44700 42900 39300 39300 35600 30900	41900 40700 41700 	36500 38400 42300 43400 33300	42600 44300 43300 42500 46000	43400 43800 43200 40700	46100 46000 45900 46200 45400	 	40300 36300 32300 32500 32600	8440 11500 15200 27200 35500
MEAN MAX MIN	40300 48700 28700	38000 45600 31100	37100 46400 25700	38900 48500 30900	40600 46000 29500	41400 51200 30300	39500 46000 31700	43700 47300 40200	42200 46200 36300	42300 47800 37600	29600 40300 17200	12700 35500 4500

CAL YR 2000 MEAN 39400 MAX 50800 MIN 21900 WTR YR 2001 MEAN 38400 MAX 51200 MIN 4500

302309081333001 ST. JOHNS RIVER AT DAMES POINT BRIDGE AT JACKSONVILLE, FL--Continued

SPECIFIC CONDUCTANCE MIDDLE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAIL	Y MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49000			43200	28900	41600	33500		42700	44800		
2	47300	35500		43800	30700	41200	35200		41300	43400		
3		34500		47200	32900	37400	35200			42600	38300	
4	41900	34200		47000	38100	35300	35600		40000	44700	34400	38800
5	38400	36700		47300	39200		43300		40200	42000	33200	36100
3	50100	30700		1,500	3,200		15500		10200	12000	33200	50100
6	32900	40800		43600	37000	35600	43700		39900	39400	29500	34500
7	31800	36900		48100	37800	44000	41400			40200	27500	39600
8	39800	34200		49100	38500		39400			44900	29900	40700
9	45100	33700			38500	47800			42000	42700	30900	38800
10	44400	33000		41900	36900	49100		49200	44400	43200	27300	
11	41700	40600		42900	37200	50200	42200	47900	43700	42800	25100	
12	40000	45200		42900	43200	49500	43200	45800	42800	41600	24500	35900
13	40400	45200 45100		42800	43200	47000	40700	43600		41600	26200	40300
14	40400	43100	48700	48500	40200	42300	39800	45600	39500 38300	47400	29700	40100
15	39500	43100	45100	46600	38300	41300	45300	45600	37000	48000	36400	47700
15	39500	43800	45100	46600	38300	41300	45300	45600	37000	48000	36400	4//00
16	38500	44400	46900	43100	36400	37500	44000	43300	37600	46900	40500	38900
17	38900	41000	38600	40800	34800	37700	45000	45800	39300	47100	39600	25500
18	38900	41500	34600	42800	41500	41100	48000	46500	44500		38100	16000
19	38500	46200	41100	42000	44900	50100	46800	45000	45000	45100	35200	12300
20	39400	49100	36900	36000	42600	51100	45100	43500	45600	44200	34500	8490
21	38700	44800	41000	32600	39500		44000		45800	47000	36300	8240
22	38800	42100	43000	37800	38700	39400	42400	42500	44900	50400	39200	10300
23	41300	39800	48800	46100	42100	38400	42300	43100	44600	49800	41200	14200
24	45700		52300	45500	43900	39700	42500	44700		43400	39600	
25	45400		53200	42800	42600	36200	41100	44200	47000		39500	14800
26	45000		56300	43900	40300	37100	49000	44500	47000		45000	14600
27	45000		54900	41800	39500	39400	49600	44900	46900		44700	20000
28	42500		52600	38500	40800	43800	48500	44000	46800		40200	24500
29	40500		56200	38700		44500	48100	41400	47100		37200	34900
30	41000		51600	35000			51700		46400		37400	41300
31	38400		45400	29900		34700					37100	
MEAN	41000	40300	47100	42400	38800	42000	43100	44800	43100	44500	35100	28200
MAX	49000	49100	56300	49100	44900	51100	51700	49200	47100	50400	45000	47700
MIN	31800	33000	34600	29900	28900	34700	33500	41400	37000	39400	24500	8240
CAL VR	2000	MEAN 40600	MAY 563	00 MTN 2	1400							

CAL YR 2000 MEAN 40600 MAX 56300 MIN 21400 WTR YR 2001 MEAN 40600 MAX 56300 MIN 8240

SPECIFIC CONDUCTANCE BOTTOM (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49100			42400	30100	42500	35700	44600	42400	45400		
2	47500	38000		43000	31600	42400	37500	46000	41200	44100		
3		37500		46600	33600	38600	37300	45700	39900	43300	39200	
4	42400	36800		46500	39100	36700	38300	45400	40100	45100	36100	
5	39300	39300		46000	40000		44900	45800	40300	42700	40600	
6	34100	43300		42800	37900	37400	45500	45800	40100	40200	33400	
7	33300	37900		47400	38500	45200	43000	47300	40100	41200	30600	
8	41800	34900		48300	39200		41200	47700	40500	45600	32000	
9	46600	34900			39100	48600			42200	43300	32900	
10	45100	34200		42400	37500	50000		46300	44500	44000	29800	
11	42200	41600		43500	38100	51000	36700	45200	43800	43300	27900	
12	40700	45700		43300	43700	50300	37700	43400	43000	42200	28000	
13	41500	45400			43000	47900	35100	41600		42200	30200	
14	41800	43500	48300	48800	40900	44000	34200	43500	38800	48100	32200	
15	40900	44300	44500	46900	39200	42600	40000	43700	37500	48700	40000	
16	39900	44800	46600	43600	37300	38900	38500	41500	38200	47300	43600	
17	40300	41800	38200	42200	35600	39300	39600	44100	39900	47400	42400	
18	40500	42000	34600	43500	42700	42800	42300	44900	45600		40200	
19	39900	46700	40600	42700	45600	51400	41100	43500	45500	45600	37100	12500
20	41500	49000	36400	36800	43300	52300	39300	42200	46200	45000	38300	
21	40400	44700	41100	33500	40500		38300		46300	47600	40000	
22	40400	42600	42500	38900	39600	40600	36900	41400	45400	50800	42800	
23	43000	40300	48600	46800	43100	39900	36900	42100	45200	50000	45100	
24	47100		51600	46000	44800	41400	37100	43700		43700	43800	
25	46700		52100	43100	43600	37800	35600	43300	47600		43900	
26	46500		55100	44300	41300	38700	43200	43900	47500		49200	18200
27	46700		53700	42500	40500	41200	43700	44300	47200		48900	24400
28	44100		51500	39200	41900	45400	42800	43500	47200		45100	26400
29	42500		55000	39300		46100	42300	40900	47500		41900	37100
30	43000		50500	35600			45700		46900		42300	42100
31	40400		44600	30700		37100						
MEAN	42300	41300	46400	42600	39700	43300	39700	44100	43200	45100	38500	26800
MAX	49100	49000	55100	48800	45600	52300	45700	47700	47600	50800	49200	42100
MIN	33300	34200	34600	30700	30100	36700	34200	40900	37500	40200	27900	12500

CAL YR 2000 MEAN 41300 MAX 55100 MIN 23100 WTR YR 2001 MEAN 41900 MAX 55100 MIN 12500

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ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

302309081333001 ST. JOHNS RIVER AT DAMES POINT BRIDGE AT JACKSONVILLE, FL--Continued

		TEMPI	ERATURE,	TOP WATER		, WATER Y Y MEAN VA		2000 5	TO SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24.9 24.8 25.4 25.7	22.6 22.6 22.7 22.7		10.5 10.1 9.8 9.6 9.6	13.7 13.5 	19.1 19.4 20.1 20.2 19.5	18.4 18.1 18.3 18.7 18.4	22.0 22.2 22.4 22.8 23.1	27.3 27.2 27.5 27.9 28.2	29.1 29.4 29.7 29.8 30.0	 29.1 29.2 29.1	
6 7 8 9 10	26.1 26.0 25.5 23.5 22.1	22.6 22.8 22.9 23.0 22.9	 	9.8 10.0 10.6 10.3 10.0		17.0 14.8 14.7 14.9	18.9 19.8 20.6 	23.6 23.3 23.0 23.8	28.5 28.7 28.8 28.6 28.1	30.3 30.4 30.3 30.4 30.4	28.9 29.1 29.5 29.9 30.1	
11 12 13 14 15	21.6 21.5 21.6 21.7	22.0 21.5 21.5 21.4 20.3	 16.2 16.5	10.4 10.9 11.4 11.9	14.3 14.9 15.8	15.5 16.4 17.5 18.0 18.6	21.9 22.2 23.0 23.4 23.0	24.4 24.7 25.0 25.2 25.4	27.8 27.6 27.8 	30.1 30.2 30.1 29.3 29.0	30.1 30.1 30.2 30.1 29.5	
16 17 18 19 20	21.8 22.0 22.2 22.5 22.6	20.1 20.2 19.6 19.1 18.2	16.8 16.9 15.8 14.8 13.5	12.4 12.7 13.0 13.7 13.9	16.5 16.9 15.7 15.0 15.7	19.2 19.1 18.1 16.6 16.3	22.7 22.0 20.2 20.2 20.7	25.9 25.8 25.7 25.9 26.0	28.6 28.4 28.2 28.3 28.7	28.9 28.7 29.3 29.4	29.3 29.9 29.7 29.8	25.4 25.7
21 22 23 24 25	22.6 22.7 22.0	17.5 16.4 16.0 	13.1 13.0 12.7 12.5 12.2	12.9 12.2 11.4 11.4	16.5 17.2 16.5 16.2 17.1	16.6 16.8 17.2 17.5	21.2 21.8 22.3 22.8 22.8	26.4 26.4 26.1 26.2	29.0 28.9 28.6 28.8	28.9 29.0 28.7	29.7 29.5 29.7 30.0	26.3 26.6 26.8 26.9
26 27 28 29 30 31	22.1 22.1 22.2 22.5 22.6 22.6	 	11.8 12.0 12.5 11.7 11.3 10.7	11.3 11.7 12.2 12.7 13.2 13.6	18.0 18.7 19.0 	17.4 16.9 16.7 16.7 18.1	21.4 21.3 21.9 22.2 22.0	26.4 26.8 27.0 27.0	29.1 29.2 28.9 28.6 28.7		29.6 29.9 30.2 30.3	26.6 26.2 26.0 25.3 24.3
MEAN MAX MIN	23.0 26.1 21.5	20.8 23.0 16.0	13.6 16.9 10.7	11.5 13.9 9.6	16.2 19.0 13.5	17.5 20.2 14.7	21.1 23.4 18.1	24.9 27.0 22.0	28.4 29.2 27.2	29.6 30.4 28.7	29.7 30.3 28.9	26.0 26.9 24.3

CAT. YR 2000 MEAN 22.8 MAX 29.9 MIN 10.7 WTR YR 2001 MEAN 21.8 MAX 30.4 MIN 9.6

TEMPERATURE, MIDDLE WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JIII JUL ATIG SEP 10.4 13.6 18.9 18.4 27.2 29.0 2 22.6 ___ 10.0 9.7 13.4 13.1 19.3 20.0 17.9 18.2 --- $\begin{smallmatrix}27.1\\27.4\end{smallmatrix}$ 29.4 29.6 ---24.8 3 22.6 ------29.0 ---12.6 18.6 4 25.4 22.7 ---9.5 20.0 27.8 29.7 29.2 29.1 5 25.7 22.7 ---9.6 12.7 18.3 ---28.1 30.0 29.0 29.4 6 7 26.1 22.6 9.8 13.0 16.7 18.8 28.4 30.2 28.8 29.5 ___ 14.7 --- $\begin{smallmatrix}26.0\\25.4\end{smallmatrix}$ 22.7 22.9 30.3 10.0 13.3 19.8 ---29.3 8 ---10.6 13.9 20.5 ---29.4 29.4 q 23.6 23.0 ---10.2 14.5 15.2 14.7 28.6 30.3 29.8 29.4 10 22.1 22.9 ---9.9 ---23.8 30.0 29.3 14.8 28.0 30.3 15.5 21.5 21.5 15.1 14.2 21.7 27.7 11 22.0 ---10.4 24.3 30.1 30.0 29.2 12 ---10.9 22.0 27.6 16.4 17.5 30.2 21.5 24.6 30.0 28.8 13 21.5 21.5 ---14.2 22.8 24.9 27.8 30.1 30.0 28.2 14 21.6 21.7 21.3 16.2 11.4 14.8 15.7 18.0 23.1 25.0 28.0 29.3 29.9 27.1 15 20.3 16.5 22.2 25.2 28.3 29.1 29.2 25.6 11.8 18.6 20.1 16.4 16.7 15.3 25.8 16 21.8 16.8 12.5 12.7 19.2 22.4 28.5 28.9 29.0 24.8 20.2 25.5 25.5 17 22.0 16.8 18.9 21.8 28.3 28.7 29.4 25.0 18 22.2 19.6 15.6 13.0 17.9 20.0 28.1 29.8 25.1 29.2 29.6 29.7 19 22.5 19.1 14.7 13.8 14.9 16.4 20.1 25.8 28.3 25.4 18.2 15.7 20 22.6 13.2 13.8 16.3 20.6 25.9 29.4 25.8 28.6 17.4 21 22.6 12.9 12.8 16.5 17.1 21.1 21.7 28.9 28.9 29.6 26.3 22.7 28.7 29.4 22 16.3 13.0 12.0 16.5 26.3 28.8 26.6 22.2 22.7 23 22.6 15.9 12.7 11.3 16.4 16.7 26.3 28.6 29.0 29.4 26.7 24 22.2 12.5 17.1 26.0 28.7 29.6 ---11.4 16.1 25 22.0 17.1 17.5 28.7 26.8 12.2 11.5 26.1 29.8 17.3 26.4 26.7 26.9 26 22.1 11.8 11.2 18.0 21.1 29.0 29.4 26.6 21.1 21.7 22.0 ---12.0 11.6 16.8 26.3 28 22.2 ---12.5 11.5 12.1 12.6 18.8 16.6 28.9 ---29.8 26.1 ---___ 22.4 22.1 29 ---16.7 27.0 28.6 30.1 25.4 30 22.5 21.9 28.6 30.1 24.3 18 0 ------31 22 6 10.6 13.6 ___ MEAN 23.0 20.8 13.5 11.4 15.2 17.3 20.9 25.7 28.3 29.5 29.6 27.1 18.8 23.1 17.9 27.0 30.3 28.7 MAX 26.1 23.0 16.8 13.8 20.0 29.2 30.1 29.5 MIN 21.5 15.9 10.6 9.5 14.7 23.8 27.1 28.8 24.3 12.6

CAL YR 2000 MEAN 22.7 MAX 29.8 MIN 10.6 WTR YR 2001 MEAN 21.8 MAX 30.3 MIN 9.5

302309081333001 ST. JOHNS RIVER AT DAMES POINT BRIDGE AT JACKSONVILLE, FL--Continued

TEMPERATURE, WATER BOTTOM (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		1111111	BIGITORE, V	WILLIE DOI		Y MEAN VA		TODBIC ZOO	O TO DELT.	Bribbit 200.	_	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24.8 24.8 25.3 25.7	22.6 22.6 22.7 22.7	 	10.6 10.2 9.9 9.6 9.7	13.6 13.4 13.1 12.6 12.7	18.8 19.1 19.9 19.9	18.3 17.9 18.2 18.5 18.2	22.0 22.1 22.4 22.7 23.0	27.7 27.8 28.0 28.3 28.7	29.0 29.3 29.6 29.6 29.9	28.8 	
6 7 8 9 10	26.1 26.0 25.3 23.4 22.0	22.6 22.7 22.9 23.0 22.9	 	9.8 10.0 10.5 10.3 10.0	13.0 13.3 13.8 14.4 15.1	16.7 14.7 14.7 14.9	18.7 19.7 20.5 	23.5 23.2 23.0 23.7	28.8 29.0 29.0 28.7 28.1	30.1 30.2 30.0 30.3 30.1	29.0 29.4 29.8 30.0	
11 12 13 14 15	21.5 21.4 21.4 21.5 21.6	22.1 21.6 21.5 21.4 20.4	 16.1 16.5	10.4 10.9 11.4 11.8	15.0 14.2 14.2 14.8 15.6	15.4 16.3 17.4 18.0 18.5	21.6 21.9 22.8 23.0 22.0	24.3 24.6 25.0 25.0 25.3	27.9 27.7 28.3 28.6	29.9 30.1 29.9 29.1 29.0	29.9 29.9 29.8 29.0	
16 17 18 19 20	21.8 22.0 22.2 22.5 22.6	20.2 20.2 19.7 19.2 18.4	16.7 16.8 15.8 14.8 13.5	12.4 12.7 12.9 13.6 13.8	16.3 16.6 15.2 14.8 15.6	19.1 18.9 17.9 16.4 16.2	22.3 21.7 20.0 20.0 20.6	26.1 25.8 25.9 26.1 26.1	28.8 28.5 28.3 28.5 28.8	28.8 28.6 29.1 29.3	29.0 29.5 29.6	
21 22 23 24 25	22.6 22.7 22.6 22.3 22.0	17.6 16.5 16.0 	13.1 13.0 12.9 12.6 12.2	12.9 12.1 11.3 11.4 11.5	16.4 17.0 16.3 16.0 16.9	16.5 16.7 17.1 17.5	21.0 21.6 22.2 22.7 22.7	26.8 26.5 26.2 26.5	29.1 28.7 28.3 28.6	28.7 28.6 28.8 28.5	29.5 29.3 29.2 29.6 29.7	
26 27 28 29 30 31	22.1 22.0 22.2 22.4 22.6 22.6	 	11.8 12.0 12.4 11.6 11.4 10.8	11.2 11.6 12.1 12.6 13.1 13.5	17.9 18.5 18.7 	17.3 16.9 16.6 16.6 17.9	21.1 21.7 21.7 22.0 21.8	26.7 27.1 27.2 27.4 	28.9 29.0 28.7 28.4 28.5	 	29.2 29.3 29.8 30.1 30.1	26.4 25.3 24.2
MEAN MAX MIN	22.9 26.1 21.4	20.9 23.0 16.0	13.6 16.8 10.8	11.5 13.8 9.6	15.2 18.7 12.6	17.3 19.9 14.7	20.9 23.0 17.9	25.0 27.4 22.0	28.5 29.1 27.7	29.4 30.3 28.5	29.5 30.1 28.8	25.3 26.4 24.2

CAL YR 2000 MEAN 22.6 MAX 29.9 MIN 10.8 WTR YR 2001 MEAN 21.3 MAX 30.3 MIN 9.6

OXYGEN DISSOLVED TOP (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					22.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	020					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.8 5.8 5.8 5.6	6.2 6.1 6.0 6.0	 	9.0 9.2 9.1 9.2 9.1	8.3 8.1 	7.2 7.3 7.4 7.5 7.7	 	6.6 6.5 6.4 6.4	6.1 6.1 6.0 5.9	4.7 4.9 4.9 5.1	 5.4 5.5 5.4	3.6
6 7 8 9 10	5.5 5.4 5.3 5.8 6.2	6.0 6.0 6.0 6.1 6.2	 	9.2 9.0 8.9 9.1 9.1	 	8.1 8.6 8.8 8.9	 	6.2 6.1 6.1 	5.8 5.7 5.8 5.8 5.4	5.3 5.3 5.2 5.0 5.0	5.5 5.9 	
11 12 13 14 15	6.3 6.4 6.5 6.5	6.3 6.4 6.5 6.5	 7.2 7.1	9.1 9.0 8.6 8.7	8.1 8.2 8.2	8.9 9.0 9.1 9.1 9.0	7.1 7.1 7.0 6.9 6.7	 	5.3 5.3 5.4 5.7 5.9	4.6 4.6 4.5 4.4	6.0 5.7 5.4 5.2	
16 17 18 19 20	6.4 6.4 6.4 6.3	6.9 6.9 7.0 7.1 7.3	7.1 7.3 7.5 7.5 8.0	8.8 8.8 8.7 8.6 8.5	8.2 8.0 7.9 7.8 7.6	8.8 8.8 9.0	6.6 6.7 6.9 6.8	6.0 5.9 5.8 5.8	5.9 5.8 5.8 5.7 5.7	4.4 4.3 4.3 4.3	5.0 4.8 4.6 4.5 4.3	 5.2 5.3
21 22 23 24 25	6.3 6.2 6.3 6.4 6.4	7.4 7.8 8.0 8.1	7.9 7.9 7.9 7.9 8.0	8.7 8.6 8.5 8.5	7.4 7.2 7.2 7.0 6.9	 	6.8 6.7 6.6 6.5 6.4	5.4 5.5 5.7 5.9	5.6 5.6 5.6 	4.0 4.1 4.2 4.1	4.3 4.2 4.2 4.1 4.0	5.1 5.0 4.7 4.8 4.7
26 27 28 29 30 31	6.3 6.4 6.4 6.3 6.3	 	8.1 8.1 8.1 8.5 8.9	8.6 8.7 8.8 8.8 8.7	6.9 6.9 7.0 	 	6.5 6.6 6.7 6.7 	5.9 6.0 5.9 5.6 	5.7 5.5 5.1 4.7 4.5	 	3.8 3.8 3.8 3.7 3.7	4.7 4.9 5.1 5.6 6.0
MEAN MAX MIN	6.2 6.5 5.3	6.7 8.1 6.0	7.8 8.9 7.1	8.8 9.2 8.5	7.6 8.3 6.9	8.4 9.1 7.2	6.7 7.1 6.4	6.0 6.6 5.4	5.6 6.1 4.5	4.6 5.3 4.0	4.7 6.0 3.7	5.0 6.0 3.6

CAL YR 2000 MEAN 6.5 MAX 8.9 MIN 4.4 WTR YR 2001 MEAN 6.5 MAX 9.2 MIN 3.6

OXYGEN DISSOLVED MIDDLE (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

302309081333001 ST. JOHNS RIVER AT DAMES POINT BRIDGE AT JACKSONVILLE, FL--Continued

		OX	YYGEN DISSO	OLVED MIDD		, WATER Y MEAN VAL		BER 2000 I	O SEPTEMB	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	5.9 5.9	6.2		8.7 8.8	8.6 8.5	7.1 7.1			5.8	4.5 4.7		5.3 5.0
3	5.7	6.1 6.1		8.8	8.5 8.5	7.2			5.9 5.9	4.8	5.4 5.5	4.9 4.9
5	5.6	6.0		8.9	8.4	7.5			5.8	5.0	5.7	4.8
6 7	5.5 5.4	6.0 6.1		9.0 8.9	8.5 8.4	7.9 8.2			5.6	5.0 5.0		4.8 4.8
8 9	5.4 5.9	6.1 6.1		8.7 8.8	8.3 8.2	8.4			 5.6	4.9 4.8	6.3	4.7 4.9
10	6.3	6.2		8.7	8.1	8.5		6.0	5.3	4.7	6.4	4.7
11 12	6.1 6.2	6.2 6.4		8.8 8.7	7.9 7.9		7.0 7.0	6.0 6.1	5.1 5.1	4.5 4.5	6.3 6.1	4.7 4.8
13 14	6.3 6.6	6.5 6.5	6.9	8.6	7.9 7.9		6.8 6.6	5.9 5.7	5.3 5.5	4.5 4.3	6.0 5.9	5.0 5.2
15	6.6	6.7	6.9	8.6	8.0		6.5	5.8	5.7	4.4	5.7	5.5
16 17	6.5 6.5	6.9 6.9	6.9 7.1	8.7 8.7	7.9 7.7		6.5 6.4	5.7 5.7	5.7 5.6	4.4	5.6 5.6	5.4 5.4
18 19	6.4 6.3	6.9 7.0	$7.4 \\ 7.4$	8.5 8.4	7.6 7.6		6.6 6.5	5.7 5.6	5.6 5.6	4.3	5.5 5.4	5.8 5.8
20	6.3	7.1	7.7	8.4	7.4		6.4	5.4	5.5	4.3	5.3	5.9
21 22	6.2 6.2	7.3	7.7 7.7	8.6 8.5	7.2 7.1		6.3 6.2	5.3	5.5 5.4	4.1	5.3 5.3	5.8 5.5
23 24	6.2 6.4	7.7 7.7	7.7 7.8	8.6 8.7	6.9 6.9		6.1 5.9	5.4 5.6	5.3	4.2	5.3 5.3	5.1 4.9
25	6.4		7.9	8.8	6.8		5.8	5.7	5.4		5.1	4.8
26 27	6.4		8.1 8.1	8.9 9.0	6.7 6.8		5.9 6.0	5.8 5.8	5.3 5.2		5.0	4.9 4.9
28 29	6.4 6.4		8.0 8.1	9.0 9.1	6.8		5.9 5.9	5.9 5.6	4.9 4.5		5.0 4.9	5.1 5.7
30 31	6.4 6.3		8.3 8.5	8.9 8.7			5.9 		4.4		5.0 5.0	6.1
MEAN	6.2	6.6	7.7	8.7	7.8	7.7	6.3	5.7	5.4	4.5	5.5	5.2
MAX MIN	6.6 5.4	7.7	8.5	9.1 8.4	8.6	8.5	7.0	6.1	5.9	5.0	6.4 4.9	6.1
MITIM	3.4	6.0	6.9	0.4	6.7	7.1	5.8	5.3	4.4	4.1	4.5	4.7
CAL YF	R 2000 ME	AN 6.3		MIN 4.3	6.7	7.1	5.8	5.3	4.4	4.1	4.9	4./
CAL YF	R 2000 ME	AN 6.3 AN 6.4	MAX 8.5 1	MIN 4.3 MIN 4.1	OM (MG/L)		EAR OCTOE				4.9	4.7
CAL YF	R 2000 ME	AN 6.3 AN 6.4	MAX 8.5 MAX 9.1 M	MIN 4.3 MIN 4.1 DLVED BOTT JAN	OM (MG/L)	, WATER Y	EAR OCTOE	BER 2000 I		ER 2001 JUL	AUG	SEP
CAL YF WTR YF	R 2000 ME R 2001 ME	AN 6.3 AN 6.4 OX NOV	MAX 8.5 MAX 9.1 MAX	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9	OM (MG/L) DAILY FEB 8.6 8.5	, WATER Y MEAN VAL MAR 7.1 7.2	EAR OCTOE	BER 2000 T MAY 6.3 6.1	O SEPTEME	JUL 4.0 4.1	AUG 	
CAL YF WTR YF	OCT 5.8 5.8 5.8 5.6	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9	MAX 8.5 MAX 9.1 MAX 9.	MIN 4.3 AIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0	OM (MG/L) DAILY FEB 8.6	, WATER Y MEAN VAL MAR 7.1	EAR OCTOE JUES APR	MAY 6.3 6.1 6.0 6.1	O SEPTEME JUN	JUL 4.0	AUG	SEP
CAL YF WTR YF DAY 1 2 3 4 5	OCT 5.8 5.8 5.6 5.5	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7	MAX 8.5 MAX 9.1 MAX 9.	41N 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.0	YOM (MG/L) DAILY FEB 8.6 8.5 8.5 8.5 8.5	, WATER Y MEAN VAL MAR 7.1 7.2 7.3	YEAR OCTOB JUES APR 	MAY 6.3 6.1 6.0 6.1 5.9	JUN 5.3 5.1	JUL 4.0 4.1 4.3 4.4	AUG 4.9 5.0 5.0	SEP
CAL YF WTR YF DAY 1 2 3 4 5	0CT 5.8 5.8 5.6 5.5 5.4 5.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.7	MAX 8.5 MAX 9.1 MAX 9.	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.0 9.1 8.9	OM (MG/L) DATLY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.3	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB	MAY 6.3 6.1 6.0 6.1 5.9 5.8	JUN 5.3 5.1	JUL 4.0 4.1 4.3 4.4 4.4 4.4	AUG 4.9 5.0 5.0	SEP
CAL YF WTR YF DAY 1 2 3 4 5 6 7 8 9	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.7 5.8 5.8	MAX 8.5 MAX 9.1 MAX 9.	41N 4.3 41N 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.0 9.1 8.9 8.7 	YOM (MG/L) DAILY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.3 8.2 8.2	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	EAR OCTOE JUES APR	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.8	JUN 5.3 5.1	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2	AUG 4.9 5.0 5.0	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 9 10	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.7 5.8 5.8 5.9	MAX 8.5 MAX 9.1 MAX 9.	4IN 4.3 4IN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.0 9.1 8.9 8.7 9.1	MG/L) DAILY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.3 8.2 8.2 8.0	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOE JUES APR	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9	JUN 5.3 5.1 4.9	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1	AUG 4.9 5.0 5.0 5.7	SEP
CAL YF WTR YF DAY 1 2 3 4 5 6 7 8 8 9 10 11 12	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.0	AN 6.3 AN 6.4 NOV 6.0 6.0 5.9 5.7 5.8 5.8 5.8 5.9 6.2	MAX 8.5 MAX 9.1 MAX 9.	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.0 9.1 8.9 8.7 9.1	MOM (MG/L) DATLY FEB 8.6 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 7.9	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9	JUN 5.3 5.1 4.9 4.8 4.9	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.1	AUG 4.9 5.0 5.0 5.7	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14	OCT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.0 6.0 6.1	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.8 5.8 5.9 6.2 6.4 6.3	MAX 8.5 MAX 9.1 N YGEN DISSO DEC	41N 4.3 41N 4.1 DIVED BOTT JAN 8.7 8.9 8.9 9.0 9.0 9.1 8.9 8.7 9.1 9.1 9.0 8.7	YOM (MG/L) DAILY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 7.9 8.0 8.0	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOE JUES APR 7.2 7.1 7.0 6.8	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.1 4.0 3.9	AUG 4.9 5.0 5.0 5.0 5.7 5.1	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.0 6.0 6.1 6.1	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.7 5.7 5.8 5.8 5.8 5.9 6.2 6.4 6.3 6.5	MAX 8.5 MAX 9.1 MAX 9.	#IN 4.3 #IN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.0 9.1 8.9 8.7 9.1 9.1 9.0 8.8 8.9	MOM (MG/L) DAILY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.8 5.7 5.9	JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.1 4.0 3.9 4.1	AUG 4.9 5.0 5.0 5.0 5.7	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 15 16 17	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.1 6.1 6.3 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.8 5.8 5.8 5.9 6.2 6.4 6.3 6.5 6.6	MAX 8.5 N MAX 9.1 N CYGEN DISSO DEC	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.1 8.9 8.7 9.1 9.1 9.0 8.8 8.9 8.9	MOM (MG/L) DATLY FEB 8.6 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 8.0	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9	JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.0 4.0 3.9 4.1 4.2 4.1	AUG 4.9 5.0 5.0 5.0 5.7 5.1 5.0 4.9 4.9	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.0 6.0 6.1 6.1 6.3 6.3 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.8 5.8 5.9 6.2 6.4 6.3 6.5 6.6 6.6 6.6 6.6	MAX 8.5 MAX 9.1 MAX 9.	41N 4.3 41N 4.1 DLVED BOTT JAN 8.7 8.9 9.0 9.0 9.1 8.9 8.7 9.1 9.1 9.0 8.8 8.9	MG/L) DAILY FEB 8.6 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 7.7 7.7	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOE JUES APR 7.2 7.1 7.0 6.8 6.7 6.6 6.6 6.8 6.8	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2 5.3 5.2	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.1 4.0 4.0 3.9 4.1 4.2 4.1 4.0	AUG 4.9 5.0 5.0 5.0 5.7 5.1 5.0 4.9 4.9 4.8	SEP
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CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.1 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.8 5.8 5.8 5.9 6.2 6.4 6.3 6.5 6.6 6.6 6.6 6.7 6.9 7.0 7.3 7.5 	MAX 8.5 MAX 9.1 MAX 9.	41N 4.3 41N 4.1 DIVED BOTT JAN 8.7 8.9 9.0 9.0 9.1 8.9 8.7 9.1 9.1 9.1 9.1 9.6 8.8 8.9 8.9 8.9 8.9 8.9 8.8 8.7 8.6 8.7 8.6 8.7 8.7 8.6 8.7	MOM (MG/L) DAILY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 7.7 7.6 7.5 7.1 7.1 7.0 7.0	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7 6.6 6.8 6.7 6.6 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.7 5.9 5.8 5.8 5.8 5.7 5.9 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2 5.3 5.2 5.2 5.2 4.9 4.7	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.0 4.0 3.9 4.1 4.2 4.1 4.0 3.9 4.1 3.9 4.1 4.1 4.0 4.0 4.0 4.0	AUG 4.9 5.0 5.0 5.0 5.7 5.1 5.0 4.9 4.9 4.8 4.7 4.7	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.0 6.0 6.1 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.8 5.8 5.8 5.9 6.2 6.4 6.3 6.5 6.6 6.6 6.6 6.7 7.0 7.0 7.5 	MAX 8.5 N MAX 9.1 N XYGEN DISSO DEC	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.1 8.9 8.7 9.1 9.0 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MOM (MG/L) DATLY FEB 8.6 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 8.0 7.7 7.7 7.6 7.5 7.1 7.1 7.0 7.0 6.9	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7 6.6 6.8 6.8 6.7 6.6 6.8 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.4 5.3 5.2 5.2 5.3 5.2 5.2 5.4 5.6	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2 5.3 5.2 5.2 5.2 4.9 4.7 4.8	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.1 4.0 4.0 3.9 4.1 4.2 4.1 4.0 4.0 3.9 4.1 4.0 4.0	AUG 4.9 5.0 5.0 5.0 5.7 5.1 5.0 4.9 4.8 4.7 4.7 4.7 4.7	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 13 14 15 15 16 17 18 19 20 20 21 22 23 24 25 26 27	2000 ME. 2001 ME. 2001 ME. 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.1 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 6.0 5.9 5.7 5.8 5.8 5.8 5.9 6.2 6.4 6.3 6.5 6.6 6.6 6.6 6.7 7.0 7.3 7.5 -	MAX 8.5 N MAX 9.1 N XYGEN DISSO DEC 	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.1 8.9 8.7 9.1 9.1 9.0 8.8 8.9 8.9 8.7 8.6 8.5 8.7 8.6 8.5 8.7 8.7 8.8 8.9 9.0 9.1	MOM (MG/L) DATLY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 8.0 7.7 7.6 7.5 7.1 7.0 6.9 6.9 6.9	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7 6.6 6.8 6.7 6.6 6.8 6.7 6.6 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.8 5.7 5.9 5.4 5.3 5.2 5.3 5.2 5.2 5.3 5.2 5.6 5.6 5.6	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2 5.3 5.2 5.2 5.2 5.2 4.9 4.7 4.8 4.8 4.6	SER 2001 JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.0 4.0 3.9 4.1 4.2 4.1 4.0 4.0 3.9 4.1	AUG 4.9 5.0 5.0 5.0 5.7 5.1 5.0 4.9 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.5	SEP
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.1 6.0 6.0 6.1 6.3 6.3 6.3 6.3 6.2 6.2 6.1 6.1 6.3 6.3 6.3 6.2 6.2 6.1 6.1 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.9 5.7 5.7 5.8 5.8 5.8 5.9 6.2 6.4 6.3 6.5 6.6 6.6 6.6 6.7 6.9 7.0 7.3 7.5 -	MAX 8.5 M MAX 9.1 M CYGEN DISSO DEC	MIN 4.3 MIN 4.1 DIVED BOTT JAN 8.7 8.9 9.0 9.1 8.9 8.7 9.1 9.1 9.1 9.0 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MOM (MG/L) DAILY FEB 8.6 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 8.0 7.7 7.6 7.5 7.1 7.1 7.0 6.9 6.9	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7 6.6 6.6 6.8 6.7 6.6 6.8 6.8 6.7 6.6 6.8 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.8 5.7 5.9 5.4 5.3 5.2 5.2 5.3 5.2 5.2 5.3 5.2 5.6 5.6 5.6	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2 5.3 5.2 5.2 5.2 4.7 4.8 4.8 4.6 4.4 4.2	JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.0 4.0 3.9 4.1 4.2 4.1 4.0 3.9 4.1 4.2 4.1	AUG 4.9 5.0 5.0 5.0 5.7 5.7 5.1 5.0 4.9 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.5	SEP 6.3 4.6 4.8 5.5
CAL YF WTR YF DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	0CT 5.8 5.8 5.6 5.5 5.4 5.3 5.2 5.8 6.1 6.0 6.0 6.1 6.1 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	AN 6.3 AN 6.4 OX NOV 6.0 6.0 5.7 5.7 5.8 5.8 5.8 5.9 6.4 6.3 6.5 6.6 6.6 6.6 6.7 6.9 7.0 7.3 7.5 -	MAX 8.5 N MAX 9.1 N XYGEN DISSO DEC 	MIN 4.3 MIN 4.1 DLVED BOTT JAN 8.7 8.9 8.9 9.0 9.1 8.9 8.7 9.1 9.0 8.8 8.9 8.9 8.9 8.7 8.6 8.5 8.7 8.6 8.5 8.7 8.6 8.5 8.7 8.6 8.9	MOM (MG/L) DATLY FEB 8.6 8.5 8.5 8.5 8.4 8.3 8.2 8.2 8.0 7.9 8.0 8.0 8.0 8.0 7.7 7.6 7.5 7.1 7.10 7.0 6.9 6.9 6.9 6.9 6.9	, WATER Y MEAN VAL MAR 7.1 7.2 7.3 7.3	TEAR OCTOB JUES APR 7.2 7.1 7.0 6.8 6.7 6.6 6.8 6.8 6.7 6.6 6.8 6.8 6.7 6.6 6.8 6.8 6.7 6.6 6.8 6.8 6.7	MAY 6.3 6.1 6.0 6.1 5.9 5.8 5.8 5.7 5.9 5.8 5.2 5.3 5.2 5.2 5.3 5.2 5.2 5.3 5.2 5.6 5.6 5.6 5.6 5.6 5.6	TO SEPTEME JUN 5.3 5.1 4.9 4.8 4.9 5.0 5.1 5.2 5.3 5.2 5.2 4.9 4.7 4.8 4.8 4.6 4.4	## 2001 JUL 4.0 4.1 4.3 4.4 4.4 4.3 4.2 4.1 4.0 4.0 3.9 4.1 4.2 4.1 4.0 4.0 4.0 4.0 4.0	AUG 4.9 5.0 5.0 5.0 5.7 5.1 5.0 4.9 4.8 4.7 4.7 4.7 4.7 4.7 4.5	SEP

7.2 7.3 7.1

6.6 7.2 6.0 5.6 6.3 5.0 4.9 5.3 4.0 4.1 4.4 3.9 4.8 5.7 4.4 5.4 6.3 4.6

CAL YR 2000 MEAN 6.1 MAX 8.6 MIN 4.3 WTR YR 2001 MEAN 6.3 MAX 9.1 MIN 3.9

6.3 7.5 5.7 7.6 8.6 6.9 8.9 9.1 8.5 7.8 8.6 6.9

6.0 6.3 5.2

MEAN MAX MIN

ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER

02246828 PABLO CREEK AT JACKSONVILLE, FL

LOCATION.--Lat 30°14'07", long 81°28'42", in land grant 39, T.3 S., R.28 E., Duval County, Hydrologic Unit 03080103, near right bank on upstream side of culvert pipes on private road, 0.5 mi upstream from Cedar Swamp Creek, 4.8 mi upstream from mouth, and 12.5 mi southeast of Main Street Bridge in Jacksonville.

DRAINAGE AREA. -- 25.8 mi².

PERIOD OF RECORD. -- March 1974 to current year.

REVISED RECORDS.--WDR FL-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 0.14 ft above sea level.

REMARKS.--Records poor.

		DISCHARO	SE, CUBIC	FEET PE	R SECOND, DAILY	WATER YE MEAN VA		R 2000 TO	SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e95 e77 e62 e54 e47	17 16 16 16 15	22 20 20 18 17	e19 e18 e18 e17 e17	e17 e16 e16 e15 e15	e10 e10 e12 e13 e14	e15 e14 e13 e12 e12	e7.0 e7.0 e7.0 e7.0	e8.0 e8.0 e7.5 e7.0 e8.0	13 9.2 7.0 6.0 5.3	12 17 23 25 22	e25 e40 e50 e45 e42
6 7 8 9 10	e45 e44 e42 e38 e34	15 16 16 15 14	16 16 15 16 15	e16 e16 e15 e15 e16	e14 e13 e12 e12 e12	e14 e13 e12 e12 e13	e12 e11 e10 e10 e9.0	e7.0 e8.0 e8.5 e8.0 e7.0	e9.0 e9.5 e9.0 e8.5 e9.0	4.6 4.1 3.8 3.6 3.7	31 46 38 24 16	e50 e55 e45 e40 e45
11 12 13 14 15	e31 e28 e26 e25 e23	13 13 12 13	15 15 15 e16 e16	e16 e16 e15 e15 e16	e11 e12 e11 e11	e12 e12 e13 e12 e13	e8.5 e8.0 e9.0 e8.8 e8.5	e7.0 e7.0 e7.0 e7.0 e6.8	e10 e9.5 8.8 10 20	4.2 4.2 4.0 13 9.3	12 16 34 40 38	e65 e95 e140 e240 e350
16 17 18 19 20	e22 21 19 19 25	13 13 13 13 13	e17 e16 e17 e17 e16	e15 e15 e15 e16 e15	e10 e10 e10 e9.5 e9.2	e17 e16 e20 e42 e65	e8.0 e7.5 e7.0 e7.0 e7.0	e6.7 6.6 6.5 e6.3 e6.0	21 32 22 15 11	6.1 4.9 4.5 4.4 8.9	e40 e37 e34 e36 e34	e260 e200 e120 e80 e60
21 22 23 24 25	29 28 25 27 27	12 12 12 12 12 33	e16 e16 e16 e16 e16	e15 e14 e14 e15 e15	e9.2 e9.2 e9.0 e9.0	e52 e44 e36 e26 e20	e7.5 e8.0 e8.0 e8.5 e8.5	e6.0 e6.1 e6.0 e6.0 e6.0	11 15 12 10 8.7	18 18 20 20	e31 e28 e24 e22 e20	e50 e55 e70 e65 e52
26 27 28 29 30 31	27 26 23 21 20 18	40 40 33 28 25	e17 e17 e17 e18 e18 e18	e15 e14 e15 e16 e16 e16	e9.0 e9.0 e9.5 	e24 e23 e20 e19 e16 e16	e8.0 e7.5 e7.5 e7.2 e7.0	e6.0 e6.8 e8.0 e9.0 e8.0	7.3 6.1 6.1 11 16	11 8.7 6.9 5.9 7.3 9.1	e19 e18 e16 e15 e16 e17	e50 e42 e38 e30 e25
TOTAL MEAN MAX MIN CFSM IN.	1048 33.8 95 18 1.31 1.51	532 17.7 40 12 .69	520 16.8 22 15 .65	486 15.7 19 14 .61	319.6 11.4 17 9.0 .44 .46	641 20.7 65 10 .80	275.0 9.17 15 7.0 .36 .40	214.3 6.91 9.0 6.0 .27	346.0 11.5 32 6.1 .45	263.7 8.51 20 3.6 .33 .38	801 25.8 46 12 1.00 1.15	2524 84.1 350 25 3.26 3.64
STATIST	CICS OF MO	NTHLY MEAN	N DATA FO	R WATER	YEARS 1974	- 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	63.8 211 1997 4.78 1982	30.2 106 1995 6.77 1981	29.5 136 1998 6.13 1981	37.3 98.2 1994 6.11 1981	38.0 122 1998 11.4 2001	37.9 96.5 1983 7.16 2000	24.2 61.5 1983 5.26 2000	15.8 93.9 1979 1.96 2000	29.7 162 1991 2.62 1981	34.0 135 1991 2.92 1977	44.6 202 1998 4.03 1999	70.1 181 1979 5.33 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALE	NDAR YEAR	F	OR 2001 W	ATER YEAR		WATER YEA	RS 1974	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC 50 PERC		AN A		9012.2: 24.6 500 .8: .90 12.99 43 14 2.0	Sep 10 1 May 31 0 Jun 4		7970.6 21.8 e350 3.6 3.9 3.3 .8! 11.4! 42 15 7.0			37.5 69.6 8.73 1670 *2150 9.53 .71 1.45 19.73 79 20 6.2	May 3 Jun Oct Oct	1998 1981 8 1996 31 2000 4 2000 8 1996 8 1996 31 2000

e Estimated * Result of levee failure

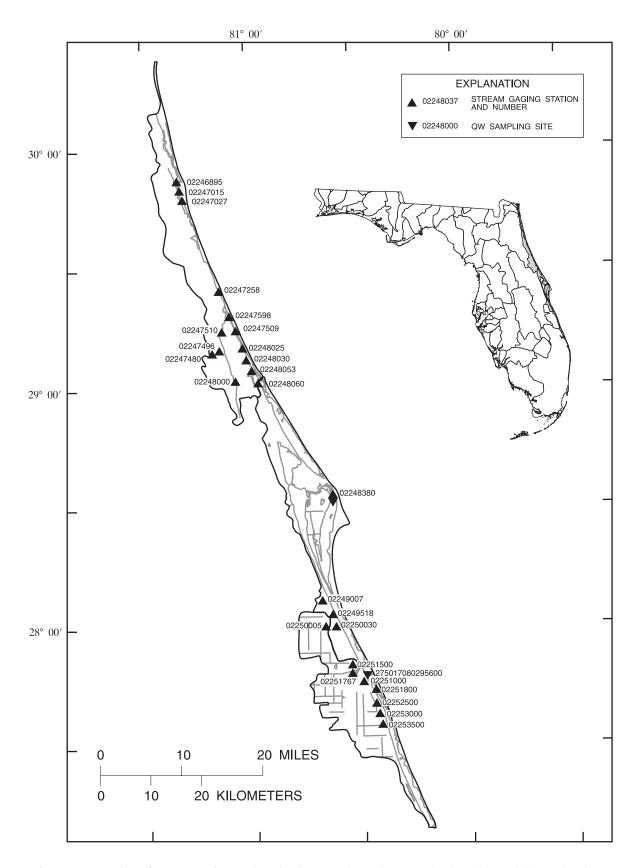


Figure 7.--Location of stream gaging stations in the coastal area between the St. Johns and St. Lucie Rivers.

02246895 SAN SEBASTIAN RIVER AT ST. AUGUSTINE, FL

LOCATION.--Lat 29°53'31", long 81°19'22", sec.4, T.7 S., R.30 E., St. Johns County, Hydrologic Unit 03080201, on upstream side of southbound bridge on U.S. Highway 1, 0.2 mi north of the intersection of King Street in St. Augustine, and 2.5 mi upstream from the mouth.

DRAINAGE AREA. -- 16.5 mi².

PERIOD OF RECORD. -- April 1999 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level. Prior to Oct. 1, 2000 at datum 5.07 ft higher.

REMARKS.--Records fair.

		DISCHAR	GE, CUBI	C FEET PER		WATER Y	EAR OCTOBE	R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	519	340	303	558	488	330	489	584	371	278	436	249
2	570	416	295	554	442	451	407	602	292	208	467	248
3	442	415	384	614	324	386	468	461	227	118	363	244
4	456	408	529	650	377	424	393	324	185	193	308	350
5	475	286	639	602	364	209	363	242	130	227	312	394
6	402	461	633	474	193	189	367	193	126	168	322	477
7	265	417	655	480	55	197	256	-6.4	122	55	279	548
8	259	243	562	386	88	193	151	396	99	257	448	532
9	450	219	315	217	126	148	181	405	82	246	471	580
10	346	196	301	297	113	-65	252	492	363	480	474	591
11	204	23	315	301	-24	373	443	603	361	469	428	515
12	171	195	179	230	474	415	574	591	470	458	394	589
13	284	134	-51	346	729	632	651	451	404	370	359	692
14	159	176	429	702	561	430	558	591	311	490	376	1050
15	163	127	265	761	362	531	583	665	263	509	411	1210
16	121	296	534	541	341	525	566	478	306	452	352	1040
17	345	421	483	510	287	407	485	654	229	406	282	767
18	395	344	311	483	256	329	490	647	323	317	186	601
19	370	371	417	367	474	545	538	593	165	257	75	672
20	548	643	317	263	404	802	445	608	118	115	114	718
21	466	352	519	286	300	616	455	576	99	-140	150	726
22	341	332	448	183	242	446	413	467	48	142	243	692
23	271	289	353	294	45	222	277	331	19	620	495	759
24	337	198	380	564	366	466	371	338	132	444	424	660
25	278	353	176	305	252	396	215	448	389	532	381	597
26 27 28 29 30 31	103 326 237 117 344 375	228 191 77 183 203	517 459 285 534 589 494	381 447 269 332 421 401	247 224 358 	334 182 154 652 504 533	317 479 600 534 617	537 639 699 636 521 473	477 493 468 408 382	567 512 436 513 382 296	410 395 395 372 308 337	480 537 502 557 666
TOTAL	10139	8537	12569	13219	8468	11956	12938	15238.6	7862	10377	10767	18243
MEAN	327	285	405	426	302	386	431	492	262	335	347	608
MAX	570	643	655	761	729	802	651	699	493	620	495	1210
MIN	103	23	-51	183	-24	-65	151	-6.4	19	-140	75	244
STATIST	CICS OF MO	NTHLY MEA	N DATA F	OR WATER Y	EARS 1999	- 2001	, BY WATER	YEAR (WY)				
MEAN	368	283	358	366	280	314	279	203	153	201	249	450
MAX	410	285	405	426	302	386	431	492	262	335	347	608
(WY)	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	327	281	300	291	257	242	-163	-133	-111	-159	80.3	321
(WY)	2001	2000	2000	2000	2000	2000	1999	1999	1999	1999	1999	2000
SUMMARY	STATISTI	CS	FOR	2000 CALEN	DAR YEAR	1	FOR 2001 W.	ATER YEAR		WATER Y	EARS 1999	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC		AN AN N MINIMUM GE DS DS		100488.08 281 1170 -113 78 478 285 67	May 16 Jun 30 Jun 27		140313.6 384 1210 -140 129 16.2 602 382 153	Sep 15 Jul 21 Jun 18		287 384 31.0 1210 -532 -270 *16.42 547 312 -35	Sep 1 May 1	2001 1999 15 2001 11 1999 11 1999

* Sep 15, 1999, Sep 14, 2001 Note.--Negative figures indicate reverse flow

02247015 MOULTRIE CREEK AT MOULTRIE, FL

LOCATION.--Lat $29^{\circ}49^{\circ}17^{\circ}$, long $81^{\circ}19^{\circ}22^{\circ}$, in $SW^{1/4}_{4}$ sec.48, T.8 S., R.30 E., St. Johns County, Hydrologic Unit 03080201, on east side of span on downstream side of northbound bridge on U.S. Highway 1, 0.3 mi north of Moultrie and 1.4 mi upstream from

DRAINAGE AREA.--42.1 mi².

PERIOD OF RECORD. -- April 1999 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 10.00 ft below sea level (Florida Department of Transportation bench mark).

REMARKS.--Records fair. Discharge not published some days due to missing velocity record. Discharge represents net of much larger upstream and downstream discharge.

	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 2 3 4 5	160 134 71 57 22	34 69 10 -6.6 42	38 -17 37 -44 82	46 -2.8 7.1 46 25	8.6 34 2.5 -14 26	-9.6 13 .24 28 20	35 69 24 22 17	19 1.6 -5.9 29 24	33 19 23 49 38	51 6.7 24 44 17	30 37 72 101 78	31 23 11 53 57
6 7 8 9 10	24 -49 14 16 20	54 6.0 17 12 21	9.9 15 85 66 28	33 61 59 45 54	-13 -9.4 27 44 44	-14 24 17 55 48	8.7 13 36 29 21	20 -24 102 73 36	15 54 35 65 27	41 62 51 21 31	134 104 90 101	64 120 46 69 79
11 12 13 14 15	43 .16 29 49 50	17 32 24 54 48	62 19 38 84 25	67 77 27 118 49	29 60 85 34 -2.9	149 99 97 58 69	18 34 52 .59 8.9	16 58 -14 30 -12	46 52 12 40 23	50 44 25 49 60	 	34 105 99 334 1350
16 17 18 19 20	22 65 51 14 48	49 74 125 25 79	72 56 32 7.3	36 20 30 13 37	-5.3 -28 -21 33 -5.7	-8.5 18 -1.0 83 62	-2.0 -9.1 -6.9 -20	-1.9 21 92 22 37	44 27 47 18 35	40 16 38 37 11	48 41 82	679
21 22 23 24 25	16 15 -21 2.4 64	83 20 61 15 -5.3	-8.9 13 11 36 29	1.9 -16 18 6.1 28	-22 -21 -6.6 58 2.7	12 11 -18 42 46	7.8 3.1 .96 -3.2 9.2	44 28 -33 47 69	37 43 38 105 73	-29 49 146 119 110	162 76 111 92 57	
26 27 28 29 30 31	19 77 34 6.6 62 13	46 43 27 80 14	9.0 44 50 25 -2.7 32	20 35 -3.7 26 20 27	27 34 7.8 	-7.4 -17 -7.1 45 54 47	8.2 12 46 20 44	93 67 46 67 39 42	49 68 113 58 40	81 68 32 49 27 12	33 4.7 26 11 21 46	
TOTAL MEAN MAX MIN	1128.16 36.4 160 -49	1169.1 39.0 125 -6.6	913.6 29.5 85 -44	983.34 31.7 118 -16	407.7 14.6 85 -28	1014.64 32.7 149 -18	399.56 13.3 52 -29	1031.8 33.3 102 -33	1326 44.2 113 12	1320.08 42.6 146 -29	1557.7 67.7 162 4.7	3154 197 1350 11
STATI	STICS OF M	ONTHLY ME.	AN DATA F	FOR WATER	YEARS 19	99 - 2001	, BY WATER	R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	6.06 36.4 2001 -24.3 2000	18.2 39.0 2001 -2.53 2000	-5.91 29.5 2001 -41.3 2000	-21.8 31.7 2001 -75.2 2000	-6.51 14.6 2001 -26.9 2000	10.4 32.7 2001 -11.9 2000	12.5 13.3 2001 11.8 2000	27.5 33.3 2001 21.6 2000	44.2 44.2 2001 44.2 2001	42.6 42.6 2001 42.6 2001	 	
SUMMA	RY STATIST	CICS	FOR	2000 CALE	NDAR YEAI	R :	FOR 2001 W	ATER YEAR		WATER :	YEARS 1999	- 2001
ANNUA HIGHE LOWES HIGHE LOWES ANNUA MAXIM 10 PE 50 PE	L TOTAL L MEAN ST ANNUAL T ANNUAL M T DAILY ME L SEVEN-DA UM PEAK ST RCENT EXCE RCENT EXCE RCENT EXCE	MEAN MEAN CAN CY MINIMUM MEAGE MEDS MEDS		160 -264 -130 65 17 -55	Oct : Mar 1! Jan :	5	14405.7 42.0 1350 -49 -10 16.7 83 32 -5.5	Sep 15 Oct 7 Feb 17 79 Sep 14		42.0 42.0 -6.5 1350 -328 -130 *16.' 8 18 -50	Dec 1 Jan	2001 2000 15 2001 18 1999 8 2000

* Sep 15, 1999, Sep 14, 2001 Note.--Negative figures indicate reverse flow

02247027 MOSES CREEK NEAR MOULTRIE, FL

LOCATION.--Lat $29^{\circ}46^{\circ}28^{\circ}$, long $81^{\circ}18^{\circ}59^{\circ}$, in $NE^{1/}_{4}$ sec.45, T.8 S., R.30 E., St. Johns County, Hydrologic Unit 03080201, near center of span on downstream side of northbound bridge on U.S. Highway 1, 1.2 mi north of intersection with State Highway 206, 3.1 mi south of Moultrie, and 4.2 mi upstream from mouth.

DRAINAGE AREA. -- 7.4 mi².

PERIOD OF RECORD.--April to June 1958 (discharge measurements only), April 1999 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 0.99 ft below North American Vertical Datum of 1988. REMARKS.--Records fair.

		DISCHA	RGE, CUBIC	FEET PER		WATER Y	EAR OCTOBER	2000 TO	SEPTEMBI	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	62 47 36 31 27	2.9 1.9 1.3 1.0	.51 .51 .48 .44	.60 .57 .56 .55	2.7 5.3 4.6 4.7 4.7	.29 .29 .25 1.5	8.9 6.1 4.6 3.6 3.0	.16 .15 .14 .12	.16 .16 .12 .12	1.3 .85 .54 .39	21 23 91 145 76	1.6 3.4 14 8.9 6.8
6 7 8 9 10	21 19 15 11 7.4	.72 .63 .55 .48	.40 .38 .35 .35	.56 .56 .59 .59	3.6 2.8 2.3 1.9 1.6	1.0 .66 .47 .38 .45	2.3 1.6 1.2 .88	.10 .14 .18 .19	.17 .20 .28 .19 .17	.38 .29 .26 .37 2.5	67 47 33 22 15	5.8 6.6 6.2 6.2 7.0
11 12 13 14 15	5.6 4.4 3.5 2.8 2.2	. 44 . 37 . 33 . 32 . 40	.38 .44 .45 .48	.53 .59 .58 .57	1.4 1.2 1.1 1.1	.44 .37 .39 .46	.54 .43 .37 .31 .29	.15 .13 .12 .11	.41 .62 .48 .34 .25	5.4 1.9 1.0 4.7 2.6	13 9.9 8.1 11	6.1 31 122 447 861
16 17 18 19 20	1.6 1.0 .70 .52	.36 .34 .29 .28	.57 .70 .73 .74	.55 .54 .54 .55	.89 .79 .71 .63	.40 .42 .65 18	.24 .19 .16 .15	.11 .10 .09 .09	.41 .51 .31 .24	1.4 1.8 1.4 3.3	19 14 9.8 7.3 6.9	530 322 207 138 99
21 22 23 24 25	1.3 1.0 4.7 12	.31 .27 .27 .26 .52	.72 .71 .67 .66	1.1 .85 .76 .71	.50 .47 .40 .41	53 39 27 18 13	.13 .13 .12 .12 .27	.09 .10 .10 .10	.18 .18 .18 .19	40 16 9.0 7.0 4.5	5.7 4.3 4.8 4.2 2.8	74 56 46 37 40
26 27 28 29 30 31	14 11 7.4 5.3 4.2 3.4	.89 1.1 .79 .67 .60	.64 .64 .72 .78 .72	.54 .51 .47 .43 .43	.39 .33 .32 	12 8.7 6.5 6.6 13	.74 .40 .28 .22 .19	.08 .08 .08 .09 .11	.15 .18 7.8 5.0 2.4	3.0 2.2 1.4 1.0 .81	2.1 1.7 1.4 1.2 1.1	44 37 31 25 20
TOTAL MEAN MAX MIN CFSM IN.	373.62 12.1 62 .52 1.63 1.88	19.91 .66 2.9 .26 .09	17.49 .56 .78 .35 .08	19.69 .64 1.4 .43 .09	46.81 1.67 5.3 .32 .23 .24	311.43 10.0 73 .25 1.36 1.57	38.30 1.28 8.9 .12 .17 .19	3.59 .12 .19 .08 .02	21.89 .73 7.8 .11 .10	145.63 4.70 40 .26 .63 .73	680.4 21.9 145 1.1 2.97 3.42	3239.6 108 861 1.6 14.6 16.29
							, BY WATER Y					
MEAN MAX (WY) MIN (WY)	18.1 24.2 2000 12.1 2001	1.18 1.69 2000 .66 2001	.48 .56 2001 .39 2000	.62 .64 2001 .60 2000	1.06 1.67 2001 .46 2000	5.25 10.0 2001 .45 2000	1.07 1.29 1999 .66 2000	.19 .42 1999 .023 2000	1.81 4.46 1999 .24 2000	2.21 4.70 2001 .28 2000	7.37 21.9 2001 .076 1999	43.3 108 2001 9.32 1999
SUMMAR	RY STATIST	ICS	FOR 2	000 CALEN	DAR YEAR	. 1	FOR 2001 WAT	TER YEAR		WATER Y	EARS 1999	9 - 2001
ANNUAI HIGHES LOWEST HIGHES LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PEF 50 PEF	ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			874.69 2.39 75 .00 .00 .32 4.40 4.8 .38 .00	Sep 30 Many d May 17	ays	4918.36 13.5 861 .08 .09 a992 19.58 1.82 24.72 21 .71 .15	Sep 15 May 25- May 23 Sep 15 Sep 15	28	8.4' 13.5 3.4! 861 .0(.01) a992 19.5(1.1! 15.5(12 .4.	Sep) May Sep 8 Sep 6	2001 2000 15 2001 any days 17 2000 15 2001 15 2001

a From rating curve extended above 330 ft³/s

02247258 LEHIGH CANAL NEAR FLAGLER BEACH, FL

LOCATION.--Lat $29^{\circ}29^{\circ}50^{\circ}$, long $81^{\circ}11^{\circ}23^{\circ}$, in NW $^{1}_{4}$ sec.4, T.12 S., R.31 E., Flagler County, Hydrologic Unit 03080201, near center of channel on upstream side of bridge on Old Kings Road, 0.7 mi upstream from mouth (at Graham Swamp), and 2.6 mi northwest of Flagler Beach.

DRAINAGE AREA.--21 mi².

PERIOD OF RECORD. -- April 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.54 ft above sea level (Levitt & Sons Engineering Dept. bench mark).

REMARKS.--Records fair. Flow affected at times by operation of control structure 0.70 mi upstream.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	105 79 59 53 46	11 10 9.5 9.0 8.5	7.4 7.2 7.0 6.5 6.3	2.6 2.6 2.5 2.4 2.3	1.3 1.5 1.9 2.2 2.4	2.6 2.5 2.3 2.4 2.6	14 13 12 11 9.9	2.3 2.2 2.1 2.0 1.9	2.1 2.5 2.6 2.7 2.8	9.8 9.3 9.1 8.5 8.0	36 29 55 42 34	12 18 18 24 99
6 7 8 9 10	41 38 35 42 49	7.8 7.4 6.9 6.3 5.5	5.8 5.5 5.2 5.0 5.0	2.2 2.2 2.1 2.1 2.0	2.5 2.4 2.4 2.4 2.3	2.7 2.7 2.7 2.8 3.0	8.9 8.1 7.5 6.9 6.3	1.8 1.7 1.7 1.7	2.8 3.0 3.4 5.3 5.7	8.6 8.4 8.5 8.0 8.3	38 28 23 23 26	46 64 40 37 36
11 12 13 14 15	28 25 20 16 14	5.1 6.9 7.2 6.6 6.7	5.0 5.0 5.0 5.0	2.0 2.0 1.9 1.9	2.0 2.0 2.4 2.9 2.9	3.1 3.2 3.3 3.5 3.4	5.3 4.8 4.4 4.1 3.8	1.8 1.9 1.9 1.8 1.7	5.0 4.0 3.0 2.9 2.8	8.6 8.7 9.3 11 13	24 21 17 16 17	35 58 323 885 897
16 17 18 19 20	13 13 12 12 12	6.7 6.9 6.6 6.4 6.3	5.0 4.8 4.8 4.9 4.9	1.7 1.6 1.5 1.5	3.0 3.5 3.2 3.0 3.4	3.3 3.3 3.3 8.2 83	3.5 3.2 2.9 2.7 2.6	1.5 1.4 1.4 1.4	2.8 3.2 4.1 4.6 4.6	13 15 14 13 113	20 22 22 20 21	415 255 207 181 153
21 22 23 24 25	14 14 13 13	6.1 6.0 5.8 5.6 6.1	4.8 4.8 4.5 4.0 3.5	1.6 1.6 1.5 1.4	4.5 4.2 3.9 3.7 3.4	40 29 24 20 18	2.5 2.4 2.3 2.3 2.4	1.4 1.4 1.3 1.3	5.0 6.8 7.1 6.9 7.1	149 36 29 28 21	18 17 16 14 18	131 119 113 96 80
26 27 28 29 30 31	20 17 14 13 13	7.2 7.7 7.7 7.7 7.8	3.3 3.1 2.9 2.9 2.8 2.7	1.3 1.3 1.2 1.2 1.1	3.2 3.1 2.8 	16 14 12 12 13 14	3.1 3.1 3.0 2.8 2.5	1.2 1.2 1.2 1.3 1.5	7.0 7.1 8.5 10	32 61 29 21 18 33	21 18 12 11 9.5 9.0	79 74 67 62 57
TOTAL MEAN MAX MIN CFSM IN.	871 28.1 105 12 1.34 1.54	215.0 7.17 11 5.1 .34 .38	149.6 4.83 7.4 2.7 .23 .27	55.4 1.79 2.6 1.1 .09	78.4 2.80 4.5 1.3 .13	11.5	161.3 5.38 14 2.3 .26 .29	50.5 1.63 2.3 1.2 .08	145.4 4.85 10 2.1 .23 .26	762.1 24.6 149 8.0 1.17 1.35	697.5 22.5 55 9.0 1.07 1.24	4681 156 897 12 7.43 8.29
STATIST	ICS OF M	ONTHLY ME	AN DATA FO	OR WATER Y	EARS 1998	3 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	30.6 55.3 1999 8.38 2000	7.48 11.9 1999 3.33 2000	6.61 13.6 1999 1.38 2000	5.79 14.5 1999 1.02 2000	6.07 14.3 1999 1.31 2000	5.85 11.5 2001 .78 2000	3.42 5.38 2001 2.33 1999	1.45 3.84 1998 .16 2000	1.76 4.85 2001 .018 2000	7.85 24.6 2001 .071 2000	9.57 22.5 2001 .015 2000	75.8 156 2001 3.27 1999
SUMMARY	STATIST	ICS	FOR 2	2000 CALEN	DAR YEAR	F	'OR 2001 WA'	FER YEAR		WATER Y	EARS 1998	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS					Many da Jun 13	ays	8223.1 22.5 897 1.1 1.2 *1480 9.46 1.1 1.07 14.57 40 6.3 1.7	Sep 15 Jan 30 Jan 26 Sep 14 Sep 14 Jan 30,	31	13.6 22.5 7.9 897 .0 .0 1480 9.4 1.1 .6 8.8 23 .0	8 Sep 1 0 Some 0 Some Sep 1 6 Sep 1 Jan 3	2001 2000 15 2001 2 years 2 years 24 2001 14 2001 30 2001

^{*} From rating curve extended above $574 \text{ ft}^3/\text{s}$

02247480 TIGER BAY CANAL NEAR DAYTONA BEACH, FL

LOCATION.--Lat 29°09'58", long 81°09'18", in SW¹/₄ sec.25, T.15 S., R.31 E., Volusia County, Hydrologic Unit 03080201, on downstream side of wooden bridge on Indian Lake Road, 2.4 mi north of its intersection with U.S. Highway 92, and 8 mi west of Daytona Beach.

DRAINAGE AREA. -- 29 mi², approximately.

PERIOD OF RECORD.--January 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Records fair. Since 1988 some ground-water diversion out of the basin for municipal water supply.

		DISCHARGE	E, CUBIC	FEET PER		WATER YE MEAN V	EAR OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	13 15 13 11 7.8	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 1.5	1.3 1.4 1.4 1.4
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	6.0 5.3 4.7 3.8 3.3	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	24 24 19 15	25 59 85 96 95
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.7 2.2 1.8 1.4	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	22 34 37 32 27	93 89 102 274 349
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.93 .69 .47 .28	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	23 19 23 26 19	344 332 316 298 277
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	15 12 8.6 6.3 5.0	255 244 237 217 204
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 	.00 .19 1.4 1.9 3.6 6.8	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	4.1 3.2 2.5 2.0 1.6 1.3	189 174 159 168 174
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	13.89 .45 6.8 .00	94.65 3.15 15 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	435.10 14.0 37 .00	4865.1 162 349 1.3
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER YE	ARS 1978	- 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	33.9 92.0 1980 .000 1988	.000	13.5 78.2 1998 .000 1991	20.1 89.2 1998 .000 1991	19.4 74.2 1978 .000 1991	20.4 80.7 1979 .000 1985	12.9 90.1 1983 .000 1985	3.10 39.1 1979 .000 1980	5.22 67.6 1991 .000 1981	8.97 61.2 1991 .000 1981	17.2 92.5 1978 .000 1981	32.2 162 2001 .000 1987
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	OAR YEAR	F	FOR 2001 WAT	TER YEAR		WATER Y	EARS 1978	3 - 2001
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM MAXIMUM 10 PERCI 50 PERCI		AN AN N MINIMUM W GE DS		482.50 1.32 42 .00 .00	Apr 2 Many da Feb 16	ys	5408.74 14.8 349 .00 .00 355 32.81 19 .00	Sep 15 Many da Oct 1 Sep 15 Sep 15	ıys	16.3 37.1 .0 349 .0 .0 355 32.9 56	Sep 003 Sep 00 Ma 00 Ma Sep 04 Mar	1984 1994 15 2001 my days my days 15 2001 7 1979

02247496 THAYER CANAL NEAR DAYTONA BEACH, FL

LOCATION.--Lat $29^{\circ}10^{\circ}43^{\circ}$, long $81^{\circ}07^{\circ}14^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.29, T.15 S., R.31 E., Volusia County, Hydrologic Unit 03080201, on left bank 50 ft upstream from box culverts on 11th Street extension, 1.5 mi above mouth, and 2.2 mi northwest of the intersection of Interstate Highway 95 and U.S. Highway 92, and 4.3 mi west of Daytona Beach.

DRAINAGE AREA. -- 33 mi², approximately.

PERIOD OF RECORD.--December 1982 to September 1988 (gage heights and discharge measurements only). October 1988 to current year. GAGE.--Water-stage recorder. Datum of gage is at sea level. (Savage Engineering Co. bench mark).

REMARKS. -- Records fair.

		DISCHARGE	E, CUBIC	FEET PER	SECOND, N		YEAR OCTOBER VALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.61 .43 .40 .59	.03 .02 .02 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	2.0 1.5 1.2	.05 .02 .00 .00 e.00	.00 .00 .00 .00	.01 .00 .00 .00	8.1 3.9 3.3 6.5	5.0 7.6 8.1 7.4
6 7 8 9	.36 .27 .20 .17	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.94 .75 .62 .53 .47	e.00 e.00 e.00 .00	.05 .10 .08 .03	.23 .20 .18 .17	6.4 4.9 4.8 13 20	34 66 62 68 67
11 12 13 14 15	.13 .12 .11 .11	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.36 .32 .29	.00 .00 .00 .00	.09 .06 .05 .12	.31 .33 .57 .61 .47	31 29 30 36 38	64 65 80 224 252
16 17 18 19 20	.09 .08 .08 .07	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .72	.23 .22 .22	.00 .00 .00 .00	.13 .14 .13 .11	.38 .35 .48 .72	37 35 34 47 44	171 132 114 104 98
21 22 23 24 25	.07 .07 .06 .06	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.74 .62 .52 .45	.21 .20 .20 .19	.00 .00 .00 .00	.10 .10 .09 .09	1.7 1.3 .94 .78	37 31 25 21 17	93 90 89 86 85
26 27 28 29 30 31	.07 .06 .05 .04 .04	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.36 .32 .30 .38 .91	.08	.00 .00 .00 .00	.04 .01 .02 .07 .04	1.4 3.1 3.2 2.3 1.5	14 11 9.1 7.3 5.9 4.9	83 80 78 91 95
TOTAL MEAN MAX MIN	5.25 .17 .61 .04	0.09 .003 .03	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	8.93 .29 1.9 .00	.54 2.7	0.07 .002 .05 .00	2.03 .068 .14	35.33 1.14 12 .00		2514.1 83.8 252 5.0
							1, BY WATER Y	(,				
MEAN MAX (WY) MIN (WY)	20.4 47.7 1996 .000 1994		10.3 47.7 1998 .000 1989	12.3 65.3 1998 .000 1991	8.52 45.7 1998 .000 1991	10.3 50.2 1998 .000 1997	30.1 1996 .000	.51 5.75 1996 .000 1994	2.19 22.8 1991 .000 1989	4.10 27.7 1991 .000 1989	5.80 23.3 1991 .000 2000	17.1 83.8 2001 .000 1990
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR		FOR 2001 WAT	TER YEAR		WATER Y	EARS 1989	9 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN				396.90 1.08 28 .00 .00		ys	3212.15 8.80 252 .00 .00 290 27.50 29 .04	Sep 15 Many da Nov de Sep 14 Sep 14	vys	9.00 25.0 .00 252 .00 .00 290 27.56 31 .33	24 Sep 0 Ma 0 Sep 0 Sep 0 Sep	1998 1994 15 2001 my days my days 14 2001 14 2001

e Estimated

02247509 ELEVENTH STREET CANAL AT HOLLY HILL, FL

LOCATION.--Lat $29^{\circ}14^{\circ}44^{\circ}$, long $81^{\circ}02^{\circ}30^{\circ}$, in $SE^{1/4}_{4}$ sec.35, T.14 S., R.32 E., Volusia County, Hydrologic Unit 03080201, near center of span on upstream side of bridge on U.S. Highway 1, 50 ft south of the intersection with LPGA Boulevard in Holly Hill, 0.3 mi upstream from mouth.

DRAINAGE AREA.--12.7 mi².

PERIOD OF RECORD. -- December 2000 to September 2001.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (Florida Department of Transportation bench mark). Acoustic velocity meter for Reed Canal at South Daytona (02248025) used as auxiliary gage for this station.

REMARKS.--Records poor. Discharge computed from gage-height record at 11th Street Canal and velocity record at Reed Canal. Flow is affected by tides in the Intracoastal Waterway.

EXTREMES FOR PERIOD DECEMBER 2000 TO SEPTEMBER 2001.—Maximum daily discharge, 263 $\rm ft^3/s$, Sept. 14; maximum gage height, 4.35 $\rm ft$, Sept. 15; minimum daily discharge, 0.81 $\rm ft^3/s$, Aug. 13; minimum gage height, 0.07 $\rm ft$, Jan. 2.

	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				1.4	1.8	3.3	13	e7.4	5.4	5.2	e25	7.8		
2				1.5	1.8	3.8	8.5	e7.0	5.5	4.4	17	9.6		
3				1.9	2.0	2.6	7.6	e6.4	3.4	3.8	16	6.7		
4				2.1	3.4	3.8	7.0	e5.6	2.8	3.2	16	8.2		
5				1.9	3.9	3.8	7.0	e5.3	2.1	8.2	25	18		
6				1.9	3.2	2.9	8.0	e4.9	2.6	7.1	12	26		
7				2.1	3.1	2.4	7.4	e4.5	2.9	4.3	6.3	25		
8				3.1	2.9	2.3	6.4	4.2	3.2	7.4	8.3	18		
9				2.7	3.1	2.8	6.1	7.9	4.6	7.6	6.6	21		
10				1.2	3.9	.83	6.8	8.3	18	16	4.6	15		
11				2.5	2.6	5.4	6.1	5.7	15	10	2.7	12		
12				4.7	3.3	7.2	6.7	4.2	9.1	8.1	1.5	12		
13				2.7	4.2	24	5.9	3.4	5.5	16	.81	42		
14				4.4	2.9	9.8	4.5	2.9	5.9	16	3.2	263		
15				4.9	2.4	5.2	5.4	4.1	6.8	13	6.8	177		
15				4.9	2.4	5.2	5.4	4.1	0.0	13	0.0	1//		
16				3.6	2.0	7.4	5.4	3.8	9.7	10	16	86		
17			e6.0	2.9	2.4	4.8	5.2	3.3	13	10	11	60		
18			e3.1	3.1	2.5	5.2	4.6	3.4	5.8	9.5	7.9	44		
19			e3.8	3.6	3.1	52	3.9	4.5	6.1	11	9.1	39		
20			e2.4	4.2	3.4	48	3.0	3.7	6.5	10	9.1	33		
21			e2.7	2.1	2.5	16	2.6	3.4	6.1	8.8	10	29		
22			e2.7	2.2	2.3	12	2.3	8.6	6.4	9.9	9.2	23		
23			2.6	1.4	1.6	9.3	2.4	7.8	6.9	14	9.4	21		
24			e3.2	4.0	3.5	9.9	2.6	3.6	6.2	12	9.0	21		
25			e3.5	2.1	4.0	8.1	3.5	3.5	5.8	8.4	7.3	19		
26			e3.7	2.7	3.8	6.6	4.4	2.4	6.0	7.7	7.3	14		
27			e4.9	3.8	2.7	7.5	5.6	5.2	5.6	6.9	7.0	15		
28			e5.1	2.4	3.1	7.3	e8.5	4.6	6.0	5.6	7.1	15		
29			e6.1	2.5		15	e7.3	3.0	5.7	5.6	6.4	62		
30			e4.6	2.5		21	e6.3	3.3	5.2	5.4	5.7	42		
31			2.4	2.5		16		3.8		e34	6.1			
TOTAL			56.8	84.6	81.4	326.23	174.0	149.7	193.8	299.1	289.41	1184.3		
MEAN			3.79	2.73	2.91	10.5	5.80	4.83	6.46	9.65	9.34	39.5		
MAX			6.1	4.9	4.2	52	13	8.6	18	34	25	263		
MIN			2.4	1.2	1.6	.83	2.3	2.4	2.1	3.2	.81	6.7		

e Estimated

02247510 TOMOKA RIVER NEAR HOLLY HILL, FL

LOCATION.--Lat 29°13'02", long 81°06'32", in NW^{1}_{4} sec.9, T.15 S., R.32 E., Volusia County, Hydrologic Unit 03080201, near center of span on downstream side of bridge on 11th Street extension, 0.3 mi southwest of Interstate Highway 95, 2 mi upstream from Priest Branch, 4.5 mi southwest of Holly Hill, and 12 mi upstream from mouth.

DRAINAGE AREA. -- 76.8 mi².

PERIOD OF RECORD. -- October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark).

REMARKS. -- Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 11, 1964, reached a stage of 12.65 ft, from floodmarks, discharge, 2,170 ft³/s.

		DISCHA	RGE, CUBI	C FEET PER		, WATER LY MEAN	YEAR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	97 72 54 52 48	6.1 6.1 5.9 5.8 5.2	5.6 5.7 5.2 4.9 4.7	4.0 3.7 3.5 3.3 3.2	3.6 3.4 3.2 3.7 5.6	1.5 1.2 1.1 1.8 3.4	90 65 45 33 25	3.8 8.7 7.0 4.3 3.5	2.3 2.9 2.4 2.1 2.4	12 7.3 6.0 8.5	214 122 79 72 206	17 27 29 32 86
6 7 8 9 10	43 35 28 23 19	5.5	4.5 4.3 4.2 4.1 4.1	3.3 3.2 3.2 3.1 3.1	4.6 3.6 3.1 2.8 2.6	2.0 1.4 1.0 .88		3.1 3.3 4.6 3.7 3.1	2.5 5.3 6.6 5.5	25 19 12 10 8.9	159 100 66 49 46	112 441 252 229 231
11 12 13 14 15	17 17 17 15 13	4 9	4.2 4.6 5.8 5.1 4.5	3.0 3.4 3.6 5.4 5.6	2.4 2.3 2.4 2.7 2.4	.79 .70 8.8 41 20	13 9.3 8.3 7.5 7.0	2.7 2.6 2.4 2.3 2.1	35 29 18 13 23	14 13 23 52 39	67 77 62 60 68	188 186 258 1940 2130
16 17 18 19 20	11 10 9.3 8.4 8.6	4.4 4.5 4.3	4.2 5.3 5.5 4.7 4.3	4.1 3.5 3.1 3.0 3.3	2.2 2.0 1.6 1.7 2.0	10 10 7.9 36 364	6.3 5.4 4.7 4.9 5.5	2.0 1.9 1.8 1.7	31 62 39 23 16	24 18 15 14 55	87 104 77 75 70	1270 879 696 576 500
21 22 23 24 25	8.0 7.4 7.0 7.0 8.2	3.9 3.7 3.6 3.6 4.2	4.1 4.0 3.7 3.7 3.6	5.4 5.0 4.0 6.5 5.6	1.7 1.6 1.6 1.7	189 95 67 53 34	4.2	1.8 2.7 13 9.3 4.8	12 10 10 10 13	152 74 41 28 27	64 59 45 38 32	442 384 353 329 340
26 27 28 29 30 31	9.3 8.7 7.7 6.8 6.7 6.5	11 8.3 6.3	3.4 4.3 6.0	3.8 3.4 2.7 2.6 2.6 2.8	1.3 1.5 1.3 	24 18 14 15 53 95	6.1 4.8 3.9 3.3 3.0	3.5 2.8 2.3 2.1 1.9	8.3 6.4 9.4 12 11	19 21 18 15 13 79	29 26 23 19 18 16	326 296 276 415 552
TOTAL MEAN MAX MIN CFSM IN.	22.0		4.56	116.0 3.74 6.5 2.6 .05	2 50	1171.31 37.8 364 .70 .49	452.2	112.4	62	873.7 28.2 152 6.0 .37 .42	2229 71.9 214 16 .94 1.08	13792 460 2130 17 5.99 6.68
STATIST	rics of M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 19	65 - 200	1, BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	95.6 401 1970 2.35 1981		37.5 238 1984 1.97 1991	50.0 204 1979 2.05 1981	47.7 195 1998 2.50 2001	47.6 233 1996 2.65 1985	182 1983 .47	12.7 72.5 1966 .52 1981	37.3 343 1976 .30 1981	43.2 222 1966 .94 1977	59.5 207 1974 1.43 1988	98.5 460 2001 3.65 1993
SUMMARY	Y STATIST	CICS	FOR :	2000 CALEN	DAR YEA	R	FOR 2001 WA	TER YEAR		WATER YEA	ARS 1965	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN	MEAN F ANNUAL ANNUAL M F DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW		.65	Mar 3 Aug 2 Aug 1	4	.70 1.1	Sep 15 Mar 12 Mar 6		50.7 99.6 5.11 2130 *.00 .00 2850 13.27	Sep : Jun : Sep :	1970 1981 15 2001 26 1981 14 2001 14 2001
ANNUAL ANNUAL 10 PERC 50 PERC	FANEOUS L RUNOFF (RUNOFF (CENT EXCE CENT EXCE CENT EXCE	CFSM) INCHES) EDS EDS		.21 2.86 28 5.4 1.8			.64 .72 9.80 95 6.5 2.3			.66 8.97 134 17 2.1	·	

^{*}Feb. 24,25,1968, June 26 to July 8, 1981

02247598 TOMOKA RIVER NEAR ORMOND BEACH, FL

LOCATION.--Lat $29^{\circ}20^{\circ}26^{\circ}$, long $81^{\circ}05^{\circ}11^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.42, T.13 S., R.32 E., Volusia County, Hydrologic Unit 03080201, attached to pier on right bank in the south picnic area of Tomoka State Park, 1.0 mi upstream from mouth, and 4.8 mi north of the City Hall in Ormond Beach.

DRAINAGE AREA. -- 101 mi².

PERIOD OF RECORD .-- October 2000 to September 2001.

GAGE.--Water-stage recorder, acoustic velocity meter, and data collection platform. Datum of gage is undetermined.

REMARKS.--Records fair. Flow affected by tides in the Intracoastal Waterway. Discharge not published some days due to missing velocity record.

EXTREMES FOR PERIOD OCTOBER 2000 TO SEPTEMBER 2001.--Maximum daily discharge, 2,830 ft³/s, Sept. 15, maximum gage height 5.05 ft Sept. 15; maximum daily reverse flow, -1,000 ft³/s, Mar. 19; minimum gage height, 0.23 ft, Mar. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DATLY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP -32 -43 -62 -68 -37 -107 -78 1.6 -181 -8.6 -50 -73 -184-197 -113 -246 -127-127-279 -157 -166 -411 -18 -21-57 _97 _an -293 -288 -13 -118 -105 -28 _94 -183 1 2 4 -198 4Ω 1.2 -71 ----126 -16 -130 -23 -270 -19 -170 -79 -2.8 -143 -158___ -139-1000 -281 e500 5.1 -146___ -280 -32 -420 -89 -202 -281 ___ 2.0 -22 -7.7 -7.7 -1.7 -65 -91 -49 -29 1 5 -118 ___ -52 -218 -87 ----42 -7.6 6.5 -156 ___ -62 -278 -54 ----209 -30 -8.2 -39 ----94 -97 TOTAL -886 ___ 3751.6 982.0 4009.8 3768.8 4000.8 MEAN -28.6 ---38.5 31.7 ---MAX MIN -420 -313 -202 -218

e Estimated

02248000 SPRUCE CREEK NEAR SAMSULA, FL

(Former national stream-quality accounting network station)

LOCATION.--Lat $29^{\circ}03^{\circ}01^{\circ}$, long $81^{\circ}02^{\circ}49^{\circ}$, in $SE^{1/4}_{4}$ sec 1, T.17 S., R.32 E., Volusia County, Hydrologic Unit 03080201, on downstream side of bridge on State Highway 40A, 1.8 mi north of Samsula, 8 mi west of New Smyrna Beach, 10 mi upstream from Turnbull Bay, and 13 mi upstream from mouth.

DRAINAGE AREA.--33.4 mi².

PERIOD OF RECORD. -- May 1951 to current year.

REVISED RECORDS. -- WSP 1624: 1958. WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6.25 ft above sea level (Florida Department of Transportation bench mark). Prior to Nov. 13, 1971, at sites within 100 ft at same datum.

REMARKS.--Records fair. Some diversions for irrigation above station.

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 2 3 4 5	73 50 39 67 52	1.7 1.7 1.6 1.6	1.3 1.2 1.2 1.2 1.2	1.2 1.1 1.0 1.0	1.4 1.4 1.3 1.3	1.8 1.9 1.9 2.1 2.2	71 45 30 21 16	1.2 1.2 1.4 1.5	17 10 3.8 2.7 2.3	6.2 5.4 4.6 4.1 3.8	299 243 220 208 227	5.7 8.1 19 9.2 44
6 7 8 9 10	34 23 15 11 8.6	1.5 1.5 1.4 1.4	1.1 1.1 1.1 1.0 1.0	1.0 .95 .97 1.1 1.0	1.4 1.3 1.3 1.3	2.1 2.1 2.1 2.1 2.1	12 9.7 7.9 6.6 5.7	1.2 1.1 1.1 1.1	3.3 6.9 9.2 7.6 4.2	4.1 4.7 5.7 5.9 6.6	227 170 130 107 104	51 153 209 197 209
11 12 13 14 15	6.6 5.8 5.7 4.6 3.8	1.3 1.3 1.3 1.3	1.0 1.3 1.3 1.2	.98 1.0 1.1 1.1	1.3 1.4 1.4 1.5	1.9 1.9 17 16 4.6	4.9 4.4 3.9 3.5 3.2	1.1 1.0 1.0 .98 .97	3.2 3.5 3.1 2.9 5.1	7.7 7.5 7.6 17 31	81 61 48 38 29	211 168 404 883 824
16 17 18 19 20	3.2 3.0 2.8 2.6 2.5	1.2 1.2 1.2 1.2 1.3	1.1 1.1 1.1 1.2 1.2	.95 .96 1.0 1.1 1.3	1.5 1.6 1.6 1.6	4.4 4.3 3.6 163 439	2.8 2.5 2.2 2.1 2.0	.98 .94 .92 .98	18 13 9.9 9.9 7.0	25 18 42 135 100	24 22 35 70 58	746 639 515 408 329
21 22 23 24 25	2.4 2.3 2.2 2.3 2.2	1.2 1.2 1.1 1.1	1.1 1.2 1.1 1.1	1.4 1.2 1.3 1.2	1.7 1.7 1.7 1.7	188 106 65 43 31	1.9 1.8 1.6 1.6	1.0 19 28 5.9 3.5	5.4 4.6 4.2 4.0 4.0	109 72 63 52 38	48 40 33 25 18	255 202 154 117 107
26 27 28 29 30 31	2.2 2.1 2.0 1.9 1.8 1.8	1.8 2.5 1.7 1.4 1.3	1.1 1.3 1.6 1.4	1.1 1.0 .97 .94 1.0	1.9 1.9 1.9 	23 16 13 13 81 83	1.6 1.5 1.4 1.3	2.8 2.4 2.2 2.0 1.9 2.9	3.9 3.5 3.6 4.0 5.1	47 142 137 74 47 330	15 12 9.6 7.6 6.4 5.8	87 76 73 616 599
TOTAL MEAN MAX MIN CFSM IN.	436.4 14.1 73 1.8 .42 .49	42.4 1.41 2.5 1.1 .04	36.4 1.17 1.6 1.0 .04	33.32 1.07 1.4 .94 .03	1.9	1338.1 43.2 439 1.8 1.29 1.49	271.9 9.06 71 1.3 .27	93.67 3.02 28 .92 .09	184.9 6.16 18 2.3 .18 .21	1552.9 50.1 330 3.8 1.50 1.73	2621.4 84.6 299 5.8 2.53 2.92	8318.0 277 883 5.7 8.30 9.26
STATIS	TICS OF MC	ONTHLY MEA	N DATA F	OR WATER Y	EARS 195	1 - 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	58.4 248 1970 .57 1981	22.3 174 1995 .77 1981	17.2 120 1984 .48 1991	26.1 134 1964 .44 1991	28.1 121 1978 .49 1962	30.8 127 1996 .40 1962	17.6 126 1983 .21 1962	4.62 31.5 1979 .24 1951	21.4 168 1976 .15 1951	28.9 165 1974 .72 1951	47.4 181 1976 .44 1956	73.9 281 1953 .48 1956
SUMMAR	Y STATISTI	ics	FOR	2000 CALEN	DAR YEAR	I	FOR 2001 WA	TER YEAR		WATER Y	YEARS 1951	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS					Mar 31 Jun 10 Jun 4		.92 .97			31.4 72.5 2.5 1280 *(1610 15.4 a.8 12.5	Sep 00 Sep 00 Apr Sep 49 Oct 39 Oct	1964 1981 11 1964 20 1962 10 1964 8 1953
	CENT EXCE			.66	i		1.1			.9		

^{*} April 23-26, May 17, 1962 a Jan. 7,8,29, May 15, 2001

02248025 REED CANAL AT SOUTH DAYTONA, FL

LOCATION.--Lat $29^{\circ}09^{\circ}30^{\circ}$, long $80^{\circ}59^{\circ}43^{\circ}$, in $NE^{1/4}_{4}$ sec. 33, T. 15 S., R. 33 E., Volusia County, Hydrologic Unit 03080201, at center of span on upstream side of bridge on U.S. Highway 1, 50 ft south of the intersection with Reed Canal Road, in the town of South Daytona, and 0.15 mi upstream from mouth.

DRAINAGE AREA. -- 3.75 mi².

PERIOD OF RECORD. -- December 2000 to September 2001.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level (City of Daytona benchmark).

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Flow affected by tides in the Intracoastal Waterway.

EXTREMES FOR PERIOD DECEMBER 2000 TO SEPTEMBER 2001.--Maximum daily discharge, 364 ft³/s, Sept. 14; maximum gage height, 4.12 ft, Sept. 15; minimum daily flow, 0.37 ft³/s, Mar. 10; minimum gage height, -0.06 ft, Feb. 2,3,4, Mar. 3,4.

DISCHARGE, CUBIC FEET PER SECOND, PERIOD DECEMBER 2000 TO SEPTEMBER 2001 DATLY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 9.6 11 e15 14 13 e48 ___ ---___ 2 8.2 10 12 25 e12 16 12 37 26 3 8.6 9.8 24 ------11 e11 11 35 17 11 ---------23 e10 20 5 7.2 12 16 18 e9.8 7.3 27 59 39 ------6 ---8.3 11 12 19 e8.9 9.9 26 30 63 7 5.2 7.2 10 19 e7.5 11 17 17 57 8 11 8.8 4.0 11 13 24 40 19 22 ---------9.8 9.4 19 16 16 25 17 46 10 2.5 21 13 .37 19 37 48 12 38 11 6.1 10 9.9 18 14 39 32 7.4 32 ___ ------12 9.8 13 14 19 12 25 27 4.6 2.7 29 13 13 51 19 11 51 75 9.0 17 17 14 ___ ---___ 11 26 7.3 18 42 9.4 364 ---19 15 21 16 10 253 10 31 16 17 ___ ___ 11 9.2 21 17 10 7.0 29 25 44 125 ___ ---37 20 9.4 15 16 26 11 28 92 8.6 7.9 7.0 72 18 14 13 24 20 7.5 9.9 19 ___ ---16 10 94 13 10 18 29 23 66 11 27 20 15 10 8.4 18 23 84 60 7.7 21 12 8.6 7.8 17 21 ___ ---11 8.5 35 28 55 22 15 8.9 7.9 33 23 17 19 25 47 23 7.1 4.8 28 8.8 21 19 24 42 24 ___ --e6.6 9.2 5.2 8.8 28 9.2 8 0 17 25 24 43 25 20 21 10 26 13 8.1 15 40 e6.0 5.8 18 26 e5.5 6.9 11 21 15 16 19 31 ___ ---27 e5.1 11 9.2 23 17 13 15 18 33 16 28 --e5.3 8.6 11 21 e15 12 15 15 18 32 ___ ------9.2 29 e7.0 9.1 36 e12 14 14 18 113 30 11 e13 10 14 e10 54 13 31 ---9.4 14 ---41 9.6 e70 17 TOTAL 277.5 277.3 782.17 499.4 344.3 541.8 786.6 722.1 2045 11.1 23 25.4 70 MEAN ---------8.95 9.90 25.2 16.6 18.1 23.3 68.2 ---------15 94 59 MAX 13 34 39 364 MIN ---2.5 4.8 7.8 7.3 8.6 2.7

e Estimated

02248030 HALIFAX CANAL NEAR HARBOR OAKS, FL

LOCATION.--Lat $29^{\circ}06^{\circ}56^{\circ}$, long $80^{\circ}59^{\circ}15^{\circ}$, in NW^{1}_{4} sec. 15, T. 16 S., R. 33 E., Volusia County, Hydrologic Unit 03080201, near center of downstream side of box culverts on Nova Road, 1.0 mi west of the intersection of Nova Road and U.S. Highway 1, 1.0 mi northwest of Harbor Oaks, and 0.7 mi upstream from mouth.

DRAINAGE AREA. -- 2.74 mi².

PERIOD OF RECORD. -- October 2000 to September 2001.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level.

REMARKS.--Records fair. Flow affected by tides in the Intracoastal Waterway.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 13 14 13 14	12 7.0 7.8 6.8 5.0	6.3 4.7 09 82 6.6	3.7 2.6 2.3 2.5 3.3	2.7 2.7 1.2 1.6 1.9	2.8 3.7 2.8 2.9 2.9	8.0 5.6 6.6 5.8 4.3	4.3 3.8 3.8 3.4 4.0	5.3 4.6 3.8 3.8 3.8	4.7 4.5 3.8 3.6 7.6	23 18 18 18 19	5.7 6.1 4.6 6.1 7.0
6 7 8 9 10	11 9.2 6.1 8.9 14	5.2 7.2 7.9 7.7	6.6 6.3 6.3 6.6 4.2	3.4 2.7 3.4 2.9 3.1	2.9 1.1 .93 -1.3 -1.2	1.7 1.1 1.1 3.3 2.3	6.0 6.2 5.3 6.0 6.4	4.3 2.2 5.9 7.3 8.0	3.6 3.4 2.3 2.9 4.4	5.1 3.9 5.4 6.5	20 18 14 15 13	10 8.3 9.2 9.7 8.5
11 12 13 14 15	13 11 12 12 10	62 -2.8 9.1 10 7.6	8.2 9.3 7.4 8.6 6.1	3.3 6.4 4.1 5.8 4.2	24 -2.6 -1.6 -1.6 40	5.8 6.9 9.2 6.3 3.3	5.5 6.4 6.0 5.4 4.4	6.5 6.2 4.3 3.1 5.8	5.7 4.6 4.1 4.3 4.5	9.7 11 19 13 10	12 8.5 8.0 8.2 7.8	7.7 8.9 19 89 59
16 17 18 19 20	11 12 15 13 11	10 9.6 6.9 4.9 4.8	5.4 6.8 3.5 2.9 2.7	3.2 2.7 2.6 3.7 5.0	.75 .84 90 1.2 1.5	8.9 5.0 3.4 8.9 25	4.6 5.5 5.3 4.3 3.3	3.9 2.9 4.8 4.4 5.0	5.2 4.9 4.0 4.2 3.8	9.1 9.7 12 13 9.4	21 18 15 12 13	26 22 21 17 21
21 22 23 24 25	11 7.3 8.3 13 12	9.1 6.8 5.0 4.9 9.0	2.8 2.7 3.1 3.8 3.7	2.7 1.9 .87 4.6 2.8	2.5 2.6 1.7 6.5 4.4	18 11 7.7 9.0 8.4	3.8 3.4 3.2 4.2 4.8	4.9 8.5 4.7 5.8 5.7	4.9 5.7 6.1 5.5 6.1	6.4 6.9 12 10 8.6	13 11 9.1 8.9 9.4	15 15 13 18 19
26 27 28 29 30 31	5.6 9.2 19 9.4 7.7 8.9	10 10 8.6 7.6 6.7	3.8 5.0 5.3 -1.1 7.7 3.5	3.3 2.3 2.6 2.3 2.2 2.6	2.9 3.5 2.6 	8.0 8.4 5.7 10 13 8.3	6.0 8.0 7.0 3.0 6.4	4.8 5.3 4.3 3.8 3.0 3.4	7.6 6.5 4.0 3.8 4.2	8.1 6.4 6.3 4.7 6.8	5.0 5.9 7.3 6.6 5.4 5.9	12 12 11 94 39
TOTAL MEAN MAX MIN	347.6 11.2 19 5.6	211.48 7.05 12 -2.8	147.89 4.77 9.3 -1.1	99.07 3.20 6.4 .87	36.18 1.29 6.5 -2.6	214.8 6.93 25 1.1	160.7 5.36 8.0 3.0	148.1 4.78 8.5 2.2	137.6 4.59 7.6 2.3	296.2 9.55 48 3.6	387.0 12.5 23 5.0	613.8 20.5 94 4.6
							BY WATER	•				
MEAN MAX (WY) MIN (WY)	11.2 11.2 2001 11.2 2001	7.05 7.05 2001 7.05 2001	4.77 4.77 2001 4.77 2001	3.20 3.20 2001 3.20 2001	1.29 1.29 2001 1.29 2001	6.93 6.93 2001 6.93 2001	5.36 5.36 2001 5.36 2001	4.78 4.78 2001 4.78 2001	4.59 4.59 2001 4.59 2001	9.55 9.55 2001 9.55 2001	12.5 12.5 2001 12.5 2001	20.5 20.5 2001 20.5 2001
SUMMARY	STATIST	rics			FOR 2	001 WATER	YEAR					
ANNUAL TOTAL ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS						-2.8 N -1.3 F	ep 29 ov 12 eb 9 ep 15					

02248053 SPRUCE CREEK NEAR NEW SMYRNA BEACH, FL

LOCATION.--Lat $29^{\circ}04^{\circ}21^{\circ}$, long $80^{\circ}59^{\circ}25^{\circ}$, in NW_{4}^{1} sec. 34, T. 16 S., R. 33 E., Volusia County, Hydrologic Unit 03080201, near left bank, 0.5 mi upstream from railroad crossing at Strickland Bay, 2.5 mi upstream from mouth, and 4.6 mi northwest of the City Hall in New Smyrna Beach.

DRAINAGE AREA. -- 60.7 mi².

PERIOD OF RECORD. -- December 2000 to September 2001.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is undetermined.

REMARKS.--Records fair. Flow affected by tides in the Intracoastal Waterway.

EXTREMES FOR PERIOD DECEMBER 2000 TO SEPTEMBER 2001.--Maximum daily discharge, 2,770 ft³/s, Sept. 15; maximum gage height, 4.05 ft, Sept. 15; maximum daily reverse flow, 342 ft³/s, Mar. 19; minimum gage height, -0.59 ft, Mar. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR AUG SEP 171 75 -17430 691 150 1 ---200 -.46 214 2 ---___ 133 3.9 218 1.0 -105 171 -35 438 131 ------111 3 85 142 -167 180 -93 382 52 108 89 90 158 8.9 4 ---145 -21546 261 5 189 74 119 -70 -8.7 249 172 -1786 23 62 127 277 214 48 34 -145 361 ----------.63 3.0 54 -4.5 53 -290 201 62 195 154 -104 108 190 8 99 -89 186 139 382 18 51 -69 -17 214 121 290 125 293 10 -21 123 -137 187 -45 146 227 168 252 11 11 2.0 16 174 -32 146 231 112 199 12 13 ---------102 -79 52 228 238 357 205 275 32 -19 13 34 281 107 31 62 299 191 14 6.8 85 143 -85 159 -15 68 2680 15 ___ ___ ___ 41 194 201 257 31 202 -96 126 2770 321 70 -70 16 54 128 228 118 2160 17 ___ ---___ 22 34 39 -112 61 -28 192 -73 -93 175 -48 92 126 1620 1130 18 ___ -------35 .41 183 -18 19 -94 -342 -101 20 ___ ___ ___ 113 36 1310 -50 -70 -67 108 251 701 21 13 579 -85 -67 515 -16 -6.8 62 266 22 ___ ---___ 28 98 164 -94 45 161 57 160 374 23 -138 19 -93 -88 234 274 116 283 -61 32 -6.4 27 187 208 25 ___ ___ ___ 60 59 113 92 51 108 159 173 110 26 -20 31 32 -73 30 42 174 87 78 -2.2 32 27 ___ ---122 25 44 -70 160 266 50 -1028 89 -30 29 212 96 -48 184 181 153 29 ----102 117 270 -104 188 -39 40 59 601 ___ ---30 ___ 248 128 330 -200 117 -23 166 70 1310 31 217 164 180 -8.3 -1127.3 TOTAL 1910.8 1082.41 4245.5 1931.0 3234.71 4522.9 5583 17696 ------------___ ---61.6 38.7 137 64.4 -36.4 108 146 180 MEAN 590 MAX ------200 194 1310 357 188 275 594 691 2770 -19 MIN ----138-112-342-200-290 -67 -96 -48

02248060 TURNBULL CREEK NEAR NEW SMYRNA BEACH, FL

LOCATION.--Lat $29^{\circ}03^{\circ}03^{\circ}$, long $80^{\circ}57^{\circ}35^{\circ}$, in SW^{1}_{4} sec. 40, T. 17 S., R. 33 E., Volusia County, Hydrologic Unit 03080201, near left bank, 75 ft upstream from Turnbull Bay Road, 1.9 mi northwest of the intersection of Turnbull Bay Road and U.S. Highway 1, 2.0 mi upstream from mouth, and 2.8 mi northwest of the City Hall in New Smyrna Beach.

DRAINAGE AREA. -- 11.3 mi².

PERIOD OF RECORD. -- October 2000 to September 2001.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is undetermined.

REMARKS.--Records fair. Flow affected by tides in the Intracoastal Waterway. Discharge not published some days due to missing velocity or gage height record.

EXTREMES FOR PERIOD OCTOBER 2000 TO SEPTEMBER 2001.--Maximum daily discharge, 891 ft³/s, Sept. 15; maximum gage height 14.53 ft, Sept. 15; maximum daily reverse flow, 65 ft³/s, Feb. 23; minimum gage height, 9.93 ft, Mar. 5.

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 202 48 -3.9 -12 -5.9 -15 -2.6 -7.5 114 18 -10 7.2 ___ -1.8 2 248 46 -8 0 -21 -8.3 97 -2.33 -27 -27 -11 -1.6 -12 -22 -18 93 142 43 -6.7 ---123 27 -22 -42 -12 -18 ----12 5 81 18 90 -20 -30 -9.2 -30 -31 13 59 48 ---7.3 -7.6 6 57 33 51 -27 -28 -45 -3.9 -21 69 56 -33 7.2 .20 7 13 48 24 -37 -62 44 51 -21 -9.4 59 8 -56 5.5 -43 8.9 93 16 46 ------59 .16 -9.9 -55 -33 -11 83 34 57 104 6.1 6.9 -4.2-7.5 10 135 -36-4727 46 80 12 11 11 -44 -.68 -16 -27 36 14 25 56 ---9.9 ---12 17 51 -2.4-28 19 17 15 29 59 -7.0 -37 5.3 13 12 -8.0 5.0 -3.1 5.9 214 53 21 -8.1 -3.7 -12 7.0 -9.8 -7.4 14 49 74 35 _12 ___ ___ -4.5 872 ---15 40 16 -14-16 68 891 .37 16 47 59 -2 7 -8 9 -10 ___ -6.0 -16 ___ 56 822 5.4 ----9.0 ---17 -13 -26 -18 55 31 665 4.4 -23 -20 -5.7 -.77 -27 18 51 -36 437 8.2 19 51 -22 -20 -16 -20 ___ 1.0 -16 ___ ___ 405 -5.9 -17 20 39 29 -21 -15 460 -10 -22 318 -22 -19 -17 21 31 69 -20 -24 126 -16 ___ 232 22 15 -23 -44 -31 -16 31 -2.1 162 26 33 23 1.9 -29 -59 -65 2.8 -16 -5.9 -1.5 24 46 -18 -26 32 29 98 41 16 ___ 53 114 25 5.7 9.7 -9.2 -41 -9.0 51 10 98 -16 -.66 95 17 7.7 17 -2 2 -12 26 69 -11 -18 -38 28 ___ 84 11 27 14 -14 6.4 1.7 133 5.5 30 30 27 56 .4 .65 52 28 115 -5.3 -2.1 -11 -14 4.0 18 ---25 46 -3.5 -2.5 -28 ---2 0 -2.9 ___ 29 42 -18 -9.7 8 3 620 30 -4.1 48 -8.6 -2.0 -1.1 61 36 31 73 -12 -1.2 27 8.7 136 5.2 TOTAL 2152.8 639.46 60.82 -506.0 -609.76 -144.62 224.20 7368.5 21.3 74 MEAN 69.4 1.96 -16.3 -21.8 ----4.82 7.23 ------246 248 53 ---83 ------MAX 90 -.66 30 891 MIN -59

02248380 HAULOVER CANAL NEAR MIMS, FL

LOCATION.--Lat $28^{\circ}44^{\circ}10^{\circ}$, long $80^{\circ}45^{\circ}18^{\circ}$, in $SE^{\frac{1}{2}}_{4}$ sec. 19, T. 20 S., R. 36 E., Brevard County, Hydrologic Unit 03080202, under the bridge on Kennedy Parkway, 8.7 mi south of the intersection of U.S. Highway 1 and Kennedy Parkway, and 7.3 mi northeast of Mims.

DRAINAGE AREA. -- Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- August 1995 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is at sea level.

REMARKS. -- Records poor.

	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	-4230	-1090	67	-329	-398	-960	-624	-1290	1570	1980	499	1160
2	-3770	-850	-995	-1800	-1300	1090	-1840	660	1630	1170	1470	660
3	2230	-1670	-2810	-2790	-2520	3070	3440	-889	1300	1040	3280	-414
4	7100	-768	-4220	-1860	-926	3830	144	-1490	1890	1130	3330	812
5	-369	-675	-4250	1330	-1230	-856	-1450	-1060	2770	1180	3210	-548
6	2910	827	-3240	38	-124	-2980	1540	-1480	1660	350	1870	-171
7	-1480	2400	-2300	72	-513	-2680	878	-1940	1730	449	-154	74
8	-3510	2870	435	1890	269	-1350	1380	-2180	1050	540	-9.7	142
9	-4890	3220	1070	-2540	1230	-301	1950	-823	-629	1620	891	2250
10	-3910	218	200	-3010	632	-2620	558	-452	-212	50	960	1570
11	-2840	-3050	1310	-171	-2330	-640	2160	1090	1120	441	2030	1650
12	-1720	-1770		1220	-2630	2350	2290	1110	3540	2250	2500	2930
13	-1760	587		-3590	-2370	2950	2090	1510	826	1990	2300	-461
14	-2410	1670		-2770	1350	-1340	-1500	e700	340	-2140	1570	2770
15	-2800	-3200		-1030	2280	4210	100	e900	792	-2020	1340	-2020
16	-1490	843	4020	-1.1	2980	3810	-1740	1070	647	1320	407	-4560
17	-1760	1280	2550	-592	297	-1930	-979	-54	167	812	1080	-2320
18	-1800	-2760	-2850	1290	-3710	-3120	-3780	-309	-590	1240	1180	517
19	-1240	1890	1050	2910	-1360	e-3400	-1430	1250	-1170	1470	938	2370
20	-2180	-4120	-2290	1380	1210	e-2700	2160	1030	-1110	865	449	2510
21	-254	e-4200	-879	-3250	967	-1560	1640	4280	15	1510	-449	1520
22	-1710	e-2000	-1030	-2600	1410	-2170	802	2940	474	1990	107	795
23	-2370	-354	-2010	-3510	-2070	-1480	1820	-1160	874	5910	-964	74
24	-3250	2590	-2280	-1940	995	309	1700	-1890	14	3480	-901	3620
25	-2390	3840	-3760	-2060	3820	422	29	2380	471	2490	-347	-307
26 27 28 29 30 31	-2930 -3450 -407 63 -2100 -1530	-1810 -1470 -1740 -1020 -1910	43 1030 1770 -3070 -2350 -1750	-1380 340 -69 2100 4030 900	-262 -583 1090 	-1990 -2700 -448 4120 3560 166	-3540 -1880 355 228 -373	1350 1950 1150 1630 399 -348	178 -266 -523 548 1890	2630 1810 577 917 1410 -454	-2920 -1900 886 192 1800 2140	-1000 815 -1820 -1660 -4630
TOTAL	-50247	-12222	-26584	-17792.1	-3796	-5338	6128	10034	20996	38007	26784.3	6328
MEAN	-1621	-407	-858	-574	-136	-172	204	324	700	1226	864	211
MAX	7100	3840	4020	4030	3820	4210	3440	4280	3540	5910	3330	3620
MIN	-4890	-4200	-4250	-3590	-3710	-3400	-3780	-2180	-1170	-2140	-2920	-4630
STATIS'	TICS OF I	MONTHLY ME	EAN DATA	FOR WATER	YEARS 199	6 - 2001	, BY WATER	YEAR (WY)			
MEAN	-661	-524	-847	-416	-354	-195	286	172	423	585	136	648
MAX	939	571	506	144	416	158	611	622	1118	1226	864	2139
(WY)	2000	1999	1996	1998	1998	1998	1997	2000	2000	2001	2001	1996
MIN	-1621	-1250	-1176	-901	-824	-568	-67.7	-616	-1352	147	-576	-275
(WY)	2001	2000	1997	1997	1996	1996	1999	1998	1996	1998	1998	1999
SUMMAR	Y STATIS	rics	FOR	2000 CAL	ENDAR YEAR	I	FOR 2001 W	ATER YEAR		WATER	YEARS 1996	5 - 2001
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI 10 PER 50 PER	MEAN I ANNUAL ANNUAL I I DAILY I DAILY M	MEAN MEAN EAN AY MINIMUN FAGE EEDS EEDS	1	-30299. -83. 7100 -5360 -3010 2460 52 -2850			-7701.8 -21.1 7100 -4890 -3010 2.0 2440 100 -2760			-37. 211 -247 9420 -7260 -4530 2. 2500 117 -2920	Sep Mar Mar	1996 1997 8 1996 12 1996 8 1996 17 1999

e Estimated

COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET

02248380 HAULOVER CANAL NEAR MIMS, FL

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: April 1998 to current year. WATER TEMPERATURE: April 1998 to current year.

 ${\tt INSTRUMENTATION.--Water-quality\ monitor.}$

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD.-- SPECIFIC CONDUCTANCE: Maximum daily mean, 63,500 μ S/cm @ 25 °C, June 9, 2001; minimum daily mean, 30,400 μ S/cm @ 25 °C,

WATER TEMPERATURE: Maximum daily mean, 32.3 °C, July 31, 1999; minimum daily mean, 8.9 °C, Jan. 5, 2001.

REPUIS FOR CONDUCTANCE: Maximum daily mean, 63,500 μS/cm @ 25 °C, June 9; minimum daily mean, 42,500 μS/cm @ 25 °C, Sept. 25. WATER TEMPERATURE: Maximum daily mean, 31.4 °C, June 21; minimum daily mean, 8.9 °C, Jan. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), 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 3 4 5	55700 55800 55700 52800 53000	54900 54900 55000 55100 55400	56600 56100 55400 55500 55500	57700 57300 56800 57000 57600	 	56800 56800 57000 57000 57900	53300 53500 53700 53900 54100	57600 57600 57200 56900 57100	62700 62800 63000 62900 62300	59600 59900 60000 60400 59900	54500 53900 52200 51800 51800	52700 52600 53300 52800 53700
6 7 8 9 10	52400 52700 54000 	55200 55600 55700 55700 55800	55900 55700 55900 56300 56000	57700 57600 57500 57200 57100	 	 	54300 54400 54900 55200 55600	57000 57000 57000 57000 57100	62700 63100 63300 63500 63300	59000 58800 58400 56300 55600	51500 52000 52400 52000 52600	53100 53600 53300 51800 50600
11 12 13 14 15	 55300 55400 55200	55900 56000 56000 56200 56300	56000 56000 55900 55700 55700	56400 57200 56100 56200 55700	 55100 55900	 	55800 55800 56000 55900 55900	57700 58200 58900 	62200 61900 62100 61800 60900	56600 56500 56400 57200 56200	51900 50500 49900 50800 50000	49800 48600 48100 47200 47300
16 17 18 19 20	55300 55200 55100 55000 54900	56800 56900 56900 56800 56300	55900 56300 57100 57100 57700	56000 56200 56300 56700 56600	56100 56400 56100 55600 55800	 	55900 56100 56000 55900 56000	 60600 60800 61200	60100 59700 60500 60600 61000	56600 56800 56800 56400 55600	50100 49900 49900 50500 49500	49400 48700 48100 47400 45900
21 22 23 24 25	54900 55300 55200 54800 54400	 56400 56900 57000	57800 57200 56800 56200 56500	57000 56200 55900 55600 55400	56500 56800 56300 56300 56200	54900 55900 55300 55000 55500	56800 57300 57800 57900 58000	61500 61400 61200 61300 61500	61300 61500 61100 61000 60600	55500 55400 54100 52700 53000	51100 50600 51300 52100 51800	45700 45800 46800 44600 42500
26 27 28 29 30 31	53800 54500 54400 54900 54800 54500	56600 56600 57000 56400 56200	55700 56400 56500 56200 57000 57500	55500 55800 55900 56100 56500	56400 56300 56400 	55300 53800 54100 54700 54200 54000	57200 56900 56900 57600 58000	61600 61800 62000 62100 62300 62500	60900 60300 59300 59000 59600	52800 53000 53800 54000 53900 54100	53000 53900 53800 53900 53300 52200	45200 45000 45500 45800 46000
MEAN MAX MIN	54600 55800 52400	56100 57000 54900	56300 57800 55400	56600 57700 55400	56100 56800 55100	55500 57900 53800	55900 58000 53300	59600 62500 56900	61500 63500 59000	56300 60400 52700	51800 54500 49500	48700 53700 42500

CAL YR 2000 MEAN 53900 MAX 61500 MIN 42400 WTR YR 2001 MEAN 55700 MAX 63500 MIN 42500

COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET

02248380 HAULOVER CANAL NEAR MIMS, FL--Continued

TEMPERATURE, WATER (DEG. C), 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 3 4 5	25.9 25.6 25.7 25.5 26.2	23.4 23.2 23.1 23.1 23.4	17.3 18.1 18.0 15.9 15.7	9.6 9.4 9.2 9.1 8.9	 	24.5 24.6 24.2 23.0 20.0	22.1 20.9 21.7 22.4 22.8	21.8 23.1 22.7 22.2 23.5	28.5 27.9 28.6 29.0 29.5	29.3 29.9 30.3 30.7 29.7	29.2 27.3 26.5 27.1 27.3	30.8 30.8 30.8 30.9 30.8
6 7 8 9 10	27.4 27.8 26.5 	23.5 23.8 24.3 24.3 24.1	15.2 15.5 16.3 17.6 18.9	10.0 10.7 11.8 12.2 10.2	 	 	23.4 23.8 24.6 24.8 25.2	24.1 24.2 23.2 23.6 24.6	29.7 29.5 29.4 29.7 30.1	29.4 30.0 30.1 28.9 28.7	27.8 28.9 30.1 30.5 30.6	30.0 29.1 28.7 28.2 28.0
11 12 13 14 15	21.8 22.3 22.5	22.5 21.8 22.1 21.9 20.0	20.0 20.5 21.3 21.9 22.7	11.4 13.2 13.5 14.1 15.8	 20.9 22.1	 	25.3 26.0 26.5 27.2 27.7	24.8 25.1 25.7 	29.6 29.3 29.7 29.6 29.7	28.7 28.7 28.2 28.1 26.9	30.4 30.5 31.0 31.3 30.8	27.9 27.3 26.2 25.0 24.7
16 17 18 19 20	22.4 22.5 23.0 23.5 24.1	19.5 20.6 20.9 21.6 19.8	22.7 22.0 18.5 16.8 13.4	17.0 18.5 19.4 20.1 19.8	22.7 22.3 20.1 19.6 20.3	 	27.0 25.9 21.4 20.4 21.1	27.8 27.4 27.3	29.0 29.5 30.0 30.3 31.0	27.6 29.1 29.9 29.8 29.7	30.8 30.5 30.4 30.6 30.8	24.4 25.5 26.7 27.2 27.6
21 22 23 24 25	24.0 23.9 23.4 23.1 23.3	 14.5 15.3 17.5	11.6 11.8 13.0 14.5 15.1	15.3 14.1 12.8 12.3 12.6	20.7 21.2 21.5 21.3 22.1	19.0 17.8 18.5 19.7 20.6	21.6 22.9 23.7 24.5 24.6	27.6 28.0 28.0 27.6 27.4	31.4 30.6 28.8 28.3 28.1	29.6 28.5 27.5 27.3 28.6	30.7 30.4 30.9 31.1 30.6	28.2 28.8 29.1 29.1 28.4
26 27 28 29 30 31	23.7 23.3 23.0 23.5 24.1 23.8	18.9 18.1 17.5 17.6 17.4	15.4 16.1 16.6 14.8 12.6 10.3	12.3 13.3 14.4 15.6 16.7	23.3 24.4 24.5 	21.2 19.8 19.1 20.2 20.5 22.0	23.4 21.7 22.2 22.6 21.6	27.8 28.5 28.4 28.2 28.6 29.3	29.1 28.6 27.6 28.3 29.1	29.2 29.3 30.3 30.9 31.1 30.2	29.7 29.4 30.0 30.4 30.5 30.8	28.0 27.5 26.8 25.3 23.8
MEAN MAX MIN	24.1 27.8 21.8	20.8 24.3 14.5	16.8 22.7 10.3	13.4 20.1 8.9	21.8 24.5 19.6	20.9 24.6 17.8	23.6 27.7 20.4	25.9 29.3 21.8	29.3 31.4 27.6	29.2 31.1 26.9	29.9 31.3 26.5	27.9 30.9 23.8

CAL YR 2000 MEAN 23.9 MAX 31.6 MIN 10.2 WTR YR 2001 MEAN 23.9 MAX 31.4 MIN 8.9

02249007 EAU GALLIE RIVER AT HEATHER GLEN CIRCLE AT MELBOURNE, FL

LOCATION.--Lat $28^{\circ}07^{\circ}36^{\circ}$, long $80^{\circ}38^{\circ}49^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.20, T.27 S., R.37 E., Brevard County, Hydrologic Unit 03080202, on right bank, 0.2 mi upstream from concrete spillway, 0.7 mi north of Sarno Road, 1.7 mi upstream from mouth, and 3.8 mi northwest of Melbourne.

DRAINAGE AREA. -- 3.8 mi².

PERIOD OF RECORD.--January 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below sea level.

REMARKS. -- Records poor.

		DISCHAR	GE, CUBIC	FEET PER		WATER YEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	21 41 115 168 86	20 20 20 20 20	4.1 3.8 3.1 2.8 2.8	3.2 3.2 3.1 2.9 2.8	3.8 4.1 3.9 4.2 2.6	2.9 2.9 2.5 2.8 3.8	27 12 7.7 6.3 5.8	3.2 2.9 4.9 3.4 2.8	8.2 4.5 3.3 3.0 2.8	6.1 5.8 5.8 7.2 16	20 42 36 58 49	5.8 5.8 5.8 5.8 9.6
6 7 8 9 10	60 48 40 31 29	19 16 15 15	2.8 2.8 3.2 3.2	2.8 3.0 3.2 3.1 2.8	2.1 2.1 2.4 2.4 2.4	4.6 3.3 3.2 3.9 5.7	5.5 5.2 5.1 4.7 4.1	2.7 5.1 3.8 2.9 2.8	3.0 3.4 5.5 3.7 4.1	22 19 14 45 42	35 34 28 26 26	9.9 56 31 18 16
11 12 13 14 15	27 25 24 21 9.9	14 13 13 16 15	3.2 3.2 3.2 3.2 3.2	2.8 3.0 2.8 2.8 2.6	2.4 2.2 2.4 2.2 1.9	5.6 3.4 2.3 3.5 3.1	3.2 3.2 3.2 3.2 4.0	2.5 2.4 2.4 2.2 2.3	14 13 6.6 8.6 9.1	33 19 17 15 16	30 29 26 31 31	14 28 55 156 60
16 17 18 19 20	8.4 8.6 9.3 9.3 9.6	14 13 11 9.0 7.6	3.2 4.0 3.3 3.4 3.2	2.4 2.4 2.5 2.5 2.3	1.8 1.8 1.7 1.5	3.3 2.3 3.6 12 6.8	4.0 2.8 2.9 2.9 2.4	2.4 2.7 2.7 1.9	8.6 7.3 9.5 6.2 5.5	13 17 81 62 62	21 17 18 17 14	31 23 18 16 15
21 22 23 24 25	30 15 11 10	6.1 5.5 5.2 5.4 5.2	3.2 3.0 2.8 2.8 2.8	2.1 2.9 2.5 2.2 2.7	1.5 1.7 2.0 15 3.0	5.4 5.2 4.3 2.8 2.8	2.4 2.4 2.6 2.8 5.3	1.8 3.9 6.4 4.3	4.9 37 19 37 18	118 104 43 30 23	16 15 12 12	13 12 11 20 39
26 27 28 29 30 31	18 11 14 21 20 20	6.8 8.3 4.9 4.6 4.4	2.9 3.2 3.4 3.6 3.2 3.2	2.8 3.3 4.1 3.0 2.8 3.2	2.8 2.8 3.0 	3.3 3.8 4.0 24 42 31	3.2 3.3 2.4 2.4 4.0	31 4.2 3.3 14 5.3 3.5	11 11 13 9.3 7.0	19 17 16 14 12 32	12 12 12 11 10 7.6	50 63 41 47 89
TOTAL MEAN MAX MIN	971.1 31.3 168 8.4	362.0 12.1 20 4.4	99.0 3.19 4.1 2.8	87.8 2.83 4.1 2.1	81.2 2.90 15 1.5	210.1 6.78 42 2.3	146.0 4.87 27 2.4	161.5 5.21 31 1.8	297.1 9.90 37 2.8	945.9 30.5 118 5.8	719.6 23.2 58 7.6	964.7 32.2 156 5.8
MEAN MAX (WY) MIN (WY)	21.8 45.0 2000 8.15 1994	12.0 33.5 1995 4.72 1996	7.52 20.6 1998 3.19 2001	8.75 24.8 1998 2.83 2001	8.44 27.6 1998 2.90 2001	10.0 19.7 1998 4.60 1994	7.31 10.6 1991 3.53 1999	6.96 14.8 1991 3.80 2000	12.0 23.6 1994 3.34 1993	15.4 30.5 2001 3.35 1993	19.3 52.5 1995 4.24 1993	23.6 41.8 1999 7.69 1993
				000 CALEN			OR 2001 WA		1000	WATER YE		
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			4203.2 11.5 168 1.4 1.7	Oct 4 Jun 4 Jun 16		5046.0 13.8 168 1.5 1.6 322 14.87 1.5 31 5.5 2.4			12.8 17.7 7.88 a501 .00 1.6 16.70 22 25 7.8 3.3	Aug Aug Feb	1998 1993 2 1995 19 1996 16 2001 2 1995	

a From rating curve extended above 298 ft^3/s

02249518 CRANE CREEK AT U.S. HIGHWAY 1 AT MELBOURNE, FL

LOCATION.--Lat $28^{\circ}04^{\circ}37^{\circ}$, long $80^{\circ}36^{\circ}09^{\circ}$, in SW_{4}^{1} sec. 2, T.28 S., R.37 E., Brevard County, Hydrologic Unit 03080202, near center of channel on downstream side of bridge, 0.25 mi above mouth and 0.6 mi southeast of the City Hall in Melbourne.

DRAINAGE AREA.--18.1 mi^2 .

PERIOD OF RECORD. -- February 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below sea level. Auxiliary water-stage recorder at site 1.4 mi upstream.

REMARKS.--Records poor. Stage and discharge affected by tides in the Indian River. Discharge computed by one-dimensional streamflow model and daily figures represent the net of larger upstream and downstream discharges.

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 2 3 4 5	20 17 136 377 114	-1.0 -6.0 -2.4 -2.6 7.3	5.4 1.6 -6.9 -1.6 6.4	2.5 .66 3.6 4.1 5.8	3.0 5.7 7.5 9.2 7.9	-4.0 -4.9 -2.8 5.7 -5.9	31 18 23 8.2 9.9	13 3.3 17 16 -1.8	e5.7 e20 e35 e25 e20	e24 e9.1 e15 e25 e30	50 105 119 499 394	30 28 26 26 31
6 7 8 9 10	76 60 44 50 43	-4.5 5.4 -2.8 -9.4 -13	-2.8 -4.4 -1.7 -3.6 -4.7	5.2 5.7 2.4 -1.9 3.7	6.7 5.9 7.6 13 7.6	71 -6.1 -1.9 .98 -8.6	8.0 4.2 5.5 5.4 3.5	-4.7 e.50 e4.7 e2.3 e1.8	e15 e10 e10 e23 e26	e46 e81 e59 e113 e205	163 118 90 73 64	52 77 63 41 36
11 12 13 14 15	33 38 27 17 14	-11 -9.0 -9.1 -12 -6.8	-3.9 -9.3 -2.2 -6.6 -4.7	7.0 13 -1.5 2.6 1.4	4.0 5.1 4.0 1.7	-5.5 -2.0 -14 -8.4 -6.2	6.3 12 2.8 -2.6 -5.9	e-1.9 e12 e18 e1.2 e30	e16 e12 e13 e12 e11	e193 e119 e103 e125 e184	63 61 53 77 190	39 99 397 868 305
16 17 18 19 20	13 6.2 7.9 2.6 18	-4.6 -8.9 -2.4 -11	-1.5 -11 -2.8 14 15	85 -1.3 1.5 -1.1 -6.0	2.5 -8.0 2.3 .64 -3.6	e-12 e60 e1.0 e.20 e80	-6.2 -9.6 -4.5 5.7 9.4	e.60 e-4.0 e-2.3 e10 e12	e27 e25 e8.6 e8.3 e10	e179 e182 e244 e389 e380	146 83 104 111 73	179 123 97 81 75
21 22 23 24 25	82 34 23 24 16	1.5 -1.9 1.9 4.4	8.6 16 14 2.5 16	-2.6 4.9 1.6 3.0 9.7	-4.4 4.9 -7.5 38 13	e.30 e.00 e-12 -6.2 -9.1	2.2 .61 .83 18 5.7	e20 e.70 e4.2 e3.5 e6.2	e13 e17 e31 e34 e21	e201 e243 e133 108 84	62 63 57 53 41	70 56 48 48 98
26 27 28 29 30 31	3.7 6.7 3.0 20 3.3 1.7	80 1.4 30 1.1 4.4	19 1.2 8.9 .10 -3.4 1.9	2.6 96 2.4 9.2 .58	-4.2 -2.0 -1.3 	-9.2 -8.9 -1.6 31 80 37	2.0 6.1 -1.3 7.0 11	e21 e19 e6.8 e11 e10 e5.9	e14 e14 e66 e87 e56	69 64 60 50 45 41	38 37 35 33 32 29	136 256 154 161 404
TOTAL MEAN MAX MIN	1310.90 42.3 377 20	-93.10 -3.10 10 -13	59.50 1.92 19 -11	88.93 2.87 13 -6.0	118.27 4.22 38 -8.0	24.77 .80 80 -14	158.06 5.27 31 -9.6	185.50 5.98 21 -4.7	685.6 22.9 87 5.7	3803.1 123 389 9.1	3116 101 499 29	4104 137 868 26
STATI	STICS OF N	MONTHLY ME	AN DATA F	OR WATER	YEARS 198	37 - 2001	, BY WATE	R YEAR (WY)			
MEAN MAX (WY) MIN (WY)	78.4 248 2000 21.3 1997	50.4 169 1988 -3.10 2001	29.5 74.4 1998 1.92 2001	31.4 67.5 1998 2.87 2001	31.6 66.0 1998 4.22 2001	37.0 89.5 1993 .80 2001	26.4 40.6 1987 5.27 2001	23.0 82.1 1987 .97 1994	35.1 74.6 1992 1.42 1998	56.6 123 2001 7.46 1999	69.2 224 1995 14.0 2000	74.5 137 2001 10.8 1996
SUMMAI	RY STATIST	rics	FOR	2000 CALE	ENDAR YEAF	٤ :	FOR 2001	WATER YEAR		WATER YE	ARS 1987	- 2001
ANNUA HIGHES LOWES' HIGHES LOWES' ANNUA MAXIM 10 PEI 50 PEI	L TOTAL L MEAN ST ANNUAL I ANNUAL I ANNUAL I TOALLY I DALLY I DALLY I DALLY I TOALLY	MEAN MEAN EAN AY MINIMUM FAGE EEDS EEDS		377 -18 -10 38 14 -3.5	Oct 4 Sep 16 Nov 9	5	13561.1 37.3 868 -14 -10 12.1 106 8.4	Sep 14 Mar 13 Nov 9 29 Sep 15		43.4 60.2 34.5 2150 *-20 -10 13.85 86 32 3.7	Apr Nov	1988 1994 2 1995 5 1995 9 2000 16 1999

e Estimated \star May have been lower during period of no gage-height record, Apr. 6-21, 1995 Note.--Negative figures indicate reverse flow

02250005 MELBOURNE-TILLMAN CANAL AT PALM BAY, FL

LOCATION.--Lat $28^{\circ}00^{\circ}46^{\circ}$, long $80^{\circ}36^{\circ}20^{\circ}$, in $SW^{1/4}_{4}$ sec.27, T.28 S., R.37 E., Brevard County, Hydrologic Unit 03080202, on left bank on downstream side of bridge on Babock Street, 1.2 mi north of Palm Bay Boulevard, 2.5 mi southwest of Palm Bay and 1.2 mi upstream from mouth.

DRAINAGE AREA. -- 100 mi², approximately.

PERIOD OF RECORD.--October 1992 to February 1996 (gage heights only), March 1996 to September 2001 (discontinued).

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is undetermined. Prior to March 1996, water-stage recorder 1 mi downstream at structure MS-1.

REMARKS.--Records fair. Summary of statistics based on incomplete record. Discharge regulated by structure MS-1, 1 mi downstream.

		DISCHA	ARGE, CUBI	C FEET PE		, WATER YI LY MEAN VA	EAR OCTOBEI	R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	86 81 122 463 406	13 7.8 1.5 -6.2 -1.0	9.2 .36 6.8 06 7.4	29 7.6 -8.5 -8.7 7.1	-3.4 -5.9 -1.9 7.1 -1.5	-7.7 -1.4 1.3 .16	11 2.1 4.3 17 24	4.0 -1.4 -4.6 29 41	15 40 34 50 45	162 163 180 153 174	481 528 640 812 1170	238 233 222 215 219
6 7 8 9 10	269 197 161 130 122	-5.5 -4.1 -9.3 7.5 -2.6	8.4 -2.3 -1.9 14 -4.7	95 -8.4 19 8.1 -3.8	7.5 10 8.2 7.4 5.9	-17 -14 -3.9 -10 -19	24 17 13 -1.6 -2.3	31 15 4.9 3.8	45 43 71 156 115	213 211 208 288 482	1120 859 708 597 542	266 309 387 387 408
11 12 13 14 15	119 112 107 92 80	-5.0 -6.5 -5.7 -22 -8.9	3.6 -4.4 9.2 10 6.3	32 -2.8 4.7 .98 4.9	8.9 6.4 4.5 -3.4 1.0	-25 -15 -30 -15 -28	2.5 4.9 .10 .43	17 17 3.5 5.4 2.7	125 249 190 162 152	635 556 516 477 573	480 445 413 384 489	417 609 860 1310 1070
16 17 18 19 20	71 63 65 57 47	93 -8.1 .65 -6.1 -4.9	6.9 -1.2 5.9 1.8 -10	.88 12 6.9 -9.3 -4.3	-8.7 -17 -7.8 -11 7.5	-26 -8.1 -17 -18 -31	-13 -20 -20 -13 -2.0	5.4 -18 -16 -10 -7.7	158 140 113 103 99	484 720 917 1030 1030	578 498 416 434 415	824 660 577 519 450
21 22 23 24 25	78 90 75 67 56	-13 -11 5.7 3.1 -11	-1.5 40 9.0 6.2	-3.5 .18 -5.1 -4.0 4.0	-1.8 .07 1.6 10	-20 -32 -18 -21 -28	-2.4 4.3 4.4 24 51	1.8 -3.6 33 55 25	97 118 113 111 113	1240 1450 1210 991 835	461 474 394 346 305	406 363 334 316 366
26 27 28 29 30 31	48 7.7 9.1 13 9.0	9.4 e2.3 e6.1 e6.4 e6.6	16 11 8.0 -12 -5.5 8.3	8.2 2.7 20 -2.8 3.7 -8.6	-8.4 1.8 -27 	-23 -8.3 -14 -13 44 34	19 -1.2 -4.6 1.7 -4.2	66 51 40 22 17 14	136 146 143 180 147	760 709 749 638 552 500	291 271 261 257 247 239	434 754 716 605 759
TOTAL MEAN MAX MIN	3315.8 107 463 7.7	-61.78 -2.06 13 -22	117.40 3.79 16 -12	101.19 3.26 32 -9.3	4.07 .15 14 -27	-393.94 -12.7 44 -32	129.43 4.31 51 -20	455.2 14.7 66 -18	3409 114 249 15	18806 607 1450 153	15555 502 1170 239	15233 508 1310 215
STATIS	TICS OF M	MONTHLY ME	EAN DATA F	OR WATER	YEARS 199	96 - 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	143 230 1997 80.1 1999	170 496 1999 -2.06 2001	169 630 1998 3.79 2001	77.0 228 1998 3.26 2001	55.6 131 1999 .15 2001	118 285 1996 -12.7 2001	75.8 121 1996 4.31 2001	74.8 174 1997 14.7 2001	181 299 1999 43.4 1998	343 607 2001 96.2 1998	298 502 2001 146 2000	276 508 2001 87.9 2000
SUMMARY STATISTICS FOR 2000 CALENDAR Y						R I	FOR 2001 W	ATER YEAR		WATER YE	EARS 1996	- 2001
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL MAXIMU 10 PER 50 PER	T ANNUAL ANNUAL M T DAILY M DAILY ME	MEAN MEAN EAN AY MINIMUN FAGE EEDS EEDS	1	20559.4 78.2 527 -22 -8.2 188 60 9	Jul 27 Nov 14 Nov 11	4	1450 -32 -25 10.84 546 13 -10	Jul 22 Mar 22 Mar 20 4 Jul 22		173 254 101 2020 -32 -25 11.14 448 104 4.3	Mar : Mar :	1998 2000 14 1997 22 2001 20 2001 30 1999

e Estimated

02250030 TURKEY CREEK AT PALM BAY, FL

LOCATION.--Lat $28^{\circ}01^{\circ}00^{\circ}$, long $80^{\circ}35^{\circ}46^{\circ}$, in $SE^{1/4}_{4}$ sec.26, T.28 S., R.37 E., Brevard County, Hydrologic Unit 03080202, near right bank on downstream side of bridge on Port Malabar Boulevard, 1.6 mi southwest of the intersection of U.S. Highway 1 and State Highway 516 in Palm Bay, and 2.0 mi upstream from mouth.

DRAINAGE AREA. -- 105 mi², approximately.

PERIOD OF RECORD.--February 1981 to September 1983, October 1983 to December 1986 (gage heights only), January 1987 to September 1988 (fragmentary), October 1988 to current year.

GAGE.--Water-stage recorder, acoustic velocity meter, and data-collection platform. Datum of gage is 5.00 ft below sea level. Prior to Oct. 1, 1986 at datum 5.00 ft higher.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Stage and discharge are affected by tides in the Indian River.

		DISCHA	RGE, CUBIC	C FEET PER		WATER Y		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	124 116 150 674 566	e65 e60 58 48 44	17 28 31 18 22	50 21 11 22 23	38 36 35 37 38	7.5 40 50 48 35	91 48 54 74 82	16 21 22 80 92	82 125 112 123 114	277 249 235 205 217	483 461 371 386 328	e195 e180 e170 e160 e165
6 7 8 9 10	380 333 292 235 215	47 18 36 69 55	20 13 7.7 18 30	17 36 54 33 27	34 36 35 35 37	21 8.3 2.7 1.6 2.6	73 59 47 22 37	83 57 53 52 63	111 113 136 237 210	291 274 258 369 670	246 209 190 469 536	e190 228 287 299 328
11 12 13 14 15	196 177 e160 e155 e145	47 46 37 41 4.6	40 26 23 27 26	30 33 32 38 37	32 30 32 20 15	1.6 5.2 49 -4.7 4.6	40 39 37 35 37	71 65 53 51 50	202 340 286 230 233	881 720 663 597 732	470 417 359 340 439	353 529 1130 1870 1430
16 17 18 19 20	e140 e135 e130 e125 e120	53 55 50 42 37	37 23 35 27 20	38 38 37 36 32	15 18 26 25 45	-1.1 -2.9 -1.4 .50 -2.9	35 22 2.0 13 53	53 26 4.0 13	215 193 157 152 162	810 802 1020 1290 1900	641 508 399 407 379	961 691 578 479 396
21 22 23 24 25	113 129 115 104 95	22 50 49 46 44	25 24 19 20 26	26 32 29 34 35	32 27 22 48 50	-2.8 .55 -6.0 -5.1 -8.2	48 40 32 63 111	15 12 105 132 107	162 160 193 223 235	1080 669 658 449 372	419 420 367 314 278	363 323 289 257 292
26 27 28 29 30 31	91 90 83 81 e75 e70	41 22 12 9.5 24	28 23 30 21 31 43	36 34 39 38 37 39	23 31 29 	-4.6 -3.2 2.3 24 120 106	38 15 16 21 19	186 149 134 102 84 81	259 229 270 304 294	625 1330 900 571 441 338	257 236 232 221 213 e200	340 785 e700 e620 e760
TOTAL MEAN MAX MIN	5614 181 674 70	1232.1 41.1 69 4.6	778.7 25.1 43 7.7	1024 33.0 54 11	881 31.5 50 15	438.06 14.1 120 -8.2	1303.0 43.4 111 2.0	2044.0 65.9 186 4.0	5862 195 340 82	19893 642 1900 205	11195 361 641 190	15348 512 1870 160
STATIST	ICS OF N	MONTHLY MEA	AN DATA FO	OR WATER Y	EARS 198	1 - 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	304 877 2000 68.2 1982	179 544 1995 41.1 2001	104 474 1998 25.1 2001	116 481 1998 33.0 2001	105 426 1998 31.5 2001	141 369 1998 14.1 2001	91.7 188 1993 13.7 1999	75.7 125 1987 32.3 2000	136 473 1994 31.0 2000	224 642 2001 50.8 1993	254 725 1995 56.9 1993	278 639 1998 78.4 1993
SUMMARY	STATIST	TICS	FOR 2	2000 CALENI	DAR YEAR	1	FOR 2001 W	ATER YEAR		WATER YE	ARS 1981	- 2001
ANNUAL ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL ANNUAL OF PERC.	MEAN ANNUAL ANNUAL DAILY DAILY DAILY PEAK STENT ENT ENT EXCE	MEAN MEAN EAN AY MINIMUM PAGE EEDS EEDS		34959.4 95.5 674 -2.1 3.6 190 68 22	Oct 4 Apr 11 Jun 13		1900 -8.2 -4.2 9.4 474 55	Jul 20 Mar 25	Sep 14	167 303 75.7 3530 -8.8 -4.2 12.29 367 97	Nov : Mar :	1998 1981 3 1995 20 1994 21 2001 2 1995

e Estimated

Note. -- Negative figures indicate reverse flow

COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET

02250030 TURKEY CREEK AT PALM BAY, FL--Continued

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

					DAIL	MEAN VAI	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.69 6.69 6.70 7.58 7.41	6.38 6.33 6.31 6.23 6.23	5.60 5.59 5.79 5.94 6.05	5.39 5.41 5.41 5.30 5.12	5.19 5.20 5.26 5.11 5.08	5.34 5.29 5.14 5.04 5.21	5.65 5.54 5.26 5.33 5.45	5.45 5.43 5.54 5.70 5.74	5.53 5.53 5.50 5.44 5.35	5.68 5.67 5.65 5.58 5.61	6.25 6.25 6.08 6.16 6.04	5.53 5.57 5.64 5.59 5.71
6 7 8 9 10	6.95 6.83 6.81 7.25 6.66	6.22 6.17 6.17 6.17 6.21	5.91 5.95 5.82 5.77 5.77	5.08 5.13 5.08 5.30 5.38	5.02 5.02 4.99 4.97 4.97	5.31 5.28 5.26 5.26 5.49	5.35 5.33 5.29 5.22 5.25	5.70 5.70 5.80 5.76 5.73	5.33 5.28 5.35 5.56 5.56	5.75 5.67 5.60 5.78 6.48	5.89 5.81 5.64 6.33 6.52	5.78 5.90 6.11 6.10 6.20
11 12 13 14 15	6.54 6.52 	6.40 6.37 6.27 6.15 6.42	5.78 5.87 5.84 5.80 5.81	5.19 5.12 5.47 5.45 5.46	5.13 5.21 5.23 5.10 4.98	5.50 5.39 5.32 5.58 5.35	5.21 5.17 5.16 5.34 5.31	5.72 5.68 5.60 5.59 5.46	5.57 5.79 5.66 5.58 5.56	7.08 6.72 6.58 6.49 6.97	6.32 6.12 5.95 5.88 6.10	6.26 6.64 7.93 8.98 8.54
16 17 18 19 20	 6.43 6.35	6.20 6.12 6.25 6.06 6.45	5.65 5.64 5.86 5.61 5.69	5.40 5.39 5.33 5.24 5.29	4.92 5.04 5.38 5.19 5.13	5.31 5.49 5.65 5.46 5.68	5.39 5.40 5.63 5.33 5.14	5.52 5.61 5.68 5.63 5.70	5.52 5.43 5.38 5.42 5.42	7.10 7.18 7.64 8.12 8.92	6.57 6.29 6.07 6.11 6.05	8.08 7.66 7.44 7.24 7.07
21 22 23 24 25	6.36 6.42 6.48 6.59 6.57	6.39 6.22 5.98 5.80 5.71	5.56 5.46 5.49 5.63 5.78	5.52 5.43 5.56 5.32 5.37	5.13 5.11 5.29 5.26 5.14	5.78 5.80 5.74 5.64 5.57	5.16 5.20 5.12 5.12 5.27	5.57 5.61 5.85 6.01 5.75	5.37 5.38 5.41 5.50 5.57	7.93 7.09 7.00 6.44 6.33	6.17 6.16 6.08 5.97 5.87	6.99 6.84 6.73 6.55 6.64
26 27 28 29 30 31	6.65 6.71 6.54 6.45 6.47 6.45	5.86 5.91 5.88 5.79 5.76	5.52 5.38 5.32 5.60 5.64 5.57	5.35 5.29 5.29 5.17 5.05 5.12	5.29 5.35 5.28 	5.64 5.69 5.51 5.33 5.55 5.64	5.55 5.32 5.18 5.20 5.27	5.84 5.71 5.68 5.55 5.55	5.60 5.61 5.73 5.78 5.72	6.96 8.32 7.46 6.66 6.27 5.93	5.95 5.82 5.71 5.67 5.57 5.52	6.74 7.43 7.38 7.26 7.73
MEAN MAX MIN	6.68 7.58 6.35	6.15 6.45 5.71	5.70 6.05 5.32	5.30 5.56 5.05	5.14 5.38 4.92	5.46 5.80 5.04	5.30 5.65 5.12	5.66 6.01 5.43	5.51 5.79 5.28	6.67 8.92 5.58	6.03 6.57 5.52	6.81 8.98 5.53

CAL YR 2000 MEAN 5.79 MAX 7.58 MIN 5.00 WTR YR 2001 MEAN 5.86 MAX 8.98 MIN 4.92

02251000 SOUTH PRONG SAINT SEBASTIAN RIVER NEAR SEBASTIAN, FL

LOCATION.--Lat $27^{\circ}46^{\circ}09^{\circ}$, long $80^{\circ}30^{\circ}22^{\circ}$, in SW^{1}_{4} , sec.23, T.31 S., R.38 E., Indian River County, Hydrologic Unit 03080203, on upstream side of bridge on State Highway 512, 2.5 mi east of Interstate Highway 95, 4 mi southwest of Sebastian, and 8.3 mi upstream from mouth.

DRAINAGE AREA. -- 35 mi², approximately.

PERIOD OF RECORD.--October 1954 to May 1965 (discharge measurements only), May 1968 to August 1972 (annual peak discharge), August 1993 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 10.00 ft below sea level. Auxiliary water-stage recorder at site 6.6 mi downstream.

 ${\tt REMARKS.--Records\ fair\ except\ those\ below\ 100\ ft^3/s\ and\ periods\ of\ estimated\ daily\ discharge,\ which\ are\ poor.}$

		DISCHARG	E, CUBIC	FEET PER		WATER YEA MEAN VAI	AR OCTOBER LUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	22	26	31	32	24	e66	26	32	102	97	50
2	101	20	27	32	32	23	e32	32	34	65	317	48
3	484	22	23	40	35	23	e22	29	53	52	749	60
4	1270	26	21	33	35	24	e35	34	69	48	810	79
5	875	26	15	31	34	27	39	37	68	47	826	70
6	529	27	17	34	32	25	41	34	61	71	884	121
7	256	29	18	34	30	19	40	27	51	118	769	146
8	210	28	19	32	30	18	38	29	46	97	609	230
9	182	24	23	28	28	17	36	26	44	108	511	227
10	153	22	27	24	29	17	32	22	41	182	414	228
11	122	13	28	27	31	18	30	16	47	269	313	186
12	107	14	27	27	32	23	31	17	42	275	307	538
13	94	19	32	24	28	22	29	21	42	242	276	842
14	86	18	34	27	28	21	29	20	41	235	243	925
15	79	11	35	28	27	20	30	19	40	534	214	793
16	71	16	35	31	26	22	27	18	47	572	196	625
17	61	18	35	35	27	22	22	12	42	235	172	516
18	59	16	34	39	28	22	23	11	37	126	150	423
19	57	16	33	38	29	18	23	11	34	418	133	295
20	53	8.5	31	40	26	21	25	9.0	37	450	116	186
21	56	5.3	32	41	27	24	25	13	38	475	102	144
22	56	8.6	33	42	28	24	25	15	41	569	112	119
23	48	18	33	43	27	21	25	22	47	535	94	114
24	37	26	32	42	27	18	24	28	56	456	73	128
25	28	30	34	38	31	21	25	31	65	304	65	118
26 27 28 29 30 31	18 16 24 31 26 24	31 32 35 30 28	34 33 33 27 25 29	37 37 36 35 31 32	28 26 25 	19 20 20 19 e60 e160	23 27 24 23 23	37 34 34 39 41 36	59 57 131 196 166	149 118 120 109 107 105	64 60 55 53 51 50	118 387 508 401 615
TOTAL	5325	639.4	885	1049	818	832	894	780.0	1764	7293	8885	9240
MEAN	172	21.3	28.5	33.8	29.2	26.8	29.8	25.2	58.8	235	287	308
MAX	1270	35	35	43	35	160	66	41	196	572	884	925
MIN	16	5.3	15	24	25	17	22	9.0	32	47	50	48
STATIST	ICS OF M	ONTHLY MEAN	DATA FO	R WATER Y	EARS 1994	- 2001,	BY WATER	YEAR (WY)				
MEAN	215	117	76.6	60.4	70.6	73.0	56.3	40.2	83.7	113	170	217
MAX	469	428	221	122	206	188	126	66.5	153	235	319	463
(WY)	2000	1995	1995	1998	1998	1998	1996	1994	1996	2001	1997	1994
MIN	33.8	21.3	28.5	33.8	29.2	19.8	27.1	23.4	18.4	33.4	45.0	38.0
(WY)	1998	2001	2001	2001	2001	1999	1999	2000	1998	1998	1996	1996
SUMMARY	STATIST	STICS FOR 2000 CALENDAR YEAR			DAR YEAR	FC	OR 2001 WA	TER YEAR		WATER YEA	RS 1994	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			20187.8 55.2 1270 5.3 8.2 100 35 19	Oct 4 Nov 21 Sep 10		38404.4 105 1270 5.3 13 1410 18.31 284 34	Oct 4 Nov 21 Nov 16 Oct 4 Oct 4		108 158 77.2 2300 4.2 8.2 2560 19.96 242 49 23	Nov 2 Sep 1 Nov 1	1995 1999 6 1994 3 1993 0 2000 6 1994 6 1994	

e Estimated

COASTAL AREA BETWEEN SEBASTIAN INLET AND ST. LUCIE RIVER

02251500 NORTH PRONG SAINT SEBASTIAN RIVER NEAR MICCO, FL

LOCATION.--Lat 27°51'21", long 80°31'28", in Fleming Land Grant, T.30 S., R.38 E., Brevard County, Hydrologic Unit 03080203, on right bank 15 ft downstream from bridge on Wildon Road, 1.9 mi upstream from mouth, and 2.2 mi southwest of Micco.

DRAINAGE AREA. -- 28.5 mi².

PERIOD OF RECORD.--October 1954 to October 1958 (discharge measurements only), January 1987 to current year.

REVISED RECORDS. -- WDR FL-90-1: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level.

REMARKS.--Records good except for periods of estimated daily discharge, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN MAR APR MAY JUN JUL AUG SEP 8.2 2.2 8.1 17 8.0 9.5 8.1 8.6 e276 8.8 e178 8.9 e145 8.9 e127 e105 9.7 e88 8.9 8.9 e77 9.4 7.9 8.6 15 11 12 9.2 9.2 9.9 9.1 9.8 10 473 218 9.3 8.9 9.5 8.3 8.4 8.9 7.9 32 13 9.5 9.5 7.3 6.7 8.3 22 11 523 9.5 9.4 9.6 9.3 9.2 6.9 9.0 8.3 12 8.6 8.4 9.4 6.9 6.6 8.9 6.9 ___ 8.0 TOTAL. 299.4 10.7 313 9 317 9 532 6 15.9 10.1 17.2 MEAN 11.4 10.6 MAX 7.7 MIN 8.4 7.8 6.6 4.00 .37 .60 7.59 4.56 7.33 CFSM .40 IN. 4.62 .62 .45 .46 .39 .41 .41 .70 .94 8.76 5.25 8.19 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 -2001, BY WATER YEAR (WY) 68.7 34.7 35.0 MEAN 33.0 44.2 27.6 17.8 31.7 49.0 56.7 76.2 MAX 80.2 77.8 32.8 98.1 7.11 (WV) 9.22 7.46 14.3 14.6 11.4 10.7 10.1 8.45 10.3 MIN 11.2 13.8 (WY) SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1987 - 2001 10724.8 23904.8 ANNUAL TOTAL ANNUAL MEAN 29.3 65.5 47.7 HIGHEST ANNUAL MEAN 87.2 15.6 LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Nov 16 1994 Oct Oct LOWEST DAILY MEAN e6.6 Jun 6.6 Apr 28 6.3 Jun 20,21 1989 ANNUAL SEVEN-DAY MINIMUM 7.2 Jun 6.8 Apr 23 6.5 May 19 1990 MAXIMUM PEAK FLOW Nov 14 1997 Oct MAXIMUM PEAK STAGE 9.21 Oct 10.24 Nov 14 1997 INSTANTANEOUS LOW FLOW 6.2 Apr 23 3.8 Apr 1 1994 ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 1.67 1.03 2.30 14.00 31.20 22.73 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 9 1

e Estimated

02251767 FELLSMERE CANAL NEAR MICCO, FL

LOCATION.--Lat 27°49'49", long 80°32'04", in Fleming Land Grant, T.29 S., R.38 E., Brevard County, Hydrologic Unit 03080203, on left bank 156 ft upstream from fixed crest steel sheet pile weir, 500 ft upstream from Canal 54, 4.5 mi south of Micco, and 6 mi northeast of Fellsmere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- November 1991 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (levels by St. Johns River Water Management District).

REMARKS.--Records fair.

		DISCHARGE	, CUBIC	FEET PER		WATER YEAR MEAN VALU		2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	55	42	38	58	41	90	102	40	60	98	81
2	115	59	36	40	56	45	71	62	70	35	191	79
3	226	56	36	36	46	47	40	48	59	22	488	80
4	750	56	35	36	46	54	44	63	118	16	772	76
5	529	54	36	31	44	59	37	61	94	18	749	68
6	297	51	37	31	36	53	36	54	42	27	500	60
7	202	53	42	31	39	51	31	42	30	26	531	128
8	130	58	40	32	49	47	32	57	34	28	292	357
9	154	52	36	30	66	47	32	45	24	94	171	232
10	104	51	33	31	55	45	31	41	18	214	139	286
11	98	47	31	42	51	48	33	38	39	196	152	196
12	87	45	36	40	54	47	36	37	32	176	128	634
13	76	44	39	34	50	46	45	35	22	125	110	800
14	65	50	41	31	50	39	49	39	17	128	97	857
15	62	50	41	38	52	38	44	35	13	548	151	647
16	62	53	35	41	49	41	50	31	13	887	299	378
17	62	53	34	47	48	40	49	33	12	427	193	240
18	65	52	33	74	40	46	46	36	11	213	126	168
19	62	48	29	49	42	50	45	34	9.6	388	105	140
20	59	40	33	36	42	52	48	37	9.5	265	102	125
21	65	39	41	36	42	50	49	30	9.9	730	100	123
22	65	40	56	37	37	40	49	30	21	800	121	113
23	60	45	36	41	42	32	55	91	59	700	110	101
24	58	49	30	38	54	36	49	94	69	455	104	98
25	59	48	28	36	43	38	59	54	76	240	91	101
26 27 28 29 30 31	69 73 64 57 54 53	47 49 42 42 42	30 34 41 40 38 34	35 35 36 47 54 53	45 43 40 	43 41 43 43 121 170	52 48 48 49 65	66 64 54 152 128 62	49 38 209 222 99	165 165 275 145 117 96	89 86 84 79 83 82	102 374 413 417 706
TOTAL	4038		1133	1216	1319	1593	1412	1755	1559.0	7781	6423	8180
MEAN	130		36.5	39.2	47.1	51.4	47.1	56.6	52.0	251	207	273
MAX	750		56	74	66	170	90	152	222	887	772	857
MIN	53		28	30	36	32	31	30	9.5	16	79	60
MEAN MAX (WY) MIN (WY)	149 380 2000 33.2 1998	96.1 260 1995 38.7	61.2 147 1998 31.8 1992	60.9 112 1998 29.3 1992	57.7 150 1998 29.5 1996	73.8 193 1993 27.0 1997	60.3 102 1993 31.9 1992	47.6 62.9 1994 30.2 1995	88.5 152 1992 40.1 1998	118 251 2001 51.1 1993	129 207 2001 39.0 1993	154 273 2001 66.6 1997
SUMMARY	STATISTIC	CS	FOR 20	000 CALENI	DAR YEAR	FOI	R 2001 WAT	TER YEAR		WATER YEA	RS 1992 -	- 2001
LOWEST ANNUAL ANNUAL ANNUAL ANNUAL AND		AN AN N MINIMUM W GE W FLOW DS		28648 78.3 750 28 31 157 49 34	Oct 4 Dec 25 May 25		37879.0 104 887 9.5 11 1030 4.94 *9.0 217 50 32	Jul 16 Jun 20 Jun 15 Jul 15 Jul 15	,16	93.6 112 78.2 1780 9.5 11 1900 6.52 *9.0 173 56 31	Nov 16 Jun 20 Jun 19 Nov 16 Nov 16	0 2001 5 2001 6 1994

^{*} June 19,20,21, 2001

275017080295600 ST. SEBASTIAN RIVER NEAR RAILROAD BRIDGE AT ROSELAND, FL

LOCATION.--Lat $27^{\circ}50^{\circ}17^{\circ}$, long $80^{\circ}29^{\circ}56^{\circ}$, in Fleming Land Grant, T.30 S., R.38 E., Indian River County, Hydrologic Unit 03080203, near center of channel, 100 ft downstream from Florida East Coast Railroad bridge, 0.1 mi north of Roseland, and 1.2 mi upstream from mouth.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE (TOP, BOTTOM): May 1992 to current year. WATER TEMPERATURE (TOP, BOTTOM): May 1992 to current year.

INSTRUMENTATION .-- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 53,800 µS/cm @ 25 °C, Sept. 4, 1993; minimum daily mean, 173 µS/cm @ 25 °C, Nov. 17, 1994.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 58,400 µS/cm @ 25 °C, June 21, 1992; minimum daily mean, 340 µS/cm

WATER TEMPERATURE (TOP) : Maximum daily mean, 33.4 °C, July 8, 1997; minimum daily mean, 7.3 °C, Jan. 5, 1999.

WATER TEMPERATURE (BOTTOM): Maximum daily mean, 34.5 °C, July 25, 1998; minimum daily mean, 7.5 °C, Dec. 20, 1996, Jan. 5, 1999.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE (TOP): Maximum daily mean, 45,900 µS/cm @ 25 °C, Mar. 18; minimum daily mean, 361 µS/cm @ 25 °C,

Sept. 15.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum daily mean, 52,100 µS/cm @ 25 °C, Mar. 12, May 17; minimum daily mean, 695 µS/cm @ 25 °C, Sept. 29.

WATER TEMPERATURE (TOP): Maximum daily mean, 32.1 °C, Sept. 2; minimum daily mean, 10.5 °C, Jan. 1.

WATER TEMPERATURE (BOTTOM): Maximum daily mean, 32.5 °C, Sept. 3; minimum daily mean, 10.4 °C, Jan. 1.

				DAI	LY MEAN V	ALUES				
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG

SPECIFIC CONDUCTANCE TOP (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4450 4700 4830 1380 573	24200 20900 22600 24200 27900	22900 14600 22600 23900 25400	24100 25300 25600 23300 23400	34100 35700 38300 31100 23800	35400 36000 38800 36800 38100	8450 15400 16700 16500 18000	29200 24400 21500 19400 17900	26100 30100 30100 28100 22100	16300 20100 17500 20300 24000	4060 3060 954 762 587	25700 27500 24000 23100 25100
6 7 8 9 10	632 1060 1880 5030 2040	35900 42600 44300 42600 40300	21700 23900 23400 23800 18200	27500 31200 36400 37500 37600	25700 27400 28200 29500 26300	38300 36400 36400 37300 39400	20000 19400 19200 21200 22900	15600 15000 15500 13800 11400	23700 25300 23100 24000 26600	23600 18300 11700 	479 494 504 599 700	26300 22300 10500 9160 8710
11 12 13 14 15	2240 2830 2780 2370 3020	39700 39400 40900 40700 39300	26600 33700 38600 39400 38600	34900 32200 35400 33900 33600	26600 27200 24900 25000 26700	40800 43700 39000 40400 39400	24500 25600 24200 24600 23800	13000 15100 23100 29600 36600	25200 30800 31900	 	999 1160 1070 	6830 3420 1180 596 361
16 17 18 19 20	4300 10000 12000 14800 21200	40400 39700 41000 37800 38400	38200 33600 34600 35900 35800	30700 31300 30300 34200 33800	29700 32500 40900 39600 33400	40100 42200 45900 42400 31700	23700 23700 35200 36500	33200 38400 40600 40700 41200	29000 31300 31300 29300 26900	 921		569 682 2300 10600 17000
21 22 23 24 25	19600 17100 17100 15500 12300	32600 31100 29100 32000 30600	33200 32000 33800 33900 30700	35400 32700 33300 26100 27600	32500 31900 33900 37600 37000	28900 28500 29000 28800 26500	37100 36500 32500 30100 26800	43500 43500 36900 36700 31700	25300 27000 29300 28100 22500	811 535 504 576 884	 6410 5060 6020	18200 11300 7000 12600 22800
26 27 28 29 30 31	9400 17000 20900 33400 33700 25200	29500 23800 26700 24600 23600	29300 25000 24400 28100 25900 29500	29400 29000 32700 35700 32800 34000	30800 32300 32200 	26900 28000 26400 25100 18700 13800	35700 34700 30200 31500 30900	28000 30300 32100 30600 25000 24700	20700 19800 12000 6670 11000	1140 1730 1610 990 1190 2330	10500 8650 6930 9030 14100 22200	16000 6300 2320 1320 840
MEAN MAX MIN	10400 33700 573	33500 44300 20900	29100 39400 14600	31300 37600 23300	31200 40900 23800	34200 45900 13800	25700 37100 8450	27700 43500 11400	24900 31900 6670	8250 24000 504	4740 22200 479	11500 27500 361

CAL YR 2000 MEAN 28800 MAX 44700 MIN 573 WTR YR 2001 MEAN 23500 MAX 45900 MIN 361

COASTAL AREA BETWEEN SEBASTIAN INLET AND ST. LUCIE RIVER 241

275017080295600 ST. SEBASTIAN RIVER NEAR RAILROAD BRIDGE AT ROSELAND, FL--Continued

SPECIFIC CONDUCTANCE BOTTOM (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

				•	DAIL	Y MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7520	43100	24600	23400	42100	48400		30300	38800			39400
2	28700	41900	26800	24500	40200	48500		28000	42300			38500
3	22200	39800	29000	24900	38200	46300	21200	24000	39600			38000
4		41500	29600	22500	34000	43500	24400	20000	36300			38400
5		43400	29500	22700	30100	39800		18200	34300			42700
		13100	2,500		30100	33000		10200	31300			
6		46500	28500	26800	35100	42900		15700	36100			40800
7		51200	28300	30500	36800	43100		15400	37800			40200
8	1520	51400	32900	35700	33300	43700		16200	36100			24600
9	4100	50000	32600	38100	37200	46700		15700	38200			20000
10	916	50400	39700		40000	44100		26900	35600			19400
11	1150	48300	46200		34400	49100	17600	40100	33900			20700
12	1790	45600	48200		36300	52100	33500	44200			1330	4560
13	2010	46800	47000		32400	42800	30400	47500			752	
14	6240	47200	38900		36900	45100	25100	47400	39600			
15	15900	46000	38100		36800	45600		49200	38600			
16	33700	47300	38100	41200	42800	46600		50400	36800			
17	38600	46400	33300	42400	40500	45500	31000	52100	35300			
18	39000	41500	33900	46300	40200	45700		51200	37400			
19	41100	42400	35100	45300	40300	46300	39600	49400	31900			26700
20	42900	41600	34900	40500	42900	48300	39100	50900	31100			32700
20			31300	10500	12,00	10500						
21	37500	36500	32500	40500	41900	50400	37800	48700	23700			29500
22	21000	34000	31300		43600	47500	37600	48100				25200
23	18200	31000	33200		38900	46100	39200	43600			8210	18200
24	17100	33800	33200		45300	45400	44000	37100			7450	26400
25	14900	34800	30100		46000		41900	37700			17900	33200
0.6	31200	20000	28700		42000	02000	20200	41500			00000	23100
26		39000 37500	24300	43200	43900	23000 23200	39300 35700				20200 14900	
27	44100				44000			43900				9790
28	48800	32900	23700	46100	44000	19200	33900	43900			19200	1810
29	51100	23900	27300	46600		21100	31600	39600			22400	695
30	48400	22900	25200	40400		30600	30600	38900			29100	
31	43300		28800	44300		30300		38500			37700	
MEAN	24600	41300	32700	36300	39200	41700	33300	37200	36000		16300	25900
MAX	51100	51400	48200	46600	46000	52100	44000	52100	42300		37700	42700
MIN	916	22900	23700	22500	30100	19200	17600	15400	23700		752	695
CAL YR		MEAN 37100	MAX 527									
WTR YR	. 2001 M	MEAN 34300	MAX 521	00 MIN 6	95							

TEMPERATURE, WATER TOP (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 27 1 24.4 20 0 10 5 21 0 24 9 22 6 22.3 23.7 29 5 30 3 28 7 31 5 1 27.1 23.9 21.3 12.0 20.5 25.5 21.5 29.0 30.1 26.5 32.1 3 26.0 23.7 19.3 12.4 18.2 25.3 23.5 23.2 29.5 30.3 25.4 31.9 4 25.2 24.4 17.8 11.8 19.4 23.7 23.4 23.3 30.5 29.0 25.8 31.4 5 21.0 30.8 27.5 6 27.5 25.1 17.8 16.4 18.1 25.2 31.0 30.4 14.3 24.4 26.7 27.8 25.7 18.4 15.4 18.7 17.0 25.7 24.5 30.4 28.3 27.5 29.1 8 27.4 26.1 25.9 20.2 16.9 20.7 17.4 19.5 26.1 23.7 29.9 26.8 28.6 26.8 23.8 21.3 15.0 21.5 26.0 23.6 30.2 29.4 26.6 10 11.2 22.2 20.4 30.6 29.3 11 22.0 23.4 23.0 14.9 22.2 21.7 26.6 24.7 28.6 27.4 30.2 ---12 22.0 23.1 22.8 17.0 22.9 23.0 26.8 25.2 ---29.6 26.5 27.0 27.5 13 22.2 23.8 23.3 14.7 17.3 23.5 24.7 23.8 27.1 27.3 30.4 25.8 23.1 24.1 23.8 23.5 30.6 25.6 14 15 23.5 21.5 24.4 18.6 24.8 24.4 27.7 31.6 24.7 16 23.6 22.1 24.2 19.4 24.3 24.3 27.0 27.2 30.7 25.0 19.9 17 23.8 23.5 22.8 24.2 23.9 26.4 28.5 31.0 ---___ 25.9 ---23.3 23.9 22.5 ---24.3 25.2 22.8 22.4 28.2 18 19.1 31.0 26.4 22.0 21.1 22.0 27.0 19.8 30.4 19 28.1 20 25.8 21.8 14.7 18.9 22.2 22.4 23.5 27.8 30.6 26.6 ___ 27.3 21 18.0 12.1 23.1 28.9 30.8 26.2 27.7 25.3 13.6 19.4 24.0 15.8 17.0 17.3 29.2 28.3 22 24.2 16.0 13.1 23.5 18.9 24.7 30.1 26.2 ___ 28.2 20.4 21.8 30.4 23 23.6 16.6 12.4 23.3 25.5 28.9 25.5 28.4 18.9 13.1 26.2 24.3 28.4 26.8 30.6 28.4 25 23.6 20.9 17.7 13.0 24.4 22.6 26.7 28.6 28.0 28.1 30.6 29.0 29.2 26 24.0 20.6 17.4 13.7 24.5 22.0 24.8 28.2 29.6 30.0 29.0 27 24.1 20.1 17.6 18.3 15.2 25.4 21.0 23.7 28.7 28.2 29.0 27.4 29.6 30.4 26.7 25.7 21.6 23.8 28 24.2 19.3 16.5 25.6 29.7 31.1 16.4 ---30 25 0 19.5 13.7 20 5 22.5 21.3 29.4 29.5 30 6 31.8 24 4 21.9 ---31 24.3 10.9 23.5 29.9 30.0 31.2 ------------MEAN 24 6 22 3 19 0 15 7 22 2 22 0 24 9 26 6 29 9 28 4 29 1 27.7 MAX 27.8 26.1 24.4 22.0 25.6 25.5 28.4 29.9 31.6 30.6 31.8 32.1 MIN 22.0 16.0 10.9 10.5 16.4 17.0 21.3 22.3 27.4 25.5 25.4 24.4

CAL YR 2000 MEAN 24.6 MAX 31.6 MIN 10.9 WTR YR 2001 MEAN 24.1 MAX 32.1 MIN 10.5

275017080295600 ST. SEBASTIAN RIVER NEAR RAILROAD BRIDGE AT ROSELAND, FL--Continued

TEMPERATURE, WATER BOTTOM (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAID	I MEAN VAI	CHUL					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	27.2 27.4 26.8 	25.3 25.2 24.8 24.8 24.8	20.1 21.2 20.6 18.7 18.3	10.4 11.8 12.3 11.8 12.4	21.3 21.2 18.9 19.5 17.8	25.9 26.2 25.9 24.7 21.7	23.2 23.2 	22.4 24.1 23.6 23.3 23.9	30.0 29.4 29.6 30.6 31.6	 	 	31.7 32.3 32.5 32.0 31.4
6 7 8 9 10	27.4 23.9 22.1	24.9 25.5 25.8 25.7 25.1	18.5 18.7 19.9 21.2 21.7	14.3 15.3 16.8 15.9	17.4 19.1 21.0 21.7 22.4	19.2 18.3 19.1 20.2 20.6	 	24.4 24.6 23.8 23.9 25.2	32.0 31.4 30.6 30.6 31.0	 	 	31.0 30.4 28.3 27.4 27.7
11 12 13 14 15	22.0 21.9 22.1 23.0 23.5	24.6 24.2 23.8 24.0 22.6	22.3 22.6 23.1 23.8 24.3	 	22.1 22.8 23.6 25.3 25.3	21.3 22.6 23.8 23.8 24.5	26.1 26.6 26.9 27.0	25.8 26.4 27.2 28.0 28.3	30.7 30.1 30.3	 	29.2 30.3 	27.9 26.7
16 17 18 19 20	23.6 24.0 24.3 24.6 25.3	22.8 23.2 23.2 23.8 22.1	24.2 22.6 18.9 19.4 14.2	19.2 19.6 20.7 21.7	25.0 24.4 22.5 21.2 22.5	24.5 24.1 22.9 22.6 22.8	26.1 22.7 24.2	27.6 28.4 29.0 28.5 28.5	29.6 29.7 29.5 29.1 28.9	 	 	 26.9 27.5
21 22 23 24 25	25.6 24.5 23.6 23.5 23.6	18.6 16.9 17.0 18.9 20.4	13.5 15.7 17.1 17.3 17.8	 	23.8 24.2 23.9 24.6 24.7	22.1 20.8 21.8 23.0	24.3 24.9 25.9 27.1 27.3	29.1 29.3 28.7 28.5 28.8	 	 	30.6 30.8 30.8	27.9 28.2 28.3 28.9 28.9
26 27 28 29 30 31	24.0 24.4 24.5 24.7 25.0 25.2	20.9 20.9 20.4 19.7 19.5	17.4 17.6 18.3 16.2 13.5	16.1 17.3 18.4 19.8 21.0	24.8 25.8 26.1 	21.4 20.5 21.5 22.0 22.5 23.5	25.1 23.8 24.4 22.8 21.3	28.4 28.8 28.6 28.8 29.5 30.0	 	 	30.7 30.8 31.1 31.8 32.1 31.6	28.9 27.2 25.7 24.9 24.4
MEAN MAX MIN	24.4 27.4 21.9	22.6 25.8 16.9	19.0 24.3 10.6	16.4 21.7 10.4	22.6 26.1 17.4	22.5 26.2 18.3	24.9 27.3 21.3	26.9 30.0 22.4	30.3 32.0 28.9		30.9 32.1 29.2	28.6 32.5 24.4

CAL YR 2000 MEAN 24.8 MAX 31.6 MIN 10.6 WTR YR 2001 MEAN 24.0 MAX 32.5 MIN 10.4

02251800 INDIAN RIVER AT WABASSO, FL

LOCATION.--Lat $27^{\circ}45^{\circ}15^{\circ}$, long $80^{\circ}25^{\circ}40^{\circ}$, in SW_{4}^{V} sec.27, T.31 S., R.39 E., Indian River County, Hydrologic Unit 03080203, near the southwest end of bridge on State Highway 510 , and 0.5 mi east of Wabasso.

PERIOD OF RECORD. -- November 1940 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark). Prior to June 26, 1970, at site 0.9 mi northeast at same datum.

REMARKS.--Stage affected by tide. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.76 ft, Sept. 22, 1948; minimum, -1.36 ft, Jan. 20, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.89 ft, Oct. 9; minimum, -.53 ft, Feb. 16,17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
	OCTO	BER	NOVE	MBER	DECE	MBER	JANU.	ARY	FEBR	UARY	MAR	СН
1 2 3 4 5	2.20 2.16 1.78 1.50 1.92	1.49 1.48 1.20 1.01 1.37	1.74 1.60 1.67 1.55 1.53	1.13 1.04 1.11 1.05 1.03	.95 .95 1.51 1.54 1.75	.36 .42 .50 1.15 1.15	.47 .50 .63 .64	06 .08 .24 .31	.11 .32 .62 .35	20 30 .01 08 10	.53 .50 .40 .18	09 10 33 50 51
6 7 8 9 10	1.64 1.73 2.12 2.89 2.35	1.14 1.11 1.48 2.02 1.48	1.46 1.25 1.47 1.28 1.48	1.05 .84 .76 .72 .72	1.46 1.49 1.17 1.02	1.04 .76 .62 .45	.23 .42 .29 .78 1.02	36 21 27 21 .30	.38 .34 .21 .14	20 32 37 42 42	.77 .93 .87 .82 1.14	13 .16 .21 .18 .13
11 12 13 14 15	1.88 1.83 1.80 1.83 1.92	1.32 1.49 1.28 1.13	1.75 1.88 1.60 1.51 1.80	1.08 1.22 .95 .76 1.12	1.03 1.08 1.07 .93	.32 .29 .33 .24	.57 .34 1.06 1.13 .75	10 26 .17 .18	. 26 . 43 . 55 . 40 . 12	33 .00 03 36 50	 	
16 17 18 19 20	1.82 1.75 1.76 1.68 1.71	1.19 1.07 1.10 1.04 1.02	1.53 1.20 1.50 1.24 2.07	.81 .73 .93 .70	.63 .74 1.04 1.95	.03 .05 .62 .31	.54 .45 .48 .38 .23	.02 .03 .07 14 29	.06 .31 .72 .68	53 53 .13 .17 14	 	
21 22 23 24 25	1.50 1.75 1.87 2.04 2.01	1.03 1.12 1.29 1.49 1.50	2.02 1.76 1.55 1.02	1.47 1.14 .89 .36	.87 .74 .85 1.19	.37 .11 .30 .12 .70	.62 .73 1.01 .79 .81	.01 .22 .40 .18	.34 .37 .60 .58	20 17 18 05 31	.94 .97 .87 .84 .63	.60 .49 .41 .29
26 27 28 29 30 31	2.20 2.25 2.01 1.73 1.78 1.72	1.45 1.61 1.33 1.15 1.15	1.13 1.49 1.28 1.15 1.14	.43 .75 .61 .57	.84 .60 .43 .99 1.13	.26 .04 01 .27 .48	.83 .59 .49 .34 .02	.18 .07 .04 22 33 33	. 43 . 42 . 37 	12 .02 08 	.75 .83 1.01 .59 .79	.25 .40 .07 .03 12
MAX MIN	2.89 1.50	2.02 1.01	2.07 .84	1.47 .24	1.95 .43	1.15 01	1.13	.40 36	.72 .06	.17 53	1.14 .18	.60 51

COASTAL AREA BETWEEN SEBASTIAN INLET AND ST. LUCIE RIVER

02251800 INDIAN RIVER AT WABASSO, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

				,	,							
DAY	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
	APR	RIL	MA	Y	JU	NE	JUI	LY	AUG	UST	SEPTE	MBER
1 2 3 4 5	.72 .71 .50 .34	.19 .31 17 36 .02	.66 .69 .74 .88 1.01	.12 .20 .14 .28	.72 .56 .45 .35	.07 .02 .00 18 30	.54 .59 .62 .62	.04 .09 .08 .06	 	 	.54 .64 .77 .80	.01 .05 .23 .17
6 7 8 9 10	.51 .41 .36 .25	08 15 25 30 25	1.03 .88 1.12 1.17 1.05	.45 .48 .53 .47	.09 .15 .19 .33	44 42 20 19 .02	 	.20	 	 	.80 .93 1.18 .99	.35 .46 .61 .51
11 12 13 14 15	.32 .19 .16 .35	30 41 38 .00	.89 .77 .76 .69	.24 .25 .11 .25	.55 .41 .33 .29	.00 13 18 03 03	 	 	 	 	1.04 1.28 1.61 1.68 2.57	.52 .60 .77 .82
16 17 18 19 20	.65 .75 1.00 .71	.27 .21 .74 .15	.62 .81 .89 .73	.25 .43 .36 .32	.30 .30 .41 .47	09 13 10 04 02	 	 	 	 	2.67 2.39 2.23 2.04 1.95	2.04 1.79 1.49 1.32 1.33
21 22 23 24 25	.20 .18 .12 .12	24 27 34 36 24	.66 .74 1.03 1.01 1.09	.12 .17 .25 .62	.39 .47 .53 .61	12 10 12 .01 04	 	 	 	 	1.88 1.83 1.77 1.44 1.56	1.23 1.24 1.13 1.05 .94
26 27 28 29 30 31	.72 .95 .52 .36	.20 .02 17 20 05	.80 .75 .70 .65 .60	.12 .07 .10 .01 .15	.54 .62 .70 .74 .61	01 .04 .18 .20 .07	 	 	1.05 .76 .78 .54	.31 .26 .13	1.77 1.51 1.74 2.34 2.66	1.18 1.12 1.10 1.17 1.79
MAX MIN	1.00	.74 41	1.17	.62 05	.74 .09	.20 44	.68 .54	.20	1.05 .50	.31	2.67 .54	2.04

YEAR HIGH MAXIMUM 2.89 MINIMUM .02 LOW MAXIMUM 2.04 MINIMUM -.53

02252500 NORTH CANAL NEAR VERO BEACH, FL

LOCATION.--Lat $27^{\circ}41^{\circ}35^{\circ}$, long $80^{\circ}25^{\circ}46^{\circ}$, in $SW^{\frac{1}{4}}$ sec.15, T.32 S., R.39 E., Indian River County, Hydrologic Unit 03080203, on downstream side of concrete piling for sewer main, approximately 0.9 mi upstream from County Road 605, and 4.2 mi north of Vero Beach.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- November 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Feb. 27, 1952, water-stage recorder located 550 ft upstream from County Road 605 at datum 0.81 ft lower. Feb. 27, 1952 to Nov. 5, 1957, water-stage recorder located at bridge on U.S. Highway 1 at present datum. Nov. 6, 1957 to Dec. 28, 1994, water-stage located 600 ft upstream from County Road 605 at present datum. Dec. 29, 1994 to Aug. 8, 1995, water-stage recorder located on County Road 605 bridge at present datum.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Considerable pumping into canal for drainage above station. Since Sept. 7, 1954, flow regulated by control structure 1.1 mi upstream.

		DISCHARG	E, CUBIC	FEET PER		WATER YE. MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	67 71 892 1210 418	21 22 21 18 20	16 16 15 15	18 21 18 16 16	16 16 16 16	15 15 15 15 15	39 30 30 29 26	17 17 17 19 20	15 15 19 18 17	30 e32 e31 e29 e30	108 284 322 360 e313	25 25 24 25 28
6 7 8 9 10	124 73 93 90 76	23 22 21 20 19	14 13 14 14 13	16 16 15 15	16 16 16 16	16 16 16 15 15	24 21 20 19 19	19 18 18 17	15 15 16 17 e17	e31 e34 e36 e46 102	e213 e174 e107 e79 e25	31 43 134 70 65
11 12 13 14 15	66 61 54 49 45	21 22 20 17 17	13 13 13 14 14	15 15 16 15 15	16 16 16 16	15 15 15 15 15	18 18 18 17	17 17 16 16 16	e17 e17 e16 16 16	124 43 39 78 117	e43 e48 e48 e51 e42	45 257 284 522 231
16 17 18 19 20	42 39 37 35 33	18 19 19 20 20	13 13 13 13	15 16 16 16 17	16 15 16 16	15 15 15 15 16	17 17 17 17 17	16 16 16 16 15	19 18 16 14 13	62 27 23 81 32	e33 e34 e33 e34 e37	116 55 33 43 51
21 22 23 24 25	33 32 30 30 29	18 18 18 18 19	13 13 13 13 13	17 18 19 19	16 16 15 15	16 16 16 16 15	17 17 17 17 17	15 15 15 15 16	13 13 13 20 25	136 95 57 40 13	e43 e69 e38 e28 e24	52 50 54 56 49
26 27 28 29 30 31	29 29 26 24 24 22	19 19 18 17 16	13 14 14 14 14 14	17 17 17 16 16	15 15 15 	15 15 15 21 204 55	17 17 17 17 17	19 19 17 16 16 15	23 23 43 51 31	13 15 17 23 27 29	e23 e26 e29 26 26 25	49 70 109 229 213
TOTAL MEAN MAX MIN	3883 125 1210 22	580 19.3 23 16	424 13.7 16 13	512 16.5 21 15	441 15.8 16 15	708 22.8 204 15	600 20.0 39 17	518 16.7 20 15	581 19.4 51 13	1492 48.1 136 13	2745 88.5 360 23	3038 101 522 24
STATIST	CICS OF MC	NTHLY MEAN	DATA FO	R WATER Y	EARS 1951	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	60.0 220 2000 8.18 1959	30.5 133 1985 7.00 1956	19.9 71.1 1995 6.24 1962	22.4 54.3 1970 4.52 1956	24.5 100 1991 4.83 1956	28.0 136 1993 3.97 1956	19.0 65.9 1951 4.78 1963	20.7 68.3 1979 5.23 1956	39.9 226 1968 4.98 1964	33.3 118 1991 8.12 1981	39.3 119 1981 9.26 1958	55.9 280 1960 7.61 1961
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1951	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC		AN AN MINIMUM GE DS		13063 35.7 1210 13 13 48 20 14	Oct 4 Many day Dec 16	ys	15522 42.5 1210 13 13 11.94 70 18	Oct 4 Many da Dec 16 Oct 4	ys	32.8 57.7 13.1 1580 .60 2.3 11.94 61 17	Jun : May :	1991 1961 24 1960 27 1967 13 1981 4 2000

e Estimated

02253000 MAIN CANAL AT VERO BEACH, FL

LOCATION.--Lat $27^{\circ}38^{\circ}54^{\circ}$, long $80^{\circ}24^{\circ}10^{\circ}$, in $SE^{\frac{1}{4}}$ sec.35, T.32 S., R.39 E., Indian River County, Hydrologic Unit 03080203, on right bank 8 ft upstream from dam, 700 ft upstream from U.S. Highway 1, and 0.6 mi northwest of Vero Beach.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--January 1949 to current year. Monthly discharge only for some periods, published in WSP 1724.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is at sea level. Prior to Mar. 20, 1952, at datum 0.74 ft lower. Mar. 20, 1952 to Sept. 30, 1956, at datum 0.02 ft lower.

REMARKS.--Records good except for period of estimated daily discharge, which is poor. Considerable pumping into canal for drainage upstream from station. Since Aug. 6, 1954, flow regulated by control structure 1.5 mi upstream.

		DISCHAF	RGE, CUBIC	C FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBI	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e41 e44 e320 e700 e310	23 25 22 23 26	20 16 16 17 13	34 36 31 25 24	16 17 14 18 20	10 14 14 13 12	119 38 43 42 39	20 21 40 59 56	28 28 26 26 25	46 41 38 36 36	163 287 393 367 520	39 41 43 50 46
6 7 8 9 10	e170 e80 e52 e50 e67	26 26 25 21 23	15 25 25 23 25	23 22 21 19 13	18 17 17 17 16	6.2 5.8 11 15	36 31 29 28 27	46 37 31 29 25	25 26 31 30 28	41 45 45 54 128	358 316 191 91 6.1	52 151 298 288 196
11 12 13 14 15	63 58 55 51 46	26 24 22 14 16	25 22 25 31 29	20 23 22 21 19	16 16 16 14 13	11 9.5 13 18 17	23 20 21 23 25	21 19 18 17 11	28 28 26 24 25	374 258 235 371 344	27 44 47 47 47	131 312 343 585 407
16 17 18 19 20	43 41 38 34 34	21 21 22 24 21	30 26 23 21 13	19 19 19 19	12 17 19 17 15	14 8.9 12 19 25	24 25 22 20 22	10 15 15 16 15	38 32 27 25 24	228 77 50 524 276	47 47 47 45 43	217 116 11 33 55
21 22 23 24 25	34 34 32 31 31	20 22 24 23 25	17 25 28 27 25	21 28 28 e26 e20	12 14 20 18 16	21 18 18 17 17	23 23 21 19 18	14 10 19 34 38	24 26 28 32 39	246 217 169 149 115	83 e330 e84 e39 e27	60 58 59 63 63
26 27 28 29 30 31	30 31 30 29 27 21	25 26 23 21 21	24 26 28 24 16 20	23 22 21 21 20 19	16 14 13 	15 13 12 22 271 194	19 19 19 19 18	52 52 43 38 34 32	38 37 70 43 42	47 4.4 18 34 43 46	e25 e33 39 38 37 37	71 185 322 186 265
TOTAL MEAN MAX MIN	2627 84.7 700 21	681 22.7 26 14	700 22.6 31 13	696 22.5 36 13	448 16.0 20 12	879.4 28.4 271 5.8	855 28.5 119 18	887 28.6 59 10	929 31.0 70 24	4335.4 140 524 4.4	3905.1 126 520 6.1	4746 158 585 11
STATIST	TICS OF MC	ONTHLY MEA	AN DATA FO	OR WATER Y	EARS 194	9 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	110 274 1967 23.4 1998	67.1 258 1985 5.69 1956	47.1 110 1995 5.39 1956	52.4 117 1970 21.3 1990	58.4 206 1983 16.0 2001	64.9 247 1993 20.7 1990	47.1 106 1960 16.3 1990	54.1 179 1979 9.14 2000	92.3 437 1968 24.4 2000	84.4 249 1968 14.7 1997	93.9 252 1981 28.9 1980	118 440 1960 31.3 1996
SUMMARY	Y STATISTI	ICS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	YEARS 1949	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			730 2.1 6.6 63 26 11	Sep 28 Apr 16 May 31	,17	21688.9 59.4 e700 4.4 10 11.52 169 26 15	Oct 4 Jul 27 Mar 6 Sep 14		74.2 137 41.8 1830	Sep : 00 Some Jan	1960 1950 25 1963 e years 2 1990 24 1963	

e Estimated

02253500 SOUTH CANAL NEAR VERO BEACH, FL

LOCATION.--Lat $27^{\circ}36'11"$, long $80^{\circ}23'24"$, in $SW^{1/4}_{4}$ sec.13, T.33 S., R.39 E., Indian River County, Hydrologic Unit 03080203, on right bank 1,000 ft upstream from bridge on State Highway 605, and 2.5 mi south of Vero Beach.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Feb. 28, 1952, at downstream side of bridge 1,000 ft downstream at datum 1.26 ft lower. Feb. 28, 1952 to Nov. 6, 1957, 20 ft upstream from bridge at datum 0.46 ft lower. Since Oct. 1, 1997 water-stage recorder for Indian River at Wabasso (02251800) used as auxiliary gage for this station.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Considerable pumping into canal for drainage above station. Since Jan. 6, 1956, flow regulated by control structure upstream.

	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 2 3 4 5	31 49 519 e1250 e420	e14 e9.8 e13 e18 e21	e20 e18 e12 e7.0 e9.0	40 43 33 29 34	e9.2 e11 e12 e15 e9.5	e15 e10 e8.8 e12 e18	31 26 33 33 28	16 16 37 50 38	16 16 17 18 17	27 22 19 16 13	141 267 255 149 156	23 21 20 19 19	
6 7 8 9 10	e200 e120 e79 e61 e46	e26 e24 e18 e17 e13	17 19 32 36 37	35 31 31 22 15		e12 e5.8 e4.5 e3.2 e3.6	28 27 26 22 21	29 23 17 16 15	18 17 18 19 20	11 11 11 21 163	96 83 47 17 16	32 209 308 292 217	
11 12 13 14 15	e41 39 38 36 26	e9.2 e12 e17 e10 e19	40 31 35 46 43	24 28 16 16 16	e12 e21 e15 e12 e12	e4.2 e8.2 e7.4 e6.0 e4.9	19 19 19 20 19	15 14 14 14 14	20 20 19 18 19	379 234 190 287 219	18 23 24 22 22	104 157 175 453 182	
16 17 18 19 20	31 31 29 30 e31	e24 e19 e16 e15 e10	53 46 21 28 25	19 18 18 19 20	e9.4 e13 e16 e18 e14	e6.0 e6.5 e8.0 e3.2 e4.3	14 12 5.4 13 e19	13 9.1 8.6 11	26 23 19 16 16	116 42 18 16 15	21 21 18 17 16	63 24 8.2 11 16	
21 22 23 24 25	e32 e23 e18 e15 e12	e7.2 e9.2 e13 e17 e23	30 37 34 28 14	17 17 13 15 e9.8	e18 e24 e24 e23 e33	6.7	e26 e32 e18 e28 e19	12 11 19 19 26	16 17 19 20 24	110 102 71 51 14	129 404 66 24 22	18 17 16 20 19	
26 27 28 29 30 31	e11 e12 e20 e26 e20 e18	e29 e33 e29 e26 e25	31 40 42 25 17 25	e8.8 e8.5 e8.3 e8.0 e7.7 e7.5	e22 e19 e17 	7.5 7.1 9.0 29 236 51	13 14 17 19 18	40 34 28 25 22	23 21 314 143 28	13 12 12 17 20 20	25 25 23 22 23 23	21 25 7.7 89 127	
TOTAL MEAN MAX MIN	3314 107 1250 11	536.4 17.9 33 7.2	898.0 29.0 53 7.0	627.6 20.2 43 7.5	412.8 14.7 33 5.2	526.7 17.0 236 3.2	638.4 21.3 33 5.4	635.7 20.5 50 8.6	997 33.2 314 16	2272 73.3 379 11	2215 71.5 404 16	2712.9 90.4 453 7.7	
STATIST	CICS OF M	ONTHLY ME.	AN DATA FO	OR WATER Y	EARS 1951	- 2001,	BY WATER	YEAR (WY)					
MEAN MAX (WY) MIN (WY)	70.4 200 1984 6.01 1982	36.2 177 1985 7.18 1962	22.9 91.2 1995 5.43 1963	25.2 74.5 1993 4.21 1962	25.5 90.6 1966 4.52 1962	30.5 138 1993 4.90 1956	21.8 86.8 1951 4.87 1956	27.9 118 1979 5.23 1956	53.8 267 1992 4.93 1956	41.4 143 1968 8.29 1977	50.5 208 1981 5.00 1956	68.5 280 1960 7.85 1961	
SUMMARY	STATIST	ICS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1951	- 2001	
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC	MEAN ANNUAL ANNUAL M DAILY M DAILY ME	EAN EAN AN Y MINIMUM AGE EDS EDS		11233.4 30.7 e1250 2.1 5.8 44 17 8.9	Oct 4 Jan 14 Sep 10		15786.5 43.3 e1250 e3.2 e5.3 9.41 85 19 8.8	Oct 4 Mar 9, Mar 7 Oct 3		39.6 61.6 15.2 1780 .54 1.1 all.80 82 17 6.4	May May	1960 1962 4 1979 18 1978 21 1978 16 1999	

e Estimated

a Observed

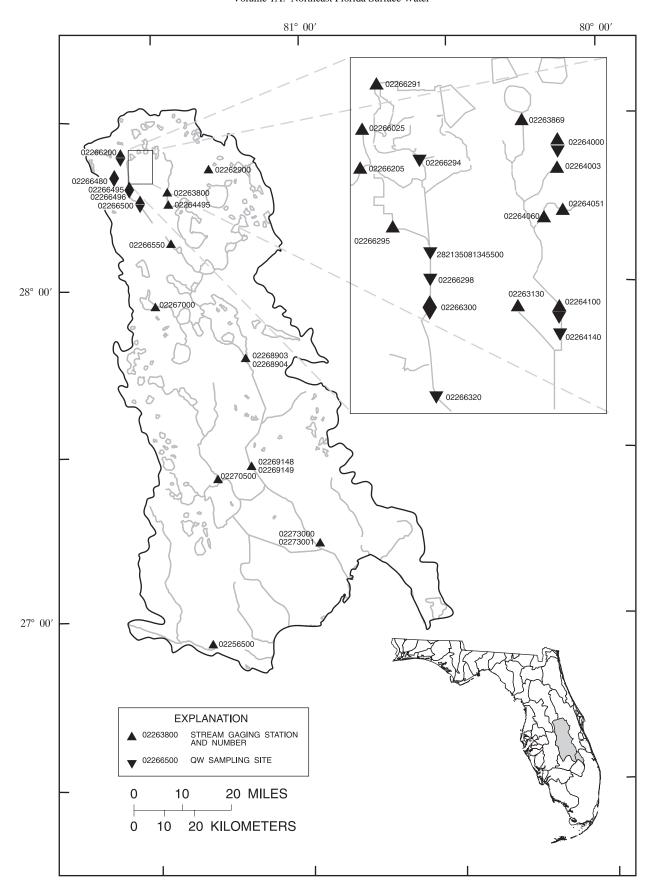


Figure 8.--Location of stream gaging stations in the Kissimmee River basin, the Taylor Creek basin and inflow to Lake Okeechobee from the north, and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

02256500 FISHEATING CREEK AT PALMDALE, FL

LOCATION.--Lat $26^{\circ}55^{\circ}56^{\circ}$, long $81^{\circ}18^{\circ}54^{\circ}$ in $SW^{\frac{1}{2}}_{4}$ sec.3, T.41 S., R.30 E., Glades County, Hydrologic Unit 03090103, near right bank on downstream side of southbound bridge on U.S. Highway 27, 1.0 mi south of Palmdale, and 16 mi upstream from Lake Okeechobee.

DRAINAGE AREA. -- 311 mi².

PERIOD OF RECORD. -- April 1931 to current year.

REVISED RECORDS.--WRD FL-66-2: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 27.19 ft above sea level. Prior to Mar. 16, 1949, nonrecording gage and Mar. 16, 1949, to Jan. 23, 1956, water-stage recorder, at site 450 ft upstream at same datum.

REMARKS. -- Records fair.

		DISCHAF	RGE, CUBIO	C FEET PE		VATER YI MEAN VA	EAR OCTOBER ALUES	2000 TO) SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	242 207 180 182 195	12 11 10 9.5 8.7	.70 .64 .51 .39	.10 .13 .16 .14	.99 .90 .82 .81	.00	.00 .07 .11 .03	.00 .00 .00 .00	.00 .00 .00 .00	26 28 29 31 31	1600 1510 1480 1480 1640	342 292 241 208 185
6 7 8 9 10	216 182 146 112 87	8.1 7.3 6.8 6.2 5.6	.30 .30 .30 .29 .28	.12 .10 .12 .31	.88 .80 .81 .80	.00 .00 .00 .00	.00 .35 .99 1.5	.00 .00 .00 .00	.00 .00 .00 .00	29 27 26 28 31	1820 1860 1730 1570 1420	212 364 641 774 1270
11 12 13 14 15	73 65 60 55 49	5.2 4.6 4.2 3.8 3.5	.40 .51 .50 .49	.34 .52 .99 1.5 2.1	.70 .61 .56 .48 .42	.00 .00 .00 .00	2.0 2.1 2.0 1.8 1.5	.00 .00 .00 .00	.00 .00 .00 .00	36 44 56 82 373	1400 1280 1100 964 859	2170 2270 2800 3110 4190
16 17 18 19 20	43 37 31 27 24	3.2 2.9 2.7 2.5 2.2	.39 .28 .11 .05	2.6 3.1 3.4 3.4 3.4	.38 .26 .06 .00	.00 .00 .00 .00	1.1 .72 .33 .02 .00	.00 .00 .00 .00	.00 .00 .00 .00	814 1030 1140 1080 1260	771 774 824 808 1080	5150 4380 3320 2530 2050
21 22 23 24 25	21 20 19 18 17	2.0 1.7 1.5 1.4	.00 .00 .00 .00	3.2 3.2 3.1 2.8 2.5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.49 1.5 2.4 5.7	1180 1040 1030 1280 3430	983 1380 1800 1600 1280	1740 1520 1380 1260 1160
26 27 28 29 30 31	17 16 15 15 14 13	1.3 1.3 1.1 1.0 .90	.00 .00 .00 .07 .11	2.2 2.0 1.7 1.5 1.3	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	18 23 27 28 26	3750 3020 2510 2180 1950 1710	996 790 642 536 455 387	1100 1040 955 896 819
TOTAL MEAN MAX MIN MED CFSM IN.	2398 77.4 242 13 43 .25	133.50 4.45 12 .90 3.3 .01	.24	47.49 1.53 3.4 .10 1.5 .00	11.94 .43 .99 .00 .45 .00	.000	16.42 .55 2.1 .00 .02 .00	0.00 .000 .00 .00 .00	143.09 4.77 28 .00 .00 .02	29281 945 3750 26 814 3.04 3.50	36819 1188 1860 387 1280 3.82 4.40	48369 1612 5150 185 1210 5.18 5.79
STATIST	TICS OF M	MONTHLY MEA	N DATA FO	OR WATER Y	YEARS 1931	- 2001	, BY WATER	YEAR (W	()			
MEAN MAX (WY) MIN (WY)	508 3822 1952 8.05 1973	121 750 1988 1.11 1962	64.5 770 1998 .24 2001	90.6 939 1998 .26 1992	120 1596 1998 .082 1962	161 1234 1970 .000 1956	54.3 505 1941 .000 1935	19.5 362 1958 .000 1935	238 1995 1982 .000 1935	402 2525 1974 .000 1935	471 1475 1953 .34 1950	758 3253 1947 16.1 1996
SUMMARY	STATIST	rics	FOR 2	2000 CALE	NDAR YEAR	I	FOR 2001 WA	TER YEAF	2	WATER YE	ARS 1931	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN ANNUAL ANNUAL 10 PERC 50 PERC	MEAN CANNUAL ANNUAL N CDAILY N	MEAN MEAN EAN AY MINIMUM LOW (CFSM) (INCHES) EEDS		.00	Sep 29 0 Many day 0 Apr 5 74	/S	117226.92 321 5150 .00 .00 5290 8.01 1.03 14.02 1280 1.3 .00	Many o	lays) 5	253 671 13.6 30500 .00 *31400 12.44 .81 11.06 702 40	Mos Mos Oct Oct	3 1951

^{*} From rating curve extended above 21,000 ft^3/s

02262900 BOGGY CREEK NEAR TAFT, FL

LOCATION.--Lat $28^{\circ}22^{\circ}16^{\circ}$, long $81^{\circ}18^{\circ}39^{\circ}$, in NE_{4}^{1} sec.28, T.24 S., R.30 E., Orange County, Hydrologic Unit 03090101, on left bank 450 ft downstream from Boggy Creek Swamp, 0.2 mi upstream from bridge on Central Florida Greenway, 3.5 mi upstream from mouth, and 5.5 mi southeast of Taft.

DRAINAGE AREA. -- 83.6 mi².

PERIOD OF RECORD. -- September 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 56.08 ft above sea level (U.S. Army Corps of Engineers bench mark). Nonrecording gage, Feb. 18, 1991 to Jan. 22, 1993. Auxiliary water-stage recorder on the south side of East Lake Tohopekaliga since Oct. 1, 1973, and prior to July 19, 1968. From July 19, 1968, to Sept. 30, 1973, auxiliary water-stage recorder at St. Cloud Canal

REMARKS.--Records good. Some diversion to ground water through drainage wells in lakes upstream from station.

		DISCHAR	GE, CUBI	C FEET PER	SECOND,	WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	69 58 51 53 49	14 15 20 19 17	16 15 14 14 13	11 9.9 9.7 9.1 9.2	5.0 5.7 7.4 8.2 8.3	3.8 3.7 3.5 5.7 8.4	77 48 38 36 35	16 16 17 19	40 56 63 95 72	68 59 52 47 44	390 626 600 523 423	32 34 60 99
6 7 8 9 10	47 43 36 32 28	16 15 14 13	13 16 16 14 13	9.4 9.2 10 13	7.9 7.6 7.4 7.2 7.1	6.3 6.1 5.9 5.5 5.1	43 37 31 26 22	17 15 16 14 12	53 45 48 65 56	44 43 48 111 185	338 269 204 161 139	107 237 323 387 359
11 12 13 14 15	27 33 31 27 24	13 12 12 12 12	12 15 18 17 16	11 10 9.6 9.4 9.3	6.8 6.7 6.5 6.4 6.1	4.9 5.5 8.3 8.9 8.8	19 17 16 15 14	11 10 9.5 9.0 8.6	46 35 29 25 23	164 127 106 341 1380	135 133 124 126 141	369 458 504 926 1150
16 17 18 19 20	22 20 19 19 18	11 10 10 11 12	15 14 13 12 12	9.1 8.4 8.2 8.1 9.9	5.8 5.6 5.4 5.2 4.8	8.1 7.3 6.8 7.6	12 11 9.8 9.1 8.5	8.2 7.6 7.1 6.4 5.8	22 26 28 42 90	1240 926 1090 1790 1440	163 146 124 110 96	927 728 587 469 357
21 22 23 24 25	18 18 17 16 15	11 10 10 10	11 11 11 11 11	9.4 8.6 7.7 7.3 6.8	4.6 4.4 4.3 4.4 4.3	14 17 14 13	8.2 7.7 7.3 6.9 6.7	5.1 5.9 9.8 8.4 9.4	115 180 235 248 234	1150 922 709 500 527	83 71 61 55 51	289 298 352 348 323
26 27 28 29 30 31	15 15 15 14 14	15 20 18 17 17	11 10 12 14 12	6.1 5.6 5.2 5.0 5.0 4.9	4.1 4.0 3.9 	9.6 8.5 7.5 15 61 107	26 29 27 21 18	22 43 40 38 39 31	170 134 112 95 82	952 779 576 401 290 230	50 46 42 39 35 33	280 250 223 196 172
TOTAL MEAN MAX MIN CFSM IN.	877 28.3 69 14 .34	408 13.6 20 10 .16	413 13.3 18 10 .16	266.1 8.58 13 4.9 .10	165.1 5.90 8.3 3.9 .07	408.8 13.2 107 3.5 .16	682.2 22.7 77 6.7 .27 .30	493.8 15.9 43 5.1 .19	2564 85.5 248 22 1.02 1.14	16341 527 1790 43 6.31 7.27	5537 179 626 33 2.14 2.46	10935 364 1150 32 4.36 4.87
STATIST	CICS OF MC	NTHLY MEA	N DATA F	OR WATER Y	EARS 1959	9 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	63.8 257 1993 3.84 1971	39.9 305 1995 3.12 1971	35.5 386 1998 2.60 1971	40.6 185 1998 3.50 1971	47.7 299 1998 4.30 1985	56.6 484 1960 3.75 1975	35.7 180 1987 1.61 1975	15.7 143 1991 .38 2000	47.8 264 1968 3.19 1971	89.9 527 2001 5.81 1969	96.1 298 1967 5.96 1980	115 467 1960 7.34 1970
SUMMARY	STATISTI	CS.	FOR :	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1959	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC 50 PERC	MEAN 'ANNUAL M ANNUAL ME 'DAILY ME DAILY MEA	CAN CAN LAN LAN LAN LAN LAN LAN LAN LAN LAN L		.00	Sep 25 Many da May 1		3.5 3.9 1900	Jul 19 Mar 3		56.8 135 15.4 3400 *.00 .00 a3680 13.64 .68 9.24 134 25 4.9	May Mar 1 Mar 1	1960 1977 17 1960 1 2000 18 1960 18 1960

^{*} Many days 1981, 1985, 2000 water years a From floodmarks $\,$

02263130 C-2 CANAL NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}19^{\circ}54^{\circ}$, long $81^{\circ}32^{\circ}28^{\circ}$, in NW^{1}_{4} sec.8, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on downstream side of culverts on Exit Ramp 25A, 0.45 mi east of Ramp entrance from eastbound lane of Interstate Highway 4 to eastbound lane of U.S. Highway 192, 1.5 mi west of Bonnet Creek, and 4.5 mi south of Vineland.

DRAINAGE AREA. -- 1.28 mi².

PERIOD OF RECORD. -- September 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS. -- Records fair.

		DISCHAR	GE, CUBIC	FEET PER	SECOND, DAILY	WATER YEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.55 .53 .57 .61	.20 .18 .15 .13	.12 .10 .10 .12 .12	.13 .14 .15 .14	.13 .14 .14 .15	.03 .02 .01 .38 .15	.37 .33 .30 .29	.02 .01 .06 .06	.15 .05 .10 .05 .03	.21 .19 .19 .20 .70	2.5 1.9 1.8 5.1 2.4	1.4 1.4 1.3 1.3
6 7 8 9 10	.50 .47 .44 .39	.12 .12 .11 .11	.11 .10 .09 .08 .07	.17	.14 .13 .13 .15	.15 .13 .14 .11	.28 .26 .25 .24	.01 .01 .01 .00	.59 .22 .27 .24 .20	.32 .27 .84 .76	1.9 1.8 1.5 1.5	2.8 2.0 2.3 2.1 2.7
11 12 13 14 15	.36 .35 .37 .31	.10 .09 .09 .12	.15 .16 .12 .10	.03 .01 .01 .19 .21 .18	.11 .12 .11 .10	.08 .06 .07 .07	.23 .24 .21 .20 .17	.00 .00 .00 .00	.19 .17 .14 .29 .46	.46 .58 .47 .58	4.0 3.0 2.7 2.4 2.1	2.9 2.8 3.9 22 14
16 17 18 19 20	. 29 . 29 . 29 . 28 . 27	.10 .10 .08 .07	.11 .26 .12 .13 .15	.15 .16 .16 .14	.09 .09 .08 .08	.04 .03 .04 .38	.14 .11 .10 .10	. 24 . 04 . 03 . 03 . 02	.29 .63 .33 .31	.47 .49 .61 .57	2.1 1.9 2.9 2.5 2.2	7.7 5.6 4.5 4.0 3.6
21 22 23 24 25	. 27 . 26 . 25 . 24 . 24	.07 .07 .08 .07	.13 .13 .13 .19	.16 .17 .18 .31	.06 .07 .10 .05	.08	.08 .08 .07 .07	.02 .07 .04 .01	. 26 . 29 . 29 . 29 . 27	.89 .85 .74 .72	4.5 3.6 2.8 2.4 2.0	3.7 3.4 3.3 3.0 2.9
26 27 28 29 30 31	.25 .24 .22 .21 .21	.40 .21 .17 .14 .13	.13 .12 .22 .17 .15	.76 .60 .14 .11 .11	.03 .04 .03 	.07 .06 .05 1.3 .64	.08 .04 .03 .02 .02	.11 .07 .31 .13 .06	. 26 . 26 . 23 . 23 . 22	.69 .76 .67 .63 .61	1.8 1.6 1.5 1.4 1.3	2.8 2.7 2.6 2.5 2.4
TOTAL MEAN MAX MIN	10.67 .34 .61 .21	3.70 .12 .40 .07	4.08 .13 .26 .07	.19 .76 .01	.11 .30 .03	.17 1.3 .01	5.00 .17 .37 .02	2.15 .069 .53 .00	7.59 .25 .63 .03	21.72 .70 4.0 .19	77.9 2.51 7.5 1.3	119.1 3.97 22 1.3
							BY WATER					
MEAN MAX (WY) MIN (WY)	1.92 4.09 1996 .34 2001	1.36 4.38 1995 .12 2001	2.59 8.26 2000 .13 2001	1.60 3.26 2000 .19 2001	1.42 4.13 1998 .10 2001	1.32 3.99 1998 .17 2001	.95 2.18 1996 .17 2001	.62 1.03 1998 .040 2000	1.23 3.79 1994 .10 2000	1.56 3.35 1995 .29 2000	2.21 7.49 1995 .40 2000	2.79 6.09 1994 .66 1999
SUMMAR	Y STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	ARS 1994	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUI INSTANT 10 PERO 50 PERO		AN AN N MINIMUM GE W FLOW CDS		237.25 .65 6.1 .00 .00	Jan 16 Many da May 19	ys	266.09 .73 22 .00 .00 82.83 2.4 .19 .04	Sep 14 Many da May 8 Aug 10	ys	1.63 2.62 .73 36 .00 83.03 .00 3.4 .99	Nov i Mai Mai Sep i	1995 2001 16 1994 days ny days 28 1995 19 2000

02263800 SHINGLE CREEK AT AIRPORT, NEAR KISSIMMEE, FL

LOCATION.--Lat $28^{\circ}18^{\circ}14^{\circ}$, long $81^{\circ}27^{\circ}04^{\circ}$, in NW_{4}^{1} sec.19, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, near center of span on downstream side of bridge on U.S. Highway 192, 1.0 mi northwest of Kissimmee Airport, 3 mi west of Kissimmee, and 5.6 mi upstream from mouth.

DRAINAGE AREA. -- 89.2 mi².

PERIOD OF RECORD. -- October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 60.66 ft above sea level.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE. Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	41 35 32 32 33	9.9 9.8 9.6 9.4 9.0	15 14 12 9.9 8.8	12 13 11 10 8.8	10 19 25 26 24	6.0 5.5 5.3 7.4	113 137 152 146 127	32 29 27 31 32	43 43 39 37 36	151 123 103 89 81	194 261 348 377 384	96 131 145 135 139
6 7 8 9 10	33 33 32 29 27	8.7 8.6 8.0 7.7 7.3	7.8 7.3 6.6 6.1 5.7	8.0 7.8 7.7 8.0 8.4	22 21 20 19 18	12 17 17 15 13	112 100 96 94 86	34 34 32 28 22	36 40 55 62 82	80 79 80 110 165	377 343 302 280 271	e165 e192 e275 e443 e757
11 12 13 14 15	26 24 22 21 19	6.8 6.1 5.8 5.5 5.5	5.5 5.2 5.5 7.1 8.5	9.4 11 11 11 11	17 15 14 14	11 11 10 11 12	75 67 58 50 42	19 16 14 12 11	114 132 128 107 88	197 221 232 231 326	234 204 186 178 175	e738 e717 e693 e972 1100
16 17 18 19 20	17 16 14 14 13	5.3 5.2 5.0 5.0 4.8	9.6 9.8 11 12 13	11 11 10 9.8 12	13 12 11 10 9.5	10 9.6 8.9 9.4 12	37 32 27 24 22	9.8 8.9 7.8 6.9 6.7	98 107 112 103 107	378 e400 e420 e360 e430	180 184 186 184 169	1050 1000 889 734 603
21 22 23 24 25	12 12 11 11	4.8 4.5 4.4 4.4	12 12 11 9.1 8.2	12 11 11 12 12	8.9 8.2 7.6 7.4 7.2	19 30 32 32 27	20 18 17 15 13	6.5 5.8 5.6 5.1 8.8	116 186 255 290 292	e489 e422 e378 e368 e348	153 146 133 119 105	498 435 417 386 343
26 27 28 29 30 31	11 11 10 10 9.9	6.6 11 10 14 16	7.5 7.2 7.4 9.3 9.6	11 10 10 10 10	6.8 6.6 6.4 	23 19 15 25 67 86	14 21 38 40 36	23 30 38 42 43	282 264 237 206 177	353 316 278 240 207 179	94 87 81 76 76 99	301 259 226 195 167
TOTAL MEAN MAX MIN CFSM IN.	631.9 20.4 41 9.9 .23 .26	223.1 7.44 16 4.4 .08 .09	284.7 9.18 15 5.2 .10	320.9 10.4 13 7.7 .12	392.6 14.0 26 6.4 .16	589.1 19.0 86 5.3 .21	1829 61.0 152 13 .68 .76	664.9 21.4 44 5.1 .24	3874 129 292 36 1.45 1.62	7834 253 489 79 2.83 3.27	6186 200 384 76 2.24 2.58	14201 473 1100 96 5.31 5.92
STATIS'	TICS OF M	ONTHLY ME.	AN DATA F	OR WATER Y	EARS 195	9 - 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	86.1 268 1970 1.36 1959	52.8 323 1988 2.90 1968	50.7 451 1998 3.12 1962	58.6 228 1986 6.23 1962	63.5 308 1998 10.3 1968	81.4 506 1960 8.73 2000	48.7 259 1987 1.63 1963	26.0 150 1991 .000 1962	66.2 272 1982 .000 1961	108 369 1991 5.65 1962	136 354 1966 9.31 1961	152 564 1960 16.0 1965
SUMMAR	Y STATIST	ICS	FOR :	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	ARS 1959	- 2001
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS					Aug 10 Jun 3 May 31	-6	37031.2 101 1100 4.4 4.6 1120 9.08 4.1 1.14 15.44 301 22 7.2	Nov 19 Sep 15 Sep 15 May 25		77.7 151 16.4 3160 .00 .00 3320 11.00 .87 11.83 190 40 7.5	Mai Mai Mar	1960 1962 18 1960 ny days ny days 18 1960 18 1960

e Estimated

02263869 SOUTH LAKE OUTLET AT S-15 NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}24^{\circ}45^{\circ}$, long $81^{\circ}32^{\circ}17^{\circ}$, in $SW^{1/2}_{4}$ sec.8, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream wingwall of control structure S-15, 300 ft south of natural lake shoreline, 1,600 ft west of State Highway 535, and 2.4 mi northwest of Vineland.

DRAINAGE AREA.--2.56 mi².

PERIOD OF RECORD.--June 1972 to September 1982, October 1986 to current year.

REVISED RECORDS.--WDR FL-97-1: Drainage area.

GAGE.--Water-stage and gate-opening recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark). Auxiliary water-stage recorder at downstream side of control structure since May 1970.

REMARKS.--Records fair except those below $1.0~{\rm ft}^3/{\rm s}$, which are poor. Flow from South Lake into South Lake outlet regulated by automatic gates in control structure 15. Discharge computed from relation between discharge and gate openings and does not include leakage, which is less than $1.0~{\rm ft}^3/{\rm s}$, around structure or gates. Gage heights are published as elevations for South Lake (station 02263868) in the section of this report entitled LAKE ELEVATIONS.

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

		DISCHAR	GE, CUBIC	, reel ren		MEAN VA	LUES	2000 10	SEF LEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1972	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	.79 7.84 1976 .000 1973	.21 2.61 1989 .000 1973	.28 2.90 1989 .000 1973	.32 2.87 1998 .000 1973	.50 10.4 1998 .000 1973	.53 6.28 1998 .000 1973	.35 7.12 1987 .000 1973	.049 .64 1987 .000 1973	.016 .12 1995 .000 1973	.020 .30 1995 .000 1972	.31 5.58 1974 .000 1972	1.08 9.44 1994 .000 1972
SUMMARY	STATISTI	CS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	EARS 1972	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC	MEAN ANNUAL ME DAILY ME DAILY ME SEVEN-DAY I PEAK STA ENT EXCEE ENT EXCEE	CAN CAN AN MINIMUM AGE CDS CDS				ys	.00 .00 91.81 .00	Sep 15		.37 1.57 *.00 48 .00 .00 94.85 .28	7 000 Sep 1 0 Man 0 Man 5 Apr	1998 10 1974 ny days ny days 6 1987

^{*1977,1978,1981,1999-2001}

02264000 CYPRESS CREEK AT VINELAND, FL

LOCATION.--Lat $28^{\circ}23^{\circ}25^{\circ}$, long $81^{\circ}31^{\circ}11^{\circ}$, in NW^{1}_{4} sec.21, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, at upstream side of culverts on State Highway 535, 1.0 mi west of Vineland.

DRAINAGE AREA.--29.3 mi^2 .

PERIOD OF RECORD. -- August 1945 to current year.

REVISED RECORDS.--WDR FL-89-1: 1960(M), WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 96.20 ft above sea level. Prior to June 13, 1946, nonrecording gage at same site and datum.

 ${\tt REMARKS.--Records\ fair.\ Some\ diversions\ by\ pumping\ above\ station\ for\ irrigation.}$

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.67 .60 .61 .79	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.7 2.3 2.4 2.7 3.3	.85 .79 .70 .72
6 7 8 9 10	.60 .51 .44 .38	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	3.2 3.1 2.7 2.8 4.8	2.0 4.3 5.3 7.2 7.3
11 12 13 14 15	.30 .26 .23 .20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .12 .22 .39	11 9.5 7.3 6.0 5.1	8.3 7.5 7.5 17
16 17 18 19 20	.15 .12 .11 .10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.41 .45 .60 .62	4.5 4.1 3.6 3.2 2.7	13 9.6 7.8 6.4 5.5
21 22 23 24 25	.09 .08 .07 .06	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.47 .54 .52 .41	2.6 2.7 2.2 1.8 1.6	4.9 5.5 5.7 5.3 4.7
26 27 28 29 30 31	.04 .04 .02 .01 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.40 .41 .45 .33 .25	1.4 1.3 1.2 1.1 1.0	4.2 3.9 3.6 3.2 2.9
TOTAL MEAN MAX MIN CFSM IN.	7.82 .25 .79 .00 .01	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	8.57 .28 .62 .00 .01	103.85 3.35 11 .95 .11 .13	175.96 5.87 19 .70 .20
MEAN MAX (WY) MIN (WY)	11.8 82.2 1954 .000	5.56 37.0 1954 .000 1973	4.82 46.5 1998 .000 1981	5.54 101 1998 .000 1968	5.29 82.0 1998 .000 1974	7.25 83.4 1998 .000 1974	4.91 51.9 1960 .000 1956	YEAR (WY) 1.68 19.5 1960 .000 1962	1.88 24.4 1947 .000 1973	4.40 48.4 1959 .000 1973	9.10 74.4 1959 .000 1977	13.6 109 1960 .000 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	YEARS 1945	- 2001
LOWEST ANICHEST LOWEST DANNUAL DANNUAL DANNUAL DANNUAL DESCRIPTION	MEAN ANNUAL M ANNUAL ME DAILY ME DAILY MEA	AN AN AN MINIMUM W GE EFSM) INCHES)		115.15 .31 4.0 .00 .00 .01 .15 1.0 .00	Sep 5 Many da Mar 2	ys	296.20 .81 19 .00 .00 23 2.68 .02 .38 3.0	Sep 15 Many da Oct 30 Sep 14 Sep 14 Sep 14	ys	6.3 49.6 .0 276 .0 .0 309 4.6 .2 .2 .8	5017 Sep 000 Ma 000 Ma Sep 66 Sep 022	1945 1981 11 1960 any days nny days 11 1960 11 1960

02264000 CYPRESS CREEK AT VINELAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963, 1966, 1968-73, 1975-94, 1996-98, 2000 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: July to September 2001. WATER TEMPERATURE: July to September 2001. DISSOLVED OXYGEN: July to September 2001.

INSTRUMENTATION. -- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of of no record.

EXTREMES FOR PERIOD OF DAILY RECORD.-- SPECIFIC CONDUCTANCE: Maximum daily mean, 527 μ S/cm @ 25 °C, July 13, 2001; minimum daily mean, 98 μ S/cm @ 25 °C, Sept. 15,

WATER TEMPERATURE: Maximum daily mean, 25.9 °C, Aug. 17, 2001; minimum daily mean, 22.2 °C, Sept. 30, 2001. DISSOLVED OXYGEN: Maximum daily mean, 2.5 mg/L, Aug. 10, 2001; minimum daily mean, 1.3 mg/L, July 30, 2001.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum daily mean, 527 µS/cm @ 25 °C, July 13; minimum daily mean, 98 µS/cm @ 25 °C, Sept. 15.
WATER TEMPERATURE: Maximum daily mean, 25.9 °C, Aug. 17; minimum daily mean, 22.2 °C, Sept. 30.
DISSOLVED OXYGEN: Maximum daily mean, 2.5 mg/L, Aug. 10; minimum daily mean, 1.3 mg/L, July 30.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), PERIOD JULY TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											304	186
2											289	188
3											274	194
4											262	188
5											241	181
3											241	101
6											231	171
7											227	146
8											223	137
9											220	124
10											204	119
											201	117
11											163	112
12										526	157	111
13										527	152	110
14										505	152	101
15										472	150	98
13										1,2	150	,,,
16										457	151	102
17										462	149	106
18										453	149	108
19										451	150	110
20										451	150	110
21										431	151	111
22										415	152	111
23										409	152	110
24										405	154	110
25										398	156	111
26										395	160	111
27										384	163	112
28										381	168	113
29										373	172	114
30										372	178	115
31										351	183	
MEAN										431	187	127
MAX										527	304	194
MIN										351	149	98

WTR YR 2001 MEAN 222 MAX 527 MIN 0

02264000 CYPRESS CREEK AT VINELAND, FL--Continued

TEMPERATURE, WATER (DEG. C), PERIOD JULY TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAILY	MEAN VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											23.8	25.3
2											23.3	25.2
3											23.4	25.2
4											23.5	25.1
5											23.9	25.0
6											24.1	24.6
7											24.3	24.4
8											24.8	24.1
9											24.7	24.3
10											24.3	24.3
11											24.3	24.5
12										23.9	24.8	24.4
13										23.9	25.3	23.9
14										24.0	25.5	23.3
15										23.9	25.5	22.8
16										23.8	25.5	22.4
17										24.0	25.9	22.5
18										24.1	25.7	22.9
19										24.3	25.4	23.5
20										24.4	25.7	24.0
21										24.3	25.0	24.2
22										24.3	24.8	24.3
23										24.1	25.1	24.2
24										24.0	25.1	24.3
25										24.2	25.0	24.2
26										24.2	25.0	23.9
27										24.3	24.6	23.5
28										24.2	24.8	23.4
29										24.3	25.1	22.9
30										24.5	25.3	22.2
31										24.5	25.4	
MEAN										24.2	24.8	24.0
MAX										24.5	25.9	25.3
MIN										23.8	23.3	22.2

WTR YR 2001 MEAN 24.3 MAX 25.9 MIN 22.2

		OXY	GEN DISSO	LVED (MG/		DD JULY TO MEAN VAL		ER 2001				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											2.2	1.7
2											2.3	1.6
3											2.3	1.5
4											2.4	1.6
5											2.3	1.8
6											2.3	2.2
7											2.2	2.1
8											2.1	2.4
9											2.0	1.9
10											2.5	2.2
11											1.8	1.9
12											1.7	2.0
13											1.8	2.0
14											1.8	2.1
15											1.8	1.5
16											1.8	1.6
17										2.0	1.8	1.7
18										2.4	1.9	1.8
19										2.2	1.9	1.8
20										2.0	1.9	1.9
21										2.2	2.0	2.0
22										2.1	2.1	1.8
23										2.2	2.1	1.8
24										2.1	2.1	1.8
25										1.8	2.1	1.9
26										1.9	2.0	2.0
27										1.9	2.0	2.0
28										1.7	2.0	2.1
29										1.6	1.9	2.2
30										1.3	1.8	2.3
31										1.7	1.7	
MEAN										1.9	2.0	1.9
MAX										2.4	2.5	2.4
MIN										1.3	1.7	1.5

WTR YR 2001 MEAN 2.0 MAX 2.5 MIN 1.3

02264000 CYPRESS CREEK AT VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

JUL 30 AUG 30 SEP 17	TIME 1115 0930 1115	GAGE HEIGHT (FEET) (00065) 1.55 1.80 2.40	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .26 1.1	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300) 2.6 2.3	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 3.5 4.1 4.6	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 374 167	TEMPER-ATURE WATER (DEG C) (00010) 25.2 25.1 22.5	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)
DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
30 AUG						.160	2.7		<.02		<.01		<.01
30 SEP	14	<1.0	25	<.1	3.0		3.1	.12		.02		.01	
17						.07	2.2		<.02		<.01		.03
DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)
JUL 30		<.02	66	<.1									
AUG 30	.03	<.02	93		551	1.3	<1.0	<1.0	<1.0	1.2	802	2.9	11
SEP 17		<.02	68	<.1									
Ξ,				ZINC,		CARRO	CITI OD						
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	CARBO- PHENO- THION WATER UNFLTRD (UG/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	DI- AZINON, TOTAL (UG/L) (39570)	DI- ELDRIN TOTAL (UG/L) (39380)	DISUL- FOTON UNFILT RECOVER (UG/L) (39011)	ENDO- SULFAN I TOTAL (UG/L) (39388)
AUG 30	<.1	<1.0	<1.0	2.3	<.01	<.02	<.1	<.01	<.02	<.02	<.006	<.03	<.01
DATE	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	MALA- THION, TOTAL (UG/L) (39530)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)
AUG 30	<.01	<.01	<.007	<.009	<.01	<.006	<.06	<.01	<.01	<.006	<.007	<.006	<.009

< -- Less than

02264000 CYPRESS CREEK AT VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PARA- THION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PHORATE TOTAL (UG/L) (39023)	TOX- APHENE, TOTAL (UG/L) (39400)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG 30	<.01	<.1	<.02	<1	<.2	<3	<.2	<.2	<.2	<.2	<.2	<.2	<2.5
	DATE		MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	BI- PHENYL, NONA- CHLORO- SUR SCD 1325 PERCENT (90575)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)				
	AUC	30	<.2	53	<.5	<.2	<.5	<5	<50				

< -- Less than

02264003 CYPRESS CREEK CANAL AT S-103A NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}23^{\circ}21^{\circ}$, long $81^{\circ}31^{\circ}31^{\circ}$, in SW^{1}_{4} sec.20, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on upstream side of control structure S-103A, 200 ft northeast of Buena Vista Drive, 1,800 ft downstream from State Highway 535, and 1.3 mi west of Vineland.

DRAINAGE AREA.--29.5 mi².

PERIOD OF RECORD. -- October 1986 to current year (gage heights and discharge measurements only).

REVISED RECORDS.--WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark). Auxilliary gage at downstream side of control structure 103A.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 93.45 ft, Sept. 21, 1994; minimum daily recorded, 89.14 ft, May 9, 1990. Maximum discharge measured, 107 ft³/s, Sept. 22, 1994; unknown amount of leakage many days each year.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC FEB AUG SEP 89.59 89.52 89.76 89.85 92.94 90.78 89.56 89.68 89.73 89.84 89.61 91.55 89.71 2 90.64 89.56 89.79 89.76 89.63 89.86 93.01 89.66 89.60 89.51 89.81 91.47 91.26 3 90 61 89.56 89 65 89 68 89.61 89 50 89.64 89 76 89 85 93.02 89.73 89.77 90.99 89.56 89.63 89.67 89.63 89.67 89.82 4 89.62 93.04 91.27 5 90.84 89.56 89.82 89.81 89.66 89.72 89.65 89.89 6 90.65 89.57 89.60 89.64 89.64 89.80 89.98 89.64 89.79 93.05 92.66 89.77 89.73 90.49 89.57 89.59 89.63 89.63 89.93 89.63 90.02 89.85 93.07 93.07 8 90.37 89.57 89.59 89.66 89.62 89.88 89.61 90.01 89.87 93.05 93.07 89.57 89.59 89.75 89.61 89.70 89.84 89.60 89.78 90.20 93.06 93.01 90.24 10 90.11 89.58 89.60 89.75 89.61 89.68 89.81 89.59 89.75 90.22 93.00 11 90.03 89.57 89.62 89.73 89.61 89.66 89.78 89.58 89.73 90.22 93.10 12 13 89.96 89.90 89.55 89.54 89.75 89.73 89.57 89.56 89.74 89.68 89.61 89.64 89.71 90.13 ___ 93.08 ---89.82 89.63 89.61 89.64 89.69 90.13 93.09 14 89.85 89.54 89.61 89.64 89.70 93.15 15 89.81 89.54 89 77 89.55 89.60 89.64 89 70 89.53 89.82 90.65 ___ 93.16 16 89.77 89.53 89.76 89.60 89.63 89.68 89.57 93.14 17 89.74 89.71 89.53 89.53 89.78 89.76 89.50 89.49 89.59 89.57 89.61 89.59 89.65 89.62 89.56 89.55 89.91 89.87 90.80 91.28 ___ 93.11 93.09 18 89.74 89.68 20 89.67 89.54 89.71 89.52 89.53 89.90 89.58 89.52 89.86 91.26 ___ 93.01 21 89.66 89.53 89.70 89.75 89.57 89.83 93.00 89.52 89.52 89.51 89.53 89.53 89.51 89.51 89.50 89.49 89.57 89.57 89.50 89.53 91.57 91.54 22 89.66 89.69 89.56 89.85 ___ 93.07 23 89.63 89.66 89.55 89.82 93.07 24 89.61 89.54 89.64 89.50 89.49 89.56 89.57 89.52 89.83 93.00 25 89 60 89 55 89.64 89 50 89.50 89 56 89 57 89 61 89.84 90.80 ___ 92 94 26 89.59 89.63 89.63 89.49 89.51 89.55 89.62 89.94 89.78 90.93 92.85 89.59 89.58 89.78 89.76 89.50 89.51 89.52 89.52 89.61 89.60 89.84 89.82 89.73 89.71 90.97 91.34 92.79 92.71 27 89 64 89 54 28 89.68 89.53 91.88 29 89.57 89.73 89.74 89.51 ---89.74 89.59 89.84 89.71 90.90 91.78 92.69 89 74 89.79 89.75 30 89 57 89 71 89 53 90 16 89 58 89 78 90 62 91 61 92 61 MEAN 89.98 89.68 89.70 89.81 92.75 89.58 89.59 89.58 89.67 89.63 90.59 92.63 90.99 89.78 89.82 89.75 90.16 89.98 89.94 90.02 91.57 93.16 MAX 89.65 93.07

CAL YR 2000 MEAN 90.18 MAX 93.07 MIN 89.35 WTR YR 2001 MEAN 90.15 MAX 93.16 MIN 89.49

89.59

89.49

89.53

MIN

89.57

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

89.50

89.57

89.50

89.69

89.82

91.61

91.26

DIS-CHARGE, INST. CUBIC FEET DATE TIME PER SECOND (00061) SEP 15... 1336 25

89.49

02264051 BLACK LAKE OUTLET AT S-101A, AT LAKE BUENA VISTA, FL

LOCATION.--Lat $28^{\circ}22^{\circ}28^{\circ}$, long $81^{\circ}31^{\circ}01^{\circ}$, in NE_{4}^{1} sec.28, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right upstream wingwall of drop culvert at Buena Vista Drive at Lake Buena Vista, and 1.7 mi upstream from Bonnet Creek.

DRAINAGE AREA.--0.69 mi².

PERIOD OF RECORD.--October 1986 to current year.

REVISED RECORDS.--WDR FL-97-1: Drainage area.

GAGE.--Water-stage recorder, sharp-crested weir, and sluice gate. Datum of gage is at sea level (Reedy Creek Improvement District bench mark).

 ${\tt REMARKS.--Records\ good\ except\ for\ those\ below\ 5.0\ ft^3/s,\ which\ are\ poor.\ Flow\ can\ be\ regulated\ by\ manipulation\ of\ sluice\ gate.}$

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 2 3 4 5	.16 .12 .11 .16	.16 .16 .16 .16	.38 .38 .38 .38	.38 .38 .38 .38	.74 .56 .38 .38	.28 .23 .16 4.1 1.9	1.6 1.1 .81 .75 2.2	.66 .52 .49 .65	1.2 .83 .71 .91	3.8 3.1 2.3 1.5 4.2	18 14 8.8 9.9	.68 .88 .68 2.9 7.0
6 7 8 9 10	.16 .16 .16 .13	.16 .16 .21 .26	.38 .38 .38 .38	.38 .38 1.3 .84 .38	.38 .36 .34 .32	.54 .37 .33 .26	2.1 .89 .74 .64	.34 .25 .20 .24	7.3 8.3 4.4 1.6 1.1		5.2 3.4 3.1 4.8	16 16 10 12 11
11 12 13 14 15	.14 .16 .16 .16	. 26 . 26 . 26 . 26 . 35	.38 1.9 .59 .38	.38 .38 .38 .38	.38 .39 .38 .38	.27 .29 .39 .44	.56 .51 .51 .50	.26 .26 .26 .26	.90 .80 .72 1.1 4.8	4.0 2.6 2.3 5.7 5.5	35 20 14 13 11	10 9.1 9.0 30 22
16 17 18 19 20	.12 .08 .08 .08	.38 .38 .38 .38	.38 .99 .38 .38	.38 .38 .38 .38	.39 .39 .33 .26	.35 .33 .28 3.4 3.9	.42 .33 .20 .17	.47 .45 .34 .26	5.4 4.7 5.7 2.7 1.7	2.9 3.9 6.6 6.8 3.1	9.0 7.9 6.8 6.9 5.0	10 5.0 3.1 2.5 1.9
21 22 23 24 25	.08 .08 .08 .08	.38 .38 .38 .38	.38 .38 .38 .38	.38 .45 .50 .50	.31 .38 .39 .36 .38	.98 .64 .57 .50 .49	.28 .37 .42 .36	.15 .17 .59 .43 6.6	2.2 3.4 2.5 3.5 3.1		8.8 11 7.5 3.3 .66	2.5 6.8 4.4 3.8 2.3
26 27 28 29 30 31	.08 .08 .08 .13 .16	1.8 1.8 .38 .38	.38 .38 .62 .38 .38	.50 .50 .54 .58 .50	.38	.47 .38 .33 9.1 17 3.6	.73 .33 .26 .24 .25	9.8 1.6 1.2 1.5 .91	2.0 2.0 2.0 2.6 4.5	2.8 2.0 1.3 .93 .82 8.5	.60 .50 .55 .59 .60	
TOTAL MEAN MAX MIN	3.73 .12 .16 .08	11.78 .39 1.8 .16	14.36 .46 1.9 .38	14.72 .47 1.3 .38	10.70 .38 .74 .26	52.56 1.70 17 .16	18.85 .63 2.2 .17	30.87 1.00 9.8 .15	83.23 2.77 8.3 .56	122.05 3.94 16 .82	255.45 8.24 35 .50	207.44 6.91 30 .68
STATIST	ICS OF M	ONTHLY MEA	AN DATA F	OR WATER YE	ARS 1987	7 - 2001	, BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	2.46 11.7 2000 .12 2001	1.68 7.02 1988 .39 2001	1.42 7.71 1998 .46 2001	1.17 3.25 1996 .37 2000	1.06 3.85 1998 .33 2000	1.87 6.86 1987 .25 2000	1.28 3.23 1992 .080 2000	1.18 4.44 1991 .24 2000	2.27 5.99 1994 .22 1998	4.42 12.1 2000 .61 1989	4.47 8.30 1995 .44 1989	3.99 11.7 1998 .82 1997
SUMMARY	STATIST	ICS	FOR :	2000 CALEND	AR YEAR	I	FOR 2001 WA	TER YEAR		WATER Y	ZEARS 1987	7 - 2001
ANNUAL MIGHEST LOWEST A	UAL TOTAL 842.73 UAL MEAN 2.30 HEST ANNUAL MEAN EST ANNUAL MEAN HEST DAILY MEAN 66 Jul 2 EST DAILY MEAN .00 Many					825.74 2.26 26 35 Aug 11			20	1 11		2000 1989 23 1988
ANNUAL S MAXIMUM MAXIMUM 10 PERCI 50 PERCI		Y MINIMUM OW AGE EDS EDS	.00 Many days			ıys	35 Aug 11 .08 Oct 17-28 .08 Oct 17 48 Aug 10,11 95.05 Aug 10,11 6.9 .47 .16			*.00 Jun 29 1998 127 Nov 23 1988 95.84 Nov 23 1988 5.5 .84 .28		

^{*} Many days in water years 1995,1996,1998-2000

02264060 LATERAL 101 AT S-101, NEAR LAKE BUENA VISTA, FL

LOCATION.--Lat $28^{\circ}22^{\circ}15^{\circ}$, long $81^{\circ}31^{\circ}45^{\circ}$, in NE $^{1/4}_{4}$ sec.29, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream side of control structure S-101, 0.1 mi north of Buena Vista Drive, 0.5 mi upstream from mouth, and 0.9 mi west of Lake Buena Vista.

DRAINAGE AREA. -- 32.5 mi².

PERIOD OF RECORD. -- October 1986 to current year.

REVISED RECORDS. -- WDR FL-96-1: Drainage area.

GAGE.--Water-stage and gate-opening recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark).

Auxiliary gage at downstream side of control structure 101.

REMARKS.--Records poor. Flow regulated by operation of structure 101. Discharge computed from relation between discharge and gate openings and does not include leakage, which is less than $5.0~{\rm ft}^3/{\rm s}$, around structure or gates.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY NOV DEC FEB SEP .00 .00 .00 .00 .00 .00 .00 .00 64 .00 .00 .00 2 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 36 .00 3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17 0.0 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 29 5 .00 3.2 24 .00 .00 .00 .00 .00 .00 6 .00 .00 .00 .00 .00 .00 .00 .00 18 .35 11 29 .00 .00 .00 .00 .00 .00 .00 .00 29 .00 4.8 22 20 4.3 8 .00 .00 .00 .00 .00 .00 .00 .00 3.4 35 .00 .00 .00 .00 2.7 40 5.1 .00 .00 .00 .00 29 10 .00 .00 .00 .00 .00 11 57 41 .00 .00 .00 .00 11 .00 .00 .00 .00 .00 .00 .00 .00 .00 2.7 73 26 12 13 .00 22 .00 .00 .00 .00 .00 .00 .00 .00 .00 32 .00 .00 .00 .00 .00 .00 .00 .00 .00 33 .00 .00 .00 .00 .00 .00 .00 .00 .00 15 11 142 15 .00 .00 .00 .00 .00 .00 .00 .00 .00 5.4 11 79 16 .00 .00 .00 .00 .00 .00 .00 .00 5.5 .00 .00 34 17 .00 .00 .00 .00 .00 .00 .00 .00 3.8 4.7 12 3.1 2.5 19 9.6 .00 18 .00 .00 .00 .00 14 1.2 .00 .00 .00 .00 .00 .00 9.5 10 20 .00 .00 .00 .00 .00 .72 .00 .00 .00 .00 .00 4.5 21 .00 .00 .00 .00 1.0 .00 .00 .00 4.6 .00 .15 .00 .33 .00 4.2 1.8 13 22 0.0 .00 0.0 0.0 0.0 .00 .00 23 .00 .00 .00 .00 .00 .00 .00 .00 .00 13 .00 .00 .00 .00 .00 .00 .00 2.1 13 25 .00 0.0 .00 0.0 0.0 .00 .00 .00 .00 0.0 .00 4.6 26 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2 2 28 .00 .00 .00 .00 .00 .70 .00 .00 .00 .00 .00 .68 29 .00 .00 .00 .00 12 .00 .00 .00 .57 .00 .36 ___ 30 0.0 0.0 0.0 0.0 33 0.0 0.0 .00 0.0 0.0 0.0 31 .00 .00 .00 .00 .00 0.00 83.70 TOTAL 0.00 0.00 0.00 0.00 7.70 397.70 595.19 0.00 54.45 162.32 .000 .000 .000 .000 .000 1.76 .000 .25 7.7 2.79 5.24 MEAN 19.8 .00 MAX .00 .00 .00 .00 33 .00 29 42 142 .00 .00 .00 .00 MIN .00 .00 .00 .00 .00 .00 .00 .00 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY) 16.2 MEAN 13.5 10.5 11.2 14.1 11.6 11.0 5.00 7.24 12.7 17.0 18.8 17.2 MAX 35 3 39 7 66.5 98 N 91.1 103 35 9 16.8 30 1 39.4 44.5 1992 1988 1998 1998 1991 1991 1991 1998 1998 1998 1991 1995 (WY) .000 .000 .000 .000 .000 .000 .000 .000 .000 .61 .000 3.17 MIN (WY) 2001 2001 2001 2000 2000 2000 2000 2000 1989 1989 1989 1989 SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1987 - 2001 ANNUAL TOTAL 1457.10 1301.06 3.56 12.5 40.7 ANNUAL MEAN 3.98 HIGHEST ANNUAL MEAN 1998 LOWEST ANNUAL MEAN 2001 3.56 HIGHEST DAILY MEAN 78 Jul 8 142 Sep 14 290 Nov 23 1988 .00 .00 .00 Many days LOWEST DATLY MEAN Many days Many days ANNUAL SEVEN-DAY MINIMUM Jan Many days Nov 23 1988 .00 .00 Oct Jul 31 MAXIMUM PEAK STAGE 90.16 90.59 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 32 11 .00 .00 6.0 .00 90 PERCENT EXCEEDS 0.0 .00

02264100 BONNET CREEK NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}19^{\circ}30^{\circ}$, long $81^{\circ}31^{\circ}15^{\circ}$, in SW^{1}_{4} sec.9, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on upstream side of sheet-pile weir, about 0.5 mi upstream from Reedy Creek Swamp, and 5.0 mi south of Vineland.

DRAINAGE AREA. -- 44.7 mi².

PERIOD OF RECORD.--Water years 1943, 1960, 1961, 1966 (miscellaneous discharge measurements), May 1966 to current year.

REVISED RECORDS. -- WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder and steel sheet-pile weir with sluice gate. Datum of gage is at sea level (Florida Department of Transportation bench mark). Prior to June 1, 1999, at site 0.5 mi upstream at same datum; prior to Oct. 1, 1968, at datum 37.96 ft higher.

REMARKS.--Records fair. Since October 1968, flow regulated by automatic gates upstream and since December 1970, by control structure S-11. Natural flow of stream affected by canals and control structures above station which divert an undetermined amount of water into the Reedy Creek basin. From Oct. 13, 1983 to Feb. 1, 1985 structure S-11 did not regulate the stream because of a washout of the bank around the structure.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 11, 1960, reached a stage of 42.5 ft, datum then in use, from floodmarks, discharge, 1,200 ${\rm ft}^3/{\rm s}$.

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 2 3 4 5	9.6 9.6 9.8 9.1 8.0	1.8 1.6 1.9 2.2 2.7	3.1 2.9 2.9 2.7 2.4	2.9 2.9 3.0 3.8 3.7	2.3 3.1 3.6 2.1 2.4	1.8 1.7 1.6 4.7 3.7	12 4.9 4.0 4.0 3.5	1.0 1.1 1.0 1.1 .84	. 47 . 67 . 88 . 95 . 54	1.5 1.5 1.6 1.5	195 131 86 100 96	15 15 15 15 15
6 7 8 9 10	7.6 8.3 7.6 9.4 8.3	2.9 2.4 1.9 1.9 2.0	2.5 2.4 2.8 2.9 2.9	3.4 3.1 3.0 4.0 4.3	3.1 4.2 3.3 2.9 2.4	3.6 3.6 3.9 3.4 2.5	3.1 2.9 2.9 3.4 3.2	.70 .60 .59 .60	29 51 66 16 2.8	5.5 2.4 5.9 92 61	66 43 18 11 117	56 98 106 114 117
11 12 13 14 15	6.9 6.6 6.5 6.6 6.5	1.1 1.1 2.3 3.1 3.4	3.1 3.5 5.8 4.6 3.8	3.9 6.9 6.2 4.8 4.0	2.4 2.5 2.4 2.4 1.9	3.0 2.4 2.7 2.9 2.7	2.6 2.4 2.2 2.7 2.6		1.6 1.1 .43 .42 1.1		204 94 62 38 42	127 107 126 428 288
16 17 18 19 20	6.4	2./	3.1 3.6 3.7 3.7 4.4	4.6 4.7 4.4 4.0 4.4	1.8 1.8 1.8 1.8	2.4 2.6 3.1 3.8 5.4	2.4 3.1 3.0 2.7 2.4	.90 .10 .00 .00	6.5 8.0 13 3.7 3.3	30 22 34 95 1.1	36 24 26 30 28	161 97 53 60 54
21 22 23 24 25	4.2 4.4 3.1 2.3 2.0	1.8 1.6 1.6 1.6	4.0 4.0 3.5 3.3	4.0 3.7 2.7 2.3 2.0	2.3 2.4 2.3 2.0 2.0	8.2 6.1 2.5 1.6 1.6	2.2 1.9 1.8 1.8	.00 .11 .09 .00	2.5 2.2 3.0 2.9 2.9	15 35 40 27 1.0	35 49 38 33 28	46 71 59 65 52
26 27 28 29 30 31	2.9 2.9 2.1 1.9 2.1 1.9	5.2 3.6 4.0 5.1 3.9	3.1 2.9 3.7 3.6 3.4 2.9	2.0 2.0 2.0 2.0 2.0 2.1	2.0 2.0 2.0 	1.6 1.7 1.6 19 85 30	1.6 1.4 1.3 1.1 .95	9.0 1.3 .99 1.2 .89	2.8 2.1 2.0 2.0 1.8	7.3 12 8.2 14 5.2	24 23 21 19 18 16	45 43 43 36 16
TOTAL MEAN MAX MIN	178.8 5.77 9.8 1.9		104.5 3.37 5.8 2.4	108.8 3.51 6.9 2.0	67.0	220.4	85.85	25.54	231.66 7.72 66 .42	766.1 24.7 95 1.0	1751 56.5 204 11	2543 84.8 428 15
STATIST	TICS OF MOI	NTHLY MEAN	DATA FO	R WATER YE		- 2001,	BY WATER	YEAR (WY				
MEAN MAX (WY) MIN (WY)	30.2 100 1995 4.92 1968	20.1 102 1988 1.13 1968	18.4 101 1998 2.19 1967	21.3 129 1998 .96 1967	22.2 143 1998 1.27 1968	24.0 143 1998 1.40 1968	17.0 56.1 1987 .30 2000	11.6 37.8 1979 .000 2000	21.8 78.9 1994 .42 1967	31.2 77.8 1984 4.12 1989	38.2 111 1995 2.71 1989	42.6 194 1994 6.34 1984
SUMMARY	STATISTIC	CS	FOR 2	000 CALEND	AR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1966	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				2221.59 6.07 116 .00 .00	Jul 8 Apr 6 Apr 16		6157.85 16.9 428 .00 .03 727 74.94 51 3.1	Sep 14 May 18 May 18 Sep 14 Sep 14	-21,24	24.9 62.2 10.1 610 .00 .00 1230 78.58 53 15 3.6	Nov Some Some Nov 2: Nov	1998 2000 4 1987 years years 3 1988 1 1969

02264100 BONNET CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1963, 1966, 1968-94, 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	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)
OCT 24 NOV	1300	72.82	2.4			4.5	7.2	240	24.3				
21	0950	72.77	2.0			4.7	7.3	263	18.5				
DEC 19	0830	72.82	3.4			5.4	7.4	270	17.2				
JAN 17	1151	72.81	4.7			7.6	7.2	247	16.7				
FEB 15	1205	72.77	1.8			7.3	7.3	252	20.7				
MAR 21 APR	1426	72.88	8.8			6.9	7.3	239	21.0				
09 MAY	1420	72.83	3.4			8.1	7.3	236	25.5				
08 JUN	0900	72.75	.73			8.0	7.6	269	25.1				
07 JUL	1040	73.09	24			7.1	7.4	238	29.5				
03 31 AUG	1310 1507	73.09 72.98	1.6 4.7			1.8	6.9 6.6	251 211	28.6 29.7				
30	1330	73.01	18	320	1.3	.2	6.2	205	28.2	56	16	4.0	3.3
SEP 19	1030	73.32	82			4.0	6.5	149	25.8				
DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SO4)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA TOTAL (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NITRITE TOTAL (MG/L AS N)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 24 NOV 21	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 21 DEC 19	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 21 DEC 19 JAN 17	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 21 DEC 19 JAN 17 FEB 15	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01
OCT 24 NOV 21 DEC 19 JAN 17 FEB 15 MAR 21	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67 .67	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 .01
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACC3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67 .67 .6	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07 .05 <.02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .01 <.01 <.01
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACC3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010 <.01 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67 .67 .6	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07 .05 <.02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 .01 <.01
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010 <.01 <.01 <.010 <.010	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67 .67 .6 .7 .62	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07 .05 <.02 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .01 <.01 <.01 .01
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010 <.01 <.01 <.010 .020	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67 .67 .6 .7 .62 .63 .68	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07 .05 <.02 <.02 <.02 <.02	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .01 <.01 .01 .01 .01 .01
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .02 <.010 <.01 <.01 <.010 <.010 .020 <.010	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .76 .67 .67 .6 .7 .62 .63 .68 .52 .65	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .10 .07 .05 <.02 <.02 <.02 <.02 .02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .01 .01 .01 .01 .01 .01 .01 .01 .01

< -- Less than

02264100 BONNET CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY RECORDS

DATE	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)
OCT													
24 NOV		.03	15	5.6									
21 DEC		.04	14	6.8									
19 JAN		.05	11	11									
17		.02	9.7	9.1									
FEB 15		<.02	7.7	<.1									
MAR 21		.03	8.6	8.8									
APR 09		<.02	10	8.4									
MAY 08		<.02	9.0	<.1									
JUN 07		.02	7.8	5.0									
JUL 03		.02	11	6.9									
31 AUG		.04	9.7	5.9									
30	.07	.08	40		684	3.5	<1.0	<1.0	1.8	2.1	1100	<1.0	63
SEP 19		.13	46	4.4									

	NICKEL,		ZINC,
	TOTAL	SELE-	TOTAL
	RECOV-	NIUM,	RECOV-
	ERABLE	TOTAL	ERABLE
DATE	(UG/L	(UG/L	(UG/L
	AS NI)	AS SE)	AS ZN)
	(01067)	(01147)	(01092)
AUG			
30	<1.0	<1.0	8.8

< -- Less than

02264140 BONNET CREEK NEAR KISSIMMEE, FL

WATER-QUALITY RECORDS

LOCATION.--Lat $28^{\circ}18^{\circ}28^{\circ}$, long $81^{\circ}31^{\circ}29^{\circ}$, in $NE^{\frac{1}{4}}$ sec.17, T. 25 S., R. 28 E., Osceola County, Hydrologic Unit 03090101, at culverts on east bank, 1.3 mi south of U.S. Highway 192, and 10 mi west of Kissimmee.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1986-88, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT													
24	1220	66.66	3.6	7.6	233	23.2	.09	.94	.08	<.01	.02	.04	21
NOV 21	1120	66.50	4.9	7.3	246	18.7	.08	.70	.06	.01	.02	.03	17
DEC													
19 JAN	1020	66.72	5.1	7.0	243	17.5	<.010	.80	.07	<.01	<.01	.02	13
17	1243	66.75	9.2	7.3	257	15.7	<.01	.6	.05	<.01	<.01	.02	12
FEB													
15	1320	66.60	7.3	7.2	245	21.7	.03	.7	.03	<.01	<.01	<.02	11
MAR 21	1329	66.82	6.5	7.3	244	21.1	.014	.62	<.02	<.01	.01	.02	9.6
APR													
09	1309	66.27	3.2	6.2	270	23.0	.042	1.5	.08	<.01	.04	.05	31
JUN													
07	1010	67.97	5.7	7.3	243	29.0	<.010	.49	<.02	<.01	<.01	<.02	7.6
JUL													
03	1230		2.7	6.8	240 201	29.3	.022	.90	<.02	<.01	<.01	<.02	19
31	1300		.7	6.2	20⊥	27.6	.042	1.8	<.02	<.01	.04	.05	30
SEP 19	0900	70.09	.3	6.6	143	24.4	.16	1.7	.04	<.01	.07	.08	40
±2	0,000	, 0.00		0.0	113	21.7	.10	± • /	.01	OI	.07	.00	10

DATE	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT	
24	3.0
NOV 21	4.5
DEC	4.5
19	12
JAN	
17 FEB	8.2
15	<.1
MAR	
21	7.1
APR 09	6.4
υ9	6.4
07	5.7
JUL	
03	6.0
31 SEP	<.1
19	<.1

< -- Less than

02264495 SHINGLE CREEK AT CAMPBELL, FL

LOCATION.--Lat $28^{\circ}16^{\circ}01^{\circ}$, long $81^{\circ}26^{\circ}53^{\circ}$, in $SE^{1/4}_{4}$ sec.31, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, near left bank on downstream side of bridge on County Road, 100 ft downstream from CSX railroad bridge, 0.8 mi northeast of Campbell, and 2.5 mi upstream from Lake Tohopekaliga.

DRAINAGE AREA.--180 mi^2 , approximately, includes part of watershed in Reedy Creek Swamp.

PERIOD OF RECORD. -- October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Water-stage recorder on Lake Tohopekaliga at Kissimmee used as auxiliary gage for this station.

REMARKS.--Records poor. Natural flow of stream affected by several canals, levees, and control structures which divert an undetermined amount of water into Shingle Creek above station or into the Reedy Creek basin.

		DISCHARG	E, CUBIC	FEET PER		VATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	79 70 70 70 68	23 22 21 20 19	17 16 17 17 16	17 17 18 17 16	22 24 25 25 25	22 21 17 18 22	250 266 289 287 270	59 55 57 57 55	46 43 41 40 38	e179 e163 e150 e139 e133	285 362 454 551 586	202 283 378 340 309
6 7 8 9 10	65 63 67 56	18 17 17 17 16	16 16 15 15	16 17 17 19	25 25 25 24 25	24 23 22 21 23	256 200 176 163 148	53 53 52 48 45	36 40 53 78 95	e132 e150 e195 e250 e269	593 577 538 490 493	553 935 911 999 1040
11 12 13 14 15	53 51 48 47 44	18 17 16 15 17	15 16 16 16 16	18 18 19 20 20	26 26 26 26 25	22 20 18 22 18	125 105 85 80 72	43 41 40 39 37	137 180 185 158 e126	e285 e310 e340 e460 e550	499 450 391 361 347	1100 1090 1040 1250 1370
16 17 18 19 20	41 39 38 37 36	16 15 17 15 17	15 15 16 15	20 20 20 19 21	23 24 26 26 24	18 21 22 21 21	72 68 72 62 59	33 36 34 33 31	e110 e94 e90 e135 e172	e650 e660 e650 e680 e710	345 358 355 364 352	1350 1300 1230 1140 1040
21 22 23 24 25	35 35 35 34 32	16 16 16 15 14	15 16 16 16 17	22 21 22 20 21	24 23 25 24 23	25 29 34 36 36	60 60 57 55 55	29 28 30 33 35	e221 e285 e330 e332 e300	e770 e775 e770 e660 e550	337 338 346 332 294	939 849 801 757 673
26 27 28 29 30 31	30 29 26 25 26 25	16 17 17 17 17	16 15 15 17 16 17	21 21 21 21 19 21	23 23 22 	39 41 42 62 222 217	64 59 56 59 61	32 31 34 41 45 48	e276 e253 e230 e212 e195	e470 e400 e350 e320 e300 e290	250 213 187 168 179 240	592 524 478 420 378
TOTAL MEAN MAX MIN	1437 46.4 79 25	514 17.1 23 14	491 15.8 17 15	598 19.3 22 16	684 24.4 26 22	1199 38.7 222 17	3691 123 289 55	1287 41.5 59 28	4531 151 332 36	12710 410 775 132	11635 375 593 168	24271 809 1370 202
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER Y	EARS 1969	- 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	192 564 1970 18.4 1971	126 665 1988 10.5 1971	128 889 1998 8.39 1971	145 543 1998 14.0 1971	145 634 1998 24.4 2001	142 577 1998 19.7 2000	109 469 1987 4.89 2000	57.6 238 1991 11.7 2000	117 372 1982 14.5 1971	198 659 1991 13.7 1969	235 640 1995 54.5 1980	282 809 2001 36.9 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	F	OR 2001 WAT	TER YEAR		WATER YE	ARS 1969	- 2001
LOWEST ANNUAL SMAXIMUM MAXIMUM 10 PERCS 50 PERCS		AN AN N MINIMUM W GE DS		20879.0 57.0 344 3.5 4.3 144 32 5.8	Aug 3 Apr 24 Apr 22		63048 173 1370 14 15 1390 59.71 543 41 16	Sep 15 Nov 25 Dec 15 Sep 15 Sep 15		157 306 47.0 1980 3.1 3.4 *2070 *60.78 375 88 30	May May Apr	1998 1971 1 1987 9 1971 7 1971 1 1987 1 1987

e Estimated * Maximum stage observed and discharge measured

02266025 REEDY CREEK AT S-46 NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}24^{\circ}18^{\circ}$, long $81^{\circ}36^{\circ}42^{\circ}$, in NE_{4}^{1} sec.16, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, on right upstream wingwall of control structure 46, 6.6 mi west of Vineland.

DRAINAGE AREA.--25.4 mi².

PERIOD OF RECORD.--June 1969 to September 1972 (gage heights only). October 1986 to current year.

REVISED RECORDS. -- WDR FL-97-1: Drainage area.

GAGE.--Water-stage and gate-opening recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark). Auxiliary gage at downstream side of control structure 46.

REMARKS.--Records fair. Flow regulated by operation of structure 46. At high stages interconnection exists between Reedy Creek, Whittenhorse Creek, and Boggy Creek.

		DISCHARG	E, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBER	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .22 .37 e.52 e.30	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.75 .39 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.1 1.8 1.8 1.9	2.1 3.0 2.6 2.5 2.9
6 7 8 9	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .21 .00	1.9 1.5 1.6 2.3 2.5	4.3 2.4 2.1 2.3 2.3
11 12 13 14 15	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.0 1.9 1.8 1.7	2.3 2.0 2.3 3.8 3.8
16 17 18 19 20	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .02 .00	1.8 1.9 2.7 3.2 3.0	3.5 3.4 3.3 3.3 3.2
21 22 23 24 25	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.64 .53 .70 .89	2.8 2.9 2.7 2.8 2.9	3.3 3.1 3.4 3.5 3.5
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.65 .74 .76 .69 .64	2.7 2.8 1.6 .77 1.2 1.3	3.5 3.5 3.6 3.8
TOTAL MEAN MAX MIN	1.41 .045 .52 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	2.00 .065 1.1 .00	1.14 .038 .75 .00	0.00 .000 .00	0.00 .000 .00	8.45 .27 1.0 .00	64.27 2.07 3.2 .77	92.1 3.07 4.3 2.0
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER YE	EARS 1987	- 2001,	BY WATER Y	EAR (WY)				
MEAN MAX (WY) MIN (WY)	2.79 10.2 1997 .000 1987	2.94 10.8 1995 .000 1987	2.59 20.6 1998 .000 1987	4.09 49.2 1998 .000 1987	4.51 54.0 1998 .000 1987	5.02 52.8 1998 .000 1990	2.42 17.8 1998 .000 1989	.97 8.04 1998 .000 1989	.73 4.19 1998 .000 1989	1.87 9.12 1997 .000 1990	3.04 11.6 1997 .000 1989	3.25 9.56 1993 .000 1989
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	F	OR 2001 WAT	ER YEAR		WATER Y	EARS 1987	- 2001
LOWEST A HIGHEST LOWEST I ANNUAL S MAXIMUM 10 PERCI 50 PERCI		AN AN N MINIMUM GE DS DS			Feb 3 Many da Mar 11		169.37 .46 4.3 .00 .00 96.15 2.3 .00		ys	2.84 19.0 .09 e115 .00 .00 .96.55 5.9 .14	91 Feb 1) Man) Man 1 Mar 3	1998 1990 7 1998 y days y days 1 1987

e Estimated

02266200 WHITTENHORSE CREEK NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}23^{\circ}05^{\circ}$, long $81^{\circ}37^{\circ}00^{\circ}$, in NW^{1}_{4} sec.21, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, near center of channel, 12 ft downstream from culverts on Hartzog Road, and 7 mi west of Vineland.

DRAINAGE AREA.--12.4 mi².

PERIOD OF RECORD. -- May 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.23 ft above sea level.

REMARKS.--Records good.

	5	DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.2 1.4 1.4 1.4
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.02 .27 .35 .40 .45	2.0 2.9 3.0 3.1 3.7
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.56 .56 .57 .53	4.5 4.6 4.9 15 25
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.52 .54 .91 1.6 1.5	27 26 25 22 21
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.7 1.9 1.9 1.8 1.7	20 19 18 17 17
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.7 1.5 1.4 1.3 1.1	16 15 14 14 13
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	26.41 .85 1.9 .00 .07	359.6 12.0 27 1.2 .97 1.08
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1966	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	6.72 38.3 1996 .000 1979	3.80 16.0 1988 .000 1968	4.33 45.1 1998 .000 1968	4.90 45.9 1998 .000 1968	4.94 37.5 1998 .000 1968	5.39 43.0 1998 .000 1968	3.52 23.0 1987 .000 1968	1.14 11.9 1991 .000 1967	1.70 20.2 1991 .000 1967	4.90 31.6 1991 .000 1967	6.88 38.0 1995 .000 1973	7.22 28.1 1995 .000 1980
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1966	- 2001
LOWEST DAILY MEAN .00				Jan 1 Many day Mar 1	ys	386.01 1.06 27 .00 .00 27 94.65 .08 1.16 1.4	Sep 16 Many da Oct 1 Sep 15, Sep 15,	nys 16 16	4.6 17.2 .0 96 .0 .0 97 95.1 .3 5.0 14	Dec 2 0 Mar 0 Mar Dec 2 7 Dec 2 7	1998 1981 29 1997 ny days ny days 29 1997 29 1997	

02266200 WHITTENHORSE CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-73, 1977, 1979-80, 1982-98, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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)
AUG 29	1350	93.68	1.2	400	1.6	. 4	5.4	351	26.9	120	25	13	14
SEP 17	1400	94.63	26			. 4	6.2	301	24.7				
DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
AUG 29	18	8.9	28	<.1	110		7.1	1.8		<.02		<.01	
SEP 17						.77	3.2		<.02		<.01		.12
DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)
AUG 29 SEP	.05	.08	56		331	2.2	<1.0	<1.0	<1.0	<1.0	762	<1.0	49
17		.16	43	<.1									
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	CARBO- PHENO- THION WATER UNFLTRD (UG/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	DI- AZINON, TOTAL (UG/L) (39570)	DI- ELDRIN TOTAL (UG/L) (39380)	DISUL- FOTON UNFILT RECOVER (UG/L) (39011)	ENDO- SULFAN I TOTAL (UG/L) (39388)
AUG 29	<.1	1.0	<1.0	<2.0	<.01	<.02	<.1	<.01	<.02	<.02	<.006	<.03	<.01
DATE	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	MALA- THION, TOTAL (UG/L) (39530)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)
29	<.01	<.01	<.007	<.009	<.01	<.006	<.03	<.01	<.01	<.006	<.007	<.006	<.009

< -- Less than

02266200 WHITTENHORSE CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PARA- THION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PHORATE TOTAL (UG/L) (39023)	TOX- APHENE, TOTAL (UG/L) (39400)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG 29	<.01	<.1	<.02	<1	<.2	<3	<.2	<.2	<.2	<.2	<.2	<.2	<2.5
	D∄	ATE	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	BI- PHENYL, NONA- CHLORO- SUR SCD 1325 PERCENT (90575)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	PCB, TOTAL IN BOT- TOM MA-	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)				
	SEI	? 29	<.2	80	<.5	<.2	<.5	<5	<50				

< -- Less than

02266205 WHITTENHORSE CREEK AT S-411, NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}23^{\circ}34^{\circ}$, long $81^{\circ}36^{\circ}40^{\circ}$, in $SE^{1/4}_{4}$ sec.16, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, on upstream side of control structure S-411, 0.2 mi upstream from mouth, and 6.6 mi west of Vineland.

DRAINAGE AREA. -- 13 mi², approximately.

PERIOD OF RECORD. -- October 1986 to current year.

GAGE.--Water-stage and gate-opening recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark).

Auxiliary water-stage recorder at downstream side of control structure.

REMARKS.--Records fair. Flow regulated by operation of structure 411. At high stages interconnection exists between Reedy Creek, Whittenhorse Creek, and Boggy Creek.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY NOV JAN FEB AUG .00 .00 . 01 .00 .00 3.5 .00 .00 .00 3.0 . 98 . 54 2.7 .31 1.7 .00 .00 .30 .00 .00 .00 .00 .00 3.6 3 49 0.0 0.0 45 .00 0.0 0.0 0.0 0.0 3.3 4 .84 .00 .00 .49 .00 .00 2.0 .00 .00 .00 3.1 .75 .43 .00 .63 .00 .00 1.8 .00 6 .08 .00 .00 .84 .00 .00 .00 .00 1.6 .00 3.1 3.4 .00 .70 .00 .00 .00 3.4 3.7 .00 .00 .00 .00 .72 8 0.0 0.0 0.0 1 4 0.0 0.0 0.0 0.0 1 8 3 2 3 3 .32 .00 .00 .00 .00 1.5 .00 .00 .00 1.8 3.0 2.8 10 .00 1.3 .00 1.5 3.5 3.1 .00 .00 .00 .00 .00 .00 11 .00 .00 .00 1.3 .00 .00 .00 .00 .00 .94 3.6 3.8 1.0 2.7 12 .00 .00 .00 1.3 .00 .00 .00 .00 .00 3.8 13 1.2 .00 .00 .00 .00 .00 .00 .00 .00 4.4 14 .00 .00 .00 .00 .00 .00 .00 .00 .86 2.1 15 .00 .00 .00 1.4 .00 .00 .00 .00 .00 .44 1.8 4.9 .00 16 .00 .00 .00 1.4 .00 .00 .00 .00 .48 1.4 3.4 .00 1.4 .39 1.2 3.3 17 .00 .00 .00 .00 .00 .00 .00 18 .00 .00 .00 .00 .00 .00 .00 19 .00 .00 .00 .00 .00 .00 .00 .00 1.2 3.3 3.6 20 .00 0.0 .00 1 4 .00 .00 .00 0.0 .00 .87 2.7 3.6 21 .00 .00 .00 .00 .00 .00 .00 .00 .64 3.3 3.5 .45 1.8 3.4 3.4 4.1 22 .00 .00 .00 .00 .00 .00 .00 .00 23 .00 .00 .00 .00 .00 .60 .00 .00 .00 .00 .00 .00 .00 .00 2.4 25 .00 .00 .00 .00 .00 2.2 .00 .00 .00 .59 2.3 3.9 26 .00 .00 .00 .00 .00 2.3 .00 .00 .00 3.8 27 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 25 1.6 3 9 28 .00 .00 .01 .00 .00 .94 3.8 .00 .00 .00 .00 .00 29 .00 .00 .00 .00 2.8 .00 .00 .00 .00 .00 3.9 ___ 30 0.0 .00 0.0 0.0 4 8 0.0 0.0 .00 0.0 0.0 3 9 31 .00 .00 .00 4.0 .00 1.2 .00 TOTAL. 2 69 0 00 0.01 22 49 0 00 20.20 16 14 0.00 0 00 21 74 74 64 102 43 .70 .087 .000 .000 .73 1.5 .000 .000 .000 MEAN .65 .54 2.41 3.41 7.7 MAX .84 .00 .01 .00 4.8 3.5 .00 .00 3.6 MIN .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY) MEAN 9.48 5.36 5.02 8.83 3.95 5.64 2.15 .71 1.38 3.10 5.97 4.46 MAX 66.1 22.2 1995 23.5 1995 71.8 23.4 25.5 1998 8.87 2.55 8.97 26.6 59 3 27.6 1995 1996 1995 1991 (WY) 1996 1998 1987 1991 1995 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 MIN .000 (WY) 1998 1990 1990 1997 2001 1997 1997 1996 1996 1996 1996 1996 SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1987 - 2001 ANNUAL TOTAL 355.95 260.34 ANNUAL MEAN .97 4.69 HIGHEST ANNUAL MEAN 17.9 1995 LOWEST ANNUAL MEAN .21 1990 131 Aug 25 1995 HIGHEST DAILY MEAN 7.1 Feb 10 7.7 Sep 14 .00 Many days Mar 26 .00 Many days LOWEST DATLY MEAN .00 Many days ANNUAL SEVEN-DAY MINIMUM Many days ar 3 1993 .00 .00 Oct MAXIMIM PEAK STAGE 96 59 Sep 16 97.21 Mar 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 4.9 3.1 13 .90 .00 .00 .00 90 PERCENT EXCEEDS .00 .00

02266291 LATERAL 405 AT S-405A, NEAR DOCTOR PHILLIPS, FL

LOCATION.--Lat $28^{\circ}25'37"$, long $81^{\circ}36'19"$ in SW^{1}_{4} sec.3, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, on right upstream wingwall of control structure S-405A, 200 ft upstream from Lateral 407, and 6.4 mi west of Doctor Phillips.

DRAINAGE AREA.--19.6 mi².

PERIOD OF RECORD.--June 1969 to September 1972 (gage heights and periodic discharge measurements only), October 1986 to current year.

REVISED RECORDS.--WDR FL-96-1: Drainage area.

GAGE.--Water-stage and gate-opening recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark). Auxiliary water-stage recorder at downstream side of control structure.

REMARKS.--Records good. Flow regulated by operation of structure 405A. Discharge computed from relation between discharge and gate openings and does not include leakage, which is less than $5.0~{\rm ft}^3/{\rm s}$, around structure or gates.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.58 .52 .50 .50	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.34 .26 .18 .10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 1.2 1.4	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	1.2 1.0 .84 .74 .63	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	7.01 .23 1.4 .00	3.42 .11 .58 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1987	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	4.63 14.2 1997 .000 1990	4.16 17.0 1998 .000 1990	9.58 104 1998 .000 1999	8.49 73.9 1998 .000 1999	8.65 85.0 1998 .000 2000	9.04 74.5 1998 .000 1999	6.67 29.5 1998 .000 1990	3.43 22.1 1991 .000 1990	3.07 28.0 1991 .000 1989	3.62 22.6 1991 .000 1989	2.62 17.1 1997 .000 1989	3.97 17.7 1994 .000 1989
SUMMARY	STATISTI	CS	FOR 2	2000 CALENI	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1987	- 2001
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC	UMMARY STATISTICS NNUAL TOTAL NNUAL MEAN IGHEST ANNUAL MEAN OMEST ANNUAL MEAN OMEST DAILY MEAN OWEST DAILY MEAN NOWEST DAILY MEAN NOWEST DAILY MEAN OWEST DAILY SEVEN-DAY MINIMUM AXIMUM PEAK STAGE 0 PERCENT EXCEEDS 0 PERCENT EXCEEDS 0 PERCENT EXCEEDS			199.59 .55 29 .00 .00	Mar 23 Many da Jan 1	ys	10.43 .029 1.4 .00 .00 96.08 .00 .00	Apr 25 Many da Oct 1	ıys	5.65 32.7 .02 e200 .00 .00 96.57 12 1.5	Dec 2 Mar Mar Dec 2	1998 2001 27 1997 ny days ny days 17 1997

e Estimated

02266294 LATERAL 405 BELOW S-405, NEAR VINELAND, FL

WATER-QUALITY RECORDS

LOCATION.--Lat $28^{\circ}23^{\circ}39^{\circ}$, long $81^{\circ}35^{\circ}07^{\circ}$, in $SW^{\frac{1}{2}}_{4}$ sec.14, T. 24 S., R. 27 E., Orange County, Hydrologic Unit 03090101, at downstream side of structure S-405 on Bear Island Road, 1.7 mi south of Walt Disney World's Magic Kingdom, and 6 mi southwest of Windermere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--Water years 1971-72, 1975-77, 1979-94, 1996 to current year.

			WAIDK	QUADITI D	MIM, WAIL	IC IEARC OC	TODER ZUC	O IO DEFI	EMDER 200	-			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
AUG 30	1030	272	6.7	28.9	1.2	200	1.9	.35	<.01	2.0	<.02	.120	26
DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	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)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
AUG 30	.090	73	21.0	5.00	21.0	6.10	42	16.0	40.0	<.1	8	<1.00	190
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DISUL- FOTON UNFILT RECOVER (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)
AUG 30	<1.00	1	3.5	330	<1	23	<1	<2	<1.0	<.10	<.01	<.03	<.02
DATE	DEF TOTAL (UG/L) (39040)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)
AUG 30	<.02	<.013	<.006	.3	<.2	<.1	3	<.007	<.5	<.006	<.2	<.009	<.5
DATE	DI- ELDRIN TOTAL (UG/L) (39380)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN I TOTAL (UG/L) (39388)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN WATER UNFLITED REC (UG/L) (39390)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)
AUG 30	<.006	2.9	<.015	<.2	<.014	<.2	<.01	<1	<50	<.014	<.2	<.009	<.2
DATE	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL (UG/L) (39516)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	CARBO- PHENO- THION WATER UNFLTRD (UG/L) (39786)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	BI- PHENYL, NONA- CHLORO- SUR SCD 1325 PERCENT (90575)
AUG 30	<.01	<2	<.1	<5	.08	<.01	<.02	<.01	<.01	<.2	<.02	<.01	35.0

< -- Less than

02266295 LATERAL 410 AT S-410, NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}21^{\circ}58^{\circ}$, long $81^{\circ}35^{\circ}55^{\circ}$ in $SE^{\frac{1}{4}}$ sec.27, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, at upstream side of control structure S-410, 0.5 mi west of sewage treatment plant road, 3.0 mi southwest of EPCOT Center, and 6.2 mi southwest of Vineland.

DRAINAGE AREA. -- 7.53 mi².

PERIOD OF RECORD. -- October 1986 to current year.

REVISED RECORDS.--WDR FL-96-1: Drainage area.

GAGE.--Water-stage and gate-opening recorder. Datum of gage is at sea level. Auxilliary gage at downstream side of control structure 410.

REMARKS.--Records good. Flow regulated by operation of structure 410. Discharge computed from relation between discharge and gate openings and does not include leakage, which is less than 5.0 ft³/s, around structure or gates. At high stages interconnection exists between Reedy Creek, Whittenhorse Creek, and Boggy Creek.

		DISCHARG	E, CUBIC	FEET PER		WATER Y MEAN V	TEAR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	12 22 21 15 14
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	12 12 10 10
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	10 10 10 10 10
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	194.80 6.49 22 .00
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER Y	EARS 1987	- 2001	, BY WATER Y	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	5.10 23.5 1993 .000 1987	4.40 24.7 1988 .000 1987	5.90 18.9 1989 .000 1987	3.24 14.1 1993 .000 1987	2.84 10.4 1993 .000 1987	5.23 23.4 1993 .000 1999	5.06 19.8 1993 .000 1999	2.34 11.2 1991 .000 1999	2.71 19.3 1991 .000 1998	5.43 26.2 1991 .000 1998	6.48 31.4 1997 .000 1998	7.14 15.9 1994 .000 1999
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR		FOR 2001 WAT	TER YEAR		WATER YEA	RS 1987	7 - 2001
LOWEST ANNUAL ANNUAL MAXIMUM 10 PERCE 50 PERCE		AN AN N MINIMUM GE DS DS			Many da Jan 1		194.80 .53 22 .00 .00 96.49 .00 .00	Sep 17 Many da Oct 1 Sep 16	ays	4.67 12.4 .14 114 .00 .00 97.26 15 2.0	Apr Ma Ma Oct	1993 2000 1 1987 any days any days 12 1995

e Estimated

282135081345500 LATERAL 405 BELOW L410 NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}21^{\circ}35^{\circ}$, long $81^{\circ}34^{\circ}55^{\circ}$, in $SW^{1/4}_{4}$ sec. 23, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, in center of stream, 3.5 mi south of Walt Disney World Magic Kingdom, and 5.0 mi southwest of Vineland, and 3 mi upstream from mouth.

PERIOD OF RECORD.--Water years 1974-77, 1979-94, 1997 to current year.

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG 30	1200	320	2.2	.5	296	28.1	88	24	6.8	4.9	22	29	40
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
AUG 30	<.1	33	2.9	.45	.21	.01	.18	.22	51	604	5.6	<1.0	<1.0
DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	CARBO-PHENO-THION WATER UNFLTRD (UG/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)
AUG 30	1.2	2.0	547	<1.0	23	<.1	<1.0	<1.0	2.5	<.01	<.02	<.1	<.01
DATE	DEF TOTAL (UG/L) (39040)	DI- AZINON, TOTAL (UG/L) (39570)	DI- ELDRIN TOTAL (UG/L) (39380)	DISUL- FOTON UNFILT RECOVER (UG/L) (39011)	ENDO- SULFAN I TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	MALA- THION, TOTAL (UG/L) (39530)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)
AUG 30	<.02	<.02	<.006	<.03	<.01	<.01	<.01	<.007	<.009	<.01	<.006	E.02	<.01
DATE	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)	PARA- THION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PHORATE TOTAL (UG/L) (39023)	TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)
AUG 30	<.01	<.006	<.007	<.006	<.009	<.01	<.1	<.02	<1	<.2	7	<.2	<.2
DATE	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	BI- PHENYL, NONA- CHLORO- SUR SCD 1325 PERCENT (90575)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER- IN BOT- TOM MA- TERIAL (UG/KG) (39373)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	
AUG 30	<.2	<.2	<.2	<.2	<2.5	<.2	47	<.5	. 4	<.5	<5	<50	

< -- Less than E -- Estimated value

02266298 REEDY CREEK ABOVE U.S. HIGHWAY 192 NEAR VINELAND, FL

WATER-OUALITY RECORDS

LOCATION.--Lat $28^{\circ}20^{\circ}54^{\circ}$, long $81^{\circ}34^{\circ}53^{\circ}$, in SE_{4}^{1} sec.35, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, on right bank, 1.2 mi above State Highway 192, 5.8 mi southwest of Vineland, and 29 mi upstream from mouth.

PERIOD OF RECORD. -- Water years 1983, 1986 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: November 1982 to current year. WATER TEMPERATURE: November 1982 to current year. DISSOLVED OXYGEN: November 1982 to current year.

INSTRUMENTATION. -- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 766 µS/cm @ 25 °C, Dec. 9, 2000; minimum daily mean, 77 µS/cm @ 25 °C, Aug. 25,

WATER TEMPERATURE: Maximum daily mean, 29.4 $^{\circ}$ C, July 23, 1996, June 24, 1998; minimum daily mean, 4.4 $^{\circ}$ C, Dec. 24, 1989. DISSOLVED OXYGEN: Maximum daily mean, 11.1 mg/L, Jan. 5, 2001; minimum daily mean, 0.4 mg/L, July 15, 1987.

EXTREMES FOR CURRENT YEAR.-- SPECIFIC CONDUCTANCE: Maximum daily mean, 766 μ S/cm @ 25 °C, Dec. 9; minimum daily mean, 180 μ S/cm @ 25 °C, Aug. 1. WATER TEMPERATURE: Maximum daily mean, 27.7 °C, July 30; minimum daily mean, 8.1 °C, Jan. 1. DISSOLVED OXYGEN: Maximum daily mean, 11.1 mg/L, Jan. 5; minimum daily mean, 0.9 mg/L, May 15, 18-21, 2001.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	301	268	260	380	351	264	343	323	283	180	279
2	234	305	270	258	322	358	272	353	336	289	191	275
3	236	310	275	259	296	354	278	363	319	299	212	277
4	240	317	282	253	294	325	285	376	344	306	201	281
5	243	324	290	249	287	303	287	373	398	299	206	270
6	246	333	300	245	290	293	288	362	369	298	210	234
7	248	336	315	243	290	288	287	378	393	286	224	225
8	249	339	325	240	287	283	289	384	385	268	233	222
9	250	339	766	258	284	278	293	386	324	246	248	214
10	250	339	672	250	284	275	298	381	305	247	276	215
11 12 13 14 15	254 256 258 259 259	335 342 337 333 330	432 295 327 316 291	242 247 255 258 253	284 286 287 288 289	278 281 280 285 299	300 302 304 305 306	379 379 376 377 376	289 282 284 280 285	 	244 252 245 237 242	216 215 194 188 182
16 17 18 19 20	260 261 263 265 264	336 333 311 295 290	299 302 322 324 354	266 285 309 326 330	296 312 318 316 328	321 332 354 337 307	306 301 301 305 298	362 370 378 384 388	289 278 272 268 269	259 254 224 233	241 246 236 218 229	203 209 211 211 213
21	271	289	367	358	337	284	295	392	268	245	196	218
22	275	291	328	377	345	276	303	390	270	243	200	221
23	280	301	382	380	348	273	312	384	264	242	217	218
24	285	318	601	402	347	271	324	424	260	249	234	213
25	289	314	361	408	340	271	336	425	258	247	245	214
26 27 28 29 30 31	292 294 295 294 295 298	299 287 267 262 264	342 348 340 302 281 266	403 413 397 387 396 381	352 359 365 	270 274 274 253 267 265	347 364 351 335 335	422 422 381 364 343 336	266 273 277 271 279	249 259 262 263 266 252	252 259 263 265 275 278	220 224 223 223 226
MEAN	264	313	353	309	315	295	306	379	299	263	234	224
MAX	298	342	766	413	380	358	364	425	398	306	278	281
MIN	229	262	266	240	284	253	264	336	258	224	180	182

CAL YR 2000 MEAN 301 MAX 766 MIN 226 WTR YR 2001 MEAN 297 MAX 766 MIN 180

02266298 REEDY CREEK ABOVE U.S. HIGHWAY 192 NEAR VINELAND, FL--Continued

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAIL	Y MEAN VAI	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24.5 24.3 24.6 24.9 25.4	20.1 19.6 19.5 19.4 19.9	15.0 15.9 15.7 13.5 13.7	8.1 9.1 9.3 9.0 8.4	18.9 17.3 14.6 14.5 15.2	21.4 21.6 21.6 20.9 18.0	19.5 19.0 19.5 20.4 20.9	20.3 20.5 20.2 20.2 20.5	23.1 23.6 24.0 24.0 24.5	25.9 26.6 27.0 26.9 25.4	24.6 24.1 24.4 24.4 24.8	27.5 27.2 27.4 27.5 27.1
6 7 8 9 10	25.8 25.7 24.8 21.5 19.7	20.7 21.0 21.5 21.6 21.9	12.7 14.0 15.5 17.8 18.4	10.4 10.1 12.2 11.8 9.6	13.5 14.8 16.4 17.6 18.9	15.4 14.4 14.7 15.4 17.4	20.9 21.3 22.0 22.6 23.0	20.7 20.6 20.6 20.3 20.4	24.4 24.1 24.0 24.9 25.2	25.2 25.5 25.1 24.9 25.8	25.2 25.6 26.4 26.2 25.9	26.0 25.5 25.3 25.2 25.3
11 12 13 14 15	20.5 21.2 21.4 21.7 21.6	18.9 18.3 18.6 19.7 16.8	19.4 19.7 20.1 20.4 20.9	11.3 13.4 12.9 14.3 15.9	19.9 20.4 20.5 21.1 21.0	18.2 19.4 21.2 20.3 20.6	23.3 24.0 24.5 25.0 25.2	20.3 20.3 20.9 21.7 22.5	25.0 25.3 25.5 24.2 23.7	 	26.2 26.3 26.6 26.7 26.8	25.5 25.4 24.6 24.2 23.4
16 17 18 19 20	20.5 20.2 20.7 20.7 21.7	16.3 19.2 19.1 19.7 17.4	20.7 19.4 14.2 12.9 9.9	16.6 17.8 18.7 18.6 17.5	20.8 20.3 18.4 17.7 18.5	21.5 20.5 18.1 18.5 19.1	24.7 22.7 19.7 18.8 19.4	22.8 22.9 22.5 22.1	23.9 24.5 24.5 24.3 24.7	26.2 25.9 26.1 26.4	26.8 27.1 26.8 26.1 26.7	22.9 23.4 23.9 24.5 24.9
21 22 23 24 25	21.7 21.3 21.8 22.1 22.1	13.8 12.2 12.6 14.6 18.5	10.0 12.4 12.7 15.0 14.1	11.5 11.5 12.3 11.7 11.7	19.5 19.4 19.6 19.9 21.2	16.4 16.0 17.0 18.1 18.6	19.9 20.7 21.5 22.0 21.5	22.7 24.2 24.4 24.0 23.1	25.1 24.0 23.5 23.7 24.4	26.0 26.0 26.0 25.6 26.4	25.7 25.7 26.2 26.5 26.6	25.2 25.3 25.2 25.3 25.3
26 27 28 29 30 31	22.0 21.5 20.6 20.9 21.5 21.2	18.8 16.4 15.0 15.4 15.4	14.5 15.2 16.3 14.0 10.9 8.4	11.5 12.3 13.6 15.2 17.3 19.1	22.0 22.0 22.0 	18.4 17.4 17.7 18.4 18.8 20.1	20.4 18.7 19.0 19.4 19.7	23.3 23.3 22.8 23.1 24.0 24.0	25.4 25.5 25.1 25.2 25.4	26.1 26.2 26.4 27.0 27.7 26.6	26.8 26.4 26.7 27.0 27.4 27.4	25.0 24.6 24.5 23.9 23.0
MEAN MAX MIN	22.2 25.8 19.7	18.1 21.9 12.2	15.3 20.9 8.4	13.0 19.1 8.1	18.8 22.0 13.5	18.6 21.6 14.4	21.3 25.2 18.7	22.0 24.4 20.2	24.5 25.5 23.1	26.1 27.7 24.9	26.1 27.4 24.1	25.1 27.5 22.9

CAL YR 2000 MEAN 21.4 MAX 27.0 MIN 8.4 WTR YR 2001 MEAN 20.8 MAX 27.7 MIN 8.1

	OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	4.5 4.7 4.7 4.8 4.6	5.8 5.9 6.0 5.9	8.0 7.5 7.3 7.9 7.4	10.9 10.6 10.7 10.7	4.1 5.1 6.3 6.6 6.7	3.0 2.8 2.5 3.4 5.5	4.2 4.9 5.3 5.4 5.5	5.1 5.1 5.1 5.7 5.2	4.9 5.2 5.6 5.1 5.2	5.4 5.3 5.3 5.4 5.5	3.7 3.7 3.7 3.5 3.3	3.4 3.1 2.9 2.9 3.2		
6 7 8 9 10	4.5 4.5 4.7 5.2 5.6	5.6 5.6 5.3 4.3 4.1	7.3 6.5 5.4 4.9 3.9	10.2 10.3 9.2 8.9 10.2	7.4 7.2 6.8 6.3 5.9	6.8 7.4 7.4 7.2 6.4	5.5 5.6 5.4 5.2 5.1	4.6 3.7 3.1 2.9 2.3	5.5 5.3 4.8 5.1 5.3	5.3 5.6 5.6 3.8 3.3	3.3 3.1 2.9 2.9 3.1	3.4 3.1 3.3 3.0 3.1		
11 12 13 14 15	5.5 5.3 5.4 5.5 5.5	5.2 5.5 5.7 5.2 6.3	2.8 2.3 4.0 4.2 3.7	9.7 8.8 8.6 8.2 7.4	5.6 5.3 5.2 5.1 4.9	6.2 6.0 5.1 5.6 4.8	5.0 4.7 4.8 4.8 4.7	2.0 1.9 1.5 1.2	5.5 5.5 5.6 5.4 4.8	 	3.3 3.0 2.7 2.7 2.8	3.3 3.0 3.7 4.5 3.7		
16 17 18 19 20	5.7 5.8 5.7 5.6 5.4	6.6 5.3 6.0 6.0	3.3 3.5 5.7 6.3 7.6	6.6 5.7 5.0 3.9 4.6	4.7 4.2 5.2 5.2 4.8	3.1 2.6 2.4 4.1 5.5	4.9 5.4 6.1 6.5	1.3 1.3 .9 .9	4.5 5.0 5.2 4.9 5.0	4.5 4.4 3.6 3.5	3.0 3.0 3.2 2.8 2.9	3.7 3.6 3.5 3.2 3.1		
21 22 23 24 25	5.1 5.3 5.3 5.1 5.0	7.7 8.3 8.0 6.6 4.1	7.9 7.3 7.2 6.4 7.0	6.7 6.6 6.4 6.4	4.1 4.2 4.0 4.2 3.8	6.8 7.5 7.3 7.0 6.9	6.2 5.7 5.1 4.2 3.6	.9 1.0 1.9 2.2 2.0	5.2 5.3 5.3 5.3	3.8 3.8 3.9 4.0 4.1	3.5 3.2 2.9 3.0 3.2	3.1 3.1 3.0 3.0 3.0		
26 27 28 29 30 31	5.0 5.3 5.7 5.7 5.6 5.6	4.4 6.5 7.9 8.0 7.9	7.0 6.7 5.8 6.6 8.7 10.3	6.4 6.4 5.9 5.3 4.6 4.0	3.4 3.2 3.4 	6.9 6.9 6.7 6.3 4.8 3.9	3.8 4.2 5.0 4.9 4.8	1.5 1.3 2.4 5.0 5.1 5.3	5.4 5.4 5.5 5.5	4.1 4.1 4.2 4.2 4.2 4.5	3.3 3.3 3.2 3.3 3.3	3.0 3.1 3.0 3.1 3.3		
MEAN MAX MIN	5.2 5.8 4.5	6.1 8.3 4.1	6.1 10.3 2.3	7.6 11.1 3.9	5.1 7.4 3.2	5.4 7.5 2.4	5.1 6.5 3.6	2.7 5.7 .9	5.2 5.6 4.5	4.5 5.6 3.3	3.2 3.7 2.7	3.2 4.5 2.9		

CAL YR 2000 MEAN 5.2 MAX 10.3 MIN 2.0 WTR YR 2001 MEAN 5.0 MAX 11.1 MIN .9

02266300 REEDY CREEK NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}19^{\circ}57^{\circ}$, long $81^{\circ}34^{\circ}48^{\circ}$, in $NE^{1/4}_{4}$ sec.11, T.25 S., R.27 E., Osceola County, Hydrologic Unit 03090101, 100 ft downstream of bridge on U.S. Highway 192, about 2.5 mi upstream from bridge on Interstate Highway 4, 6.5 mi southwest of Vineland, and 28 mi upstream from mouth.

DRAINAGE AREA. -- 84.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1960, 1962-66 (annual maximum), May 1966 to current year.

REVISED RECORDS. -- WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 66.37 ft above sea level. Sept. 26, 1962, to January 1966, crest-stage gage at site 200 ft upstream at same datum. May 1966 to July 29, 1999 at site 100 ft upstream at same datum.

REMARKS.--Records good. Natural flow of stream affected by several canals, levees, and control structures.

		DISCHAR	RGE, CUBIC	FEET PER		, WATER YE LY MEAN VA	EAR OCTOBER ALUES	2000 TO	SEPTEMBI	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	27 22 18 18 17	3.0 2.2 1.9 1.5 1.4	3.1 2.5 2.1 1.8 1.5	5.0 6.1 6.9 7.6 7.6	1.6 2.0 2.4 2.4 2.8	.71 .68 .64 3.1 5.7	e84 e56 43 32 24	.41 .53 .51 .82	1.9 2.8 3.6 8.4 7.1	3.7 2.9 2.1 1.7 3.2	83 122 151 126 101	16 18 19 18 18
6 7 8 9 10	16 e13 11 10 9.1	1.4 1.4 1.3 1.3	1.3 1.2 1.1 2.5 2.5	7.6 7.7 8.5 10	2.9 2.6 2.4 2.3 2.3	5.0 5.2 4.8 4.2 3.9		.41 .31 .26 .23	5.7 6.5 11 15 13	7.7 8.6 11 105 202	80 73 79 71 55	33 59 63 70 71
11 12 13 14 15	8.2 7.6 7.2 6.9 6.5	1.4 1.3 1.3 1.5 1.6	1.9 4.6 5.0 5.7 4.9	10 10 9.6 7.7 7.1	2.2 2.0 1.9 1.8 1.8	3.4 2.9 2.7 2.9 1.9	9.8 8.6 7.9 7.2 6.5	.16 .13 .10 .07	11 7.5 4.5 8.4 20	100 59 55 53 68	175 180 115 82 58	111 93 93 419 693
16 17 18 19 20	6.1 5.7 5.5 5.4 5.3	1.4 1.3 1.7 2.0 1.9	4.2 4.4 4.2 3.6 3.5	5.8 4.8 3.9 3.5 3.5	1.5 1.3 1.2 1.1	1.1 .79 .67 1.9 5.3	5.9 5.9 5.9 5.3 4.2	.12 .10 .07 .05	30 20 16 17 16	49 36 36 77 94	46 40 38 65 61	384 242 194 153 120
21 22 23 24 25	5.4 6.0 5.3 4.7 4.5	1.7 1.3 1.1 .90 .85	3.3 2.9 3.0 4.8 4.0	3.3 2.6 2.3 2.2 2.1	.84 .77 .73 .73	4.8 5.9 5.4 4.4 3.5	3.1 1.8 1.3 .89 .57	.00 .05 .18 .13	11 8.8 10 11 10	61 55 50 42 34	71 120 78 52 39	98 88 85 116 100
26 27 28 29 30 31	4.4 4.3 4.1 3.9 3.9 3.8		3.3 3.0 3.6 4.6 4.6 4.6	2.0 1.8 1.5 1.3 1.3	.70 .69 .71 	3.1 2.7 2.2 13 70 e104	.49 .38 .36 .38 .35	.02 .00 1.0 3.4 2.4 1.8	7.0 5.5 5.3 4.6 4.3	33 29 25 20 17	32 27 24 21 19	74 60 56 52 49
TOTAL MEAN MAX MIN	275.8 8.90 27 3.8	57.75 1.92 5.0 .85		164.8 5.32 10 1.3	45.37 1.62 2.9 .69	276.49 8.92 104 .64	395.82 13.2 84 .35	14.19 .46 3.4 .00	302.9 10.1 30 1.9	1357.9 43.8 202 1.7	2301 74.2 180 17	3665 122 693 16
STATIST	rics of M	ONTHLY MEA	AN DATA FO	OR WATER Y	EARS 196	56 - 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	45.7 195 1996 3.58 1968	32.3 159 1988 .18 1968	36.2 339 1998 2.63 1968	39.3 257 1998 2.68 1968	39.0 278 1998 1.62 2001	40.5 271 1998 6.20 1968	26.1 109 1987 .079 1967	15.9 75.7 1991 .000 1967	29.5 108 1991 .000 1967	50.4 151 1991 8.86 1969	61.2 198 1995 14.3 2000	64.5 206 1994 7.45 1978
SUMMARY	Y STATIST	ICS	FOR 2	2000 CALEN	DAR YEAF	R I	FOR 2001 WA	TER YEAR		WATER YEA	RS 1966	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN 10 PERC 50 PERC	MEAN F ANNUAL M ANNUAL M F DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE EDS EDS		4115.08 11.2 54 .16 .47 25 8.4 1.1		5 2 3 3	8960.32 24.5 693 .00 .06 808 12.56 73 4.8	Sep 15 May 21 May 16 Sep 15 Sep 15	, 27	40.1 135 15.9 1110 .00 .00 *1910 14.90 90 22 6.2	Dec 2 Man Man Sep 1 Sep 1	1998 1971 18 1997 Ny days Ny days 1 1960 1 1960

e Estimated * From floodmark

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD.--Water years 1961-63, 1965-66, 1968-94, 1996 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: June 1977 to current year.

pH: June 1977 to June 1986. WATER TEMPERATURE: June 1977 to current year.

DISSOLVED OXYGEN: June 1977 to current year.

INSTRUMENTATION .-- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 823 µS/cm @ 25 °C, Dec. 10, 2000; minimum daily mean, 50 µS/cm @ 25 °C, Nov. 4, 1987.

pH: Maximum daily mean, 7.4 units, Jan. 5, 1980, June 8, 1986; minimum daily mean, 4.9 units, July 21, 1978. WATER TEMPERATURE: Maximum daily mean, 28.8 °C, Aug. 6, 1989; minimum daily mean, 5.5 °C, Dec. 24, 25, 1989. DISSOLVED OXYGEN: Maximum daily mean, 9.8 mg/L, Mar. 3, 1980; minimum daily mean, 0.1 mg/L, Sept. 5, 1979.

SPECIFIC CONDUCTANCE: Maximum daily mean, 823 µS/cm @ 25 °C, Dec. 10; minimum daily mean, 161 µS/cm @ 25 °C, Sept. 15. WATER TEMPERATURE: Maximum daily mean, 27.0 °C, July 30, Aug. 31, Sept. 1; minimum daily mean, 7.9 °C, Jan. 1. DISSOLVED OXYGEN: Maximum daily mean, 8.9 mg/L, Jan. 5; minimum daily mean, 0.8 mg/L, May 7.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	291	268	284	405	310	289	302	328	282	191	278
2	229	292	269	271	398	308	286	304	349	282	187	281
3	234	294	270	275	334	305	286	298	342	287	201	273
4	239	294	270	280	315	300	288	295	338	294	197	271
5	242	296	271	282	307	314	290	316	411	291	199	269
6 7 8 9 10	244 255 248 	300 304 308 309 309	279 279 281 465 823	281 271 262 286 283	314 325 324 318 312	299 289 285 280 276	291 288 288 291 295	321 318 308 300 295	388 403 411 348 320	322 311 284 284 245	206 215 220 235 251	237 226 226 219 217
11 12 13 14 15	 256 257 257	310 306 311 313 306	670 411 354 456 376	270 279 292 298 291	310 305 303 308 307	275 277 278 283 284	298 298 304 304 303	289 282 277 274 271	306 300 292 279 316	252 251 252 245 231	238 231 230 229 231	210 210 202 176 161
16	258	304	372	305	310	290	302	260	333	246	231	173
17	259	310	377	325	311	290	296	247	315	256	232	190
18	261	310	380	345	314	288	294	241	303	254	229	200
19	263	298	391	359	313	278	297	238	283	230	212	204
20	264	286	393	360	305	301	298	238	289	226	221	207
21	267	277	413	366	302	300	289	241	287	235	210	210
22	274	274	412	377	302	278	289	246	287	234	191	213
23	278	267	377	381	304	274	293	248	282	236	209	213
24	280	265	635	382	307	273	295	249	279	242	222	213
25	285	266	522	407	316	270	291	244	274	243	233	208
26 27 28 29 30 31	287 290 291 290 291 290	269 298 278 268 268	416 407 406 380 344 312	412 409 416 408 402 410	319 315 312 	267 265 264 257 255 270	283 278 271 281 293	241 241 239 360 373 351	277 276 288 277 277	243 252 256 260 261 253	242 248 256 259 270 275	209 213 216 216 217
MEAN	263	293	396	331	318	283	292	281	315	259	226	219
MAX	291	313	823	416	405	314	304	373	411	322	275	281
MIN	223	265	268	262	302	255	271	238	274	226	187	161

CAL YR 2000 MEAN 305 MAX 823 MIN 223 WTR YR 2001 MEAN 290 MAX 823 MIN 161

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAIL	Y MEAN VA.	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24.3 24.0 24.4 24.7 25.1	19.6 19.0 18.8 18.7 19.1	15.1 15.8 16.0 13.9 13.8	7.9 9.1 9.2 9.2 8.2	19.2 17.9 15.1 14.5 15.1	21.6 21.8 21.5 21.3 18.2	19.3 18.9 18.9 19.5 20.5	20.1 20.5 20.5 20.1 20.6	23.4 23.4 24.2 24.1 24.5	25.3 26.0 26.3 26.3 25.1	24.4 23.7 23.9 24.1 24.3	27.0 26.7 26.8 26.9 26.7
6 7 8 9 10	25.5 25.5 24.2 	19.9 20.4 20.9 21.3 21.8	12.8 13.9 14.5 17.0 18.3	10.5 10.1 12.1 12.3 9.7	13.6 14.5 16.2 17.5 18.8	15.7 14.2 14.3 14.9 17.2	20.7 21.0 21.7 22.3 22.5	20.8 20.8 21.1 20.9 20.8	24.5 24.1 24.1 24.7 25.1	25.0 25.4 25.0 24.4 25.5	24.8 25.2 25.8 25.8 25.4	25.7 25.1 24.8 24.8 24.9
11 12 13 14 15	20.9 21.3 21.2	19.2 17.9 17.8 19.0 17.3	19.3 20.2 20.4 20.7 21.5	11.3 13.6 13.2 14.2 16.0	19.9 20.4 20.7 21.1 21.3	17.8 18.9 21.0 20.5 20.3	22.9 23.5 24.2 24.4 24.8	20.5 20.4 20.7 21.3 22.1	25.0 25.2 25.4 24.3 23.7	25.1 25.3 25.3 25.4 24.9	25.7 26.0 26.3 26.3 26.3	25.1 25.0 24.3 23.8 23.2
16 17 18 19 20	20.0 19.6 20.2 20.2 21.3	15.6 17.7 18.9 19.4 18.0	21.1 20.2 14.8 13.1 10.3	16.8 18.1 19.0 18.8 18.1	21.0 20.5 18.8 17.8 18.2	21.5 21.2 18.9 18.4 19.3	24.1 22.1 19.0 17.4 18.7	22.5 22.7 22.8 22.8 22.5	23.6 24.3 24.3 24.2 24.4	25.1 25.7 25.4 25.5 25.7	26.3 26.7 26.5 25.7 26.3	22.5 22.8 23.5 24.1 24.5
21 22 23 24 25	21.5 21.2 21.4 21.7 21.7	14.3 12.1 12.1 13.2 15.9	9.6 11.9 12.7 14.5 14.5	12.6 11.6 12.1 11.9 11.7	19.3 19.2 19.7 19.9 21.0	16.8 15.7 16.5 17.5 18.2	19.5 20.2 21.0 21.5 21.7	22.6 23.0 23.1 23.5 23.4	24.8 23.8 23.3 23.4 24.0	25.4 25.4 25.3 24.9 25.9	25.4 25.0 25.6 25.9 25.9	24.8 24.9 24.8 24.9 24.8
26 27 28 29 30 31	21.6 21.2 19.8 20.2 21.0 20.9	18.2 16.7 15.3 15.5 15.5	14.5 15.3 16.4 14.7 11.4 8.7	11.6 12.1 13.3 14.8 16.8 18.8	22.0 22.0 22.2 	18.1 16.9 16.8 18.3 18.7	21.1 19.5 19.1 19.5 19.7	23.5 23.5 23.5 22.7 23.9 24.1	24.9 25.1 24.7 24.9 24.9	25.6 25.7 25.9 26.4 27.0 26.4	26.1 25.7 26.1 26.4 26.9 27.0	24.4 24.0 23.9 23.3 22.3
MEAN MAX MIN	22.0 25.5 19.6	17.6 21.8 12.1	15.4 21.5 8.7	13.1 19.0 7.9	18.8 22.2 13.6	18.4 21.8 14.2	21.0 24.8 17.4	22.0 24.1 20.1	24.3 25.4 23.3	25.5 27.0 24.4	25.7 27.0 23.7	24.7 27.0 22.3

CAL YR 2000 MEAN 21.2 MAX 26.8 MIN 8.7 WTR YR 2001 MEAN 20.7 MAX 27.0 MIN 7.9

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR MAY JUN JUL AUG SEP 3.2 4.5 4.3 5 9 8 8 3.1 3.7 1 5 2 7 1 4 4 1 4 5 3 2 3 2 1 3.2 3.4 5.4 8.5 1.4 3.3 2.4 4.7 4.0 3.1 5.2 5.7 3 3.5 4.1 4.8 8.5 1.2 4.1 1.8 4.8 3.7 3.2 2.9 3.5 4 3.6 5.3 8.4 1.9 4.4 3.2 4.9 3.4 3.1 2.9 5 6.0 2.8 5.2 6.7 5.0 6 3.3 7.9 6.6 1.4 5.0 4.9 2.8 2.9 7.6 7.7 7.4 3.4 2.3 4.7 8.1 6.5 5.0 . 8 5.0 2.8 8 3.8 2.1 3.9 7.1 6.5 5.8 4.9 4.7 ---4.8 5.4 2.7 2.7 3.6 4.1 5.1 4.8 10 3.8 7.9 3.0 11 3.2 2.6 7.6 4.1 5.8 4.4 5.1 2.9 2.8 2.7 4.7 ---2.6 2.7 2.7 12 3.6 2.6 6.7 3.8 5.3 4.1 5.0 3.3 2.5 3.7 13 3.9 3.6 3.3 6.5 4.1 4.5 4.1 4.7 3.3 2.9 14 4.6 6.4 4.6 3.6 3.6 15 4.6 4.2 3.3 5.6 3.3 4.0 3.9 3.2 2.8 3.2 16 4.9 4.8 3.3 5.2 2.6 4.0 4.0 3.7 2.9 2.3 17 5.1 3.7 3.2 4.5 2.0 4.7 ---4.4 4.1 2.8 1.8 ---5.0 3.8 3.5 2.2 4.6 4.7 4.2 1.6 1.2 18 5.1 4.1 5.8 3.0 4.0 6.2 4.0 3.1 3.3 4.9 3.6 6.5 2.6 19 20 4.7 4.3 7.8 3.7 3.6 4.7 5.9 ---4.6 3.2 2.6 1.1 21 4.6 5.3 8.3 6.0 2.9 6.0 5.5 4.5 3.0 1.1 3.4 2.9 2.7 2.7 7.3 22 4.6 6.2 6.4 6.8 2.8 4.5 ---4.6 3.5 1.1 ---4.5 4.2 6.6 6.7 6.7 2.6 23 6.1 6.1 5.6 3.6 4.9 3.6 1.2 5.0 2.5 6.5 25 4.2 2.7 5.3 2.3 6.1 1.4 ___ 4.8 4.0 3.0 1.1 26 5.3 6.8 1.9 6.0 1.1 4.3 1.2 27 4.3 4.6 5.0 6.7 1.6 6.4 .9 1.4 4.0 4.2 3.8 3.3 1.4 5.9 3.5 4.3 28 4.2 6.1 1.5 3.3 1.4 3.3 3.2 3.2 4.6 6.0 ---4.4 30 4.4 5.9 6 4 4.2 3 9 1.0 4.6 4.0 1.8 ---31 4.3 8.0 3.3 2.5 4.2 3.9 ------------MEAN 4.2 4.0 5 0 6 4 3.8 6.7 4 8 3 8 3.0 4.7 3 8 2.9 2 1 4.7 6.2 MAX 8.3 8.9 7.7 6.5 5.1 3.4 3.6 5.1 5.4 MIN 3.2 2.0 .9 4.0 2.9 2.6

CAL YR 2000 MEAN 4.4 MAX 8.3 MIN .3 WTR YR 2001 MEAN 4.1 MAX 8.9 MIN .8

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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)
OCT 24	1130	8.58	4.8			4.4	7.4	281	21.4				
NOV													
20 DEC	1455	8.42	1.6			4.5	7.1	287	17.8				
18 JAN	1125	8.64	4.1			5.5	7.1	395	12.8				
18 FEB	1327	8.57	4.4			5.9	7.0	361	19.0				
12 MAR	1403	8.37	1.9			4.5	6.9	309	20.4				
21	1217	8.58	4.8			5.7	6.9	306	16.6				
APR 09	1153	8.92	14			4.3	6.7	291	22.2				
JUN 06	1350	8.61	5.4			5.1	6.8	382	25.2				
JUL 03	1134	8.44	2.1			3.8	6.8	282	26.1				
31 AUG	1230	8.90	11			3.9	6.8	269	26.7				
29 SEP	1230	9.24	21	320	.74	3.7	6.7	258	26.4	75	21	5.4	3.9
18	1230	10.86	198			2.2	6.6	202	23.4				
DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SO4)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18 JAN	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02
OCT 24 NOV 20 DEC 18 JAN 18 FEB	DIS- SOLVED (MG/L AS NA) (00930)	UNFLIRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.010	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01
OCT 24 NOV 20 DEC 18 JAN 18 FEB 12	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.011	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76 .8 .6	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01
OCT 24 NOV 20 DEC 18 JAN 18 FEB 12 MAR 21	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.011 .050	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76 .8 .6 .85	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02 .03 .11	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01 .03
OCT 24 NOV 20 DEC 18 JAN 18 FEB 12 MAR 21 APR 09 JUN	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.01 .050 .032	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76 .8 .6 .85 1.2	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02 .03 .11 .18	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01 .03 .06
OCT 24 NOV 20 DEC 18 JAN 18 FEB 12 MAR 21 APR 09	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.01 .050 .032 .015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76 .8 .6 .85 1.2 .91	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02 .03 .11	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01 .03 .06 .07
OCT 24 NOV 20 DEC 18 JAN 18 FEB 12 MAR 21 APR 09 JUN 06	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.01 .050 .032	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76 .8 .6 .85 1.2	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02 .03 .11 .18	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01 .03 .06
OCT 24 NOV 20 DEC 18 JAN 18 FEB 12 MAR 21 APR 09 JUN 06 JUL 03	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .01 <.010 <.01 .050 .032 .015 .025	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .75 .52 .76 .8 .6 .85 1.2 .91 1.0	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .13 <.02 <.02 <.02 .03 .11 .18 .07	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .04 .02 .04 <.01 .03 .06 .07 .04

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)
OCT 24		. 05	19	8.5									
NOV 20		.04	14	<.1									
DEC 18		.08	17	<.1									
JAN 18		.07	18	<.1									
FEB 12		.02	16	<.1									
MAR 21		.07	19	<.1									
APR 09		.08	25	1.4									
JUN 06		.04	22	<.1									
JUL 03		.05	24	<.1									
31 AUG		.09	25	<.1									
29 SEP	.16	.16	46		406	3.6	<1.0	<1.0	<1.0	<1.0	492	<1.0	14
18		.14	65	<.1									
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	CARBO-PHENO-THION WATER UNFLTRD (UG/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	DI- AZINON, TOTAL (UG/L) (39570)	DI- ELDRIN TOTAL (UG/L) (39380)	DISUL- FOTON UNFILT RECOVER (UG/L) (39011)	ENDO- SULFAN I TOTAL (UG/L) (39388)
AUG 29	<.1	<1.0	<1.0	3.0	<.01	<.02	<.1	<.01	<.02	<.02	<.006	<.03	<.01
DATE	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	MALA- THION, TOTAL (UG/L) (39530)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)
AUG 29	<.01	<.01	<.007	<.009	<.01	<.006	<.06	<.01	<.01	<.006	<.007	<.006	<.009
DATE	PARA- THION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PHORATE TOTAL (UG/L) (39023)	TOX- APHENE, TOTAL (UG/L) (39400)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG 29	<.01	<.1	<.02	<1	<.2	<3	<.2	<.2	<.2	<.2	<.2	<.2	<2.5
	AUG	ATE G 29	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	BI- PHENYL, NONA- CHLORO- SUR SCD 1325 PERCENT (90575)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'-DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'-DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)				
								-					

02266320 REEDY CREEK AT I-4 NEAR LOUGHMAN, FL

LOCATION.--Lat $28^{\circ}17^{\circ}54^{\circ}$, long $81^{\circ}34^{\circ}40^{\circ}$, in $NE^{1/4}$ sec.23, T.25 S., R.27 E., Osceola County, Hydrologic Unit 03090101, on right bank 30 ft downstream from bridge on Interstate Highway 4 , 4 mi north of Loughman, and 25 mi upstream from mouth.

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1983, 1986 to May 2001 (discontinued).

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: November 1982 to July 1989, October 1990 to May 2001. WATER TEMPERATURE: November 1982 to July 1989, October 1990 to May 2001. DISSOLVED OXYGEN: November 1982 to July 1989, October 1990 to May 2001.

INSTRUMENTATION. -- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of daily record are based on recorded values and may have been exceeded during periods of no record.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Maximum daily mean, 633 µS/cm @ 25 °C, Dec. 12, 2000; minimum daily mean, 57 µS/cm @ 25 °C, Nov. 5,

WATER TEMPERATURE: Maximum daily mean, 27.9°C, July 4, 1997; minimum daily mean, 5.6°C, Dec. 26, 1983. DISSOLVED OXYGEN: Maximum daily mean, 10.7 mg/L, Jan. 5, 2001; minimum daily mean, 0.1 mg/L, June 22, 2000.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum daily mean, 633 μS/cm @ 25 °C, Dec. 12; minimum daily mean, 228 μS/cm @ 25 °C, Oct. 1.
WATER TEMPERATURE: Maximum daily mean, 25.3 °C, Oct. 6; minimum daily mean, 6.7 °C, Jan. 5.
DISSOLVED OXYGEN: Maximum daily mean, 10.7 mg/L, Jan. 5; minimum daily mean, 2.8 mg/L, Apr. 1.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), PERIOD OCTOBER 2000 TO MAY 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	293	278	323	388	312	373	308				
2	229	295	280	295	393	312	345	302				
3	234	298	281	277	386	313	333	291				
4	237	313	281	280	370	312	322	280				
5	242	304	284	286	330	302	313	294				
-												
6	244	302	283		315	321	311	298				
7	250	302	285		310	307	306	296				
8	255	304	286		318	297	301	299				
9	253	307	291		324	291	300	300				
10	254	310	301		323	287	302	305				
11	256	319	538		318	284	306					
12	259	323	633		316	283	307					
13	264	311	479		314	283	307					
14	263	311	368		310	284	310					
15	264	308	441		310	285	310					
16	265	313	388		311	290	307					
17	266	312	364		313	293	306					
18	270	312	367	321	314	292	299					
19	269	310	367	334	316	290	296					
20	270	311	377	348	320	283	300					
21	274	305	376	349	319	302	304					
22	274	299	386	352	317	303	304					
23	276	291	396	356	314	282	303					
24	281	289	386	363	311	278	306					
25	283	287	506	366	309	279	303					
26	287	279	609	366	309	277	313					
27	289	285	464	373	312	276	318					
28	293	307	403	383	312	273	317					
29	296	293	392	385		263	318					
30	294	280	384	386		371	316					
31	294		352	386		381						
MEAN	265	302	381	344	325	297	312	297				
MAX	296	323	633	386	393	381	373	308				
MIN	228	279	278	277	309	263	296	280				

CAL YR 2000 MEAN 305 MAX 633 MIN 228 MEAN 316 MAX 633 MIN 228 WTR YR 2001

02266320 REEDY CREEK AT I-4 NEAR LOUGHMAN, FL--Continued

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 2000 TO MAY 2001

					DAIL	Y MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	24.0 23.7	19.0 18.5	14.7 15.4	7.8 8.5	19.4 18.3	21.6 21.7	19.2 18.1	20.2				
3	24.0	18.2	15.4	9.0	15.4	21.6	18.1	20.1				
4 5	24.5 25.0	18.3 18.9	13.6 13.8	8.8 6.7	14.9 15.1	21.0 18.3	19.0 19.9	20.2 20.6				
6	25.3	19.8	12.4		13.2	15.5	20.2	20.9				
7	25.2	20.4	13.6		14.3	13.9	20.5	20.9				
8	24.3	20.9	14.7		15.8	13.6	21.2	21.3				
9	21.3	21.2	16.4		17.1	14.0	21.7	22.2				
10	18.9	21.4	17.4		18.6	16.3	22.0	22.5				
11	19.5	18.7	19.2		19.8	17.3	22.2	22.8				
12	20.4	17.5	20.1		20.7	18.4	22.8					
13	20.7	17.4 18.9	20.7 20.9		20.9	20.5	23.5					
14 15	21.0 20.9	16.5	20.9		21.5 21.5	20.2 20.5	24.0 24.1					
15	20.9	10.5	21.5		21.5	20.5	24.1					
16	19.6	15.3	21.2		21.1	21.7	23.7					
17	19.0	18.3	20.1		20.9	21.0	21.6					
18	19.4	18.7	15.2	19.1	18.8	18.4	18.6					
19	19.6	19.2	13.1	18.9	17.9	18.6	16.7					
20	20.5	17.6	10.1	18.1	18.4	19.3	17.4					
21	21.0	13.7	9.4	12.6	19.4	16.8	18.6					
22	21.1	11.9	11.1	12.0	19.3	15.8	19.7					
23	21.1	11.7	11.8	12.0	19.6	15.9	20.7					
24	21.3	13.5	13.9	11.3	20.1	16.8	21.5					
25	21.5	17.4	13.9	11.1	21.3	17.4	21.2					
26	21.3	18.3	14.4	10.7	22.3	17.6	20.5					
27	20.9	16.5	15.2	11.6	22.3	16.7	18.7					
28	19.4	15.1	16.2	12.8	22.2	16.5	18.8					
29	19.5	15.1	14.6	14.4		18.0	19.1					
30	20.1	15.2	11.6	16.6		18.7	19.3					
31	20.3		8.8	18.8		19.7						
MEAN	21.4	17.4	15.2	12.7	18.9	18.2	20.4	21.1				
MAX	25.3	21.4	21.5	19.1	22.3	21.7	24.1	22.8				
MIN	18.9	11.7	8.8	6.7	13.2	13.6	16.7	20.1				

CAL YR 2000 MEAN 20.9 MAX 26.5 MIN 8.8 WTR YR 2001 MEAN 18.2 MAX 25.3 MIN 6.7

OXYGEN DISSOLVED (MG/L), PERIOD OCTOBER 2000 TO MAY 2001 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR JUN JUL AUG SEP JAN APR MAY ---1 3.2 5.7 7.9 10.6 5.0 2.8 4.0 3.5 3.5 5.6 5.5 7.5 7.4 10.6 10.4 4.4 4.6 2.9 4.6 4.7 ___ ---___ ___ 3 ---------3.7 4.9 5.2 7.9 10.3 ------5.2 7.8 3.7 5 3.6 10.7 ---5.0 ---------3.5 3.7 3.9 -------5.2 4.8 3.8 6 7 4.7 8.4 4.1 ------7.4 7.5 6.7 6.4 ---------4.7 4.6 4.7 7.4 8 4.9 6.9 ------------9 4.6 4.7 4.6 6.6 ___ 4.9 4.0 ---------10 6.5 5.0 3.7 ---5.3 5.5 6.2 6.3 11 12 5.3 5.6 5.0 ---6.0 4.8 ---5.2 5.1 ------------4.9 ------------------------13 5.0 5.3 3.8 5.0 ---14 15 5.3 5.3 5.9 6.7 5.4 3.8 4.9 ---5.4 4.8 4.9 7.5 6.5 6.1 16 17 5.4 5.2 5.1 4.5 5.4 5.7 4.9 5.4 5.6 ------------6.0 ---------6.3 ___ 18 6.0 6.4 ___ ---___ ---___ ---___ ---7.5 ---19 5.9 6.1 5.7 6.3 20 8.6 5.6 6.9 5.4 5.5 9.4 21 8.3 9.7 ---5.1 5.2 ---6.4 ------------22 9.1 6.1 ___ 4.8 ___ ---------23 5.5 8.9 5.6 ---___ ---------------___ ---8.4 24 5.1 5.4 8.3 25 5.2 8.1 4.3 4.9 26 5.3 8.0 7.7 6.7 7.0 3.2 5.1 ------6.7 6.2 4.9 6.1 7.0 7.6 ---2.9 ------28 5.6 ___ ---___ ---___ 7.9 ---------29 4.8 ___ 31 5.5 5.8 6.2 9.7 9.1 10.7 ------------MEAN 4.9 7.3 5.1 5.2 4.9 4.4 9.7 7.5 6.7 7.0 5.2 MAX 6.0 4.6 MIN 3.2 5.0 5.8

CAL YR 2000 MEAN 5.2 MAX 9.7 MIN .1 WTR YR 2001 MEAN 5.8 MAX 10.7 MIN 2.8

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL

LOCATION.--Lat $28^{\circ}16^{\circ}15^{\circ}$, long $81^{\circ}35^{\circ}28^{\circ}$, in NW^{1}_{4} sec.35, T.25 S., R.27 E., Osceola County, Hydrologic Unit 03090101, at downstream side of culverts on State Highway 545, 2.0 mi upstream from mouth, and 2.5 mi northwest of Loughman.

DRAINAGE AREA.--23.0 mi².

PERIOD OF RECORD.--January 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 77.69 ft above sea level (Florida Department of Transportation bench mark). REMARKS.--Records fair.

Kecoi	us lail.											
		DISCHAR	RGE, CUBIC	C FEET PE	R SECOND, DAILY	WATER YE MEAN VA		2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.3 2.0 1.8 1.9	1.0 .99 .98 .98	1.1 1.1 1.1 1.1	1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.2	.95 .94 .92 1.7 2.0	5.2 3.3 2.4 2.0 1.8	.98 .97 .99 1.1 .96	.64 .68 .59 .58	.87 .78 .76 .75 .77	6.0 6.9 12 20 21	4.1 4.2 4.0 8.9
6 7 8 9 10	1.7 1.6 1.5 1.4	.99 .98 .99 .98	1.1 1.1 1.1 1.1	1.2 1.2 1.2 1.3	1.2 1.1 1.1 1.1	1.4 1.2 1.1 1.1	1.7 1.5 1.4 1.3	.90 .88 .87 .86	.83 .90 1.0 .80 .70	.79 .78 .83 1.8 1.4	20 35 20 17 15	13 24 36 43 41
11 12 13 14 15	1.3 1.2 1.2 1.2	.99 1.0 .98 1.0	1.1 1.2 1.2 1.1	1.2 1.2 1.2 1.2	1.1 1.0 1.0 .99	1.0 1.0 .99 1.0	1.2 1.2 1.2 1.1	.85 .81 .80 .78	.62 .54 .53 .53	1.1 1.2 1.5 2.3 3.1	11 7.9 6.3 6.5 5.5	42 44 45 83 139
16 17 18 19 20	1.2 1.2 1.2 1.2 1.2	1.0 1.0 1.0 1.0	1.1 1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.1	1.0 1.0 1.0 1.0 .99	1.0 .99 .99 1.1 1.6	1.1 1.1 1.1 1.0 1.0	.76 .72 .68 .67	1.9 .98 .98 .87 .79	1.9 1.6 1.7 1.9	5.1 5.1 5.0 6.8 5.6	118 83 61 51 43
21 22 23 24 25	1.2 1.1 1.1 1.1	1.0 1.0 1.0 1.0	1.2 1.2 1.1 1.1	1.2 1.2 1.2 1.2 1.2	.98 .97 .97 .98	1.3 1.2 1.1 1.0	1.0 1.0 1.0 .99	.64 .68 .72 .65	.76 .81 .91 1.1	1.9 2.3 2.0 1.9	11 19 14 12 9.2	37 38 41 39 37
26 27 28 29 30 31	1.1 1.1 1.1 1.1 1.1	1.5 1.6 1.3 1.2 1.2	1.1 1.3 1.4 1.3	1.2 1.2 1.2 1.2 1.2	.97 .96 .94 	.98 .97 .94 2.6 12 6.7	.96 .98 1.0 .99 1.0	.62 .57 .62 .72 .62	.90 .82 .80 .82 .84	1.9 2.2 1.9 1.6 1.5 2.2	7.6 6.4 5.7 5.1 4.6 4.3	33 30 28 26 24
TOTAL MEAN MAX MIN CFSM IN.	41.5 1.34 2.3 1.1 .06 .07	31.73 1.06 1.6 .97 .05	35.7 1.15 1.4 1.1 .05	37.1 1.20 1.3 1.1 .05	29.52 1.05 1.2 .94 .05	52.87 1.71 12 .92 .07 .09	42.89 1.43 5.2 .96 .06	23.91 .77 1.1 .57 .03	25.56 .85 1.9 .53 .04	48.83 1.58 3.1 .75 .07	336.6 10.9 35 4.3 .47	1237.2 41.2 139 4.0 1.79 2.00
STATIST	CICS OF M	ONTHLY MEA	AN DATA FO	OR WATER	YEARS 1970	- 2001,	BY WATER	YEAR (WY))			
MEAN MAX (WY) MIN (WY)	12.3 62.0 1970 1.34 2001	10.2 39.9 1970 1.06 2001	11.8 80.8 1998 1.15 2001	12.9 44.5 1998 1.20 2001	12.8 57.3 1998 1.05 2001	11.9 58.0 1998 1.49 1974	7.48 40.9 1984 .90 1981	4.26 24.7 1979 .48 1981	7.88 34.3 1982 .85 2001	14.7 48.3 1991 1.58 2001	16.9 59.6 1995 1.83 1989	18.5 41.4 1994 2.08 2000
SUMMARY	STATIST	ICS	FOR 2	2000 CALE	NDAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 1970	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ANNUAL M DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW CFSM) INCHES) EDS EDS		.6	Jul 2 5 Jun 6 1 May 31 0 1		.53 .60 147 8.34	Sep 15 3 Jun 13, 0 May 30 Sep 15 5 Sep 15 5 Jun 5		11.8 31.0 3.9 234 .3 .4 498 9.7 .3 .5 6.9 29	O Oct May May Sep Sep Sep May May May	1970 1981 3 1969 19 1981 13 1981 22 1969 22 1969 19 1981

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1968-94, 1996 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	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)
OCT 24	1020	4.57	1.2			6.5	7.0	138	20.9				
NOV 20	1250	4.55	1.0			7.5	7.5	135	16.9				
DEC 18	1342	4.58	1.2			8.3	7.5	144	14.1				
JAN 17	1040	4.59	1.2			7.4	7.3	19	18.0				
FEB 12	1258	4.58	1.1			7.7	7.3	154	21.1				
MAR 21	1110	4.62	1.4			8.2	7.3	142	16.4				
APR 09	1110	4.62	1.4			7.0	7.2	192	21.8				
MAY 07 JUN	0915	4.57	.91			8.5	7.4	111	19.9				
06 JUL	1215	4.51	.54			6.9	7.4	130	25.6				
03 30	1015 1330	4.54 4.64	.80 1.6			6.5 6.8	7.3 7.3	142 174	26.0 27.6				
AUG 29	1130	5.08	3.4	480	.66	5.7	6.9	208	25.2	93	26	6.7	3.3
SEP 18	1030	7.33	60			4.3	6.5	161	22.5				
DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SO4)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA TOTAL (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NITRITE TOTAL (MG/L AS N)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 24 NOV 20	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18 JAN 17	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 21	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010 <.010	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .24	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65 .46	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 .02
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .24 .4 .3	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65 .46 .59	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 .02 <.01 .02
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 21	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010 <.01 .01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .24 .4 .3 .39	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65 .46 .59 .68	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 .02 <.01
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010 <.01 .01 .020 .028	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .24 .4 .3 .39 .70	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65 .46 .59 .68 .50	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .02 <.01 .02 .02
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010 <.01 .01 .020 .028 .018	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .24 .4 .3 .39 .70 .41	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65 .46 .59 .68 .50 .56 .48	GEN, NO2+NO3 TOTTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .02 <.01 .02 .04 .05
OCT	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .03 .01 <.010 <.01 .01 .020 .028 .018 .022 .020	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .24 .4 .3 .39 .70 .41 .34	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .73 .65 .46 .59 .68 .50 .56 .48 .29 .49	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .02 <.01 .02 <.01 .02 .04 .05 .03

< -- Less than

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL--Continued

DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)
OCT 24		.03	3.4	<.1									
NOV 20		.03	2.8	<.1									
DEC 18		<.02	4.9	<.1									
JAN 17		<.02	5.8	9.2									
FEB 12		<.02	7.1	<.1									
MAR 21		.06	5.9	<.1									
APR 09		.05	16	<.1									
MAY 07		.03	3.9	<.1									
JUN 06		. 05	2.6										
JUL 03		.04	5.4	<.1									
30 AUG		.04	10	<.1									
29 SEP	.11	.10	58		300	1.0	<1.0	<1.0	<1.0	1.2	579	<1.0	15
18		.09	76	<.1									
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	CARBO- PHENO- THION WATER UNFLTRD (UG/L) (39786)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	DI- AZINON, TOTAL (UG/L) (39570)	DI- ELDRIN TOTAL (UG/L) (39380)	DISUL- FOTON UNFILT RECOVER (UG/L) (39011)	ENDO- SULFAN I TOTAL (UG/L) (39388)
AUG 29	.2	<1.0	<1.0	5.4	<.01	<.02	<.1	<.01	<.02	<.02	<.006	<.03	<.01
DATE	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	MALA- THION, TOTAL (UG/L) (39530)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)
AUG 29	<.01	E.009	<.007	<.009	<.01	<.006	<.06	<.01	<.01	<.006	<.007	<.006	<.009
DATE	PARA- THION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PHORATE TOTAL (UG/L) (39023)	TOX- APHENE, TOTAL (UG/L) (39400)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)
AUG 29	<.01	<.1	<.02	<1	<.2	<3	<.2	<.2	<.2	<.2	<.2	<.2	<2.5
		ATE	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	BI- PHENYL, NONA- CHLORO- SUR SCD 1325 PERCENT (90575)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)		P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)				
	AUG 2	Э 29	<.2	80	<.5	<.2	<.5	<5	<50				

< -- Less than E -- Estimated value

02266495 REEDY CREEK AT S-40, NEAR LOUGHMAN, FL

LOCATION.--Lat 28°16'32", long 81°32'39" in $SB_4^{1/2}$ sec.30, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on right bank 15 ft upstream from spillway, 2.8 mi northeast of Loughman, and 22 mi upstream from mouth.

DRAINAGE AREA. -- 174 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD. -- October 1986 to current year (gage heights only).

REVISED RECORDS. -- WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark).

REMARKS.--Flow regulated at station by manipulation of spillway gates.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 71.91 ft, Dec. 29, 1997; minimum daily, 65.71 ft, June 7,2000.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATLY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 67.73 66.87 66.95 66.99 66.75 67.96 66.74 67.10 68.90 66.89 66.68 68.53 2 67 67 66.85 66.93 67.00 66.90 66.74 68 02 66.68 66.76 67.03 68.72 68 84 67.01 66.72 66.79 3 67.63 66.92 68.04 66.99 68.77 66.83 66.92 66.68 68.90 67.62 67.01 66.93 66.83 68.02 66.95 68.70 66.91 5 67.56 66.80 66.90 67.02 66.93 67 06 67 99 66 72 66.83 66.96 69 32 68.67 66.79 69.43 6 67.50 66.88 67.02 66.92 67.01 67.96 66.68 66.95 67 11 68.69 7 67.45 66.78 66.88 67.02 66.93 66.97 67.86 66.65 67.26 67.08 69.49 68.86 67.39 67.03 67.74 67.63 67.51 67.07 8 66.77 66.96 69.48 69.02 66.87 66.93 66.63 67.33 66.76 66.86 67.06 66.92 66.94 66.61 67.38 67.43 69.45 69.20 10 67.26 66.77 66.87 67.08 66.91 66.93 67.54 66.60 67.24 67.67 69.44 69.31 11 67.21 66.76 66.88 67 08 66.90 66 91 67.44 66.58 67.16 67 86 69.65 69.45 12 67.17 66.74 66.92 67.09 66.89 66.88 67.35 67.27 66.57 67.14 68.03 69.68 69.52 67.13 67.10 67.08 13 66.74 66.98 66.89 66.87 66.55 68.08 69.70 69.60 14 67.11 66.76 66.99 67.08 66.88 66.88 67.21 66.53 67.08 68.13 69.68 70 05 15 67.08 67.00 67.06 67.14 70.52 66.78 66.86 66.88 66.52 67.22 68.20 69.63 16 67 05 66.78 66 99 67 04 66 85 66 85 67 09 66 62 67 33 68 20 69 57 70.76 70.78 66.77 17 67.02 66.98 67.02 66.84 66.82 67.04 66.60 67.40 68.21 69.49 67.00 67.00 67.00 67.48 69.43 18 66.77 66.98 66.84 66.80 66.57 70.68 19 66.99 66.76 66.98 66.98 66.83 66.85 66.98 66.54 67.43 68 24 69.40 70 52 20 67.04 67.39 68.25 70.35 66.98 66.76 66.98 66.98 66.81 66.95 66.51 69.34 21 66 96 66.76 66 97 66 97 66 81 67 10 66 92 66 49 67 33 68 31 69 34 70 20 22 66.97 66.75 66.96 67.09 67.30 68.40 70.13 66.95 66.80 66.89 66.47 69.42 23 66.97 66.96 66.94 66.80 67.04 66.86 67.29 68.44 69.43 70.02 24 66 95 66.74 66.74 66 95 66 92 66.80 66 97 66.82 66.49 67 31 68 43 69 41 69 91 25 66.92 66.79 67.31 66.93 66.96 66.91 66.79 66.50 68.40 69.36 69.81 26 66 92 66 95 66 89 66 78 67 24 69 72 66.85 66 90 66 78 66 76 68 36 69 30 27 67.00 66.90 66.77 66.75 67.18 66.92 66.94 66.86 66.82 68.34 69.22 69.64 66.96 28 66.90 66.99 66.89 66.76 66.84 66.72 66.77 67.14 68.32 69.15 69.56 66 70 29 66 89 66.99 67 01 66 89 66 98 66 82 67 10 68 27 69 08 69 50

67.80

67.87

66.97

67.87

66.72

66.68

67.27

68.04

66.68

66.80

66.76

66.63

66.82

66.47

67.18

67.51

66.74

68.20

68.18

67.89

68.44

66.95

69.01

68.95

69.33

69.70

68.53

69.64

70.78

68.67

CAL YR 2000 MEAN 67.19 MAX 69.29 MIN 65.71 WTR YR 2001 MEAN 67.47 MAX 70.78 MIN 66.47

67.00

66.99

66.95

67.01

66.86

66.88

66.88

66.99

67.10

66.88

66.86

66.93

66.76

66.97

66.81

67.00

66.74

30

31

MEAN

MAX

MIN

66.88

66.88

67.16

67 73

66.88

02266495 REEDY CREEK AT S-40, NEAR LOUGHMAN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: January 1985 to January 1987, July 1990 to September 1993, October 1994 to current year. WATER TEMPERATURE: January 1985 to January 1987, July 1990 to current year. DISSOLVED OXYGEN: January 1985 to November 1986, October 1990 to current year.

INSTRUMENTATION .-- Water-quality monitor.

REMARKS.--Extremes for current year and extremes for period of of daily record are based on recorded values and may have been exceeded during period of no record.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum daily mean, 389 μS/cm @ 25 °C, Apr. 3, 2001; minimum daily mean, 74 μS/cm @ 25 °C, Aug. 14, 1997.

WATER TEMPERATURE: Maximum daily mean, 29.7 °C, June 21, 2000; minimum daily mean, 6.8 °C, Dec. 27, 1985.

DISSOLVED OXYGEN: Maximum daily mean, 9.8 mg/L, Jan. 4,5, 2001; minimum daily mean, 0.0 mg/L, Sept. 10, 1985, June 15,16, 1991.

EXTREMES FOR CURRENT VEAR -

SPECIFIC CONDUCTANCE: Maximum daily mean, 389 µS/cm @ 25 °C, Apr. 3; minimum daily mean, 147 µS/cm @ 25 °C, Sept. 16. WATER TEMPERATURE: Maximum daily mean, 26.8 °C, May 24; minimum daily mean, 8.7 °C, Jan. 5. DISSOLVED OXYGEN: Maximum daily mean, 9.8 mg/L, Jan. 4,5; minimum daily mean 0.1 mg/L, Sept. 30.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY NOV DEC APR MAY JUN SEP OCT JAN FEB MAR JUL AUG ---MEAN MAX MIN

CAL YR 2000 MEAN 236 MAX 377 MIN 170 WTR YR 2001 MEAN 228 MAX 389 MIN 147

02266495 REEDY CREEK AT S-40, NEAR LOUGHMAN, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAIL	y mean vai	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.6	19.6	15.0	10.2	16.6	22.1	19.5	20.9	25.7	25.4	25.3	25.6
2	24.3	19.2	14.9	9.4	17.9	22.1	19.1	21.1	25.4	25.8	24.8	25.7
3	24.1	18.8	15.2	9.2	17.5	22.0	18.3	21.2	25.6	26.2	23.7	25.7
4	24.3	18.5	14.6	9.2	16.6	21.9	18.4	21.1	25.9	26.5	23.5	25.7
5	24.7	18.4	14.5	8.7	16.0	20.5	19.1	21.4	26.2	26.6	23.7	25.5
6	25.1	18.7	13.9	8.8	14.9	18.6	19.8	21.8	26.2	26.2	24.3	25.1
7	25.3	19.1	13.8	8.9	14.5	16.5	20.1	22.1	25.8	26.1	24.7	24.9
8	25.1	19.7	14.0	9.8	14.7	15.1	20.5	22.3	25.5	25.9	25.2	24.6
9	23.9	20.4	14.4	10.8	15.3	14.2	21.0	22.3	25.4	25.4	25.4	24.6
10	21.7	20.9	15.2	10.9	16.4	14.7	21.5	22.2	25.7	24.9	25.2	24.8
11	20.3	20.3	16.4	10.8	17.6	15.6	21.8	22.0	25.8	25.0	25.2	24.9
12	20.1	19.4	17.7	11.2	18.8	16.9	22.2	21.9	25.8	25.1	25.5	24.9
13	20.5	18.7	18.8	12.2	19.8	18.1	22.8	22.4	26.2	25.1	25.8	24.4
14	20.8	18.6	19.8	13.1	20.6	19.1	23.4	23.1	26.5	25.1	26.0	23.8
15	21.0	17.9	20.5	13.9	21.0	20.0	23.9	23.9	26.0	24.6	26.1	23.2
16	20.6	16.8	20.9	15.0	21.1	20.8	24.2	24.8	25.3	24.6	26.1	22.8
17	20.0	17.1	21.0	16.1	21.0	21.2	23.6	25.4	25.4	24.5	26.4	23.0
18	19.5	17.6	18.8	17.3	20.4	20.8	22.0	25.5	25.7	24.5	26.2	23.3
19	19.3	18.1	16.5	18.1	19.7	20.0	20.2	25.4	25.6	24.6	25.8	23.7
20	19.5	18.7	13.7	18.5	19.0	19.9	18.9	25.2	25.3	25.0	26.0	24.1
21	20.0	17.0	11.7	16.4	19.0	19.0	18.4	25.3	25.4	24.8	25.6	24.4
22	20.5	15.1	11.0	14.7	18.8	18.0	18.8	26.0	25.3	24.6	25.0	24.6
23	21.0	14.0	11.0	13.5	19.1	17.2	19.5	26.7	24.5	24.6	25.3	24.8
24	21.3	13.4	12.4	12.4	19.5	16.9	20.3	26.8	23.9	24.0	25.5	25.0
25	21.5	14.0	13.4	11.8	19.9	17.2	21.0	26.4	23.9	24.1	25.5	24.9
26 27 28 29 30 31	21.6 21.4 20.7 20.2 20.0	14.8 15.5 15.8 15.5 15.3	13.9 14.2 14.8 14.8 13.6 11.9	11.2 11.1 11.5 12.2 13.4 15.1	20.7 21.4 21.9 	17.6 17.8 17.7 17.7 17.9 18.8	21.7 21.5 21.0 21.0 20.9	26.3 26.6 26.4 26.0 25.8 25.8	24.5 25.0 25.2 25.3 25.3	24.5 24.6 24.5 24.7 25.1 25.5	25.5 25.0 24.9 25.1 25.4 25.7	24.8 24.4 24.1 23.6 22.7
MEAN	21.7	17.6	15.2	12.4	18.6	18.6	20.8	24.0	25.4	25.1	25.3	24.5
MAX	25.3	20.9	21.0	18.5	21.9	22.1	24.2	26.8	26.5	26.6	26.4	25.7
MIN	19.3	13.4	11.0	8.7	14.5	14.2	18.3	20.9	23.9	24.0	23.5	22.7

CAL YR 2000 MEAN 21.6 MAX 29.7 MIN 10.2 WTR YR 2001 MEAN 20.8 MAX 26.8 MIN 8.7

	OXYGEN DISSOLVED (MG/L), 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 3 4 5	2.9 2.9 2.5	5.0 5.2 5.2 5.3 5.4	6.0 6.0 6.3 6.5	7.3 8.5 9.2 9.8 9.8	7.0 6.2 5.7 5.0 5.1	4.3 3.8 4.3 4.5	4.4 3.5 3.2 3.2 3.0	4.2 4.4 5.0 5.2 5.8	3.8 3.7 4.0 3.7 3.6	3.6 3.3 3.2 3.2 3.1			
6 7 8 9 10	2.2 2.0 2.1 2.9 3.6	5.3 5.1 5.1 4.7 3.8	6.8 6.6 6.3 6.3	9.4 9.6 9.1 9.1 8.8	5.9 6.5 6.8 7.0 6.9	4.7 5.3 5.8 6.5	3.2 3.3 3.4 3.5 3.5	6.2 6.5 5.7 5.1 5.3	3.6 3.1 3.0 3.3 3.4	2.9 2.7 3.3 3.4 3.8	 	 	
11 12 13 14 15	3.9 4.3 4.4 4.5 4.5	4.3 4.3 4.3 3.8 4.4	5.6 4.7 4.2 3.4 2.9	8.2 8.5 8.6 7.7 7.1	6.5 5.8 5.0 4.4 4.3	6.8 6.8 5.9 5.3 4.9	3.7 3.5 3.1 3.1 3.1	5.7 5.7 5.1 3.8 3.4	3.1 3.1 3.4 3.6 3.5	3.2 2.1 1.7 1.4 1.3	 	 	
16 17 18 19 20	4.5 4.6 4.7 4.9	5.1 4.6 4.4 4.8 5.2	3.0 2.9 3.7 4.1 4.6	7.0 6.4 5.7 5.4 5.2	4.6 4.6 5.3 6.1 6.0	4.2 4.3 4.6 4.6 4.2	3.2 3.7 4.5 5.6 6.3	3.7 3.8 3.7 3.5 3.5	3.4 3.7 3.5 3.1 3.0	 	 	 .2	
21 22 23 24 25	5.0 5.2 5.4 5.0 4.7	5.3 5.5 5.7 6.0 6.5	5.6 6.7 7.6 8.0 8.1	5.3 5.5 6.2 7.3 8.1	5.7 5.6 5.8 4.6 4.3	5.0 5.7 6.3 6.7 7.1	6.8 7.3 7.0 6.1 4.9	3.6 2.9 2.2 2.7 3.1	3.2 3.2 3.3 3.6 3.8	 		.3 .6 .2 .4	
26 27 28 29 30 31	4.3 4.2 4.4 4.6 4.4 4.5	6.6 6.5 5.8 5.5 5.8	7.8 7.1 6.3 6.2 6.0 6.3	8.6 8.9 9.1 9.1 8.8 8.0	3.9 3.9 4.0 	7.5 7.6 7.7 6.8 6.4 5.7	5.2 5.5 5.0 4.6 4.3	3.0 2.9 2.6 2.5 2.6 3.4	4.0 3.7 3.5 3.1 3.3	 	 	.5 .4 .2 .2 .1	
MEAN MAX MIN	4.1 5.4 2.0	5.2 6.6 3.8	5.8 8.1 2.9	7.9 9.8 5.2	5.4 7.0 3.9	5.6 7.7 3.8	4.4 7.3 3.0	4.1 6.5 2.2	3.4 4.0 3.0	2.8 3.8 1.3		.3 .7 .1	

CAL YR 2000 MEAN 4.4 MAX 8.1 MIN 1.2 WTR YR 2001 MEAN 4.8 MAX 9.8 MIN .1

02266496 REEDY CREEK BELOW S-40, NEAR LOUGHMAN, FL

LOCATION.--Lat $28^{\circ}16^{\circ}32^{\circ}$, long $81^{\circ}32^{\circ}39^{\circ}$, in $SE^{1/4}_{4}$ sec.30, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on left bank 30 ft downstream from spillway, 2.8 mi northeast of Loughman, and 22 mi upstream from mouth.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--October 1986 to September 1989 (gage heights only), October 1989 to September 1994, October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Reedy Creek Improvement District bench mark).

REMARKS.--Records poor. Flow regulated by Structure 40.

	-	DISCHAR	GE, CUBIO	C FEET PER		WATER YEA Y MEAN VAI		R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.1 2.1 2.1 2.1 2.0	1.4 1.5 1.5 1.4	1.3 1.4 1.4 1.6 1.5	1.3 1.3 1.3 1.3	.88 .84 .86 .86	.84 .85 .90 1.1	2.1 2.0 2.0 2.0 2.0	1.2 1.2 1.2 1.3 1.3	1.2 1.3 1.2 1.2	1.6 1.5 1.4 1.4	2.5 2.9 3.3 3.9 4.8	13 13 13 12 12
6 7 8 9 10	1.8 1.6 1.6 1.7	1.4 1.5 1.5 1.6	1.5 1.5 1.4 1.5	1.3 1.3 1.3 1.3	.86 .87 .91 .92	1.2 1.2 1.2 1.2 1.3	2.0 1.9 1.9 1.8	1.2 1.2 1.2 1.2	1.3 1.5 1.6 1.6	1.6 1.6 1.6 1.9	22 45 50 50 51	12 14 20 21 31
11 12 13 14 15	1.7 1.7 1.7 1.7	1.6 1.6 1.6 1.6	1.5 1.5 1.5 1.5	1.3 1.3 1.3 1.2	.87 .81 .78 .80	1.3 1.3 1.3 1.3	1.7 1.7 1.5 1.4	1.2 1.2 1.1 1.1	1.4 1.4 1.4 1.6 1.7	1.9 2.3 2.2 2.4 2.5	70 76 80 83 81	52 63 72 153 252
16 17 18 19 20	1.6 1.5 1.6 1.5	1.4 1.4 1.4 1.4	1.5 1.5 1.5 1.4	1.2 1.2 1.1 1.1	.70 .66 .65 .65	1.3 1.3 1.3 1.4 1.5	1.3 1.3 1.2 1.3	1.1 1.1 1.1 1.1	1.7 1.7 1.8 1.9	2.2 2.5 2.7 2.6 2.6	76 68 61 58 52	319 330 323 317 304
21 22 23 24 25	1.5 1.5 1.6 1.7	1.5 1.4 1.4 1.3	1.3 1.3 1.3 1.2	1.1 1.1 1.1 1.1	.69 .69 .71 .77	1.5 1.5 1.4 1.4	1.3 1.2 1.2 1.2	1.0 .99 1.0 1.1	1.8 1.9 1.8 1.9	2.6 2.6 2.6 2.3 2.2	50 59 60 59 55	264 248 218 187 167
26 27 28 29 30 31	1.7 1.7 1.7 1.6 1.5	1.4 1.5 1.4 1.3	1.2 1.2 1.3 1.3 1.3	1.0 .98 .94 .92 .90	.77 .82 .84 	1.4 1.3 1.4 1.6 2.3 2.1	1.2 1.2 1.2 1.1 1.1	1.2 1.2 1.2 1.2 1.2	1.7 1.6 1.6 1.5 1.6	2.2 2.2 2.3 2.2 2.1 2.1	47 37 27 19 15	147 131 114 101 88
TOTAL MEAN MAX MIN CFSM IN.	52.6 1.70 2.1 1.5 .01	43.7 1.46 1.6 1.3 .01	43.2 1.39 1.6 1.2 .01	36.14 1.17 1.3 .90 .01	22.15 .79 .92 .65 .00	41.59 1.34 2.3 .84 .01	45.5 1.52 2.1 1.1 .01	35.49 1.14 1.3 .99 .01	47.4 1.58 1.9 1.2 .01	65.3 2.11 2.7 1.4 .01	1382.4 44.6 83 2.5 .26	4011 134 330 12 .77 .86
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1990	0 - 2001,						
MEAN MAX (WY) MIN (WY)	43.9 105 1997 1.70 2001	21.8 91.7 1998 1.10 1990	62.5 501 1998 1.35 1994	52.9 433 1998 1.17 2001	48.2 390 1998 .79 2001	55.2 452 1998 1.34 2001	22.0 109 1998 1.44 1990	11.3 36.0 1993 .87 1994	24.8 124 1991 1.49 2000	64.1 260 1991 2.11 2001	71.5 244 1997 2.01 2000	81.4 316 1994 2.10 2000
SUMMARY	STATISTI	CS	FOR 2	2000 CALEN	IDAR YEAR	FC	OR 2001 W	ATER YEAR		WATER Y	EARS 1990	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	MEAN ANNUAL M ANNUAL ME DAILY ME DAILY MEA	AN AN N MINIMUM GE FSM) NCHES) DS DS		995.1 2.72 30 1.1 1.2 .01 .21 2.6 6 1.8 1.3	?	Jun 5,6,2,	5826.4° 16.0 330 22 .66 68.88 .09 1.25 50 1.5	Sep 17 5 Feb 18, 8 Feb 16 5 Sep 16 92	.19	46.7 179 9.6 1220 .5 70.3 3.6 115 5.2	Dec 29, 55 May 68 May 180 Dec 187	1998 2000 30 1997 27 1994 23 1994 30 1997

02266500 REEDY CREEK NEAR LOUGHMAN, FL

LOCATION.--Lat $28^{\circ}15^{\circ}48^{\circ}$, long $81^{\circ}32^{\circ}12^{\circ}$, in $SW^{1/}4$ sec.32, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on left bank 20 ft upstream from bridge on U.S. Highways 17 and 92, 1.0 mi downstream from Reedy Creek Improvement District Structure 40, 2.5 mi northeast of Loughman, 3 mi downstream from Davenport Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--177 \min^2 , approximately, includes an indeterminate portion of the Reedy Creek Swamp watershed.

PERIOD OF RECORD.--October 1939 to September 1959, July 1968 to current year.

REVISED RECORDS.--WDR FL-96-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 64.49 ft above sea level. Prior to Aug. 20, 1940, nonrecording gage at same site and datum.

REMARKS.--Records poor. Natural flow of stream affected by several canals, levees, and control structures which divert an undetermined amount of water into Reedy Creek above station or into the Shingle Creek basin. Since May 1970, flow regulated by Reedy Creek Improvement District Structure 40.

		DISCHAR	GE, CUBIO	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.7 1.7 1.7 1.7	.76 .77 .80 .80	1.1 1.1 1.1 1.1	1.3 1.3 1.3 1.3	.91 .87 .86 .88	.72 .74 .75 .97	1.5 1.4 1.3 1.3	.55 .56 .56 .63	.83 .86 .82 .83	.51 .42 .30 .23	.02 .18 .39 .69	8.4 9.1 9.5 8.5 8.6
6 7 8 9 10	1.6 1.4 1.3 1.2	.77 .78 .78 .78	1.1 1.1 1.1 1.1	1.3 1.3 1.3 1.3	.88 .85 .85 .88	1.0 1.0 1.0 1.1	1.3 1.3 1.2 1.2	.56 .55 .55 .51	.92 1.1 1.3 1.2	.25 .22 .25 .44 .39	1.9 3.8 5.7 6.7 7.8	9.3 12 18 20 23
11 12 13 14 15	1.2 1.1 1.1 1.0 1.0	.81 .81 .81 .86	1.2 1.3 1.3 1.3	1.3 1.3 1.3 1.2	.82 .80 .78 .78	1.1 1.1 1.1 1.1	1.0 1.0 .90 .83	.51 .49 .48 .47	1.1 1.0 .97 1.1 1.3	.29 .48 .47 .57	13 21 30 38 42	39 58 74 173 302
16 17 18 19 20	.99 .95 .90 .90	.89 .88 .88 .87	1.3 1.3 1.3 1.3	1.2 1.2 1.2 1.2	.70 .65 .63 .65	1.1 1.1 1.1 1.2	.75 .72 .67 .70	.49 .48 .47 .47	1.3 1.2 1.2 1.3	.33 .49 .52 .41	42 37 31 27 22	378 412 393 360 322
21 22 23 24 25	.86 .87 .86 .88	.89 .86 .84 .81	1.3 1.3 1.3 1.3	1.2 1.2 1.2 1.1	.66 .68 .69 .71	1.2 1.2 1.1 1.1	.73 .70 .68 .65	. 44 . 43 . 43 . 44 . 48	1.1 1.1 1.1 1.0 .93	.34 .34 .34 .18	22 27 28 29 28	288 275 253 228 210
26 27 28 29 30 31	.88 .89 .84 .84 .80	1.1 1.2 1.1 1.1 1.1	1.2 1.2 1.3 1.4 1.3	1.1 1.1 1.0 .97 .94	.70 .69 .72 	1.0 .98 .94 1.2 1.8 1.5	.65 .60 .56 .54	.63 .67 .69 .79 .79	.78 .67 .58 .50 .49	.08 .06 .03 .00 .00	26 22 17 12 9.3 8.3	191 176 162 142 123
TOTAL MEAN MAX MIN	34.63 1.12 1.7 .80	26.19 .87 1.2 .76	38.1 1.23 1.4 1.1	37.13 1.20 1.3 .92	21.50 .77 .91 .63	33.70 1.09 1.8 .72	27.31 .91 1.5 .54	16.90 .55 .79 .43	29.81 .99 1.3 .49	9.20 .30 .57 .00	559.88 18.1 42 .02	4685.4 156 412 8.4
		ONTHLY MEAN										
MEAN MAX (WY) MIN (WY)	93.6 326 1970 1.12 2001	50.2 217 1988 .040 1974	54.4 497 1998 .000 1974	59.5 492 1998 .000 1974	55.2 424 1998 .000 1974	60.9 451 1998 1.09 2001	48.6 261 1987 .000 1972	18.6 107 1979 .000 1972	30.8 143 1942 .000 1981	79.0 283 1991 .000 1989	99.9 317 1995 .000 1989	119 411 1953 1.90 2000
SUMMAR	Y STATIST	TICS	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	YEARS 1940	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM 10 PERO 50 PERO	MEAN I ANNUAL ANNUAL M I DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE EDS EDS		1026.34 2.80 44 .75 .78 2.6 1.8	Jan 1 Jun 6 Nov 1			Sep 17 Jul 29 Jul 26 Sep 17 Sep 17	-31	64.4 191 10.6 1080 .(1090 4.2 165 34 1.6	Dec 00 Ma 00 Ma Dec 25 Sep	1998 2000 30 1997 any days any days 30 1997 24 1969

02266500 REEDY CREEK NEAR LOUGHMAN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1965, 1968-94, 1996 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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)
OCT 24 NOV	0910	.60	.92			2.1	7.0	208	20.0				
20	1120	.61	.85			2.2	7.0	204	23.7				
DEC 18 JAN	1015	.30	1.3			6.4	7.1	301	16.7				
17	0953	.77	1.2			3.5	6.8	248	16.0				
FEB 12	1210	.73	.81			1.7	6.8	242	18.2				
MAR 20	1015	.84	1.3			1.2	6.7	213	18.1				
APR 09	1028	.83	1.2			1.2	6.0	345	20.8				
MAY 07	0800	.55	.57			3.0	7.2	196	20.3				
JUN 06	1134	.54	.85			<.6	6.5	164	25.0				
AUG 29	0950	1.88	13	480	.70	.2	6.1	222	24.9	80	23	5.4	3.7
SEP 18	0830	3.34	397			. 4	6.4	162	22.9				
DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SO4)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA TOTAL (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NITRITE TOTAL (MG/L AS N)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 24 NOV 20	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18 JAN 17	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .02 <.010	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .74 .33	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .14 <.02	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 20	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .02 <.010 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .74 .33 .69	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .14 <.02 .04	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 <.01
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 20 APR 09	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .02 <.010 <.01	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .74 .33 .69 .6	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .14 <.02 .04	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 <.01 <.01
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 20 APR 09 MAY 07	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .02 <.010 <.01 .02	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .74 .33 .69 .6 .5 .66	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .14 <.02 .04 .10 .08	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 <.01 <.01
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 20 APR 09 MAY 07 JUN 06	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .02 <.010 <.01 .02 .048 .064	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .74 .333 .69 .6 .5 .66 2.0	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .14 <.02 .04 .10 .08 .08	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 <.01 <.01 <.01
OCT 24 NOV 20 DEC 18 JAN 17 FEB 12 MAR 20 APR 09 MAY 07 JUN	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .04 .02 <.010 <.01 .02 .048 .064	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .74 .33 .69 .6 .5 .66 2.0 .77	GEN, AMMONIA TOTAL (MG/L AS N) (00610)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .11 .14 <.02 .04 .10 .08 .08	GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.0	GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .02 <.01 <.01 <.01 .03 .06

< -- Less than

02266500 REEDY CREEK NEAR LOUGHMAN, FL--Continued

	PHOS- PHORUS ORTHO	PHOS-PHORUS	CARBON, ORGANIC	CHLOR-A PHYTO- PLANK- TON	ALUM- INUM, TOTAL RECOV-	ARSENIC	BERYL- LIUM, TOTAL RECOV-	CADMIUM WATER UNFLTRD	CHRO- MIUM, TOTAL RECOV-	COPPER, TOTAL RECOV-	IRON, TOTAL RECOV-	LEAD, TOTAL RECOV-	MANGA- NESE, TOTAL RECOV-
DATE	TOTAL (MG/L AS P) (70507)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00680)	CHROMO FLUOROM (UG/L) (70953)	ERABLE (UG/L AS AL) (01105)	TOTAL (UG/L AS AS) (01002)	ERABLE (UG/L AS BE) (01012)	TOTAL (UG/L AS CD) (01027)	ERABLE (UG/L AS CR) (01034)	ERABLE (UG/L AS CU) (01042)	ERABLE (UG/L AS FE) (01045)	ERABLE (UG/L AS PB) (01051)	ERABLE (UG/L AS MN) (01055)
OCT 24		.04	16	<.1									
NOV 20		.02	8.6	<.1									
DEC 18		.05	11	<.1									
JAN 17 FEB		<.02	12	<.1									
12 MAR		<.02	11	<.1									
20 APR		.06	12	<.1									
09 MAY		.08	43	2.4									
07 JUN		.04	10	<.1									
06 AUG		.03	6.7	2.6									
29 SEP	.16	.17	70		435	1.9	<1.0	<1.0	<1.0	1.5	960	<1.0	23
18		.09	59	<.1									
	MERCURY TOTAL RECOV-	NICKEL, TOTAL RECOV-	SELE- NIUM,	ZINC, TOTAL RECOV-		CARBO- PHENO- THION	CHLOR- DANE, TECH-	CHLOR- PYRIFOS		DI-	DI-	DISUL- FOTON	ENDO- SULFAN
DATE	ERABLE (UG/L AS HG) (71900)	ERABLE (UG/L AS NI) (01067)	TOTAL (UG/L AS SE) (01147)	ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	WATER UNFLTRD (UG/L) (39786)	NICAL TOTAL (UG/L) (39350)	TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	AZINON, TOTAL (UG/L) (39570)	ELDRIN TOTAL (UG/L) (39380)	UNFILT RECOVER (UG/L) (39011)	I TOTAL (UG/L) (39388)
AUG 29	<.1	<1.0	<1.0	4.0	<.01	<.02	<.1	<.01	<.02	<.02	<.006	<.03	<.01
DATE	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	MALA- THION, TOTAL (UG/L) (39530)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	METHYL PARA- THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	P,P'- DDD UNFILT RECOVER (UG/L) (39360)	P,P'- DDE, TOTAL (UG/L) (39365)	P,P'- DDT UNFILT RECOVER (UG/L) (39370)
AUG 29	<.01	<.01	<.007	<.009	<.01	<.006	<.03	<.01	<.01	<.006	<.007	<.006	<.009
	PARA- THION,	PCB,	PHORATE	TOX- APHENE,	ALDRIN, TOTAL IN BOT- TOM MA-	CHLOR- DANE, TOTAL IN BOT- TOM MA-	DI- ELDRIN, TOTAL IN BOT- TOM MA-	ENDO- SULFAN I TOTAL IN BOT- TOM MA-	ENDRIN, TOTAL IN BOT- TOM MA-	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM	HEPTA- CHLOR, TOTAL IN BOT- TOM MA-	LINDANE TOTAL IN BOT- TOM MA-	METH- OXY- CHLOR, TOT. IN BOTTOM
DATE	TOTAL (UG/L) (39540)	TOTAL (UG/L) (39516)	TOTAL (UG/L) (39023)	TOTAL (UG/L) (39400)	TERIAL (UG/KG) (39333)	TERIAL (UG/KG) (39351)	TERIAL (UG/KG) (39383)	TERIAL (UG/KG) (39389)	TERIAL (UG/KG)	MATL. (UG/KG) (39423)	TERIAL (UG/KG) (39413)	TERIAL (UG/KG) (39343)	MATL. (UG/KG) (39481)
AUG 29	<.01	<.1	<.02	<1	<.2	<3	<.2	<.2	<.2	<.2	<.2	<.2	<2
	DŽ	ATE	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)		P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)				
	AUG		<.2	86	<.5	<.2	<.5	<5	<50				

< -- Less than

02266550 REEDY CREEK AT STATE HIGHWAY 531 NEAR POINSIANNA, FL

LOCATION.--Lat $28^{\circ}08^{\circ}59^{\circ}$, long $81^{\circ}26^{\circ}28^{\circ}$, in $SE^{1/4}_{4}$ sec.7, T.27 S., R.29 E., Osceola County, Hydrologic Unit 03090101, at bridge on State Highway 531, 1.6 mi upstream from Lake Russell, and about 9 mi southeast of Poinsianna.

DRAINAGE AREA.--170 mi^2 , approximately.

PERIOD OF RECORD.--October 1978 to current year (discharge measurements only).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 1,010 ft³/s, Aug. 26, 1991; no flow observed during most years.

DISCHARGE MEASURMENTS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)
NOV 02 DEC 19	1317 1520	.21	JUN 04 JUL 31	0947 0730	.02 1.6
FEB 15 APR 12	0700 1000	.14	SEP 24	1055	568

02267000 CATFISH CREEK NEAR LAKE WALES, FL

LOCATION.--Lat 27°57'40", long 81°29'48", in sec.14, T.29 S., R.28 E., Polk County, Hydrologic Unit 03090101, on left bank, 0.2 mi downstream from Lake Pierce, 7 mi northeast of city of Lake Wales, and 9.3 mi upstream from mouth.

DRAINAGE AREA.--58.9 mi².

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 72.70 ft above sea level (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good.

		DISCHAR	GE, CUBI	C FEET PEF		WATER YE	AR OCTOBER	R 2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	35 34 34 35 34	18 18 17 17	14 14 15 14	11 11 10 11 10	9.3 9.4 9.4 9.6 9.6	6.5 6.2 5.8 6.3 8.1	9.8 8.8 8.5 8.6 8.5	2.6 2.5 2.6 2.7 2.6	.91 .85 .64 .54	2.2 1.8 1.7 1.7 2.4	14 14 18 22 23	20 23 22 23 22
6 7 8 9 10	34 34 33 32 29	17 17 16 16 17	14 14 13 13 13	9.8 9.7 10 11 10	9.0	7.1 6.0 5.5 5.4 5.4	8.2 7.9 7.9 7.7 7.5	2.4 2.3 2.2 2.1 1.9	.63 .76 1.3 1.6 1.5	3.5 3.4 3.4 4.2 5.0	23 24 23 23 23	25 32 36 42 43
11 12 13 14 15	28 27 27 26 25	16 16 16 16 16	13 14 14 14 14	9.8 10 10 9.9 9.9	0 0	5.3 5.1 5.2 5.3 5.2	7.2 6.9 6.9 6.5	1.6 1.6 1.6 1.5	1.3 1.2 1.1 1.1	5.5 5.3 5.7 7.3 8.5	24 24 23 23 22	43 44 45 59 66
16 17 18 19 20	25 24 24 23 22	15 16 15 15 15	14 14 13 13 13	9.8 9.9 9.8 9.7	8.4 8.6 8.1 7.4 7.3	5.2 5.1 4.8 4.7 5.2	6.1 5.9 5.2 4.6 4.4	1.4 1.4 1.2 1.0	2.3 2.3 2.6 2.5 2.4	8.3 8.8 9.1 9.2 9.9	22 21 21 24 23	64 64 63 63 62
21 22 23 24 25	22 21 21 20 19	15 14 13 13	12 12 12 12 12	11 11 11 10 10	7.3 7.3 7.1 6.7	5.3 5.0 4.6 4.5 4.5	4.1 3.9 3.7 3.7 3.7	.80 .75 .69 .53	2.4 2.5 2.6 2.7 2.7	10 11 10 10 11	24 26 25 25 24	63 82 83 84 84
26 27 28 29 30 31	19 19 19 18 18	14 15 15 15 15	11 12 12 12 12	9.5 9.3 9.1 9.0 9.1 9.3	6.6 6.6 6.7 	4.5 4.3 4.0 4.6 8.0 8.8	3.6 3.1 2.8 2.6 2.6	.59 .42 .38 .42 .38	2.6 2.5 2.4 2.4 2.4	12 12 12 11 11	24 22 21 21 20 20	83 82 81 81 80
TOTAL MEAN MAX MIN CFSM IN.	799 25.8 35 18 .44	468 15.6 18 13 .26	403 13.0 15 11 .22 .25		230.6 8.24 9.6 6.6 .14 .15	171.5 5.53 8.8 4.0 .09	177.8 5.93 9.8 2.6 .10	43.46 1.40 2.7 .38 .02 .03	52.93 1.76 2.7 .54 .03	228.9 7.38 12 1.7 .13 .14	686 22.1 26 14 .38 .43	1664 55.5 84 20 .94 1.05
STATIST	ICS OF MC	ONTHLY MEA	N DATA F	OR WATER Y	EARS 1948	3 - 2001,	BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	56.2 190 1961 10.4 1990	44.6 119 1954 7.17 1990	39.9 129 1954 11.6 1990	39.7 102 1954 10.1 2001	39.4 100 1998 8.24 2001	38.8 113 1998 5.53 2001	33.2 120 1960 5.27 2000	24.1 79.0 1960 1.22 1981	27.1 86.1 1959 .48 2000	38.8 107 1959 1.98 2000	46.7 142 1960 9.56 2000	56.0 199 1960 7.94 1989
SUMMARY	STATISTI	CS	FOR	2000 CALEN	IDAR YEAR	F	OR 2001 W	ATER YEAR		WATER YE	EARS 1948	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				4502.69 12.3 38 .08 .20 .21 2.84 24 12 1.0	Sep 23- 3 Jun 6 3 May 31	-27	5236.79 14.3 84 .38 .4! .24 3.31 27 9.9 1.7	Sep 24 3 May 28 5 May 25	, 25 , 30	40.4 104 9.47 235 .00 6.02 .69 9.32 72 36	Sep 17,1 Jun 3-1 Jun 3-1 Sep 1	1960 1990 8 1960 0 1985 0 1985 5 1960

02268903 KISSIMMEE RIVER AT S-65, NEAR LAKE WALES, FL

LOCATION.--Lat $27^{\circ}48^{\circ}14^{\circ}$, long $81^{\circ}11^{\circ}53^{\circ}$, in NW^{1}_{4} sec.11, T.31 S., R.31 E., Osceola County, Hydrologic Unit 03090101, on right bank at upstream side of lock and control structure S-65, 0.1 mi downstream from bridge on State Highway 60, and 25 mi southeast of Lake Wales.

DRAINAGE AREA.--1,607 \min^2 at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian.

PERIOD OF RECORD.--October 1969 to current year. Prior to October 1969, published as Kissimmee River below Lake Kissimmee (records not equivalent to present site).

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by U.S. Army Corps of Engineers). Auxiliary water-stage recorder at downstream side of lock and control structure 65.

REMARKS.--Records good except for periods of estimated daily discharge, which are fair. Since July 1964 flow regulated by operation of control structure 65 and by storage releases at several structures in headwaters. Discharge computed from relation between discharge, head, and gate openings. Structure with two additional gates put in use Aug. 7, 2001.

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

COOPERATION.--Gage-height record and gate-operation record provided by South Florida Water Management District.

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	173 169 168 169 167	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	623 736 738 739 763	597 592 575 529 502
6 7 8 9 10	165 166 171 180 173	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00		.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	952 e1500 e1760 e1400 1040	506 497 481 504 860
11 12 13 14 15	170 167 167 172 167	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1060 1050 1060 1070 1060	e1450 e2220 e2750 e3420 e3940
16 17 18 19 20	166 163 169 166 66	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	938 747 760 757 760	e3990 e4080 e4140 e4100 e4090
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00		.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 108 132	758 769 762 755 762	e4090 e4120 e4140 e4140 e4180
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	132 379 555 554 556 546	743 702 633 589 585 598	e4220 e4180 e4160 e4130 e4200
MEAN MAX MIN	3274.00 106 180 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00			2962.00 95.5 556 .00	27169 876 1760 585	81383 2713 4220 481
		MONTHLY MEA										
MEAN MAX (WY) MIN (WY)	719 5652 1970 .000 1984	332 3598 1995 .000 1984	664 5797 1998 .000 1985	1210 6868 1998 .000 1985	1423 5076 1998 .000 1985	1348 8652 1998 .000 1991	1413 4320 1993 .000 2001	911 2364 1984 .000 2001	226 1965 1994 .000 1977	489 4352 1974 .000 1985	1198 4537 1995 .000 1987	919 4554 1995 .000 1970
SUMMAI	RY STATIST	rics	FOR :	2000 CALEND	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	EARS 1970	- 2001
ANNUA HIGHES LOWES' HIGHES LOWES' ANNUA MAXIM 10 PEI 50 PEI	L TOTAL L MEAN ST ANNUAL I ANNUAL I ST DAILY M I DAILY M L SEVEN-DJ UM PEAK ST RCENT EXCE RCENT EXCE RCENT EXCE RCENT EXCE	MEAN MEAN EAN AY MINIMUM FAGE EEDS EEDS		146818.00 401 2870 .00 .00 1180 .00			114788.00 314 4220 .00 .00 52.37 761 .00	Sep 26 Many day Oct 21 Sep 29	ys	902 2508 21.0 12100 .00 54.07 2860 37	Feb) Ma) Ma 7 Oct	1998 1981 24 1988 24 1988 ny days ny days 8 1969

e Estimated

02268903 KISSIMMEE RIVER AT S-65, NEAR LAKE WALES, FL--Continued

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	49.83	49.37	49.15	49.03	48.90	48.72	48.87	48.33	48.52	48.71	50.37	50.73
2	49.75	49.36	49.14	49.04	48.95	48.67	48.76	48.31	48.55	48.71	50.44	50.72
3	49.71	49.37	49.24	49.06	48.98	48.58	48.66	48.35	48.57	48.71	50.62	50.70
4	49.71	49.34	49.32	49.06	48.97	48.58	48.71	48.40	48.55	48.70	50.75	50.68
5	49.74	49.33	49.22	48.97	48.94	48.94	48.70	48.42	48.55	48.74	50.85	50.67
6	49.75	49.29	49.15	48.96	48.90	48.93	48.66	48.40	48.56	48.80	50.97	50.68
7	49.76	49.25	49.13	48.95	48.86	48.82	48.66	48.39	48.59	48.80	51.04	50.74
8	49.81	49.22	49.09	48.91	48.84	48.64	48.64	48.36	48.65	48.81	51.06	50.87
9	49.97	49.24	49.06	49.11	48.82	48.57	48.63	48.35	48.67	48.90	51.12	50.99
10	49.78	49.30	49.06	49.06	48.85	48.59	48.62	48.33	48.68	48.96	51.14	51.14
11	49.69	49.35	49.05	48.94	48.85	48.57	48.57	48.32	48.62	48.96	51.13	51.20
12	49.67	49.29	49.12	48.95	48.86	48.46	48.57	48.34	48.58	48.93	51.10	51.22
13	49.64	49.23	49.11	49.03	48.84	48.47	48.60	48.36	48.60	48.95	51.09	51.29
14	49.65	49.22	49.10	48.96	48.84	48.55	48.62	48.35	48.61	49.00	51.08	51.16
15	49.62	49.31	49.09	48.93	48.81	48.47	48.62	48.32	48.62	49.07	51.07	51.71
16	49.58	49.22	49.04	48.93	48.77	48.48	48.66	48.38	48.68	49.03	51.02	51.69
17	49.55	49.21	49.17	48.92	48.84	48.56	48.68	48.40	48.71		50.98	51.69
18	49.54	49.24	49.18	48.90	48.89	48.59	48.69	48.38	48.72		50.98	51.70
19	49.51	49.18	49.18	48.84	48.77	48.48	48.47	48.35	48.68	49.32	50.96	51.70
20	49.51	49.35	49.24	49.06	48.73	48.55	48.40	48.33	48.68	49.35	50.95	51.72
21	49.50	49.43	49.13	49.08	48.74	48.61	48.40	48.30	48.68	49.47	51.00	51.73
22	49.51	49.26	49.10	49.10	48.74	48.62	48.37	48.31	48.69	49.59	50.98	51.80
23	49.51	49.17	49.12	49.14	48.77	48.51	48.33	48.43	48.72	49.58	50.97	51.88
24	49.51	49.07	49.19	48.97	48.68	48.47	48.34	48.45	48.79	49.79	50.97	51.92
25	49.50	49.06	49.16	49.01	48.67	48.47	48.37	48.40	48.79	49.93	50.94	51.96
26	49.49	49.16	49.08	48.95	48.72	48.47	48.48	48.43	48.77	50.05	50.97	52.02
27	49.50	49.22	49.01	48.91	48.71	48.50	48.37	48.37	48.78	50.12	50.90	52.05
28	49.41	49.18	49.02	48.90	48.72	48.37	48.32	48.41	48.77	50.21	50.85	52.06
29	49.39	49.18	49.15	48.85		48.35	48.28	48.43	48.76	50.26	50.82	52.12
30	49.41	49.19	49.24	48.83		48.61	48.30	48.49	48.73	50.31	50.76	52.16
31	49.40		49.16	48.86		48.74		48.47		50.38	50.75	
MEAN	49.61	49.25	49.14	48.97	48.82	48.58	48.54	48.38	48.66	49.32	50.92	51.42
MAX	49.97	49.43	49.32	49.14	48.98	48.94	48.87	48.49	48.79	50.38	51.14	52.16
MIN	49.39	49.06	49.01	48.83	48.67	48.35	48.28	48.30	48.52	48.70	50.37	50.67
PILLIN	17.37	17.00	10.01	10.05	10.07	10.55	10.20	10.50	10.52	10.70	50.57	50.07

CAL YR 2000 MEAN 49.71 MAX 52.38 MIN 48.36 WTR YR 2001 MEAN 49.30 MAX 52.16 MIN 48.28

02268904 KISSIMMEE RIVER BELOW S-65, NEAR LAKE WALES, FL

LOCATION.--Lat $27^{\circ}48^{\circ}14^{\circ}$, long $81^{\circ}11^{\circ}53^{\circ}$ in $NW^{\frac{1}{2}}_{4}$ sec.11, T.31 S., R.31 E., Osceola County, Hydrologic Unit 03090101, on right bank at downstream side of lock and control structure S-65, 0.1 mi downstream from bridge on State Highway 60, and 25 mi southeast of town of Lake Wales.

DRAINAGE AREA.--1,607 mi², at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian.

PERIOD OF RECORD. -- October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by U.S. Army Corps of Engineers).

REMARKS. -- Gage heights partially regulated by operation of structure 65.

COOPERATION .-- Gage-height records provided by South Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 51.44 ft, Oct. 10, 1969; minimum daily, 41.55 ft, Apr. 4, 1977 (result of drawdown of Lake Kissimmee).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DATLY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL ATIG SEP 46.29 45.50 45.17 44.85 44.73 45.39 44.97 44.66 46.24 46.17 46.21 46.08 2 46.35 46.07 45.47 45.15 44.84 44.73 45.45 44.95 44.71 46.24 46.10 46 15 44.74 3 46.05 45.45 45.12 44.83 45.50 44.94 44.72 46.33 46.15 46.19 46.11 46.29 46.03 45.41 45.11 44.82 44.75 45.51 45.06 44.74 5 46 32 46 01 45 40 45 10 44 83 44 76 45 51 45.04 44 79 46 19 46 08 46 17 6 46.31 46.00 45.38 45.08 44 83 44.76 45.51 45.03 44.81 46.20 46.20 46 12 45.98 45.97 7 46.28 45.36 45.10 44.83 44.75 45.49 44.99 44.87 46.21 46.17 46.44 8 46.28 45.35 45.09 44.85 44.75 45.49 44.97 45.15 46.25 46.16 46.73 46.27 45.95 45.33 45.07 44.85 44.74 45.47 44.94 45.25 46.30 46.06 46.25 10 46.27 45.92 45.31 45.05 44.84 44.72 45.45 44.91 45.31 46.24 46.11 46.12 11 46 32 45.89 45.33 45 05 44 84 44 72 45 44 44 88 45.36 46 30 46 14 46.13 12 46.33 45.86 45.33 45.05 44.84 44.72 45.42 44.84 45.38 46.25 46.10 46.14 45.03 45.40 13 46.27 45.83 45.32 44.85 44.70 44.79 45.39 46.20 46.13 46.17 14 46 25 45.83 45.32 45.03 44.86 44 67 45.37 44.75 45.36 46 33 46.12 46 56 15 46.27 45.79 45.30 45.03 44.86 44.67 45.34 44.72 45.37 46.41 46.13 46.63 16 46 29 45.77 45 31 45 03 44 85 44 66 45 31 44 63 45 49 46 29 46 10 46 49 17 46.29 45.76 45.30 45.01 44.83 44.64 45.29 44.57 45.52 46.20 46.30 45.75 18 46.30 45.27 44.80 44.62 45.26 44.53 45.63 46.08 46.20 19 46 31 45.74 45.26 44 99 44.81 44 62 45 25 44.50 45.68 46 29 46 12 46 28 45.70 20 45.24 44.97 44.81 46.21 46.12 46.30 44.62 45.24 44.47 45.74 46.31 21 46 29 45 65 45 21 44 94 44 80 44 59 45 22 44 45 45 84 46 10 46 13 46 27 22 46.27 45.19 44.93 44.81 44.56 45.20 46.32 45.62 44.43 45.92 46.14 46.12 23 46.26 45.61 45.18 44.93 44.80 44.53 45.18 44.55 46.03 46.16 46.12 46.33 24 46 24 45.59 45 16 44 93 44.80 44 53 45 15 44 62 46 16 46 14 46 12 46 31 46.22 44.79 25 45.58 45.15 45.12 44.64 46.21 44.91 44.50 46.28 46.16 46.33 26 46 20 45 56 45 14 44 89 44 77 45 09 46 00 46 30 44 46 44 64 46 35 46 15 27 44.76 46.26 46.18 45.57 45.14 44.90 44.44 45.06 44.64 45.77 46.15 46.33 46.18 28 46.15 45.56 45.16 44.88 44.75 44.42 45.03 44.61 45.93 46.12 46.38 29 46 13 45.53 45 19 44 88 44 48 45 01 44 63 46 06 46 18 46 17 46 47 46.11 30 45.51 45.18 45.03 46.19 44.88 44.97 44.61 46.16 46.12 46.41 31 46.10 45.17 44.87 45.30 44.59 46.27 46.19 MEAN 46.26 45.79 45.28 45.01 44.82 44.67 45.30 44.74 45.47 46.23 46.14 46.30 MAX 46.35 46.08 45.50 45.17 44.86 45.30 45.51 45.06 46.28 46.41 46.32 46.73

CAL YR 2000 MEAN 46.10 MAX 46.50 MIN 44.97 WTR YR 2001 MEAN 45.50 MAX 46.73 MIN 44.42

45.14

45.51

MIN

46.10

44.87

KISSIMMEE RIVER BASIN

44.42

44.75

44.97

44.66

44.43

46.10

46.06

46.11

LOCATION.--Lat $27^{\circ}31^{\circ}18^{\circ}$, long $81^{\circ}12^{\circ}40^{\circ}$ in $NE^{\frac{1}{2}}$ sec.15, T.34 S., R.31 E., Highlands County, Hydrologic Unit 03090101, on right bank of natural river channel, 1.8 mi upstream from control structure 65-B, 6.0 mi northeast of Lorida and about 34 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--July 1993 to current year (gage heights only).

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.65 ft, Feb. 22, 1998; minimum, 34.03 ft, May 22, 2001.

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

					2							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.07	38.67	38.63	37.89			35.01	34.49	34.35	35.66	39.57	
2	39.24	38.66	38.63	37.69			35.00	34.48	34.41	35.49	39.72	
3	39.47	38.65	38.65	37.60			34.99	34.45	34.49	35.42	39.88	
4	39.55	38.65	38.64	37.52			34.97	34.51	34.52	35.23	40.25	
5	39.03	38.65	38.62	37.43			34.96	34.48	34.54	35.09	41.13	
6	38.85	38.65	38.61	37.38			34.96	34.46	34.52	34.98	41.56	38.01
7	39.23	38.65	38.61				34.95	34.43	34.53	34.90	41.76	38.41
8	39.51	38.64	38.60				34.94	34.41	34.65	34.87	41.84	40.14
9	39.35	38.64	38.61			34.74	34.92	34.38	34.73	34.96	41.73	41.04
10	38.82	38.64	38.62			34.72	34.90	34.36	34.72	35.22	41.37	41.30
11	38.97	38.65	38.63			34.71	34.88	34.34	34.72	35.47	41.15	41.56
12	38.93	38.65	38.64			34.74	34.88	34.30	34.76	35.96		41.77
13	38.67	38.64	38.64			34.72	34.86	34.27	34.80	36.41		41.93
14	38.66	38.63	38.63			34.69	34.84	34.25	34.82	36.79		42.31
15	38.60	38.64	38.64			34.69	34.82	34.23	34.81	37.95		42.77
16	38.54	38.62	38.62			34.67	34.79	34.19	34.86	39.06		43.02
17	38.45	38.62	38.61			34.65	34.75	34.17	34.87	39.33		43.07
18	38.42	38.64	38.62			34.63	34.70	34.13	34.83	39.29		43.02
19	38.53	38.63	38.60			34.63	34.71	34.10	34.85	39.51		42.90
20	38.79	38.64	38.60			34.62	34.71	34.09	34.95	39.51		42.75
21	38.79	38.62	38.59			34.59	34.69	34.07	35.12	39.42		42.63
22	38.76	38.61	38.60			34.57	34.67	34.05	35.21	39.37		42.52
23	38.74	38.60	38.60			34.57	34.66	34.30	35.24	39.32		42.43
24	38.71	38.60	38.60			34.55	34.62	34.41	35.26	39.21		42.38
25	38.70	38.61	38.59			34.53	34.59	34.38	35.33	39.11		42.38
26	38.69	38.65	38.58			34.51	34.56	34.36	35.83	39.35		42.38
27	38.68	38.66	38.58			34.49	34.54	34.35	36.22	39.68		42.38
28	38.69	38.65	38.60			34.49	34.53	34.34	36.09	40.02		42.40
29	38.69	38.65	38.63			34.52	34.51	34.35	35.94	40.00		42.48
30	38.69	38.64	38.40			34.94	34.49	34.33	35.82	39.88		42.54
31	38.68		38.14			35.03		34.32		39.67		
MEAN	38.85	38.64	38.59	37.58		34.65	34.78	34.32	34.99	37.62	40.91	41.94
MAX	39.55	38.67	38.65	37.89		35.03	35.01	34.51	36.22	40.02	41.84	43.07
MIN	38.42	38.60	38.14	37.38		34.49	34.49	34.05	34.35	34.87	39.57	38.01

CAL YR 2000 MEAN 39.24 MAX 40.91 MIN 38.14 WTR YR 2001 MEAN 37.29 MAX 43.07 MIN 34.05

02269149 KISSIMMEE RIVER AT C-38 NEAR LORIDA, FL

LOCATION.--Lat $27^{\circ}31^{\circ}26^{\circ}$, long $81^{\circ}12^{\circ}08^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.14, T.34 S., R.31 E., Okeechobee County, Hydrologic Unit 03090101, on left bank of dredged channel, 1.5 mi upstream from control structure 65-B, 6.5 mi northeast of Lorida, about 34 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- April 1994 to January 2001 (gage heights only) discontinued.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.30 ft, Nov. 15, 1997; minimum, 36.42 ft, Jan. 23, 2001.

GAGE HEIGHT, FEET, PERIOD OCTOBER 2000 TO JANUARY 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.84	38.42	38.39	37.66								
2	39.00	38.41	38.40	37.47								
3	39.19	38.41	38.41	37.38								
4	39.27	38.41	38.41	37.29								
5	38.80	38.41	38.39	37.21								
6	38.60	38.41	38.37	37.16								
7	38.99	38.41	38.38	37.11								
8	39.22	38.40	38.37	37.04								
9	39.09	38.40	38.38	37.01								
10	38.57	38.40	38.39	36.96								
11	38.72	38.41	38.39	36.91								
12	38.68	38.41	38.40	36.86								
13	38.40	38.40	38.40	36.83								
14	38.38	38.40	38.39	36.81								
15	38.32	38.40	38.40	36.78								
16	38.26	38.39	38.38	36.74								
17	38.19	38.38	38.38	36.71								
18	38.17	38.40	38.38	36.68								
19	38.27	38.39	38.37	36.63								
20	38.54	38.41	38.37	36.59								
21	38.53	38.38	38.36	36.54								
22	38.50	38.37	38.37	36.48								
23	38.47	38.36	38.37	36.44								
24	38.46	38.37	38.37									
25	38.45	38.38	38.36									
26	38.44	38.42	38.35									
27	38.44	38.43	38.34									
28	38.44	38.42	38.37									
29	38.45	38.41	38.40									
30	38.45	38.40	38.17									
31	38.44		37.91									
MEAN	38.60	38.40	38.36	36.93								
MEAN	38.60	38.40	38.36	36.93 37.66								
	39.27	38.43	37.91	36.44								
MIN	38.1/	38.30	3/.91	30.44								

CAL YR 2000 MEAN 39.00 MAX 40.71 MIN 37.91 WTR YR 2001 MEAN 38.15 MAX 39.27 MIN 36.44

02270500 ARBUCKLE CREEK NEAR DE SOTO CITY, FL

LOCATION.--Lat $27^{\circ}26'32"$, long $81^{\circ}17'51"$, in SE_{4}^{1} sec.11, T.35 S., R.30 E., Highlands County, Hydrologic Unit 03090101, on right bank 20 ft downstream from bridge on U.S. Highway 98, 1.3 mi upstream from mouth, and 7 mi east of De Soto City.

DRAINAGE AREA.--379 mi^2 , excludes area drained by Lake Weohyakapka and includes area drained by Lake Sebring.

PERIOD OF RECORD. -- June 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 35.51 ft above sea level. Since June 7, 1967 auxiliary water-stage recorder at site 1.3 mi upstream. See WDR FL-82-2 for history of changes prior to June 7, 1967.

REMARKS.--Records fair. Records include small diversions into Lake Arbuckle from Lake Weohyakapka through Blue Jordan Swamp.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE Y MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	159 154 158 210 211	47 46 46 44 44	34 34 35 34 33	33 33 31 31 31	25 24 20 23 23	1.5 1.5 1.7 2.4 2.3	124 115 80 60 53	13 13 12 64 44	26 20 20 19 22	48 42 49 211 323	716 680 772 775 717	142 129 122 115 111
6 7 8 9 10	199 186 178 139 133	44 44 45 43 42	32 33 31 31 31	32 30 30 26 25	25 23 19 18 16	.98 .84 .96 1.3 1.1	51 48 46 47 46	34 26 23 20 18	16 15 25 16 14	332 262 218 340 617	758 707 629 560 493	180 579 1030 1330 1270
11 12 13 14 15	119 107 95 87 82	39 38 38 40 37	31 33 32 34 33	29 30 27 28 29	14 13 12 11 9.8	.97 1.4 2.2 1.0 1.6	42 41 37 33 31	17 15 15 13 13	15 15 14 26 18	793 782 750 715 744	459 465 435 389 369	1230 1280 1370 2270 3030
16 17 18 19 20	74 69 66 63 61	36 37 36 36 37	33 34 32 31 33	29 29 29 28 24	9.5 7.3 3.8 4.4 4.8	1.6 .98 .68 .89	27 24 20 21 23	e11 e9.0 e8.0 e6.0 e4.0	18 12 39 49 50	792 1260 1200 1220 1230	333 310 298 318 312	2590 2090 1840 1660 1490
21 22 23 24 25	58 57 55 53 52	35 34 33 34 35	31 32 32 31 28	23 22 22 26 24	4.2 3.8 3.1 3.3 3.2	1.0 .77 .83 .87	21 20 20 19 18	e1.8 e10 80 40 44	35 30 33 27 36	1280 1390 1650 1670 1500	327 339 306 277 241	1380 1300 1280 1300 1280
26 27 28 29 30 31	52 50 50 50 50 48	35 34 34 35 34	31 32 36 32 34	24 25 25 26 27 26	2.6 2.1 1.9 	.77 .71 .70 1.7 85 92	14 13 13 13 13	34 28 24 31 21	57 153 163 103 76	1320 1190 1050 932 825 725	220 198 190 183 181 163	1260 1270 1260 1310 1330
TOTAL MEAN MAX MIN	3125 101 211 48	1162 38.7 47 33	1004 32.4 36 28	854 27.5 33 22	329.8 11.8 25 1.9	212.68 6.86 92 .68	1133 37.8 124 13	709.8 22.9 80 1.8	1162 38.7 163 12	25460 821 1670 42	13120 423 775 163	36828 1228 3030 111
							BY WATER					
MEAN MAX (WY) MIN (WY)	587 2748 1949 56.3 1973	259 920 1998 38.7 2001	176 1013 1998 32.4 2001	180 988 1998 27.5 2001	202 1702 1998 11.8 2001	227 1659 1998 6.86 2001	165 841 1998 9.38 1956	96.5 566 1957 3.26 1981	231 1272 1959 11.3 1989	395 1491 1974 32.5 1977	486 1547 1960 70.1 1950	682 2787 1948 92.3 1972
SUMMARY	STATISTI	CS	FOR 2	2000 CALEN	IDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1939	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY PEAK FLC PEAK STA ANEOUS LC	AN AN N MINIMUM W GE W FLOW		25825 70.6 248 10 11	Sep 23 Jun 13 Jun 7	,24	85100.28 233 3030 .68 .80 3180 6.97 .02 868	Sep 15 Mar 18 Mar 22 Sep 15 Sep 15	28	309 868 60.5 7180 a.00 .80 *7380 8.71	Mar 2 Sep 2	1939 1956 23 1948 22 2001 23 1948 23 1948
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			50 17			34 3.6			161 43			

KISSIMMEE RIVER BASIN

e Estimated a Nov. 23,30, Dec. 28, 1986, May 17-19,1996. * From rating curve extended above 5300ft³/s.

(Former national stream-quality accounting network station)

LOCATION.--Lat $27^{\circ}13'32"$, long $80^{\circ}57'46"$, in NE $\frac{1}{4}$ sec.30, T.37 S., R.34 E., Okeechobee County, Hydrologic Unit 03090101, at upstream side of lock and control structure S-65E, 1.8 mi downstream from State Highway 70, 8.2 mi upstream from mouth, and 8.5 mi west of Okeechobee.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--October 1928 to September 1962, October 1962 to September 1964 (elevations only), October 1964 to current year. Prior to October 1964, published as Kissimmee River near Okeechobee. Monthly discharges only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by U.S. Army Corps of Engineers). Prior to Apr. 28, 1949, nonrecording gage, and Apr. 28, 1949, to Sept. 30, 1964, water-stage recorder, 1.8 mi upstream at datum 1.37 ft lower. Auxiliary gage at downstream side of lock and control structure 65E.

REMARKS.--Records good. Flow regulated by operation of structure 65E beginning in October 1964. Discharge computed from relation between discharge, head, and gate openings. Records do not include diversions from Lake Istokpoga through control structure 68 on Canal 41A, which began July 1962.

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

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in August 1928, resulting from hurricane, reached a stage of 28.9 ft, present datum, discharge, 20,000 $\rm ft^3/s$, from rating curve extended above 14,000 $\rm ft^3/s$.

		DISCHARG	E, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	33 196 56 132 164	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00			.00 .00 .00 .00	.00 .00 .00 .00	260 245 109 110 351	784 1440 1810 1720 2010	802 471 240 320 527
6 7 8 9 10	369 464 155 43 224	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	208 231 274 262 247	1880 1900 2720 3980 3730	852 1410 1410 1050 2060
11 12 13 14 15	189 36 173 334 306	.00 .00 .00 .00				.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	334 293 467 534 1150	4120 3470 2620 2440 1830	2450 2890 3930 4690 5380
16 17 18 19 20	48 24 99 156 24	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00			.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	935 1090 1280 1340 1210	1980 1910 1850 1620 1090	5940 6560 6870 6560 6380
	.00	.00 .00 .00 .00	.00 .00 .00 .00				.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00		1400 1540 1420 1140 921	5640 5480 5260 5090 4610
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 38 71 109 140	952 609 716 796 812 762	561 998 965 789 782 857	4650 5200 4880 4850 4580
	3225.00 104 464 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	358.00 11.9 140 .00	21397 690 1340 109	56277 1815 4120 561	111032 3701 6870 240
STATIS							BY WATER Y		•			
MEAN MAX (WY) MIN (WY)	1547 10000 1970 36.4 1973	684 4319 1995 .000 2001	743 6539 1998 .000 1989	1307 7864 1998 .000 1985	1524 6871 1998 .000 2001	1609 9326 1998 .000 1985	1484 4947 1993 .000 2001	920 2362 1984 .000 2001	813 4676 1982 .65 1981	1423 9670 1974 .80 1981	2109 7421 1974 13.6 1977	1971 6548 1995 189 1970
SUMMAI	RY STATIST	ICS	FOR 2	000 CALEND	AR YEAR	F	OR 2001 WAT	ER YEAF	2	WATER YE	EARS 1965	5 - 2001
ANNUAL HIGHES LOWEST LOWEST ANNUAL MAXIMUMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIMAXIMIM	L TOTAL L MEAN ST ANNUAL M ST ANNUAL M ST DAILY M I DAILY ME L SEVEN-DA L SEVEN-DA IM PEAK FL RCENT EXCEL RCENT EXCEL RCENT EXCEL	EDS		155695.00 425 2170 .00 .00 1240 120 .00	Apr 25 Many da May 8		192289.00 527 6870 .00 .00 21.40 1760 .00	Sep 18 Many 6 Oct 21 Jul 14	3 days	1344 3304 124 23500 .00 27900 27.00 3620 565 1.4	Oct) Ma) Ma Oct) Oct	1998 1981 3 1969 any days any days 3 1969 3 1969

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL--Continued

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

					DAIL	I MEAN VA	TUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.15	20.91	20.58		20.17	19.97	20.38	20.01	20.61	21.17		
2	21.13	20.90	20.56		20.17	19.97	20.38	20.01	20.68	21.11		
3	21.11	20.90	20.56		20.18	19.96	20.37	20.03	20.75	21.08		
4	21.06	20.90	20.55		20.19	19.95	20.37	20.10	20.77	21.12		
5	21.06	20.88	20.53		20.22	20.02	20.36	20.16	20.77	21.16		
6	21.08	20.86	20.52		20.20	19.99	20.34	20.18	20.77	21.11		
7	20.93	20.85	20.51		20.18	19.98	20.33	20.20	20.78	21.20		
8	20.95	20.83	20.50		20.18	19.97	20.31	20.22	20.79	21.08		
9	20.96	20.82	20.49		20.17	19.91	20.31	20.23	20.83	21.00		
10	20.89	20.82	20.49		20.17	19.92	20.26	20.24	20.89	21.04		
11	21.15	20.80	20.50		20.16	19.89	20.25	20.24	20.89	21.16		
12	21.07	20.79	20.50		20.17	19.87	20.22	20.26	20.90	21.16		
13	21.01	20.76	20.49		20.14	19.87	20.21	20.27	20.90	21.13		
14	21.08	20.77	20.48		20.13	19.87	20.20	20.28	20.90	21.22		
15	20.97	20.76	20.48		20.11	19.86	20.19	20.29	20.90	21.25		
16	20.93	20.74	20.46		20.11	19.85	20.16	20.29	20.90	21.02		
17	20.91	20.74	20.47		20.09	19.86	20.15	20.30	20.90	20.97		
18	21.05	20.73	20.46		20.09	19.86	20.11	20.29	20.91	20.93		
19	20.94	20.72			20.08	19.90	20.07	20.29	20.90	20.82		
20	20.93	20.72			20.04	19.94	20.04	20.30	20.88	20.81		
21	20.92	20.71			20.04	19.94	20.02	20.30	20.92	20.98		
22	20.92	20.69			20.02	19.90	20.02	20.33	20.95	21.26		
23	20.90	20.67				19.89	19.98	20.43	20.99	21.19		
24	20.92	20.64				19.87	19.97	20.45	21.03			
25	20.92	20.64				19.85	19.98	20.46	21.05			
26	20.92	20.64		20.20		19.84	20.01	20.47	21.08			
27	20.92	20.64		20.18		19.84	19.99	20.47	21.16			
28	20.91	20.63		20.18	19.97	19.81	19.98	20.47	21.09			
29	20.90	20.62		20.18		19.87	19.97	20.48	21.14			
30	20.91	20.60		20.20		20.17	19.99	20.51	21.17			
31	20.91			20.19		20.30		20.53				
MEAN	20.98	20.76	20.51	20.19	20.13	19.93	20.16	20.29	20.91	21.09		
MAX	21.15	20.91	20.58	20.20	20.22	20.30	20.38	20.53	21.17	21.26		
MIN	20.89	20.60	20.46	20.18	19.97	19.81	19.97	20.01	20.61	20.81		

CAL YR 2000 MEAN 20.92 MAX 21.23 MIN 20.46 WTR YR 2001 MEAN 20.51 MAX 21.26 MIN 19.81

02273001 KISSIMMEE RIVER BELOW S-65E, NEAR OKEECHOBEE, FL

LOCATION.--Lat $27^{\circ}13^{\circ}32^{\circ}$, long $80^{\circ}57^{\circ}46^{\circ}$, in $NE^{\frac{1}{4}}_{4}$ sec.30, T.37 S., R.34 E., Okeechobee County, Hydrologic Unit 03090101, at downstream side of lock and control structure S-65E, 1.8 mi downstream from State Highway 70, 8.2 mi upstream from mouth, and 8.5 mi west of Okeechobee.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 18.56 ft, Mar. 25, 27, 28, 1998; minimum daily, 9.00 ft, May 24, 2001.

			GAGE HEI	GHT, FEET,		YEAR OCTOB LY MEAN VA		O SEPTEMBE	ER 2001			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.97	12.03	11.44	10.99	10.95	10.49	10.09	9.44	9.15	9.38		11.98
2	12.07	12.02	11.49	10.91	10.86	10.50	10.15	9.52	9.26	9.34		11.97
3	12.30	11.96	11.28	10.89	10.67	10.62	10.39	9.45	9.18	9.32		11.97
4	12.43	11.97	11.12	10.82	10.80	10.59	10.29	9.49	9.36	9.30		11.97
5	12.28	12.01	11.20	11.03	10.70	9.93	10.22	9.39	9.69	9.23		11.95
6	12.34	12.08	11.31	11.06	10.80	9.93	10.27	9.38	9.93	9.26		11.96
7	12.33	12.09	11.39	11.03	10.81	10.06	10.27	9.39	9.80	9.32		11.98
8	12.26	12.07	11.42	11.05	10.83	10.26	10.29	9.36	9.24	9.26		12.17
9	11.60	12.09	11.44	10.68	10.83	10.29	10.28	9.38	9.18	9.23		12.33
10	12.14	11.95	11.44	10.68	10.81	10.33	10.24	9.38	9.18	9.35		12.45
11	12.18	11.75	11.48	10.98	10.80	10.26	10.24	9.39	9.32	9.42		12.50
12	12.16	11.80	11.44	10.97	10.83	10.43	10.22	9.34	9.30	9.48		12.61
13	12.21	11.94	11.48	10.74	10.80	10.32	10.14	9.35	9.24	9.46		12.69
14	12.20	11.90	11.43	10.91	10.82	10.27	10.01	9.33	9.25	9.54		13.40
15	12.14	11.58	11.46	10.94	10.83	10.33	9.96	9.40	9.20	9.53		13.02
16	12.17	11.77	11.51	10.98	10.86	10.32	9.84	9.23	9.20	9.71		13.08
17	12.22	11.81	11.28	10.96	10.70	10.19	9.72	9.18	9.14	9.81		13.23
18	12.19	11.70	11.22	10.98	10.44	10.06	9.31	9.21	9.16	9.88		13.38
19	12.22	11.79	11.13	11.06	10.68	10.33	9.67	9.31	9.10	9.92		13.49
20	12.22	11.40	11.06	10.80	10.71	10.28	9.83	9.19	9.10	9.95		13.53
21	12.20	11.10	11.11	10.60	10.67	10.13	9.77	9.20	9.11	10.15		13.58
22	12.13	11.29	11.10	10.52	10.64	10.03	9.80	9.15	9.14	10.40		13.61
23	12.04	11.54	11.05	10.59	10.55	10.19	9.83	9.24	9.15	10.55		13.66
24	12.04	11.66	10.96	10.84	10.70	10.24	9.78	9.00	9.19			13.76
25	12.06	11.64	10.99	10.77	10.72	10.19	9.65	9.16	9.22			13.78
26	12.03	11.58	11.19	10.80	10.61	10.14	9.30	9.23	9.24			13.77
27	12.01	11.44	11.22	10.91	10.65	9.96	9.49	9.18	9.30			13.82
28	12.08	11.47	11.25	10.88	10.52	10.13	9.56	9.20	9.27			13.94
29	12.12	11.48	11.02	10.96		10.22	9.53	9.19	9.34			13.91
30	12.07	11.36	10.77	10.97		10.38	9.53	9.13	9.38		11.96	13.88
31	12.06		10.86	10.94		10.28		9.19			12.03	
MEAN	12.14	11.74	11.24	10.88	10.74	10.25	9.92	9.29	9.28	9.60	11.99	12.98
MAX	12.43	12.09	11.51	11.06	10.95	10.62	10.39	9.52	9.93	10.55	12.03	13.94
MIN	11.60	11.10	10.77	10.52	10.44	9.93	9.30	9.00	9.10	9.23	11.96	11.95

CAL YR 2000 MEAN 13.16 MAX 16.15 MIN 10.77 WTR YR 2001 MEAN 10.76 MAX 13.94 MIN 9.00

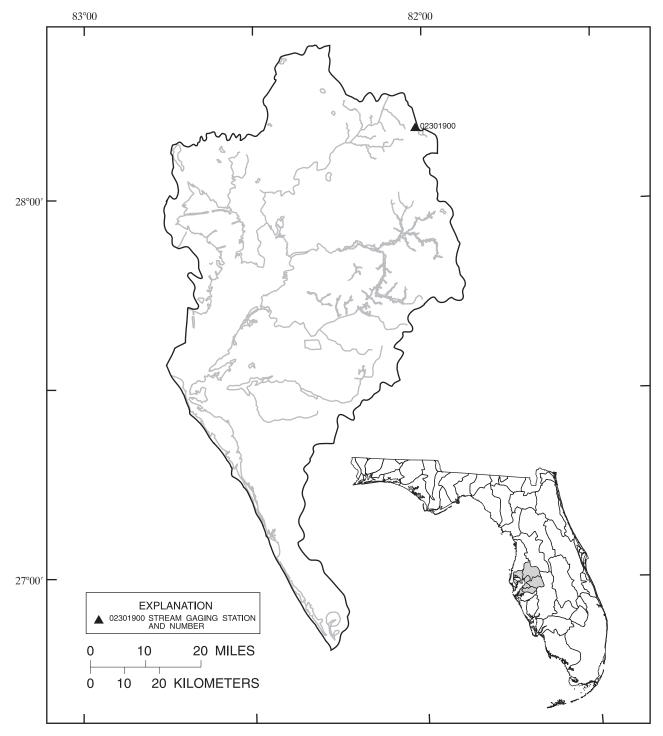


Figure 9.--Location of stream gaging stations in the Manatee, Little Manatee, Alafia, and Hillsborough River basins, and Tampa Bay and coastal areas.

02301900 FOX BRANCH NEAR SOCRUM, FL

LOCATION.--Lat $28^{\circ}10^{\circ}55^{\circ}$, long $82^{\circ}00^{\circ}45^{\circ}$, in $NE^{\frac{1}{4}}_{4}$ sec.33, T.26 S., R.23 E., Polk County, Hydrologic Unit 03100205, near center of span on downstream side of bridge on Rock Ridge Road, 1.1 mi northeast of Socrum, 8.7 mi upstream from mouth, and 10 mi north of Lakeland.

DRAINAGE AREA. -- 9.5 mi².

PERIOD OF RECORD. -- December 1963 to current year.

REVISED RECORDS.--WRD FL 1969: 1968 (M).

GAGE.--Water-stage recorder. Datum of gage is 110.00 ft above sea level.

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Some diversion at times by pumpage for irrigation.

50010111												
		DISCHARG	E, CUBIC	C FEET PER		WATER YE Y MEAN V	EAR OCTOBER ALUES	2000 TO	SEPTEMBE	ER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	52 15 7.1 5.0 3.9	e1.1 e1.2 e1.1 e1.1	2.1 2.0 1.8 1.7	2.3 2.7 2.1 1.7 1.6	.70 .75 .70 .71 .74	.00 .00 .00 .14 .93	29 16 7.4 5.5 4.0	.96 1.0 1.0 1.0	.37 .58 .43 .30	1.1 .67 .45 .39 .55	17 29 65 64 53	6.4 6.0 5.7 5.3 5.9
6 7 8 9 10	3.3 2.8 2.4 2.1 1.7	e1.1 e1.1 1.2 1.2	1.7 1.5 1.4 1.4	1.9 1.7 1.5 2.2 2.0	.67 .55 .44 .37	.61 .25 .09 .06	3.3 2.8 2.4 2.3 2.3	.82 .71 .65 .62	. 22 . 29 . 46 . 47 . 34	.66 .53 .45 .39	53 44 33 31 26	31 187 214 315 290
11 12 13 14 15	1.6 1.5 1.4 1.4	1.3 1.2 1.2 1.3 1.6	1.2 1.6 1.8 1.7	1.9 1.7 1.4 1.3	.29 .30 .22 .17 .14	.01 .00 .00 .00	2.1 1.8 1.7 1.7	.60 .56 .52 .54	.24 .17 .14 .12	.59 .61 .65 1.0	19 27 30 35 24	211 116 54 614 1020
16 17 18 19 20	1.3 1.3 1.2 1.2 e1.3	1.5 1.5 1.6 1.6	1.7 2.0 2.1 1.9 1.8	1.1 1.1 1.1 1.1 1.2	.13 .08 .06 .02	.00 .00 .00 2.8	1.5 1.5 1.4 1.4	.52 .45 .36 .31	.09 .05 .04 .07	6.4 4.9 19 9.5 4.8	16 13 15 39 40	374 108 61 38 22
21 22 23 24 25	e1.3 e1.2 e1.2 e1.1 e1.1	1.4 1.3 1.2 1.2	1.9 2.6 2.3 1.8 1.7	1.2 1.2 1.1 1.0	.02 .00 .00 .00	5.6 .89 .36 .17 .06	1.3 1.2 1.1 1.1 .98	.21 .29 .32 .27 .21	.27 .51 .55 .66	3.8 2.9 2.3 9.1 6.6	35 50 29 17 13	14 10 11 11 14
26 27 28 29 30 31	e1.1 e1.3 e1.2 e1.2 e1.3 e1.2	2.3 3.4 3.0 2.5 2.3	1.6 1.5 1.7 2.2 2.1	.95 .86 .77 .68 .66	.00 .00 .00 	.01 .00 .00 1.5 34	1.0 1.0 .92 .84 .85	.32 .26 .46 1.2 .65	.38 .42 .48 .82 1.4	18 12 3.3 1.8 1.3	10 8.8 8.1 7.5 6.9	14 11 10 9.0 8.4
TOTAL MEAN MAX MIN CFSM IN.	122.1 3.94 52 1.1 .41 .48	45.5 1.52 3.4 1.1 .16	55.3 1.78 2.6 1.2 .19	42.82 1.38 2.7 .64 .15	7.39 .26 .75 .00 .03	104.52 3.37 40 .00 .35 .41	101.29 3.38 29 .84 .36 .40	17.50 .56 1.2 .21 .06	10.91 .36 1.4 .04 .04	132.02 4.26 19 .39 .45	864.9 27.9 65 6.6 2.94 3.39	3796.7 127 1020 5.3 13.3 14.87
STATIST	TICS OF MC	NTHLY MEAN	DATA FO	OR WATER YE	EARS 196	7 - 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	5.63 17.5 1970 .71 1979	3.66 20.4 1998 .38 1979	7.58 121 1998 1.44 1983	5.96 16.5 1970 1.33 1981	7.48 39.7 1998 .26 2001	8.36 39.2 1983 .63 2000	4.00 24.2 1984 .000 1977	2.80 14.7 1979 .012 1977	9.40 61.5 1968 .36 2001	14.3 95.7 1991 .74 1981	16.9 65.0 1995 1.84 1980	21.6 127 2001 .46 1978
SUMMARY	STATISTI	CS	FOR 2	2000 CALENI	DAR YEAR	I	FOR 2001 WA	TER YEAR		WATER Y	EARS 1967	7 - 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY PEAK FLC PEAK STA RUNOFF (I RUNOFF (I TENT EXCEE CENT EXCEE	AN AN AN MINIMUM GE (GE (FSM) NCHES) CDS		2023.59 5.53 138 .00 .00 .58 7.92 5.8 1.4		ays	5300.95 14.5 1020 .00 .00 1450 8.28 1.53 20.76 23	Feb 22 Sep 14 Sep 14	ays	8.9' 22.3 3.2' 1020 .0(.00) 1790 8.2' .9' 12.8' 17	Sep Son Son Dec Sep 4	1998 1981 15 2001 ne years ne years 27 1997 14 2001
90 PERC	50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			.08			.12			.84	4	

e Estimated

308 HILLSBOROUGH RIVER BASIN

02301900 FOX BRANCH NEAR SOCRUM, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-87, 1995 to current year.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV							
08	1720	1.2	3.42	340	7.2	20.3	3.5
DEC 26	1815	1.5	3.58	340	7.2	13.0	7.0
APR							
09	1420	2.3	3.52	350	7.1	21.5	4.4
JUN							
04	1605	.29	3.42	355	7.0	25.1	3.1
AUG 01	1020	18	4.38	203	6.8	24.2	3.6
SEP	1020		2.50	200	0.0	22	3.0
27	1440	11	4.37	242	6.7	24.0	4.1

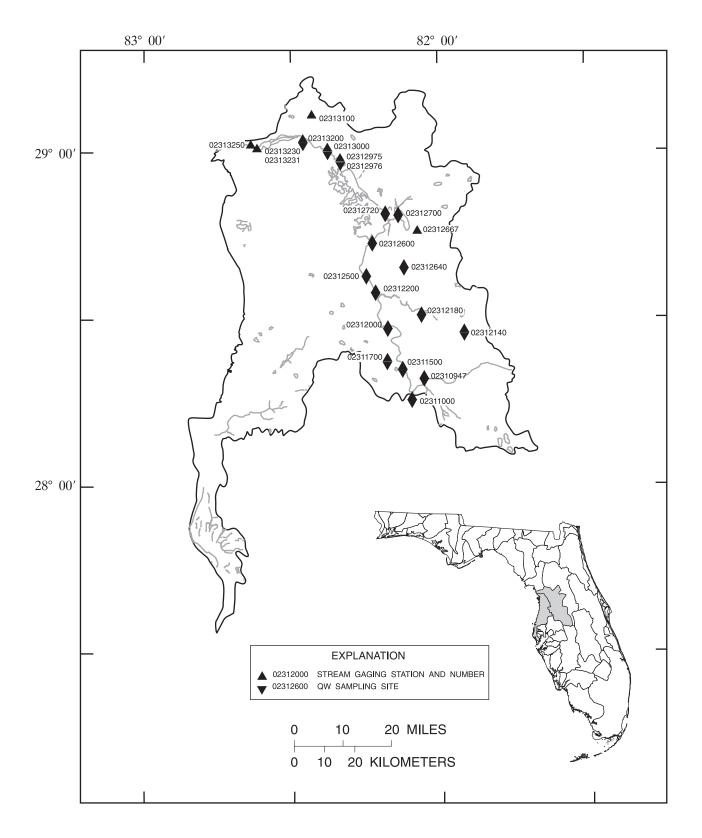


Figure 10.--Location of stream gaging stations in the Withlacoochee River basin and coastal areas.

02310947 WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL

LOCATION.--Lat $28^{\circ}18^{\circ}42^{\circ}$, long $82^{\circ}03^{\circ}22^{\circ}$, in $NE^{\frac{1}{4}}_{4}$ sec.13, T.25 S., R.22 E., Pasco County, Hydrologic Unit 03100208, near left bank on downstream side of bridge on State Highway 471, 0.6 mi upstream from Gator Creek, 3.4 mi south of Cumpressco, 5.8 mi east of Richland, and 120 mi upstream from mouth.

DRAINAGE AREA. -- 280 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 75.00 ft above sea level (Florida Department of Transportation bench mark). Prior to Aug. 3, 1978, at datum 5.00 ft higher.

REMARKS.--Records fair. Some interconnection with Gator Creek and some diversions to the north may exist during periods of extreme high water.

		DISCHARG	E, CUBIC	FEET PER		ATER YE MEAN VA	CAR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.04 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	9.6 14 24 25 35	55 47 41 35 29
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	47 44 34 32 41	29 50 148 386 617
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	79 312 446 453 419	713 726 693 982 1690
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	402 379 338 346 361	2110 2210 2140 1980 1760
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	e.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	325 264 212 173 140	1520 1300 1130 945 831
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00	e.00 e.00 e.00 e.00 e.00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .01 .05 .03	117 99 88 79 71 63	702 605 547 476 413
TOTAL MEAN MAX MIN	0.05 .002 .04 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.13 .004 .05 .00	5471.6 177 453 9.6	24910 830 2210 29
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER YE	ARS 1967	- 2001,	BY WATER Y	TEAR (WY)				
MEAN MAX (WY) MIN (WY)	156 708 1980 .002 2001		97.8 1638 1998 .000 2001	116 1203 1998 .000 1981	132 963 1998 .000 2001	161 1076 1998 .000 2001	93.9 867 1987 .000 1999	15.2 132 1979 .000 1967	48.0 505 1968 .000 1977	160 913 1991 .000 2000	258 670 1995 .000 2000	304 1024 1979 .006 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	AR YEAR	F	OR 2001 WAT	ER YEAR		WATER Y	EARS 1967	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE			240.21 .66 9.0 .00	Jan 1 Many day Mar 11	rs	30381.78 83.2 2210 .00 .00 2220 13.82 143	Sep 17 Many da Oct 3 Sep 17 Sep 17	уs	134 457 8.6 e3250 .(Dec 2 00 Mai 00 Mai	1998 1999 29 1997 ny days ny days	
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				3.3 .00 .00			.00 .00			435 21 .(

e Estimated

a May have been higher during period of no record, Dec. 15-30, 1997

02310947 WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1965, 1967 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
AUG 28 SEP	1225	7.25	88		1.6	7.0	25.9						
24	1245	11.20	924	480	1.8	6.2	25.4	31	9.7	1.7	2.7	3.3	E18cl
DATE	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
AUG 28						E4.6cl	.44	.07	.03	.24	.29		
SEP 24	5.4	.1	4.9	1.4	156	2.3	.11	<.02	.01	.32	.35	50	478
DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	
SEP 24	1.2	<1.0	2.1	721	792	1.3	<1.0	64	65	<1.0	42	5.8	

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL

LOCATION.--Lat $28^{\circ}16^{\circ}16^{\circ}$, long $82^{\circ}05^{\circ}53^{\circ}$, in NN^{\downarrow}_{4} sec.34, T.25 S., R.22 E., Pasco County, Hydrologic Unit 03100208, on left bank, 20 ft downstream from bridge on U.S. Highway 98, 0.6 mi south of channel of Withlacoochee River, 2.9 mi east of Richland, 8.5 mi southeast of Dade City, and 55 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--February 1930 to September 1931; September 1950, July 1958 to March 1960 (discharge measurements only); April 1960 to current year. Published as supplement to Hillsborough River near Zephyrhills (station 02303000) July 1958 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 75.42 ft above sea level (Florida Department of Transportation bench mark). Prior to July 17, 1958, nonrecording gage at site about 1 mi downstream at different datum; July 17, 1958, to Apr. 24, 1960, nonrecording gage and crest-stage gage at present site and datum.

REMARKS.--Records good. Flow is uncontrolled natural diversion from the Withlacoochee River basin to the Hillsborough River

		DISCHAR	GE, CUBIC	FEET PER		WATER Y	YEAR OCTOBER VALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .41 3.9 40 128
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 1.0 21 37 38	216 252 245 371 705
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	37 36 29 24 29	902 959 937 902 826
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	34 25 14 7.2 2.8	724 644 602 476 401
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.59 .00 .00 .00	313 248 197 157 121
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	.000 .00 .00	.000	0.00 .000 .00	.000	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	335.59 10.8 38 .00	10370.31 346 959 .00
							1, BY WATER Y					
MEAN MAX (WY) MIN (WY)	25.0 222 1980 .000 1962	3.21 71.8 1989 .000 1962	16.1 444 1998 .000 1961	17.4 272 1998 .000 1961	16.0 192 1998 .000 1962	26.3 214 1998 .000 1961	268 1930 .000	1.10 21.8 1931 .000 1961	10.7 271 1930 .000 1960	26.1 305 1991 .000 1969	53.1 372 1960 .000 1980	76.6 521 1960 .000 1970
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR		FOR 2001 WAT	TER YEAR		WATER Y	ZEARS 193	30 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				Many da Jan 1	iys	10705.90 29.3 959 .00 .00 965 5.72 1.7 .00	Sep 17 Many d Oct 1 Sep 17 Sep 17	ays	21.5 98.1 .0 1270 .0 1880 6.8 52	L 005 Seg 00 M 00 Mar 37 Mar	1998 2000 0 14 1960 dany days tany days 19 1960 19 1960	

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL--Continued

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											.78	2.65
2											.99	2.63
3											1.26	2.60
4											1.33	2.57
5											1.49	2.56
6											1.83	2.62
7											1.90	2.78
8											1.92	2.97
9											2.00	3.38
10											2.29	3.89
11											2.63	4.25
12											2.82	4.38
13											3.25	4.35
14											3.40	4.68
15											3.41	5.34
16											3.40	5.64
17											3.39	5.71
18											3.33	5.68
19											3.29	5.64
20											3.34	5.52
21											3.38	5.37
22											3.30	5.23
23											3.17	5.16
24											3.06	4.92
25											2.96	4.75
26											2.87	4.53
27											2.80	4.33
28											2.75	4.14
29										.66	2.72	3.97
30										.67	2.69	3.81
31										.57	2.67	
MEAN										.63	2.59	4.20
MAX										.67	3.41	5.71
MIN										.57	.78	2.56

CAL YR 2000 MEAN 1.40 MAX 1.78 MIN .71 WTR YR 2001 MEAN 3.26 MAX 5.71 MIN .57

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1930-1931, 1950, 1958-61, 1963, 1966, 1969-85, 1989, 1991, 1993-98, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)
SEP 19	1755	5.62	890	280	1.9	6.1	56	24.5	28	9.0	1.3	2.1	2.0
DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
SEP 19	E19cl	3.0	<.1	3.2	1.4	E104cl	1.7	.07	<.02	<.01	.45	.49	33

STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080) DATE

SEP 19... 22

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL

LOCATION.--Lat $28^{\circ}21^{\circ}08^{\circ}$, long $82^{\circ}07^{\circ}34^{\circ}$, in SE^{1}_{4} sec.32, T.24 S., R.22 E., Pasco County, Hydrologic Unit 03100208, on left bank 50 ft downstream from Lanier Bridge on River Road, 4 mi east of Dade City, and 110 mi upstream from mouth.

DRAINAGE AREA. -- 390 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1930 to March 1933, July 1958 to October 1962 (discharge measurements only), water years 1959-62 (annual maximum), January 1964 to September 1983 (discharge measurements and gage heights only); October 1983 to current

REVISED RECORDS. -- WRD FL 1962: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Feb. 11, 1930 to Mar. 31, 1933, and July 21 to Nov. 19, 1958, nonrecording gage, and Nov. 20, 1958 to Oct. 3, 1962, non-recording gage and crest-stage gage at same site at datum 64.29 ft higher. Jan. 21, 1964 to Oct. 8, 1987, nonrecording gage at same site and datum.

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

REMARKS.--Records fair except for Aug. 14 to Sept. 20, which are poor. High-water diversion above station into Hillsborough River basin through Withlacoochee-Hillsborough Overflow near Richland (station 02311000).

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	e74 e64 e53 e43 e42
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e49 e49 e70 e139 e386
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	57 80 119 e262 e413	e637 e692 e659 e864 e1300
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00		e394 e387 e414 e435 e476	e1970 e2410 e2630 e2680 e2600
21 22 23 24 25	.00 .00 .00 .00			.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00			e473 e411 e350 e306 e258	
26 27 28 29 30 31	.00 .00 .00 .00 .00	e.00 e.00 e.00 e.00 e.00	e.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	e209 e169 e139 e116 e101 e89	1480 1300 1150 995 858
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00		0.00 .000 .00				0.00 .000 .00	0.00 .000 .00	5677.00 183 476 .00	33354 1112 2680 42
STATIST						- 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	186 890 1996 .000 2001	89.1 430 1998 .000 2001	147 1746 1998 .000 2001	191 1487 1998 .000 2001	139 1025 1998 .000 2001	186 1262 1998 .000 2001	211 1089 1987 .000 2000	36.4 263 1931 .000 2000	79.5 699 1930 .000 1992	151 1022 1991 .000 2000	250 897 1995 .000 2000	339 1197 1988 .000 2000
SUMMARY						F	OR 2001 WAT	TER YEAR		WATER	YEARS 1930	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			337.80 .92 11 .00 .00	Jan 8 Many da Mar 10	ys	39031.00 107 e2680 .00 a3120 a77.14 139	Sep 19 Many da Oct 1 Sep 19 Sep 19	ys	162 547 10. 3880 *5900 78. 462 35	4 Dec 00 Ma 00 Ma Mar 57 Mar	1998 2000 31 1997 ny days ny days 21 1960 21 1960	

^{*} From rating curve extended above 3,600 ft³/s

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL--Continued

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

DIED PER VIDORO												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10											69.10	
11											70.16	
12											70.51	
13											70.94	
14												
15												
1.0												
16												
17												
18 19												
20												
20												
21												76.55
22												76.35
23												76.33
24												75.99
25												75.75
23												75.75
26												75.38
27												75.03
28												74.71
29												74.39
30												74.08
31												
~-												
MEAN												
MAX												
MIN												

02311700 DADE CITY CANAL NEAR DADE CITY, FL

LOCATION.--Lat $28^{\circ}22^{\circ}55^{\circ}$, long $82^{\circ}10^{\circ}48^{\circ}$, in SW_{4}^{1} sec.23, T.24 S., R.21 E., Pasco County, Hydrologic Unit 03100208, near center of span, on downstream side of bridge over Evans Canal immediately upstream from confluence with Pasco Beverage Company Canal, 1.0 mi downstream from Pasco Beverage Company at Dade City, and 4.0 mi upstream from Withlacoochee River.

DRAINAGE AREA. -- 35 mi².

PERIOD OF RECORD.--February 1957 to October 1962 (discharge measurements for Pasco Beverage Company and Evans Canals only). November 1962 to current year (discharge measurements only). Prior to October 1985, published with station 02312000 Withlacoochee River at Trilby.

GAGE.--Nonrecording gage. Datum of gage is at sea level. Prior to Aug. 16, 1961, nonrecording gage 150 ft upstream at different datum.

REMARKS.--Discharge measurements made near bridge over Dade City Canal, 30 ft downstream from confluence of Pasco Beverage Company and Evans Canals. Water is diverted from ground-water sources through canals to the With

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 103 ft³/s, Feb. 24, 1967; no flow observed Dec. 2, 1964, Aug. 24, 1965, Oct. 1, 1979, Sept. 27, 2001.

DISCHARGE MEASUREMENTS AND WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			DIS-		PH		
			CHARGE,	SPE-	WATER		
			INST.	CIFIC	WHOLE		
			CUBIC	CON-	FIELD	TEMPER-	OXYGEN,
		GAGE	FEET	DUCT-	(STAND-	ATURE	DIS-
DATE	TIME	HEIGHT	PER	ANCE	ARD	WATER	SOLVED
		(FEET)	SECOND	(US/CM)	UNITS)	(DEG C)	(MG/L)
		(00065)	(00061)	(00095)	(00400)	(00010)	(00300)
NOV							
09	1330	68.62	4.7	530	7.5	23.9	5.4
DEC	1330	00.02	1. /	330	7.5	23.5	3.1
27	1505	68.56	4.5	458	7.5	19.5	7.1
FEB							
27	0945	68.50	2.5	634	7.7	23.2	6.0
APR							
10	1025	68.60	2.4	820	8.1	24.7	8.4
JUN							
05	1150	68.56	4.9	586	6.9	27.7	4.8
JUL							
31	1010	68.83	2.8	536	7.4	30.0	6.1
SEP							
27	1100	70.90	.00				

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL

LOCATION.--Lat $28^{\circ}28^{\circ}47^{\circ}$, long $82^{\circ}10^{\circ}40^{\circ}$, in $SE^{\frac{1}{4}}$ sec.14, T.23 S., R.21 E., Hernando County, Hydrologic Unit 03100208, on right bank at downstream side of bridge on U.S. Highway 301, 1.6 mi northeast of Trilby, 10 mi upstream from Little Withlacoochee River, and 93 mi upstream from mouth.

DRAINAGE AREA. -- 570 mi², approximately.

PERIOD OF RECORD.--August 1928 to February 1929, February 1930 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 49.27 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Oct. 1, 1938, nonrecording gage at site 1.5 mi downstream at datum 0.12 ft lower.

REMARKS.--Records fair. High-water diversion above station into Hillsborough River basin through Withlacoochee-Hillsborough Overflow near Richland (station 02311000). Records include water diverted from ground-water supplies through Dade City Canal (station 02311700) by citrus processing plants, in SW_4^1 sec.23, T.24 S., R.21 E., 5 mi upstream from Withlacoochee River.

		DISCHAR	GE, CUBIC	FEET PER			YEAR OCTOBER VALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 12 11 12 11	5.9 5.6 5.5 5.7 5.9	6.8 7.0 7.0 6.9 7.1	7.2 6.7 6.4 6.1 5.7	6.9 5.8 5.0 4.7 4.4	5.1 5.1 5.2 e5.1 e4.8	5.6 5.0 4.8	3.5 3.6 3.7 3.7 4.0	2.3 3.1 2.5 1.7 1.6	4.0 3.5 2.5 2.5	13 14 15 16 22	298 262 226 186 154
6 7 8 9 10	11 10 10 9.7 9.7	6.2 6.5 6.7 6.6 6.3	7.0 6.7 6.6 6.7 6.9	5.6 5.4 5.5 5.7 5.4	4.1 4.0 4.2 4.8 5.0	e4.6 4.4 4.8 4.7 5.0	4.9	3.7 3.4 3.3 3.2 3.0	1.8 2.3 2.0 1.5 1.2	2.2 2.8 2.6 2.4 2.8	28 37 38 36 49	125 103 93 89 129
11 12 13 14 15	10 10 10 10 11	6.3 6.2 6.0 6.2 6.3	7.1 7.6 7.2 7.1 7.4	5.1 5.3 5.5 5.3 5.5	5.2 5.2 5.0 4.8 4.9	5.2 5.1 5.2 4.7 4.6	5.5 5.2 5.4 5.6 5.5	3.0 2.9 2.8 2.5 2.6	1.0 .90 .71 1.1 1.7	4.7 5.8 6.7 7.0 5.5	53 50 48 47 47	126 119 146 267 515
16 17 18 19 20	9.9 9.6 9.9 10 9.8	5.9 5.9 6.2 6.0 6.1	7.5 7.6 7.5 7.9	5.7	4.9 4.7 4.5 4.6 4.6	4.9 4.6 4.5 5.5 6.3	5.5 5.6 5.4 5.2 5.5	2.6 2.4 2.3 2.1 1.9	1.4 1.1 1.2 4.2 4.0	4.3 4.4 4.0 4.2 3.1	49 52 53 53 117	782 984 1180 1440 1760
21 22 23 24 25	9.9 10 10 6.4 5.6	6.2 6.3 6.3 6.3 7.2	7.6 7.5 7.3 7.1 7.1	5.2 4.9 4.4 3.9 4.0	4.8 4.8 4.7 4.7	5.2 4.7 5.0 5.2 5.4	5.1 4.7 4.4	1.9 2.1 2.3 2.2 1.9	2.6 1.7 3.6 5.5 4.9	3.0 3.1 3.1 3.0 2.8	217 278 322 361 e397	2100 2400 2670 2770 2860
26 27 28 29 30 31	5.7 5.8 5.7 5.7 5.9 6.0	10 9.0 7.8 7.4 7.2	7.3 7.3 8.0 8.4 7.9 7.5	3.8 3.8 4.3 4.5 4.9 7.4	5.1 5.1 5.2 	5.3 5.1 4.8 6.6 8.7 6.9	4.2 4.2 3.9 3.8 3.7	1.7 1.7 1.8 2.2 2.0	2.9 2.0 1.8 2.1 2.8	3.6 e3.7 e2.6 e2.4 2.6 3.7	e419 e428 421 399 370 336	2940 2910 2810 2680 2520
TOTAL MEAN MAX MIN	285.3 9.20 12 5.6	195.7 6.52 10 5.5			136.6 4.88 6.9 4.0	162.3 5.24 8.7 4.4	5.01 6.3	81.7 2.64 4.0 1.7	67.21 2.24 5.5 .71	110.5 3.56 7.0 1.9	4785 154 428 13	35644 1188 2940 89
STATIST	rics of MC	NTHLY MEAN	N DATA FOI	R WATER Y	EARS 1928	- 200	1, BY WATER	YEAR (WY				
MEAN MAX (WY) MIN (WY)	512 2152 1929 9.20 2001	206 890 1960 6.52 2001	172 1850 1998 7.31 2001	226 2614 1998 5.34 2001	244 1291 1998 4.88 2001	369 3049 1960 5.24 2001	1945 1987 5.01	113 790 1959 2.64 2001	169 3357 1934 1.64 2000	333 2191 1934 3.56 2001	538 2777 1960 11.2 1992	756 4255 1933 5.57 1999
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR		FOR 2001 WA	TER YEAR		WATER YEA	ARS 1928	- 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			3091.50 8.45 50 .07 .16			42010.71 115 2940 .71 1.1 2950 14.87 .55 125 5.5 2.4	Sep 26 Jun 13 Jun 11 Sep 26 Sep 26 Jun 13		324 1211 15.8 8840 .07 .16 *8840 *20.50 .00 873 127 23	Jun 2 Jun 1 Jun Jun 2 Jun 2 Jun 10,1	1960 2000 1 1934 0 2000 1 1934 1 1934 1 2000	

e Estimated * Site and datum then in use

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL--Continued

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

					DAID	I MEAN VAL	CEO					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.20	.62	.46	.39	.38	.33	.48	.49	.53	.61	1.33	5.44
2	1.18	.58	.46	.38	.34	.33	.46	.49	.57	.59	1.37	5.02
3	1.15	.56	.46	.37	.32	.34	.44	.49	.55	.55	1.39	4.60
4	1.15	.55	.46	.36	.31	e.35	.44	.50	.52	.55	1.41	4.11
5	1.12	.55	.46	.35	.30	e.34	.45	.51	.52	.53	1.54	3.68
6	1.09	.55	.45	.34	.28	e.34	.45	.50	.52	.54	1.68	3.29
7	1.07	.54	.44	.34	.28	.34	.45	.50	.55	.57	1.85	2.96
8	1.05	.53	.43	.34	.29	.34	.46	.49	.53	.56	1.88	2.81
9	1.03	.52	.43	.35	.31	.34	.47	.49	.51	.55	1.84	2.75
10	1.01	.51	.44	.34	.31	.36	.47	.50	.49	.57	2.09	3.34
11	1.01	.50	.44	.33	.32	.36	.48	.50	.47	.63	2.17	3.30
12	1.00	.50	.45	.34	.32	.37	.48	.49	.47	.67	2.10	3.20
13	.99	. 49	.43	.34	.32	.37	.49	. 49	. 45	.70	2.07	3.57
14	.98	. 49	.43	.34	.31	.36	.50	. 49	. 48	.74	2.06	5.06
15	.97	.49	.44	.34	.31	.36	.50	. 49	.52	.72	2.06	7.51
16	.94	.47	.43	.35	.31	.37	.50	.50	.50	.70	2.10	9.21
17	.91	. 47	.44	.35	.31	.37	.51	.49	.48	.73	2.14	10.16
18	.91	.48	.43	.35	.30	.37	.50	.49	. 49	.75	2.16	10.85
19	.90	. 47	.44	.34	.30	.40	.50	.48	.62	.78	2.17	11.63
20	.88	.47	.43	.34	.30	.43	.51	. 48	.61	.77	3.14	12.45
21	.87	.47	.43	.33	.31	.40	.52	.48	.56	.79	4.49	13.22
22	.86	. 47	.42	.32	.31	.39	.51	.49	.52	.82	5.21	13.83
23	.85	. 47	.41	.31	.31	.40	.50	.51	.59	.85	5.70	14.36
24	.73	. 47	.40	. 29	.31	.41	.49	.50	.66	.87	6.13	14.54
25	.69	.48	.40	. 29	.31	.42	.49	.50	.64	.89	e6.51	14.70
26	.68	.57	.40	.29	.35	.42	.49	.49	.57	.95	e6.74	14.85
27	.67	.54	.40	.28	.32	.42	.49	.49	.53	e.98	e6.83	14.80
28	.65	.50	.42	. 29	.32	.41	.49	.50	.53	e.98	6.76	14.62
29	.64	.48	.43	.30		.48	.48	.52	.54	e1.01	6.53	14.38
30	.63	. 47	.42	.31		.54	.48	.52	.57	1.02	6.22	14.07
31	.62		.40	.39		.49		.50		1.05	5.86	
MEAN	.92	.51	.43	.33	.31	.39	.48	.50	.54	.74	3.40	8.61
MAX	1.20	.62	.46	. 39	.38	.54	.52	.52	.66	1.05	6.83	14.85
MIN	.62	. 47	.40	. 28	.28	.33	.44	.48	.45	.53	1.33	2.75

CAL YR 2000 MEAN .76 MAX 2.12 MIN .40 WTR YR 2001 MEAN 1.43 MAX 14.85 MIN .28

e Estimated

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1958-61, 1963, 1966-87, 1992, 1995 to current year.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV 09 DEC	1120	6.7	.52	422	7.2	21.7	5.5
27	1815	6.9	.39	439	7.0	16.2	9.6
FEB 27	1445	4.6	.30	430	7.6	23.5	8.5
APR 10	1420	4.5	.45	383	7.2	27.0	12.1
JUN 05	1630	1.6	.51	333	7.4	29.5	10.6
JUL 30	1400	2.6	1.03	318	7.5	28.1	7.7
SEP 20	1735	1790	12.52	84	5.9	24.8	2.0

02312140 BAYROOT SLOUGH HEADWATERS NEAR BAY LAKE, FL

LOCATION.--Lat $28^{\circ}27^{\circ}23^{\circ}$, long $81^{\circ}55^{\circ}14^{\circ}$, in $NN^{\frac{1}{2}}_{4}$ sec.28, T.23 S., R.24 E., Lake County, Hydrologic Unit 03100208, at bridge on State Highway 565, 0.1 mi upstream from James A. Van Fleet Trail, and 1.5 mi southwest of town of Bay Lake.

DRAINAGE AREA.--18 \min^2 , approximately.

PERIOD OF RECORD.--1960-61, October 1963 to current year (discharge measurements only).

REVISED RECORDS. -- WDR FL-72-3: Drainage area.

REMARKS.--Discharge measurements made along the James A. Van Fleet Trail from 1.0 mi north to 0.8 mi south of State Highway 565, which includes Bayroot Slough, Bayroot Drain and Cam Slough.

 $\hbox{\tt EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 202 ft}^3/\hbox{s, Sept. 14, 1960; no flow observed at times in most years.}$

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1963-64, 1966-80, 1982-83, 1986, 1994-99, 2001.

DISCHARGE MEASUREMENTS AND WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		DIS- CHARGE,	SPE-	PH WATER		
DATE	TIME	INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
23 DEC	1303	.00				
18	1322	.00				
FEB 12 APR	1017	.00				
10	1045	.00				
JUN 04 JUL	1140	.00				
30 SEP	1047	.00				
20	0802	33	99	5.5	26.4	.7

02312180 LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL

LOCATION.--Lat $28^{\circ}31'17"$, long $82^{\circ}03'18"$, in $NE^{\frac{1}{4}}_4$ sec.1, T.23 S., R.22 E., Sumter County, Hydrologic Unit 03100208, near center of span on downstream side of bridge on State Highway 471, 2.3 mi south of Tarrytown, 3.1 mi southwest of Linden, and 14 mi upstream from mouth.

DRAINAGE AREA. -- 85 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS. -- WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 80.00 ft above sea level (Florida Department of Transportation bench mark).

REMARKS.--Records fair. Above bankfull stage, discharge measurements are made along State Highway 471 and include all culvert flow from 2.3 mi north to 2.8 mi south of gaging station.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.71 2.7 1.3 1.5 4.7
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.74 .44 .49 .42	12 21 25 110 e350
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.30 .20 .45 1.9 1.1	e756 e722 e500 e399 313
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.93 1.3 .95 .57	249 197 157 138 171							
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.8 1.1 .70 .40 .14	166 150 136 130 129
TOTAL MEAN MAX MIN CFSM IN.	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00 .00	0.00 .000 .00 .00	14.95 .48 1.9 .00 .01	4841.91 161 756 .00 1.90 2.12
STATIST	CICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1967	- 2001,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	63.2 354 1996 .000 1981	20.7 159 1970 .000 1971	28.4 386 1998 .000 1971	42.0 386 1998 .000 1981	41.6 285 1998 .000 1981	55.1 351 1998 .000 1981	36.1 329 1987 .000 1968	5.77 68.6 1987 .000 1967	10.3 129 1991 .000 1971	25.9 275 1991 .000 1971	56.4 263 1994 .000 1987	94.5 362 1994 .000 1990
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER Y	EARS 196	7 - 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM GE FSM) NCHES) DS		.00		ys		Sep 16 Many da Oct 1 Sep 16		40.0 130 .0 1180 .0 .0 1210 6.5 .4 6.3 128 1.5	00 Mar 0 M 0 M Mar 8 Sep 7	1998 2000 31 1987 any days any days 31 1987 28 1979

e Estimated * From floodmark

02312180 LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-71, 1973, 1984, 1986-89, 1991, 1999, 2001.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP 19	1555	5.66	480	6.4	50	25.4	21	6.5	1.1	.9	2.3	7.1	2.6
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	
SEP 19	<.1	2.2	2.0	E127cl	2.4	.31	<.02	<.01	.04	.04	51	11	

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02312200 LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL

LOCATION.--Lat $28^{\circ}34^{\circ}21^{\circ}$, long $82^{\circ}09^{\circ}20^{\circ}$, in $SE^{1/4}_{4}$ sec.13, T.22 S., R.21 E., Hernando County, Hydrologic Unit 03100208, near center of span on upstream side of bridge on U.S. Highway 301, 0.2 mi north of Rerdell, and 4.8 mi upstream from mouth.

DRAINAGE AREA.--145 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1958 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 59.02 ft above sea level.

REMARKS.--Records fair. Above bankfull stage, discharge measurements are made along U.S. Highway 301 and include all flow from 3.4 mi north to 1.8 mi south of gaging station.

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 2 3 4 5	4.9 4.7 4.7 4.7	1.3 1.2 1.0 .99	.50 .46 .54 .51	e.00 e.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.88 1.1 .97 .92 1.1	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 1.4 2.5	.70 .61 .68 .78
6 7 8 9 10	4.2 4.0 3.8 3.6 3.3	1.0 1.0 .98 1.0	.35 .37 .35 .31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.0 .98 1.0 1.1	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.4 3.0 1.5 2.1 2.2	3.6 4.1 3.5 11
11 12 13 14 15	3.2 3.1 2.9 2.9 2.7	.82 .73 .68 .97	.27 .40 .40 .35	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.1 .83 .59 .49	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.5 1.4 1.3 1.3	7.0 6.1 5.9 46 121
16 17 18 19 20	2.5 2.4 2.3 2.2 2.1	.78 .75 .79 .70	.33 .28 .21 .12	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.31 .25 .18 .13	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.0 1.7 1.3 1.2	146 358 503 558 529
21 22 23 24 25	2.1 2.0 2.0 1.9	.66 .59 .50 .52	.09 .07 .05 .05	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.2 1.8 .73 .75	459 394 366 297 251
26 27 28 29 30 31	2.0 1.9 1.9 1.7 1.5	.83 1.2 .80 .66 .59	.05 .04 e.01 e.00 e.00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00 .28	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.6 .79 .67 .92 .74	219 211 202 186 171
TOTAL MEAN MAX MIN CFSM IN.	4.9 1.4 .02 .02	.84 1.3 .49 .01	7.29 .24 .54 .00 .00	.00	.00	.80 .00 .00	.00	.00	.00	.000	.00	5077.27 169 558 .61 1.17 1.30
MEAN MAX (WY) MIN (WY)	99.2 488 1961 .24 1962	34.9 242 1970 .53 1962	39.6 461 1998 .24 2001	67.8 661 1998 .000 2001	78.9 518 1998 .000 2001	- 2001, 127 1045 1960 .000 1985	75.2 469 1987 .000 2000	18.6 122 1959 .000 1985	26.6 249 1966 .000	55.2 488 1959 .000 1992	105 695 1960 .021 1997	154 707 1960 .036 1997
SUMMARY	STATIST	ICS					OR 2001 WAT	TER YEAR		WATER YE	ARS 195	8 - 2001
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOWEST ANNUAL MEAN HOWEST DAILY MEAN HOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			444.76 1.22 9.8 .00 .00 .11 3.9 .33 .00	Aug 14 Many day Feb 25	rs	5255.98 14.4 558 .00 .00 562 7.28 .099 1.35 3.2 .00		ys	73.7 312 1.79 3380 .00 .00 3400 12.32 .51 6.90 208 15	Mar Soi Soi Mar Mar	1960 2000 19 1960 me years me years 19 1960 19 1960	

e Estimated

02312200 LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)
NOV 09	1730	1.14	.95	5	3.7	7.0	368	21.6	190	73	2.4	.5	6.9
APR 11	1109	1.12	1.2	5	3.8	7.2	330	22.1	160	60	2.2	.7	6.0
SEP 19	1225	7.28	585	480	3.0	5.8	65	23.5	32	11	1.2	1.1	2.6
DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 09 APR	186	12	.12	5.8	1.6	226	.35	.01	.05	<.01	.02	.04	4.3
11 SEP	154	11	.12	4.2	1.8	196	.50	.04	.03	<.01	.05	.09	5.6
19	E13cl	3.5	<.1	2.7	5.5	158	2.4	.16	.06	<.01	.05	.05	52
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 09	<3.0	1.1	<1.0	<1.0	16	278	<1	<1	37	40	<1.0	81	<2.0
APR 11	3.5	2.0	<1	<1.0	61	833	<1	<1	21	26	<1	70	4
SEP 19	548	<1.0	<1.0	2.2	545	637	1.7	6.9	54	55	2.2	20	11

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02312500 WITHLACOOCHEE RIVER AT CROOM, FL

LOCATION.--Lat $28^{\circ}35^{\circ}33^{\circ}$, long $82^{\circ}13^{\circ}20^{\circ}$, in NE_{4}^{1} sec.8, T.22 S., R.21 E., Hernando County, Hydrologic Unit 03100208, on left bank at upstream side of abandoned highway bridge, 0.4 mi northwest of Croom, 2.3 mi downstream from Little Withlacoochee River, 4.5 mi southeast of Nobleton, and 77 mi upstream from mouth.

DRAINAGE AREA. -- 810 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS. -- WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 38.94 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Feb. 2, 1940, nonrecording gage at railroad bridge 500 ft upstream at same datum.

REMARKS.--Records fair. Records include water diverted from ground-water supplies (see station 02311700). High-water diversion in headwaters (station 02311000).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1934 reached a stage of 15.2 ft, from floodmark, discharge not determined.

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 2 3 4 5	20 19 19 19	7.4 6.9 6.6 6.4 6.2	6.2 5.8 5.6 5.3 5.1	2.5 2.4 2.3 2.1 1.9	6.5 6.2 5.2 4.5 3.8	.06 .04 .00 .15	1.3 1.1 .94 .72	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	318 306 292 272 254
6 7 8 9 10	18 17 16 15	6.0 5.8 5.6 5.4 5.7	4.8 4.8 4.7 4.6 4.6	1.9 1.9 2.2 2.2	3.2 2.5 2.1 1.8 1.6	.33 .25 .17 .14	.41 .29 .19 .13	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .33 1.0 3.9	237 216 200 195 197
11 12 13 14 15	14 14 13 13	5.4 5.1 5.2 5.9 6.7	4.6 5.6 6.5 6.7 6.3	1.8 1.9 1.8 1.7	1.4 1.2 1.0 .92 .86	.09 .06 .08 .11	.01 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	26 28 31 36 37	200 199 199 238 369
16 17 18 19 20	12 12 12 12 12	6.4 6.6 6.9 7.0	5.8 5.5 4.5 3.8 3.5	1.6 1.7 1.7 1.7	.75 .65 .57 .47	.10 .08 .04 .13 .42	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	39 39 39 40 41	529 836 1160 1410 1590
21 22 23 24 25	11 10 9.7 9.1 8.7	6.8 6.3 6.5 6.9	3.2 3.0 2.9 2.8 2.7	1.8 1.7 1.5 1.2	.36 .29 .25 .22	.46 .39 .31 .19	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	41 42 54 97 151	1700 1790 1880 1950 2100
26 27 28 29 30 31	9.1 8.9 8.7 8.6 8.3 7.9	8.7 11 8.5 7.3 6.7	2.8 2.7 2.6 2.7 3.0 3.1 3.0 2.7	.92 .87 .80 .73 .76 2.9	.16 .13 .10 	.04 .00 .00 .01 .59	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	205 247 279 301 312 322	2240 2360 2410 2430 2380
TOTAL MEAN MAX MIN	404.0 13.0 20 7.9	199.2 6.64 11 5.1	136.0 4.39 6.7 2.6	52.88 1.71 2.9 .73	47.34 1.69 6.5 .10	6.14 .20 1.2 .00	5.68 .19 1.3 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	2430.26 78.4 322 .00	30457 1015 2430 195
STATIST	rics of M	ONTHLY MEA	AN DATA FO	OR WATER Y	EARS 1940	- 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	657 2710 1961 13.0 2001	295 1050 1960 6.64 2001	256 1957 1998 4.39 2001	321 3234 1998 1.71 2001	338 1738 1998 1.69 2001	491 3633 1960 .20 2001	410 2484 1960 .19 2001	169 1015 1959 .000 2001	162 1045 1959 .000 2001	356 2091 1959 .000 2001	662 3470 1960 8.31 1992	886 3691 1950 26.1 2000
SUMMARY	Y STATIST	ics	FOR 2	2000 CALEN	DAR YEAR	F	OR 2001 WAT	TER YEAR		WATER	YEARS 1940	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN	MEAN F ANNUAL ANNUAL M F DAILY ME SEVEN-DA M PEAK FI M PEAK ST	EAN EAN AN Y MINIMUM OW 'AGE		3740.81 10.2 41 .00		ys	9.38	Sep 29 Many da Apr 12 Sep 29 Sep 29		8650 13.	9 Mar 00 00 Mar	1960 2000 23 1960 23 1960 23 1960
50 PERG	CENT EXCE CENT EXCE CENT EXCE	EDS		26 6.8 .00			169 1.2 .00			1060 196 43		

^{*} During water years 2000, 2001

02312500 WITHLACOOCHEE RIVER AT CROOM, FL--Continued

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

					DAILI	MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.05 1.04 1.04 1.04 1.03	.78 .76 .74 .74	.68 .66 .65 .63	.39 .38 .37 .36	.67 .67 .62 .58	.08 .06 .03 .11	.30 .27 .24 .20 .16	-1.06 -1.09 -1.11 -1.11 -1.14	-1.71 -1.71 -1.74 -1.75 -1.67	-1.51 -1.52 -1.53 -1.55 -1.58	-1.02 92 85 76 41	4.52 4.42 4.30 4.13 3.97
6 7 8 9 10	1.02 1.01 .99 .96	.72 .71 .70 .69	.60 .59 .58 .58	.34 .34 .37 .38	.50 .46 .43 .41	.19 .17 .13 .10	.13 .09 .05 .01	-1.17 -1.19 -1.21 -1.24 -1.26	-1.66 -1.58 -1.51 -1.53 -1.56	-1.59 -1.59 -1.53 -1.54 -1.54	.01 .22 .35 .58	3.81 3.61 3.45 3.40 3.42
11 12 13 14 15	.94 .93 .91 .91	.69 .68 .68 .72	.57 .62 .66 .66	.35 .35 .35 .34	.37 .34 .32 .30	.07 .05 .05 .08 .07	08 14 18 23 28	-1.28 -1.30 -1.32 -1.34 -1.36	-1.59 -1.62 -1.65 -1.67 -1.69	-1.53 -1.52 -1.50 -1.48 -1.49	1.18 1.22 1.26 1.35 1.36	3.45 3.44 3.44 3.81 4.88
16 17 18 19 20	.89 .88 .88 .88	.74 .73 .75 .75	.62 .60 .55 .51	.33 .34 .35 .35	.28 .27 .25 .23 .21	.06 .04 .02 .06	33 38 45 52 57	-1.38 -1.41 -1.43 -1.46 -1.48	-1.72 -1.75 -1.77 -1.76 -1.78	-1.50 -1.48 -1.49 -1.51 -1.52	1.39 1.40 1.40 1.41 1.42	5.81 6.85 7.58 8.01 8.29
21 22 23 24 25	.88 .86 .85 .83	.73 .71 .71 .71	.46 .45 .43 .42	.37 .35 .33 .30	.21 .19 .18 .16	.19 .17 .14 .09	62 66 71 76 80	-1.51 -1.53 -1.55 -1.58 -1.61	-1.77 -1.78 -1.64 -1.58 -1.59	-1.47 -1.36 -1.32 -1.30 -1.29	1.42 1.43 1.62 2.23 2.91	8.45 8.58 8.71 8.80 8.98
26 27 28 29 30 31	.83 .83 .82 .82 .81	.78 .84 .77 .73 .70	.40 .40 .42 .43 .43	. 27 . 26 . 25 . 24 . 25 . 45	.15 .13 .11 	01 06 13 11 .18	84 89 93 97 -1.02	-1.63 -1.66 -1.67 -1.67 -1.68	-1.60 -1.58 -1.57 -1.55 -1.52	-1.24 -1.18 -1.07 -1.09 -1.09	3.50 3.91 4.19 4.37 4.47 4.55	9.15 9.28 9.34 9.36 9.30
MEAN MAX MIN	.91 1.05 .80	.73 .84 .68	.54 .68 .40	.34 .45 .24	.34 .67 .11	.09 .29 13	33 .30 -1.02	-1.39 -1.06 -1.71	-1.65 -1.51 -1.78	-1.42 -1.07 -1.59	1.49 4.55 -1.02	6.15 9.36 3.40

CAL YR 2000 MEAN .81 MAX 1.42 MIN -.32 WTR YR 2001 MEAN .48 MAX 9.36 MIN -1.78

02312500 WITHLACOOCHEE RIVER AT CROOM, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1960-61, 1963, 1966 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)
NOV													
15 DEC	1230	.75	6.2	10	5.2	6.8	288	19.5	150	55	2.6	. 4	5.0
28 JAN	1350	.43	3.25		9.2	7.2	273	14.0					
02 FEB	1200	.38	2.4	5	10.2	7.1		9.5	140	51	2.4	.1	4.4
28 SEP	1010	.11	.11	10	6.0	7.0	264	22.0	120	46	2.2	.3	4.3
19	1529	8.05	1430	480	2.9	6.2	94	24.5	50	17	1.7	1.5	3.5
DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 15	139	8.7	<.10	4.0	7.1	178	.80	.05	.02	<.01	<.01	.03	3.9
DEC 28													
JAN													
02 FEB	129	7.7	<.10	.8	6.1	153	.31	.05	<.02	<.01	<.01	.03	3.2
28 SEP	119	7.4	<.10	. 4	6.3	155	.45	.08	<.02	<.01	.03	.38	5.1
19	E20cl	4.7	<.1	3.8	8.6	194	3.3	.52	.06	.02	.13	.15	59
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 15 DEC	14	<1.0	<1.0	<1.0	10	38	<1	<1	3.5	7.3	<1.0	160	<2.0
28													
JAN 02	15	<1.0	<1	1.7	12	33	<1	<1	<1.0	2.3	<1	150	<2
FEB 28	19	<1.0	<1	<1.0	19	76	<1	<1	11	20	<1	140	<2
SEP 19	592	1.4	<1.0	2.1	988	1240	2.2	3.1	72	74	1.2	40	12

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02312600 WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL

LOCATION.--Lat $28^{\circ}44^{\circ}36^{\circ}$, long $82^{\circ}13^{\circ}13^{\circ}$, in SE^{1}_{4} sec.17, T.20 S., R.21 E., Citrus County, Hydrologic Unit 03100208, on left bank on upstream shoreward corner of pavillion at Trails End Camp, 1.1 mi downstream from diversions to Tsala Apopka Lake, 4.7 mi east of Floral City, and 62 mi upstream from mouth.

DRAINAGE AREA. -- 995 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1958 to January 1965 (gage heights only), February 1965 to September 1983 (discharge measurements and gage heights only); October 1983 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Oct. 1, 1983, nonrecording gage at same site and datum.

REMARKS.--Records fair. Discharge published is for site at bridge on State Highway 48 about 2 mi upstream from gage and about 1 mi upstream from diversions to Tsala Apopka Lake through Leslie Heifner and Orange State Canals. High-water diversion in headwaters (station 02311000).

		DISCHARGE	CUBIC	FEET PER		WATER Y	YEAR OCTOBER VALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.6 3.3 2.9 2.9 2.7	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.11 .36 .96 2.0 2.8	3.6 11 21 31 42
6 7 8 9 10	2.4 2.1 1.8 1.2	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	3.2 3.3 3.4 3.7 4.5	53 69 71 73 74
11 12 13 14 15	.89 .72 .59 .43	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	4.2 3.7 3.4 3.2 2.9	75 75 75 101 174
16 17 18 19 20	.14 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.7 2.6 2.6 2.2 1.8	181 194 239 355 529
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.0 2.1 1.8 1.4 1.1	698 845 963 1090 1300
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.1 .81 .55 .34 .23	1470 1620 1750 1860 1930
TOTAL MEAN MAX MIN	27.06 .87 3.6 .00		0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	.000	0.00 .000 .00	0.00 .000 .00		65.79 2.12 4.5 .11	15972.6 532 1930 3.6
STATIST	CICS OF MO	NTHLY MEAN	DATA FO	R WATER YE	ARS 198	4 - 200	1, BY WATER Y	YEAR (WY))			
MEAN MAX (WY) MIN (WY)	487 1992 1996 .87 2001	264 1033 1996 .000 2001	304 1951 1998 .000 2001	468 3979 1998 .000 2001	369 2075 1998 .000 2001	386 2757 1998 .000 2001	1987 .000	153 769 1987 .000 2000	104 361 1991 .000 2000	182 1187 1991 .000 2000	352 1652 1991 .000 2000	626 2355 1985 3.47 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALEND	DAR YEAR	!	FOR 2001 WAT	TER YEAR		WATER YE	ARS 198	4 - 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN	MEAN C ANNUAL MEANNUAL MEA C DAILY MEA SEVEN-DAY M PEAK FLO	AN AN N MINIMUM W		1136.24 3.10 26 .00	Jan 1 Apr 4 Apr 4	-Sep 4	16065.45 44.0 1930 .00 .00 1950 42.31 3.4	Sep 30 Oct 17- Oct 17 Sep 30	-Jul 31	348 1180 17.0 4900 *.00 5010	Jan Jan	1998 2000 8 1998
10 PERC 50 PERC	M PEAK STA CENT EXCEE CENT EXCEE CENT EXCEE	DS DS		12 .00 .00			42.31 3.4 .00 .00	Sep 30		a45.24 815 145 3.7	Mar	25 1960

^{*} During water years 1992, 2000, 2001

a Observed

02312600 WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL--Continued

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

					Ditt	1 1111111 111	шодь					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.17	36.53	36.18	36.19	36.31	36.09	36.73	36.07	35.32	35.72	36.61	36.90
2	37.15	36.51	36.17	36.19	36.35	36.08	36.70	36.05	35.30	35.71	36.65	37.28
3	37.12	36.52	36.16	36.18	36.31	36.07	36.70	36.03	35.28	35.69	36.71	37.65
4	37.12	36.46	36.15	36.19	36.35	36.11	36.67	36.03	35.26	35.68	36.80	37.94
5	37.11	36.44	36.14	36.21	36.36	36.13	36.64	36.00	35.27	35.65	36.86	38.23
6	37.09	36.42	36.13	36.21	36.35	36.10	36.63	35.98	35.36	35.64	36.89	38.44
7	37.07	36.40	36.13	36.18	36.34	36.08	36.61	35.96	35.40	35.71	36.89	38.66
8	37.04	36.38	36.12	36.24	36.33	36.07	36.59	35.94	35.39	35.70	36.90	38.69
9	37.00	36.36	36.12	36.24	36.33	36.05	36.57	35.92	35.37	35.68	36.91	38.72
10	36.98	36.34	36.11	36.24	36.31	36.04	36.55	35.89	35.34	35.72	36.96	38.73
11 12 13 14 15	36.97 36.95 36.93 36.91 36.90	36.32 36.33 36.33 36.34 36.30	36.11 36.14 36.13 36.14 36.14	36.24 36.26 36.25 36.24 36.24	36.29 36.28 36.27 36.27	36.03 36.02 36.08 36.06 36.05	36.53 36.52 36.48 36.46 36.44	35.87 35.85 35.83 35.81 35.79	35.31 35.34 35.30 35.27 35.31	35.80 35.85 35.85 35.95 35.93	36.94 36.92 36.90 36.89 36.86	38.74 38.74 38.74 38.98 39.48
16	36.88	36.26	36.14	36.24	36.21	36.04	36.42	35.78	35.32	35.94	36.85	39.52
17	36.85	36.25	36.22	36.24	36.22	36.05	36.40	35.76	35.29	35.91	36.85	39.59
18	36.83	36.21	36.14	36.26	36.20	36.02	36.34	35.73	35.34	35.35	36.84	39.78
19	36.81	36.23	36.13	36.28	36.20	36.02	36.32	35.70	35.36	35.91	36.81	40.14
20	36.78	36.21	36.13	36.31	36.18	36.30	36.30	35.67	35.49	35.91	36.79	40.56
21	36.76	36.20	36.13	36.28	36.17	36.43	36.28	35.64	35.48	35.96	36.80	40.88
22	36.74	36.19	36.12	36.26	36.17	36.45	36.24	35.62	35.48	36.08	36.81	41.12
23	36.71	36.18	36.12	36.26	36.15	36.45	36.24	35.59	35.52	36.15	36.78	41.29
24	36.69	36.18	36.11	36.26	36.14	36.45	36.22	35.56	35.57	36.20	36.75	41.44
25	36.68	36.16	36.11	36.24	36.13	36.44	36.20	35.52	35.57	36.20	36.73	41.66
26 27 28 29 30 31	36.66 36.64 36.63 36.60 36.58 36.56	36.18 36.23 36.22 36.21 36.22	36.10 36.10 36.22 36.20 36.20 36.19	36.23 36.22 36.20 36.19 36.19 36.28	36.12 36.11 36.10 	36.43 36.40 36.38 36.52 36.66 36.71	36.18 36.16 36.14 36.12 36.09	35.48 35.46 35.42 35.40 35.38 35.36	35.56 35.55 35.61 35.64 35.68	36.26 36.25 36.25 36.50 36.53 36.56	36.73 36.70 36.67 36.64 36.63 36.69	41.83 41.98 42.11 42.22 42.29
MEAN	36.87	36.30	36.14	36.23	36.24	36.22	36.42	35.74	35.41	35.94	36.80	39.74
MAX	37.17	36.53	36.22	36.31	36.36	36.71	36.73	36.07	35.68	36.56	36.96	42.29
MIN	36.56	36.16	36.10	36.18	36.10	36.02	36.09	35.36	35.26	35.35	36.61	36.90

CAL YR 2000 MEAN 36.73 MAX 38.10 MIN 35.36 WTR YR 2001 MEAN 36.50 MAX 42.29 MIN 35.26

02312640 JUMPER CREEK CANAL NEAR BUSHNELL, FL

LOCATION.--Lat $28^{\circ}41^{\circ}45^{\circ}$, long $82^{\circ}06^{\circ}34^{\circ}$, in $NE^{1/4}_{4}$ sec.4, T.21 S., R.22 E., Sumter County, Hydrologic Unit 03100208, near center of span on downstream side of bridge on State Highway 475, 2.2 mi north of Bushnell, and 10 mi upstream from mouth.

DRAINAGE AREA.--40 mi^2 , approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- October 1963 to current year.

REVISED RECORDS.--WDR FL-81-3: 1980 (m).

 ${\tt GAGE.--Water-stage}$ recorder. Datum of gage is 55.00 ft above sea level.

REMARKS.--Records fair. Diurnal fluctuation caused by mining operations upstream; daily flows are not affected appreciably.

		DISCHARG	E, CUBIC	FEET PER		WATER YI MEAN V	EAR OCTOBER ALUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .86	1.4 1.3 1.3 1.3
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.7 1.8 1.9 2.1 2.2	3.5 2.7 2.8 2.8 2.8
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.1 2.1 2.1 2.0 2.0	2.7 2.8 2.9 5.8
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.0 2.1 1.9 1.9	24 23 17 13 10
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.9 2.0 1.7 1.8 2.0	9.4 8.9 8.7 8.5 8.8
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.9 1.8 1.8 1.7 1.6	10 10 9.6 9.9 9.5
TOTAL MEAN MAX MIN	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	0.00 .000 .00	52.06 1.68 2.2 .00	231.4 7.71 24 1.3
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER YE	ARS 1964	- 2001	, BY WATER Y	EAR (WY)			
MEAN MAX (WY) MIN (WY)	23.2 59.8 1996 .000 2001	20.3 43.3 1970 .000 2001	19.8 54.6 1970 .000 2001	22.2 64.4 1970 .000 2001	26.4 104 1970 .000 2001	27.9 102 1998 .000 2001	25.4 70.2 1987 .000 2000	18.9 57.2 1983 .000 2000	18.5 45.7 1983 .000 2000	21.7 67.5 1966 .000 1992	23.9 57.3 1965 .001 2000	25.9 69.0 1964 .000 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	AR YEAR	I	FOR 2001 WAT	ER YEAR		WATER Y	EARS 1964	- 2001
LOWEST .	MEAN ANNUAL M ANNUAL ME DAILY ME	AN AN		25.90 .071 .79	Jan 1		283.46 .78	Sep 16		22.8 47.0 .3' 235	7	1970 2000 18 1998
ANNUAL MAXIMUM MAXIMUM 10 PERC	DAILY MEA SEVEN-DAY PEAK FLO PEAK STA ENT EXCEE ENT EXCEE	MINIMUM W GE DS		.00 .00	Many da Mar 16	ys	.00 .00 26 4.25 2.0	Many da Oct 1 Sep 16 Sep 16	ays	*.0 *.0 238 7.2 42 21	0 0 Feb 1 1 Feb 1	18 1998 18 1998
90 PERC	ENT EXCEE	DS		.00			.00			2.0		

^{*} During 1992, 2000, 2001 water years

02312640 JUMPER CREEK CANAL NEAR BUSHNELL, FL--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-88, 1991, 1999 to current year.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
SEP 18	0833	282	7.8	22.9	3.5	12

02312667 SHADY BROOK NEAR SUMTERVILLE, FL

LOCATION.--Lat $28^{\circ}46^{\circ}12^{\circ}$, long $82^{\circ}03^{\circ}50^{\circ}$, in $NW^{1/4}_{4}$ sec.12, T.20 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on right bank in Thompkins Park, 400 ft upstream from bridge on U.S. Highway 301, and 1.7 mi north of Sumterville.

DRAINAGE AREA. -- 8.0 mi², approximately.

PERIOD OF RECORD.--1932-33, 1946, 1956, 1961, 1965-67, 1980-81 (miscellaneous discharge measurements), March 1982 to September 1992, October 1993 to current year. Prior to November 1980, published as Panasoffkee River near Sumterville.

REVISED RECORDS.--WDR FL-95-1A: Datum.

GAGE.--Water-stage recorder. Datum of gage is 4.30 ft below sea level (levels by Southwest Florida Water Management District).

REMARKS.--Records good. Records include discharge from mining operations upstream.

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 2 3 4 5	11 11 11 11 11	6.8 6.6 6.5 6.4 6.4	5.8 5.7 5.7 5.6 5.5	5.5 5.5 5.5 5.4 5.3	8.7 7.6 7.0 6.9 6.9	5.3 5.2 5.2 6.9 6.7	18 16 15 14 14	7.7 7.5 7.4 7.4 7.1	4.9 4.9 4.5 4.4 5.2	6.0 5.6 5.3 5.1 5.7	18 18 21 24 26	13 13 15 15 29
6 7 8 9 10	11 11 11 10 10	6.4 6.2 6.2 6.0 6.6		5.3 5.5 6.0 5.9 5.5	6.6 6.6 6.5 6.4 6.4	6.0 5.7 5.4 5.3 5.3	13 13 13 12 12	6.9 6.7 6.7 6.5 6.3	5.7 5.3 5.1 4.9 4.6	6.7 6.5 6.7 6.1 6.4	28 28 22 19 18	52 49 37 29 24
11 12 13 14 15	9.8 9.7 9.6 9.3 9.1	6.4 6.1 6.0 5.9 5.9	4.9 5.8 5.7 5.5 5.4	5.6 5.7 5.6 5.5	6.4 6.4 6.3 6.2	5.3 5.1 5.5 5.7 5.4	12 12 11 11	6.2 6.0 6.5 6.8 6.1	4.8 5.2 4.7 4.5 4.5	6.6 6.3 8.2 8.1 6.9	17 16 15 15	23 23 23 50 106
16 17 18 19 20	8.9 8.7 8.5 8.4 8.2	5.9 5.9 5.7 5.7	5.3 7.2 6.4 6.2 6.1	5.6 5.5 5.5 5.6 5.8	6.2 6.2 6.1 6.0 5.9	5.4 5.5 5.4 20 38	11 10 10 9.9 9.6	5.8 5.5 5.3 5.3	4.3 4.2 4.3 4.6 5.7	6.1 5.8 5.7 5.7	16 17 17 17 19	105 93 91 87 86
21 22 23 24 25	8.2 8.1 7.9	5.7 5.7 5.6 5.5 5.6	5.8 5.6 5.4 5.3 5.3	5.8	5.8 5.7 5.7 5.6 5.5	20 15 13 12 12	9.0	5.1 5.0 4.9 4.8 4.6	8.0 6.2 6.7 7.0 6.3	8.2 14 19 15	17 16 15 14 13	92 96 98 97 97
26 27 28 29 30 31	7.8 7.9 7.7 7.4 7.3 7.2 7.1	6.9 7.5 6.6 6.1 5.9	5.2 5.2 6.0 6.3 5.9 5.6	5.7 5.5 5.5 5.7 5.7	5.5 5.3 5.3 	11 11 11 13 26 22	8.9 8.5 8.2 7.9 7.8	4.6 4.4 4.7 4.9 4.6 4.4	5.5 5.8 6.5 6.3 6.6	16 25 36 23 19 18	14 13 13 17 15	96 93 91 91 93
TOTAL MEAN MAX MIN	283.1 9.13 11 7.1	184.4 6.15 7.5 5.5	173.8 5.61 7.2 4.9	175.5 5.66 7.1 5.3	8.7 5.3	324.3 10.5 38 5.1	18 7.8	7.7 4.4	8.0 4.2	331.6 10.7 36 5.1	547 17.6 28 13	1907 63.6 106 13
MEAN	35.3	ONTHLY MEAI 28.5	28.0	38.6	40.2	47.9	BY WATER 1	YEAR (WY)	30.4	36.7	38.0	40.3
MAX (WY) MIN (WY)	133 1983 4.04 1994	71.2 1983 2.64 1991	73.7 1984 2.11 1991	118 1998 1.91 1991	121 1998 1.95 1991	158 1998 4.84 1992	168 1983 4.51 1992	125 1983 2.24 1992	135 1982 1.40 1992	207 1982 .68 1992	159 1982 3.19 1992	124 1982 5.22 1997
SUMMARY	STATISTI	ICS	FOR 2	000 CALENI	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1982 -	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC		EAN EAN AN MINIMUM AGE DW FLOW EDS EDS		2960.6 8.09 24 2.7 2.8 15 6.6 3.7	Sep 7 Jun 8 Jun 5		4778.4 13.1 106 4.2 4.4 110 49.44 4.1 22 6.5 5.2	Sep 15 Jun 17 Jun 13 Sep 15 Sep 15 Jun 18		36.5 127 5.39 243 .38 .39 340 50.76 *.38 90 22 4.6	Jul 8 Jul 27,30 Jul 24 Apr 23 Apr 23	1982 1992 8 1982 0 1992 4 1992 3 1983 3 1983

^{*} Jul 24, 25-31

02312700 OUTLET RIVER AT PANACOOCHEE RETREATS, FL

LOCATION.--Lat $28^{\circ}49^{\circ}01^{\circ}$, long $82^{\circ}08^{\circ}40^{\circ}$, in $SE^{1/2}_{4}$ sec.19, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on west shore of Lake Panasoffkee, 0.8 mi north of outlet, 1.3 mi north of Panacoochee Retreats, 2.0 mi upstream from mouth, and 5.1 mi northwest of town of Lake Panasoffkee.

DRAINAGE AREA. -- 420 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year. Prior to October 1967, published as Panasoffkee River near Lake Panasoffkee. REVISED RECORDS. -- WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark). Prior to Dec. 18, 1962, nonrecording gage and Dec. 18, 1962, to Oct. 7, 1975, water-stage recorder at sites within 0.8 mi south at same datum.

REMARKS.--Records poor. Discharge measurements made at bridge on State Highway 470, about 1 mi downstream from lake outlet. Flow affected at times by backwater from Withlacoochee River. Prior to 1962, flow partially controlled by small rock dams and at times during 1962-64 by a temporary sheet piling dam about 400 ft downstream from bridge on State Highway 470. Flow partially controlled by sandbag dam June 6-10, 1992. Gage heights are published as elevations for Lake Panasoffkee (station 02312698) in the section of this report entitled LAKE ELEVATIONS.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE	AR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	49 50 50 48 48	29 29 28 28 27	23 22 22 22 21	23 22 22 21 22	25 25 25 25 25 24	22 19 16 22 20	59 62 62 60 60	29 28 27 27 25	13 15 12 12 16	28 26 25 23 23	62 61 65 69 73	e52 e52 e53 e53 58
6 7 8 9 10	48 47 45 41 41	28 27 27 26 24	21 20 20 20 20	22 22 24 22 23	24 25 25 24 23	17 16 17 18 18	59 57 55 53 53	25 23 24 22 22	15 16 15 13 10	26 25 25 24 24	76 77 76 76 77	60 65 68 70 70
11 12 13 14 15	41 40 39 38 37	24 23 23 22 21	22 24 23 22 23	23 22 22 23 23	23 23 22 22 21	19 20 23 22 21	53 51 49 47 46	22 20 19 20 24	15 23 21 21 21	25 25 29 33 34	76 74 73 71 70	72 75 77 83 117
16 17 18 19 20	37 37 37 37 36	22 22 22 22 22	23 22 22 22 20	23 23 23 23 19	21 19 19 19	22 21 22 31 41	44 40 39 41 40	22 21 21 20 19	19 18 20 23 23	33 36 43 41 40	70 69 68 e66 e69	135 140 142 143 143
21 22 23 24 25	36 35 34 33 32	19 20 21 22 23	22 22 21 21 21	20 19 20 23 21	18 17 18 19 17	40 41 42 41 40	39 37 36 33 33	18 17 16 16 15	22 22 24 25 25	44 51 61 59 57	e65 62 53 50 55	144 146 150 152 155
26 27 28 29 30 31	32 31 31 31 31 30	23 23 23 23 24	22 21 23 22 22 22	21 22 22 21 21 24	17 18 19 	39 38 38 44 56 62	35 34 33 33 31	13 8.7 12 14 10 7.7	25 26 28 27 28	57 59 61 62 60	56 e55 e53 51 51	159 164 170 177 187
TOTAL MEAN MAX MIN CFSM IN.	1202 38.8 50 30 .09	715 23.8 29 19 .06	673 21.7 24 20 .05	681 22.0 24 19 .05	596 21.3 25 17 .05	908 29.3 62 16 .07	1374 45.8 62 31 .11	607.4 19.6 29 7.7 .05	593 19.8 28 10 .05	1219 39.3 62 23 .09	2020 65.2 77 50 .16 .18	3332 111 187 52 .26 .30
STATIST		NTHLY MEA					BY WATER					
MEAN MAX (WY) MIN (WY)	208 626 1983 31.6 1964	158 426 1996 19.3 1998	144 262 1984 18.6 1998	168 468 1998 22.0 2001	194 627 1998 21.3 2001	199 771 1998 29.3 2001	194 567 1998 40.5 2000	147 340 1987 19.6 2001	138 360 1982 19.8 2001	153 523 1982 5.94 1963	186 479 1965 29.1 1963	212 449 1985 40.0 1997
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	OR 2001 WA	TER YEAR		WATER YEA	RS 1963	- 2001
LOWEST HIGHEST LOWEST		AN AN AN		91 11 15	Jan 1 Jun 6 Jun 5		13920.4 38.1 187 7.7	Sep 30 May 31 May 26		175 360 38.1 820 *.00		1983 2001 23 1998 27 1963
MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC	I PEAK FLO I PEAK STA CANEOUS LO RUNOFF (C RUNOFF (I CENT EXCEE	AGE DW FLOW CFSM) CNCHES) CDS		.10 1.36 75 37			192 39.10 4.4 .09 1.23 69 25	Sep 30 Sep 30 May 31		a821 a42.71 .42 5.66 320 150		L6 1998 L6 1998
90 PERC	ENT EXCEE	DS		22			19			59		

e Estimated * June 27 to July 15, 1963 temporary dam in place a From floodmark

02312700 OUTLET RIVER AT PANACOOCHEE RETREATS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1908, 1966 to current year.

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	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, DIS- SOLVED (MG/L AS NA) (00930)
NOV 21	0840	37.16	21		5.9	7.9	263	13.0					
JAN 10	1333	37.10	25		10	8.5	295	12.5					
MAR 21 MAY	1505	37.28	37		13	8.3	302	19.0					
04 JUL	0930	37.28	25		8.6	8.1	325	23.0					
18 26 SEP	0905 0915	37.37 37.58	43 56	 <5	7.8	7.4	302 	29.5	 130	43	 6.5	1.5	7.1
06	0945	37.74		10	5.6	8.3	275	29.5	120	40	5.0	.8	5.3
DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JUL 26 SEP	51	12	.1	23	74	E221cl	1.2	.01	.02	<.01	<.01	<.02	8.3
06	58	9.3	.1	18	60	E210cl	1.1	.05	<.02	<.01	<.01	<.02	8.9
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
JUL 26	<3.0	<1.0	<1.0	<1.0	9.8	13	<1.0	<1.0	7.7	7.3	<.1	<1.0	410
SEP 06	<3.0	<1.0	<1.0	<1.0	5.3	12	<1.0	<1.0	2.6	5.9		<1.0	410

	ZINC,
	DIS-
	SOLVE
DATE	(UG/L
	AS ZN
	(01090
JUL	
26	<2.0
SEP	
06	<2.0

< -- Less than E -- Estimated value cl-- Holding time exceeded by the laboratory

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL

LOCATION.--Lat $28^{\circ}49^{\circ}23^{\circ}$, long $82^{\circ}11^{\circ}00^{\circ}$, in NW^{1}_{4} sec.23, T.19 S., R.21 E., Sumter County, Hydrologic Unit 03100208, at downstream end of left wall of lock of Wysong Dam, at Carlson, 1.8 mi downstream from Outlet River, 2.7 mi southeast of Rutland, and 55 mi upstream from mouth.

DRAINAGE AREA.--1,520 mi², approximately.

PERIOD OF RECORD.--August 1965 to September 1980, October 1980 to September 1981 (monthly mean discharge only), October 1981 to current year. Prior to October 1967, published as "at Carlson's Landing, near Lake Panasoffkee."

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark).

REMARKS.--Records fair except for period of estimated daily discharge, which is poor. Some diversions upstream from station at times into Tsala Apopka Lake. High-water diversion in headwaters (station 02311000). Inflatable fabri-dam removed June 27, 1988.

		DISCHARG	E, CUBIC	FEET PER		WATER YEA Y MEAN VAI	AR OCTOBER LUES	2000 TO	SEPTEMBER	2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	67 67 66 66 64	45 45 45 44 43	33 33 33 32 31	32 32 31 31 30	40 38 37 38 36	18 19 19 24 25	90 83 84 83 82	35 33 31 30 28	17 18 16 16 24	37 35 33 30 28	85 90 86 95 97	e76 e78 e79 e90 e100
6 7 8 9 10	62 61 62 62	43 43 42 40 41	30 30 30 30 30	29 30 34 33 32	35 35 35 35 34	21 20 20 20 20	81 77 76 76 76	29 30 27 24 23	30 26 25 24 23	29 32 32 29 29	106 114 113 108 100	e110 124 142 149 152
11 12 13 14 15	60 59 59 56 55	38 38 37 36 35	30 31 31 30 30	33 33 32 32 32	33 32 32 32 30	21 20 23 23 22	76 74 73 67 64	22 22 21 19 20	22 24 24 27 27	31 32 44 42 39	95 94 93 95 89	159 167 173 242 384
16 17 18 19 20	54 53 52 52 52	35 35 34 34 32	31 33 32 32 31	32 32 31 32 33	29 29 29 28 27	22 23 25 54 72	61 58 52 54 60	21 19 20 19 18	27 23 23 31 30	37 44 53 47 51	88 e87 e86 e85 e90	397 403 405 414 436
21 22 23 24 25	52 52 51 51 51	31 30 29 30 33	31 31 30 31 30	30 30 29 29 28	25 24 24 24 23	63 57 53 52 52	55 49 47 46 41	19 18 16 15 14	30 34 32 34 35	59 68 87 76 81	e84 e78 e72 e68 e76	476 530 595 657 729
26 27 28 29 30 31	49 49 47 47 46 46	35 36 35 34 34	30 30 33 33 32 32	28 28 28 29 29 36	22 21 20 	49 49 52 63 103 101	38 40 40 40 38	14 14 16 17 16 17	40 37 35 34 36	82 85 89 98 94	e84 e86 e80 e74 e74 e75	795 862 926 994 1050
TOTAL MEAN MAX MIN	1730 55.8 67 46	1112 37.1 45 29	966 31.2 33 30	960 31.0 36 28	847 30.2 40 20	1205 38.9 103 18	1881 62.7 90 38	667 21.5 35 14	824 27.5 40 16	1642 53.0 98 28	2747 88.6 114 68	11894 396 1050 76
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER YE	EARS 196	6 - 2001,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	834 2906 1980 55.8 2001	518 1601 1996 37.1 2001	456 1476 1970 31.2 2001	620 4199 1998 31.0 2001	662 3326 1998 30.2 2001	733 4095 1998 38.9 2001	685 2469 1987 44.2 2000	399 1289 1983 21.5 2001	334 864 1982 27.4 2000	496 1651 1966 37.7 2000	671 1983 1974 42.4 2000	857 2283 1985 61.2 2000
SUMMARY	STATISTI	CS	FOR 2	000 CALENI	DAR YEAR	FC	OR 2001 WAT	TER YEAR		WATER YE	ARS 1966	- 2001
LOWEST ANNUAL ANNUAL MAXIMUM 10 PERCE 50 PERCE		AN AN N MINIMUM GE DS DS		21819 59.6 158 15 15 15 44 30	Jan 8 Jun 4 Jun 4	,6-8,10	26475 72.5 1050 14 15 37.95 95 35 22	Sep 30 May 25- May 23 Sep 30	27	605 1510 72.5 4880 14 15 41.54 1330 416 121	May 25-1 May	1998 2001 16 1998 2001 23 2001 16 1998

e Estimated

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL--Continued

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

					DAIL	I MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.07	34.90	34.78	34.72	34.80	34.58	35.26	34.93	34.66	34.84	35.16	
2	35.06	34.89	34.77	34.72	34.79	34.60	35.21	34.91	34.68	34.82	35.19	
3	35.06	34.89	34.77	34.71	34.78	34.59	35.22	34.90	34.66	34.80	35.16	
4	35.06	34.89	34.76	34.70	34.79	34.65	35.22	34.89	34.66	34.77	35.22	
5	35.04	34.88	34.75	34.70	34.77	34.67	35.22	34.87	34.75	34.75	35.23	
6	35.02	34.88	34.74	34.69	34.76	34.63	35.21	34.88	34.82	34.75	35.28	
7	35.02	34.88	34.74	34.69	34.76	34.61	35.19	34.87	34.77	34.77	35.32	35.33
8	35.02	34.87	34.73	34.73	34.76	34.61	35.18	34.84	34.75	34.78	35.32	35.42
9	35.02	34.86	34.73	34.72	34.76	34.61	35.19	34.81	34.75	34.75	35.29	35.45
10	35.01	34.87	34.73	34.71	34.74	34.61	35.19	34.80	34.74	34.74	35.24	35.47
11	35.01	34.84	34.73	34.71	34.74	34.62	35.20	34.78	34.72	34.76	35.21	35.51
12	35.00	34.84	34.74	34.72	34.73	34.61	35.19	34.78	34.74	34.77	35.20	35.54
13	35.00	34.83	34.74	34.71	34.73	34.65	35.18	34.77	34.73	34.89	35.19	35.57
14	34.99	34.82	34.73	34.71	34.73	34.65	35.14	34.74	34.77	34.86	35.20	35.85
15	34.98	34.81	34.72	34.71	34.71	34.64	35.12	34.75	34.77	34.84	35.16	36.35
16	34.97	34.81	34.73	34.71	34.70	34.64	35.11	34.76	34.77	34.81	35.16	36.39
17	34.96	34.81	34.75	34.71	34.70	34.65	35.08	34.73	34.72	34.87	35.15	36.41
18	34.96	34.80	34.73	34.71	34.70	34.68	35.04	34.74	34.72	34.95		36.41
19	34.95	34.80	34.74	34.72	34.70	34.93	35.06	34.72	34.80	34.90		36.44
20	34.95	34.78	34.73	34.72	34.69	35.09	35.11	34.72	34.80	34.94		36.50
21	34.95	34.76	34.73	34.70	34.67	35.03	35.08	34.72	34.79	34.99		36.62
22	34.95	34.76	34.73	34.70	34.65	34.99	35.03	34.70	34.83	35.06		36.76
23	34.95	34.75	34.72	34.69	34.64	34.97	35.01	34.68	34.81	35.19		36.93
24	34.95	34.76	34.72	34.68	34.65	34.95	35.01	34.66	34.83	35.12		37.08
25	34.94	34.78	34.71	34.68	34.64	34.95	34.97	34.64	34.84	35.15		37.24
26	34.93	34.79	34.71	34.67	34.62	34.94	34.94	34.64	34.88	35.15		37.39
27	34.93	34.81	34.71	34.68	34.61	34.94	34.97	34.63	34.85	35.17		37.53
28	34.91	34.80	34.74	34.68	34.60	34.97	34.97	34.66	34.83	35.19		37.66
29	34.91	34.79	34.74	34.68		35.06	34.96	34.68	34.82	35.25		37.80
30	34.91	34.78	34.73	34.68		35.32	34.96	34.66	34.84	35.22		37.91
31	34.90		34.72	34.76		35.31		34.67		35.19		
MEAN	34.98	34.82	34.74	34.70	34.71	34.80	35.11	34.76	34.77	34.94	35.22	36.48
MAX	35.07	34.90	34.78	34.76	34.80	35.32	35.26	34.93	34.88	35.25	35.32	37.91
MIN	34.90	34.75	34.71	34.67	34.60	34.58	34.94	34.63	34.66	34.74	35.15	35.33

CAL YR 2000 MEAN 35.28 MAX 36.26 MIN 34.71 WTR YR 2001 MEAN 34.97 MAX 37.91 MIN 34.58

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-87, 1995 to current year.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
		(00061)	(00065)	(00095)	(00400)	(00010)	(00300)	(00680)
NOV								
21	1045	28	34.76	289	7.4	16.5	9.6	
JAN								
10	1600	32	34.71	393	7.6	11.0	8.4	
MAR								
21	1250	59	35.03	733	7.2	17.5	10.5	
MAY	1250	2.1	24.00	2.40		06.0	0 5	
04	1350	31	34.90	348	8.0	26.0	8.7	
JUL 18	1358	52	34.94	387	8.5	33.0	10.4	
					0.5	33.0		
26	1102	78	35.13					8.8
SEP	1020	100	25 20	070	7.4	20.0	2 2	11
06	1230	102	35.20	972	7.4	28.9	3.3	11

02312975 TSALA APOPKA OUTFALL CANAL AT S-353, NEAR HERNANDO, FL

LOCATION.--Lat $28^{\circ}57^{\circ}19^{\circ}$, long $82^{\circ}20^{\circ}13^{\circ}$, in $NE^{1}/_{4}$ sec.6, T.18 S., R.20 E., Citrus County, Hydrologic Unit 03100208, on left bank at control structure 353, on graded road 2.3 mi northeast of Hernando, and 2.8 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Auxiliary gage at downstream side of control structure.

REMARKS.--Records poor. Flow regulated by manipulation of gates in spillway. Discharge computed from relation between discharge, head, and gate openings and does not include leakage, which is less than 2.0 ft³/s, around structure or gates. No gage height record published for 2001 water year. Water level below lowest recordable stage.

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

DAY			DISCHARGE	, CUBIC	FEET PER		WATER Y	EAR OCTOBER ALUES	2000 TO	SEPTEMBER	2001		
Color	DAY	OCT	NOV			FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Color	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Color		.00	.00	.00	.00	.00	.00	.00	.00				
Color		.00	.00	.00	.00	.00	.00	.00	.00	.00			
Color		.00	.00	.00	.00	.00	.00	.00	.00				
11	5	.00	.00						.00	.00	.00	.00	.00
11		.00	.00	.00	.00	.00	.00	.00					
11		.00	.00	.00	.00	.00	.00	.00					
11		.00	.00	.00	.00	.00	.00	.00					
11		.00	.00	.00	.00	.00	.00	.00					
12	10								.00	.00	.00	.00	.00
12		.00	.00	.00	.00	.00	.00	.00					
14		.00	.00	.00	.00	.00	.00	.00					
15													
16													
21	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21		.00	.00	.00	.00	.00	.00	.00	.00				
21		.00	.00	.00	.00	.00	.00	.00	.00				
21		.00	.00	.00	.00	.00	.00	.00	.00				
26	20	.00	.00			.00			.00	.00	.00	.00	.00
26		.00	.00	.00	.00	.00	.00	.00					
26		.00	.00	.00	.00	.00	.00	.00					
26		.00	.00	.00	.00	.00	.00	.00					
26		.00	.00	.00	.00	.00	.00	.00					
TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	25	.00										.00	.00
TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			.00	.00	.00	.00	.00	.00	.00	.00			
TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			.00	.00	.00		.00	.00	.00	.00			
TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			.00	.00	.00		.00	.00	.00	.00			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY) MEAN 17.5 2.61 5.33 9.99 11.3 24.2 21.9 8.76 9.45 25.2 17.4 26.1 MAX 162 61.0 144 180 187 158 135 118 68.7 159 198 186 (WY) 1996 1970 1970 1970 1970 1970 1983 1984 1983 1984 1974 1982 MINN .000 .000 .000 .000 .000 .000 .000 .													
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY) MEAN 17.5 2.61 5.33 9.99 11.3 24.2 21.9 8.76 9.45 25.2 17.4 26.1 MAX 162 61.0 144 180 187 158 135 118 68.7 159 198 186 (WY) 1996 1970 1970 1970 1970 1970 1983 1984 1983 1984 1974 1982 MINN .000 .000 .000 .000 .000 .000 .000 .		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY) MEAN 17.5 2.61 5.33 9.99 11.3 24.2 21.9 8.76 9.45 25.2 17.4 26.1 MAX 162 61.0 144 180 187 158 135 118 68.7 159 198 186 (WY) 1996 1970 1970 1970 1970 1970 1983 1984 1983 1984 1974 1982 MINN .000 .000 .000 .000 .000 .000 .000 .		.000	.000	.000	.000	.000		.000	.000	.000	.000	.000	.000
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY) MEAN 17.5 2.61 5.33 9.99 11.3 24.2 21.9 8.76 9.45 25.2 17.4 26.1 MAX 162 61.0 144 180 187 158 135 118 68.7 159 198 186 (WY) 1996 1970 1970 1970 1970 1970 1983 1984 1983 1984 1974 1982 MIN .000 .000 .000 .000 .000 .000 .000 .0		.00	.00	.00					.00	.00	.00	.00	.00
MEAN 17.5 2.61 5.33 9.99 11.3 24.2 21.9 8.76 9.45 25.2 17.4 26.1 MAX 162 61.0 144 180 187 158 135 118 68.7 159 198 186 (WY) 1996 1970 1970 1970 1970 1970 1983 1984 1983 1984 1974 1982 MIN .000 .000 .000 .000 .000 .000 .000 .0											.00	.00	.00
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1968 - 2001	STATIST	ICS OF MO	NTHLY MEAN	DATA FOI	R WATER YE	EARS 1968	8 - 2001	, BY WATER Y	YEAR (WY)			
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1968 - 2001	MEAN	17.5	2.61	5.33	9.99	11.3	24.2	21.9	8.76	9.45	25.2	17.4	26.1
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1968 - 2001	MAX	162	61.0	144	180				118	68.7			
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1968 - 2001		1996	1970	1970	1970				1984	1983			
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1968 - 2001		.000	.000	.000	.000			.000	.000	.000	.000		
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILLY MEAN LOWEST DAIL	(WY)	1982	1973	1973	1973	1973	1982	1982	1982	1982	1985	1993	1993
HIGHEST ANNUAL MEAN 1968	SUMMARY	STATISTI	CS	FOR 20	000 CALENI	DAR YEAR	:	FOR 2001 WAT	TER YEAR		WATER YE	ARS 1968 -	2001
LOWEST ANNUAL MEAN .000 2000 HIGHEST DAILLY MEAN .000 Many days .000 Many days .000 Many days ANNUAL SEVEN-DAY MINIMUM .000 Jan 1 .000 Oct 1 .000 Many days MAXIMUM PEAK STAGE .000 36.500 Oct 9 .000 40.20 Feb 17 1998 10 PERCENT EXCEEDS .000 .000 .100 .100 .100													
HIGHEST DAILY MEAN LOWEST DAILY MEAN .00 Many days .00 Many days ANNUAL SEVEN-DAY MINIMUM .00 Jan 1 .00 Oct 1 .00 Many days MAXIMUM PEAK STAGE .00 Sep 4 1968 .00 Many days .00 Many days .00 Many days .00 Many days .00 Lower Lo													
LOWEST DAILY MEAN .00 Many days .00 Many day													
MAXIMUM PEAK STAGE 36.50 Oct 9 40.22 Feb 17 1998 10 PERCENT EXCEEDS .00 .00 42 50 PERCENT EXCEEDS .00 .00 .10											410	Sep 4	1968
MAXIMUM PEAK STAGE 36.50 Oct 9 40.22 Feb 17 1998 10 PERCENT EXCEEDS .00 .00 42 50 PERCENT EXCEEDS .00 .00 .10					.00	Many da	ays	.00	Many da	ays	.00	Many	days
10 PERCENT EXCEEDS .00 .00 42 50 PERCENT EXCEEDS .00 .00 .10					.00	Oat 0		.00	OCL I		40.00		
50 PERCENT EXCEEDS .00 .10					00.00	000		0.0				reb 1/	1220
	50 PERCI	ENT EXCEE	DS										

02312976 TSALA APOPKA OUTFALL CANAL BELOW S-353, NEAR HERNANDO, FL

LOCATION.--Lat $28^{\circ}57^{\circ}19^{\circ}$, long $82^{\circ}20^{\circ}13^{\circ}$, in NE $\frac{1}{4}$ sec.6, T.18 S., R.20 E., Citrus County, Hydrologic Unit 03100208, on left bank at control structure 353, on graded road 2.3 mi northeast of Hernando, and 2.8 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--July 1968 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 38.29 ft, Mar. 21, 1998; minimum, 27.34 ft, June 2, 1992.

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

					DAIL	I LIDAN VA	LUED					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.90	27.76	27.71	27.91	28.09	27.97	28.40	27.89	27.81	27.93	28.18	27.97
2	27.88	27.77	27.73	27.91	28.07	27.97	28.32	27.87	27.85	27.96	28.17	28.04
3	27.85	27.79	27.74	27.91	27.96	27.97	28.29	27.89	27.85	27.84	28.21	28.13
4 5	27.86 27.85	27.79 27.80 27.82	27.74 27.74 27.74	27.87 27.85	27.87 27.87 27.87	28.05 28.16	28.28 28.25	27.89 27.90 27.90	27.83 27.85	27.77 27.71	28.33	28.17 28.17
6	27.83	27.81	27.74	27.85	27.90	28.13	28.21	27.88	27.96	27.64	28.79	28.17
7	27.81	27.75	27.74	27.84	27.92	28.07	28.19	27.90	27.97	27.63	28.43	28.11
8	27.81	27.72	27.74	27.88	27.95	28.01	28.18	27.90	27.95	27.58	28.26	28.07
9 10	27.81 27.75 27.74	27.72 27.71 27.78	27.74 27.74 27.75	27.88 27.91 27.84	27.95 27.98 28.01	27.97 27.97	28.18 28.16 28.13	27.89 27.88	27.95 27.92 27.89	27.58 27.55 27.60	28.26 28.13 28.11	28.07 28.06 28.06
11	27.76	27.75	27.76	27.79	28.00	27.96	28.10	27.86	27.86	27.69	28.17	28.02
12	27.78	27.74	27.78	27.80	28.00	27.95	28.10	27.88	27.86	27.78	28.20	28.01
13	27.81	27.74	27.77	27.77	28.00	28.02	28.11	27.89	27.84	27.95	28.20	28.06
14	27.83	27.77	27.81	27.76	28.00	28.04	28.11	27.88	27.80	28.00	28.20	28.53
15	27.86	27.78	27.82	27.76	28.00	28.03	28.12	27.85	27.79	28.03	28.20	29.72
16	27.83	27.77	27.82	27.76	27.99	28.06	28.11	27.86	27.77	28.04	28.26	29.51
17	27.79	27.79	27.93	27.76	28.00	28.04	28.10	27.85	27.73	28.04	28.27	29.37
18	27.76	27.76	27.87	27.77	27.99	28.01	28.06	27.84	27.70	28.16	28.20	29.28
19	27.73	27.78	27.87	27.77	27.95	28.29	28.02	27.83	27.70	28.15	28.12	29.25
20	27.73	27.80	27.88	27.86	27.95	28.53	27.99	27.82	27.72	28.15	28.06	29.30
21	27.75	27.80	27.86	27.82	27.97	28.39	27.98	27.82	27.73	28.26	27.96	29.37
22	27.76	27.78	27.87	27.82	27.98	28.21	27.97	27.83	27.77	28.40	27.89	29.45
23	27.78	27.78	27.86	27.82	27.96	28.12	27.96	27.84	27.88	28.40	27.89	29.54
24	27.79	27.74	27.86	27.81	27.94	28.10	27.96	27.81	27.91	28.37	27.87	29.73
25	27.80	27.80	27.86	27.82	27.96	28.12	27.99	27.81	27.90	28.23	27.84	30.23
26	27.80	27.87	27.85	27.81	27.98	28.15	27.99	27.82	27.89	28.19	27.81	30.28
27	27.81	27.86	27.85	27.83	27.97	28.15	27.96	27.82	27.94	28.21	27.79	30.27
28	27.77	27.78	27.90	27.83	27.98	28.13	27.93	27.81	27.90	28.26	27.75	30.31
29	27.74	27.73	27.94	27.84		28.17	27.90	27.82	27.92	28.34	27.80	30.41
30 31	27.73 27.75	27.71	27.95 27.93	27.87 27.98		28.34 28.43	27.89	27.82 27.81	27.94	28.24 28.17	27.86 27.94	30.56
MEAN	27.79	27.77	27.82	27.83	27.97	28.11	28.09	27.85	27.85	28.01	28.11	29.01
MAX	27.90	27.87	27.95	27.98	28.09	28.53	28.40	27.90	27.97	28.40	28.79	30.56
MIN	27.73	27.71	27.71	27.76	27.87	27.95	27.89	27.81	27.70	27.55	27.75	27.97

CAL YR 2000 MEAN 27.87 MAX 28.20 MIN 27.60 WTR YR 2001 MEAN 28.02 MAX 30.56 MIN 27.55

02313000 WITHLACOOCHEE RIVER NEAR HOLDER, FL

LOCATION.--Lat $28^{\circ}59^{\circ}19^{\circ}$, long $82^{\circ}20^{\circ}59^{\circ}$, in $NN^{1/4}_{4}$ sec.30, T.17 S., R.20 E., Marion County, Hydrologic Unit 03100208, near right bank on downstream side of bridge on State Highway 200, 4.5 mi northeast of Holder, and 38 mi upstream from mouth.

DRAINAGE AREA.--1,825 mi², approximately.

PERIOD OF RECORD.--August 1928 to February 1929, August 1931 to current year.

REVISED RECORDS. -- WDR-FL-72-3: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 27.52 ft above sea level (levels by U.S. Army Corps of Engineers). Aug. 14, 1928 to Feb. 15, 1929, nonrecording gage at present site at datum 2.00 ft higher. Aug. 29, 1931, to May 19, 1961, water-stage recorder at site 100 ft downstream at present datum.

REMARKS.--Records fair. High-water diversion in headwaters (station 02311000).

		DISCHAR	GE, CUBIC	FEET PER		WATER Y	EAR OCTOBER	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	104 99 92 93 93	59 60 64 69 73	45 49 51 50 51	98 97 97 88 84	132 125 94 70 69	56 53 53 72 92	166 148 142 140 133	77 74 79 83 85	86 96 96 92 101	137 146 116 98 83	206 202 213 246 284	144 161 183 193 191
6 7 8 9 10	89 81 75 60 57	71 57 49 47 62	52 52 53 53 57	84 81 92 97 81	75 81 85 92 97	82 66 53 43 39	127 121 119 116 109	83 86 88 88	129 131 127 119 113	68 66 52 47 59	374 272 224 191 184	192 177 166 163 162
11 12 13 14 15	62 69 75 82 87	55 53 54 58 59	58 64 63 70 75	71 71 65 63 63	93 91 90 88 86	36 33 47 53 53	104 105 108 112 114	85 88 91 88 85	106 108 102 92 90	83 106 150 163 170	200 209 208 208 210	153 149 158 282 629
16 17 18 19 20	82 72 65 57 55	59 62 56 62 62	78 99 85 85 86	64 64 67 69 88	83 82 76 68 67	59 56 50 110 184	114 110 102 95 90	87 85 83 81 80	85 76 70 71 74	172 173 202 199 201	222 225 207 185 168	568 528 501 494 506
21 22 23 24 25	59 62 65 69 70	64 59 59 54 67	83 85 82 83 83	79 78 78 75 76	68 69 63 56 60	148 104 82 79 84	87 88 86 87 94	80 85 85 81 81	78 90 118 127 124	230 269 272 261 222	143 125 125 119 112	526 549 578 632 789
26 27 28 29 30 31	70 71 63 55 53 57	82 79 60 51 45	81 82 93 102 104 102	74 78 75 77 85 108	63 59 59 	93 94 92 105 151 173	95 90 84 79 76	82 83 82 87 87	123 137 126 133 139	212 214 227 249 222 204	102 95 87 97 115	801 800 810 839 881
TOTAL MEAN MAX MIN CFSM IN.	2243 72.4 104 53 .04	1811 60.4 82 45 .03 .04	2256 72.8 104 45 .04	2467 79.6 108 63 .04	2241 80.0 132 56 .04	2495 80.5 184 33 .04 .05	3241 108 166 76 .06	2600 83.9 91 74 .05	3159 105 139 70 .06	5073 164 272 47 .09	5693 184 374 87 .10	12905 430 881 144 .24 .26
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER YI	EARS 1928	- 2001	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	1607 6206 1961 72.4 2001	1032 3068 1961 60.4 2001	792 2483 1954 72.8 2001	847 4414 1998 79.6 2001	888 4176 1998 80.0 2001	996 4869 1998 80.5 2001	979 7096 1960 106 2000	649 2946 1960 80.4 2000	568 2240 1959 94.7 2000	844 5925 1934 101 2000	1220 5415 1960 82.8 2000	1608 5221 1960 100 2000
SUMMARY	STATISTI	CS	FOR 2	2000 CALENI	DAR YEAR		FOR 2001 WAT	TER YEAR		WATER YEA	ARS 1928	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL ANNUAL 10 PERC 50 PERC		CAN		40395 110 258 39 48 .060 .83 205 91 57	Jan 2 Jul 9 Jul 3		881 33 43 911 3.21 28 .070 .94			1005 3374 127 8660 33 43 8660 13.28 26 .55 7.50 2120 692 247	Mar 1 Mar Apr Apr	1960 2001 5 1960 12 2001 8 2001 5 1960 5 1960 9 2000

WITHLACOOCHEE RIVER BASIN 343

02313000 WITHLACOOCHEE RIVER NEAR HOLDER, FL--Continued

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

					DAID.	I MEAN VAL	CEO					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.34	.28	.48	.66	.55	.97	.47	.40	.51	.76	.56
2	.47	.35	.30	.48	.64	.55	.90	.45	.43	.54	.74	.62
3	.44	.36	.31	.48	.52	.56	.87	.46	.43	.42	.79	.71
4	.45	.38	.30	.44	.44	.64	.86	.48	.41	.35	.91	.75
5	.45	.40	.31	.42	.44	.73	.83	.48	. 44	.29	1.04	.75
3	. 43	. 10	.51	. 12	.11	. 73	.05	. 10	.11	.27	1.01	. 75
6	.43	.39	.31	.43	.47	.70	.80	.47	.55	.22	1.37	.75
7	.41	.34	.31	.41	.50	.64	.77	.47	.56	.21	1.01	.69
8	.39	.30	.32	.46	.53	.59	.75	.48	.54	.15	.84	.65
9	.33	. 29	.32	.48	.56	.56	.74	.47	.50	.13	.71	.64
10	.31	.36	.33	.41	.59	.55	.71	.47	.48	.17	.69	.64
10	.51	.50	.55		. 33	.33	• / ±	,	. 10	• = /	.05	.01
11	.34	.32	.34	.37	.58	.54	.68	.45	. 45	.27	.75	.60
12	.36	.32	.36	.37	.58	.53	.68	.46	. 45	.36	.78	.59
13	.39	.32	.36	.35	.58	.60	.69	.47	.43	.53	.78	.63
14	.41	.35	.39	.34	.58	.62	.69	.46	.38	.58	.78	1.08
15	.44	.35	.40	.34	.58	.62	.70	.44	.37	.61	.78	2.28
13		.55	. 10	.51	.50	.02	. 70		,	.01	. 70	2.20
16	.42	.35	.41	.34	.57	.64	.69	.44	.35	.62	.84	2.07
17	.38	.37	.50	.33	.58	.62	.68	.44	.31	.63	.85	1.94
18	.35	.34	.44	.35	.56	.59	.64	.42	.28	.74	.79	1.85
19	.31	.36	.44	.35	.53	.82	.60	.41	.28	.73	.70	1.82
20	.32	.37	.44	. 43	.53	1.10	.58	.41	. 29	.73	.64	1.87
21	.33	.37	.43	.39	.55	.96	.56	.41	.31	.84	.54	1.94
22	.34	.35	.44	.39	.56	.79	.56	.42	.35	.98	.47	2.02
23	.36	.35	.43	.39	.54	.70	.55	.42	.46	.99	.48	2.12
24	.37	.33	.43	.38	.52	.68	.54	.40	. 49	.95	.45	2.30
25	.38	.38	.43	.39	.54	.69	.57	.40	.48	.81	.42	2.81
26	.38	.44	.42	.39	.56	.72	.57	.40	. 47	.77	.40	2.85
27	.38	.43	.42	.41	.55	.72	.54	.40	.52	.79	.37	2.85
28	.35	.35	.47	.41	.56	.71	.52	.39	.48	.84	.34	2.88
29	.31	.31	.50	.42		.76	.49	.41	.50	.92	.38	2.98
30	.31	.28	.51	.46		.92	.47	.41	.52	.82	.45	3.12
31	.32		.50	.56		1.01		.40		.75	.52	
31	. 52		.50	. 50		1.01		. 10		.75	. 52	
MEAN	.38	.35	.39	.41	.55	.69	.67	.44	.43	.59	.69	1.58
MAX	.49	.44	.51	.56	.66	1.10	.97	.48	.56	.99	1.37	3.12
MIN	.31	.28	.28	.33	.44	.53	.47	.39	.28	.13	.34	.56
			55									

CAL YR 2000 MEAN .45 MAX .77 MIN .19 WTR YR 2001 MEAN .60 MAX 3.12 MIN .13

02313100 RAINBOW SPRINGS NEAR DUNNELLON, FL

LOCATION.--Lat $29^{\circ}06^{\circ}08^{\circ}$, long $82^{\circ}26^{\circ}16^{\circ}$, in $SE^{1}/_{4}$ sec.12, T.16 S., R.18 E., Marion County, Hydrologic Unit 03100208, at head of springs, 3.9 mi north of Dunnellon, and 5.7 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1899, 1905, 1907, 1917, 1929-30 (one discharge measurement each water year), October 1930 to November 1964 (discharge measurements only), January 1965 to current year. Prior to October 1940, published as Blue Springs near Dunnellon.

GAGE.--Nonrecording gage. Datum of gage is 28.34 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 19, 1948, at datum 1.63 ft higher. No gage prior to Oct. 8, 1930. July 22, 1931 to Apr. 1, 1933, water-stage recorder at present site. (April 1933 to March 1969, and since April 1971, nonrecording gage read at time of discharge measurements only.)

REMARKS.--Records good. Discharge measurements made approximately, $\frac{1}{4}$ mi upstream of bridge on State Highway 484, 5.0 mi downstream from head of springs; surface inflow between springs and measuring site is negligible except after heavy rains. Discharge computed from relation between artesian pressure at Rainbow Springs well and discharge at measuring site. Artesian pressures are published as water levels for Rainbow Springs Well (290514082270701) in Water Resources Data, Volume 1B, Northeast Florida Ground Water.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 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	518	531	538	528	520	509	524	502	480	480	509	569
2	517	532	537	528	522	509	522	500	482	480	512	569
3	518	533	535	528	520	509	522	501	479	478	515	574
4	519	534	534	529	519	510	521	502	477	476	521	577
5	522	534	535	528	518	512	522	501	480	476	524	576
6	521	533	535	526	517	512	522	498	483	474	530	577
7	523	533	535	525	516	511	520	496	507	473	535	578
8	523	533	533	525	516	510	519	500	484	472	535	578
9	521	535	533	525	516	510	519	497	483	470	537	576
10	523	536	532	524	517	509	517	497	480	471	537	575
11	522	537	532	524	514	506	516	496	478	474	539	575
12	524	536	531	523	514	506	517	495	479	476	544	575
13	524	536	530	521	515	508	516	494	477	481	546	576
14	526	537	532	518	515	512	516	492	477	483	549	581
15	527	536	531	517	516	513	515	493	475	483	551	589
16	527	538	533	517	515	512	514	491	474	482	555	595
17	527	537	532	515	515	512	513	492	472	482	559	597
18	526	537	533	517	512	509	511	489	470	486	560	599
19	528	538	533	517	512	514	511	489	470	487	561	599
20	527	536	532	517	511	521	511	488	473	489	560	601
21	528	537	533	517	512	522	509	485	475	495	560	602
22	527	537	531	517	512	521	507	486	498	497	559	606
23	527	539	531	516	511	519	507	485	478	499	560	612
24	529	540	529	515	511	518	506	485	478	500	560	616
25	529	541	528	515	508	517	507	483	476	500	561	621
26 27 28 29 30 31	532 530 531 531 530 531	542 543 541 539 539	529 528 532 531 530 529	514 514 512 513 514 516	508 508 508 	517 517 519 522 526 527	509 507 506 503 502	483 481 480 480 479 480	474 475 477 501 480	501 501 504 507 507 507	563 562 562 563 566 566	623 626 626 625 623
TOTAL	16288	16100	16497	16115	14398	15939	15411	15220	14392	15091	16961	17816
MEAN	525	537	532	520	514	514	514	491	480	487	547	594
MAX	532	543	538	529	522	527	524	502	507	507	566	626
MIN	517	531	528	512	508	506	502	479	470	470	509	569
					YEARS 1965							
MEAN	755	737	715	702	690	692	693	679	670	680	703	739
MAX	1023	953	907	934	924	1016	957	925	914	879	993	1039
(WY)	1966	1966	1966	1998	1998	1998	1998	1970	1970	1970	1965	1965
MIN	525	537	532	520	514	514	514	491	480	487	537	549
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000
SUMMARY	STATIST	ICS	FOR	2000 CALE	NDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1965	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT 10 PERC 50 PERC	MEAN 'ANNUAL M 'DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE OW FLOW EDS EDS		195198 533 576 489 491 561 534 503	Jan 1 Jun 11 Jun 5		190228 521 626 a470 473 2.13 561 518 480	Sep 27 Jun 15 Sep 20	, 28	704 897 521 1060 a470 473 *1230 5.90 *460 863 686 570	Jun 1 Oct 1 Apr	1970 2001 19 1988 15 2001 12 1964 5 1960 7 2000

^{*} Measured

a Jun 18, 19, Jul 9, 2001

WITHLACOOCHEE RIVER BASIN 345

02313200 WITHLACOOCHEE RIVER AT DUNNELLON, FL

LOCATION.--Lat $29^{\circ}02'45''$, long $82^{\circ}27'53''$, in $NW^{\frac{1}{2}}_4$ sec.35, T.16 S., R.18 E., Marion County, Hydrologic Unit 03100208, near right bank 50 ft upstream from bridge on U.S. Highway 41 at Dunnellon, 0.6 mi downstream from Blue Run, 0.8 mi upstream from Lake Rousseau, and 25 mi upstream from mouth.

DRAINAGE AREA. -- 1,960 mi², approximately.

PERIOD OF RECORD. -- February 1963 to current year (gage heights only).

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Oct. 4, 2000, nonrecording gage at same site and datum.

REMARKS. -- Stage regulated by Lake Rousseau.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 29.70 ft, March 20,21, 1998; minimum, 23.10 ft, estimated, Oct. 11, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1931, 33.0 ft in April 1960, from floodmarks.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY NOV SEP OCT DEC FEB JUN JUL AUG 27.77 27.72 27.68 27.90 28.06 27.99 28.12 27.89 27.89 28.02 27.89 27.73 27.75 27.87 27.87 27.88 2 27.77 27.77 27.69 27.69 27.89 28.03 27.99 28.12 27.86 27.92 28.01 27.95 3 27 89 27.91 27.82 28 00 28.13 27.86 27.79 28 04 28 03 27.71 27.75 27.77 27.69 27.85 28.07 27.85 28.15 28.15 28.07 5 27.74 27.79 27.70 27.84 27.83 28.13 28.13 27.89 27.66 28.19 28.04 6 27.73 27.79 27.71 27.84 27.87 28.11 28.11 27.89 27.99 27.60 28.33 27.98 27.71 27.69 27.73 27.69 27.71 27.72 27.83 27.87 27.92 27.95 27.89 27.89 27.98 27.96 27.57 27.53 27.91 27.84 28.07 28.09 28.15 28.03 28.08 28.00 8 27.64 27.68 27.72 27.87 27.98 28.00 28.06 27.89 27.93 10 27.64 27.73 27.74 27.82 28.01 27.99 28.04 27.88 27.90 27.56 27.89 27.73 11 27.66 27.71 27.75 28.01 27.98 28.03 27.87 27.88 27.66 27.66 27.70 27.72 27.74 27.87 27.88 27.88 27.69 27.73 27.76 27.76 27.77 27.74 28.01 28.01 27.98 28.04 28.02 28.01 27.88 27.85 27.75 27.93 27.62 27.63 12 28.02 13 28.04 27.79 14 28.01 28.07 28.02 27.82 27.86 15 27 78 27 74 27.81 27 74 28.00 28.06 28.03 27 86 27 79 28 01 28.08 28.31 27.77 28.07 27.76 16 27.83 28.00 28.03 28.12 28.15 27.76 27.74 27.76 27.73 27.70 27.90 27.86 27.74 27.75 28.01 27.99 28.05 28.02 28.01 28.00 27.73 27.71 28.03 28.11 28.13 28.06 27.96 27.83 17 27.85 18 ---27.68 27.85 27.77 27.70 28.00 27 76 20 27.68 27.85 27 82 27.97 28.34 27.99 ---27.71 28.11 27.90 27.99 21 27.69 27.84 27.80 27.98 28.22 27.98 27.72 28.18 28.12 22 27.70 27.71 27.76 27.76 27.85 27.84 27.79 27.79 27.99 27.98 28 09 27.98 27.97 ---27.75 27.87 28.23 28.22 27.73 27.75 28.20 23 28.04 28.26 28.31 24 27.73 27.75 27.84 27.78 27.97 28.03 27.97 27.89 28.19 27.73 27 74 27 79 25 27 84 27 80 27 98 28 06 27 96 ---27 87 28 08 27 70 28 42 26 27.75 27.84 27.84 27.80 28.00 28.09 27.95 27.84 28.08 27.66 28.38 27.75 27.72 27.82 27.74 27.82 27.83 27.99 27.99 27.94 27.93 ___ 27.89 27.87 27.64 27.63 27 27.84 28 10 28.08 28 21 28 27.88 28.10 ---28.09 28.05 29 27.69 27.69 27.91 27.85 ---28.14 27.92 ---27.88 28.13 27.68 28.01 30 27.69 27.67 27.92 27.90 28.20 27.91 ---27.90 28.08 27.77 28.02 27.70 27.91 27.98 27.85 31 MEAN 27.72 27.74 27.80 27.82 27.97 28.08 28.02 27.88 27.85 27.93 27.94 28.00 MAX 27.78 27.84 27.92 27.98 28.06 28.34 28.15 27.89 27.99 28.23 28.33 28.42

27.98

27.91

27.85

27.70

27.51

27.63

27.62

WTR YR 2001 MEAN 27.90 MAX 28.42 MIN 27.51

27.68

27.73

27.82

27.67

MIN

27.64

02313200 WITHLACOOCHEE RIVER AT DUNNELLON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-87, 1993, 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

2) 30)
-
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-
4
7
2

347

02313230 WITHLACOOCHEE RIVER AT INGLIS DAM, NEAR DUNNELLON, FL

LOCATION.--Lat $29^{\circ}00'35"$, long $82^{\circ}37'01"$, in $SW^{\frac{1}{2}}_{4}$ sec.8, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, on left bank at upstream side of control structure of Inglis Dam, 3.5 mi southeast of Inglis, 9.8 mi west of Dunnellon, and 11 mi upstream from mouth

DRAINAGE AREA. -- 2,020 mi², approximately.

PERIOD OF RECORD.--June 1964 to September 1969 (gage heights and discharge measurements only), October 1969 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to July 20, 1971, water-stage recorder at site in forebay of powerhouse of the old Inglis Dam and July 20, 1971, to Aug. 23, 1972, at site in private boat basin on south shore of Lake Rousseau at same datum. Auxiliary gage at downstream side of control structure.

REMARKS.--Records good. Records include flow of springs, approximately 70 ft³/s just downstream from control structure; spring flow is considered to be mostly leakage from Lake Rousseau. Flow regulated by manipulation of gates in spillway. Discharge computed from relation between discharge and gate openings. Since December 1969, entire flow diverted below station from old river channel into Cross-Florida Barge Canal, and diversions above station from Lake Rousseau, for boat lockages, through Cross-Florida Barge Canal (see station 02313237) and for maintaining flow in old river channel through Withlacoochee River Bypass Channel (see station 02313250).

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

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

	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	70	70	70	70	70	70	70	70	70	70	460	70
2	70	70	70	70	70	70	70	70	70	70	460	70
3	70	70	70	209	70	70	70	70	70	70	460	70
4	70	70	70	152	70	70	70	70	70	70	460	134
5	70	70	70	70	70	70	70	70	70	70	460	290
6	70	201	70	70	70	70	70	70	70	70	599	290
7	70	146	70	70	70	70	70	70	70	70	792	290
8	70	70	70	70	70	70	70	70	70	70	599	290
9	70	70	70	70	70	70	70	70	70	70	382	290
10	70	70	70	70	70	70	70	70	70	70	290	290
11	70	70	70	70	70	70	70	70	70	70	290	290
12	70	70	70	70	70	70	70	70	70	70	290	244
13	70	70	70	70	70	70	70	70	70	70	290	265
14	70	70	70	70	70	70	70	70	70	70	290	479
15	70	70	70	70	70	70	70	70	70	70	290	1130
16	70	70	70	70	70	70	70	70	70	70	290	1300
17	70	139	70	70	70	70	70	70	70	70	375	1250
18	70	70	132	70	70	70	70	70	70	70	460	918
19	70	70	70	70	70	70	70	70	70	70	460	640
20	70	70	70	70	70	70	70	70	70	70	460	460
21	70	70	70	70	70	70	70	70	70	70	368	522
22	70	70	70	70	70	70	70	70	70	70	290	624
23	70	70	70	70	70	70	70	70	70	302	290	624
24	70	70	70	70	70	70	70	70	70	819	290	624
25	70	70	70	70	70	70	70	70	70	674	290	624
26 27 28 29 30 31	70 70 70 70 70 70	70 70 70 70 70	131 70 70 70 70 70	70 70 70 70 70 70	70 70 70 	70 70 70 70 70 70	70 70 70 70 70	70 70 70 70 70 70	70 70 70 70 70 70	460 460 460 460 460	290 290 152 70 70	624 624 289 70 70
TOTAL	2170	2376	2293	2391	1960	2170	2100	2170	2100	6095	10927	13755
MEAN	70.0	79.2	74.0	77.1	70.0	70.0	70.0	70.0	70.0	197	352	458
MAX	70	201	132	209	70	70	70	70	70	819	792	1300
MIN	70	70	70	70	70	70	70	70	70	70	70	70
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	ZEARS 1970	- 2001,	BY WATER	YEAR (WY)			
MEAN	700	400	298	460	487	524	447	223	165	261	396	597
MAX	3175	2573	2035	4417	4390	5067	3353	1125	696	2058	1995	2675
(WY)	1980	1970	1970	1998	1998	1998	1998	1987	1982	1982	1974	1982
MIN	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.8	71.0
(WY)	2001	1974	1974	1974	1974	1974	1974	1973	1973	1973	1981	1981
SUMMARY	STATISTI	CS	FOR 2	2000 CALE	NDAR YEAR	F	OR 2001 WA	ATER YEAR		WATER Y	EARS 1970	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC		AN AN AN MINIMUM AGE EDS		42304 116 948 70 70 290 70	Sep 18 Many da Feb 15	wys	50507 138 1300 70 70 27.92 328 70 70	Sep 16 Many da Oct 1 2 Sep 25	ays	413 1645 78.8 6000 70 70 28.2 1060 70	Mar	1998 1981 22 1998 ny days ny days 19 1982

348 WITHLACOOCHEE RIVER BASIN

02313231 WITHLACOOCHEE RIVER BELOW INGLIS DAM, NEAR DUNNELLON, FL

LOCATION.--Lat $29^{\circ}00^{\circ}35^{\circ}$, long $82^{\circ}37^{\circ}01^{\circ}$, in SW^{1}_{4} sec.8, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, at downstream side of control structure of Inglis Dam, 3.5 mi southeast of Inglis, 9.8 mi west of Dunnellon, and 11 mi upstream from mouth.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- June 1964 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to June 21, 1971, at downstream end of lock chamber of former Inglis Dam at same datum. June 21, 1971, to Aug. 23, 1972, near left bank 1,500 ft downstream at same datum. This is the auxiliary gage for station 02313230 located at upstream side of control structure.

REMARKS. -- Stage affected by tide and manipulation of gates immediately above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.73 ft, Sept. 13, 1964; minimum, 3.72 ft, below sea level, Jan. 16, 1972.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY NUTL JUL AUG SEP JAN .67 77 75 1 1.15 .42 0.1 .16 .12 1 09 80 .95 1.18 2 .23 -.40 1.00 .94 1.19 .57 -.23 .36 1.02 .81 1.12 .52 .10 -.40 .74 .20 .75 1.55 1.15 .05 4 1 14 1 03 -.35 - 18 1.78 66 04 71 78 1 75 1 24 5 .47 1.09 1.20 -.01 .81 .50 .25 .69 .93 1.32 .14 1.73 .71 .02 .43 6 1 06 1.46 .53 .35 - 07 55 91 1 94 1 19 .52 .63 .74 1.44 .52 .09 -.06 .33 .75 .86 1.81 1.31 8 .27 1.59 .78 .86 .03 .28 .67 .26 .71 .93 1.58 1.33 -1.04 1.19 9 1.97 .80 -.07 .23 .83 .75 .60 .82 1.33 1.29 10 .37 .75 .89 -.27 1.40 .81 -.29 .26 .93 1.06 1.12 1.15 11 .94 .81 1.15 1.35 1.04 .75 .35 .28 .13 .56 .96 .86 12 .54 .97 .87 .58 .15 .90 .82 .92 1.83 1.44 1.00 .83 .92 13 .69 1.23 .78 .05 -.01 1.20 .90 .88 .97 1.42 .78 1.13 14 1.03 1.24 .86 .28 .07 .47 .92 .62 .71 .53 .94 15 1.14 .47 .68 .28 .23 1.30 1.06 .78 .54 .36 1.43 2.44 1.13 1.03 .76 1.00 16 1.17 1.08 .31 .43 .54 1.36 2.86 .46 1.19 1.29 1.02 .30 .52 .24 .51 .85 .40 .67 1.46 2.82 18 1 12 .48 .16 .70 .44 -.62 -.39 -.66 .12 .72 .70 .30 .92 1 64 2 28 .97 1.84 19 1.04 .85 -.11 -.22 .42 .96 1.81 20 .88 .12 -.58 .40 .30 1.37 .49 .86 .49 .94 1.73 1.71 21 .90 -.41 .20 -.68 .45 .74 .51 .92 .66 1.05 1.63 1.89 .85 .08 .27 1.05 -.24 -.14 .64 .85 1.10 1.91 .33 .29 -.70 -.52 23 42 -.57 16 .56 1.06 99 2 55 1.26 1 83 24 .26 1.13 -.05 .34 .41 .67 2.64 1.22 1.90 .81 .80 25 .74 -.65 -.16 .55 .59 .67 1.04 .67 1.70 1.10 1.74 26 1.08 .94 -.34 -.29 .59 .45 -.04 1.16 .58 1.18 1.06 1.88 2.7 1.21 .61 .67 .17 .40 -.07 .03 .94 .31 1.06 1.18 2.19 .48 1 58 .74 .94 .90 .87 .79 28 1 21 .25 0.0 .46 1 07 33 1.34 29 1.30 .50 1.33 .25 1.27 .40 -.02 .62 30 1.09 .30 .04 . 97 .04 .69 1.01 -.01 1.14 31 1 03 - 37 68 .83 72 ___ .92 1 07 MEAN .92 .34 .18 .18 .62 .52 .73 . 73 1.07 1.31 1.47 MAX 1.30 1.97 1.58 .97 .74 1.78 1.06 1.27 1.83 2.64 1.94 2.86 .04 -.66

CAL YR 2000 MEAN .81 MAX 2.32 MIN -1.18 WTR YR 2001 MEAN .74 MAX 2.86 MIN -1.04

02313250 WITHLACOOCHEE RIVER BYPASS CHANNEL NEAR INGLIS, FL

LOCATION.--Lat $29^{\circ}01^{\circ}15^{\circ}$, long $82^{\circ}38^{\circ}17^{\circ}$, in NE $\frac{1}{4}$ sec.12, T.17 S., R.16 E., Levy County, Hydrologic Unit 03100208, on right bank 1.3 mi upstream from control structure, 1.4 mi upstream from mouth, and 3.0 mi east of Inglis.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Prior to July 16, 1971, water-stage recorder for Withlacoochee River at Inglis Dam, near Dunnellon (station 02313230) used as base gage for this station. Prior to Sept. 26, 1991, gage located 90 ft above control structure and 1.2 mi downstream from present site.

REMARKS.--Records good. Flow regulated by manipulation of gates in spillway; channel completed and flow through spillway began Dec. 17, 1969. Discharge computed from relation between discharge and gate openings. Discharge at station is the diversion from Lake Rousseau to maintain flow in the old river channel.

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

		DISCHARGE	E, CUBIC	FEET PER		WATER YE MEAN V	EAR OCTOBER ALUES	2000 TO	SEPTEMBE	R 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	554	436	436	436	780	397	406	436	358	648	318	476
2	554	436	436	436	948	372	358	411	358	751	318	476
3	554	436	436	436	785	358	409	397	358	678	318	490
4	554	436	436	436	526	358	514	397	358	633	318	594
5	554	436	436	436	331	383	554	397	358	633	318	594
6	554	488	436	436	279	397	554	397	411	559	318	594
7	554	515	436	436	279	397	554	397	436	515	318	594
8	554	515	436	470	334	397	528	397	410	515	318	594
9	514	515	436	515	382	397	515	397	397	404	318	594
10	424	515	436	515	397	397	488	397	397	318	318	594
11	397	466	436	515	397	397	476	397	397	318	318	594
12	397	436	436	515	397	397	476	397	371	318	318	594
13	397	436	436	463	449	397	476	397	397	318	318	490
14	397	436	436	436	476	448	476	397	397	318	361	318
15	497	436	436	436	449	476	476	397	397	318	397	298
16	554	436	436	436	409	476	455	397	372	367	397	318
17	554	436	436	436	397	476	436	397	358	397	397	318
18	554	436	436	436	397	476	436	397	358	465	397	318
19	477	436	436	436	397	720	436	370	358	515	397	318
20	436	436	436	436	397	1220	436	358	358	515	397	318
21	436	436	436	436	397	887	436	358	358	515	397	318
22	436	436	436	436	397	537	487	358	358	687	397	397
23	436	436	436	436	397	384	462	358	433	569	397	476
24	436	436	436	394	397	358	436	358	476	187	397	549
25	411	511	436	358	397	358	436	358	449	318	397	787
26 27 28 29 30 31	397 528 554 516 436 436	598 672 672 593 476	436 436 436 436 436 436	358 358 358 358 383 509	397 397 397 	358 384 397 555 1230 857	436 436 436 436 436	358 358 358 358 358 358	436 463 476 523 633	318 318 318 318 318 318	397 397 397 397 397 428	988 988 1290 1500 1500
TOTAL	15052	14384	13516	13481	12382	15641	13896	11865	12209	13687	11275	18277
MEAN	486	479	436	435	442	505	463	383	407	442	364	609
MAX	554	672	436	515	948	1230	554	436	633	751	428	1500
MIN	397	436	436	358	279	358	358	358	358	187	318	298
STATIST	CICS OF MC	NTHLY MEAN	DATA FO	R WATER Y	EARS 1970	0 - 2001,	BY WATER	YEAR (WY)			
MEAN	1051	1036	1027	1027	1070	1043	1041	964	953	1009	1067	1082
MAX	1594	1566	1574	1549	1502	1480	1574	1518	1551	1548	1557	1577
(WY)	1974	1980	1998	1989	1989	1986	1984	1984	1984	1984	1984	1973
MIN	265	240	436	435	442	470	463	379	364	442	364	508
(WY)	1973	1973	2001	2001	2001	2000	2001	2000	2000	2001	2001	2000
SUMMARY	STATISTI	CS	FOR 2	000 CALEN	DAR YEAR	F	FOR 2001 WA	TER YEAR		WATER YE	EARS 1970	- 2001
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM 10 PERC 50 PERC		AN AN MINIMUM GE EDS EDS		176892 483 869 200 227 620 476 377	Feb 15 Jun 15- Jun 12	-18	165665 454 1500 187 299 27.84 557 436 318	Sep 29 Jul 24 Jul 24 Jul 23		1031 1488 454 1840 53 86 28.31 1500 1030 565	Oct :	1984 2001 1 1987 11 1972 9 1972 19 1977

DISCHARGE AT MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. 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.

Discharge measurements made at miscellaneous sites during water year 2001

				Measured	Measure	
Stream	Tributary to	Location	Drainage area (mi ²)	previously (Water years)	Date	Dis- charge (ft ³ /s)
	ST	. JOHNS RIVER BASIN ABOVE OCKLAWAF	HA RIVER			_
02234650 Miami Springs	Unnamed Creek	Lat $28^{\circ}42'36''$, long $81^{\circ}26'34''$, in $NE^{1}/_{4}$ sec. 31, T.20 S., R.29 E., Seminole County, Hydrologic Unit 03080101, at outlet of spring pool, 1,100 ft upstream from Wekiva River, and 5.9 mi west of Longwood.		1945,1960 1973-00	05-22-01 09-11-01	4.0 6.0
02234991 Sanlando Springs	Little Wekiva River	Lat 28°41'19", long 81°23'45", in SE ¹ / ₄ sec.3, T.21 S., R.29 E., Seminole County, Hydrologic Unit 03080101, at north outlet of spring pool, 0.2 mi upstream from Little Wekiva River, and 3.0 mi west of Longwood.		1942,1946 1954,1956 1958,1961 1972-00	05-22-01 09-27-01	13 27
02234996 Palm Springs	Little Wekiva River	Lat 28°41'27", long 81°23'34", in NW ¹ / ₄ sec.2, T.21 S., R.29 E., Seminole County, Hydrologic Unit 03080101, at outlet of spring pool, 200 ft upstream from Little Wekiva River, and 2.9 mi west of Longwood.		1942,1954 1956,1961 1972-00	05-22-01 09-27-01	4.7 6.0
02234997 Starbuck Spring	Little Wekiva River	Lat $28^{\circ}41'48''$, long $81^{\circ}23'28''$, in $NW^1/_4$ sec.2, T.21 S., R.29 E., Seminole County, Hydrologic Unit 03080101, at outlet of spring pool, at edge of Little Wekiva River, and 2.7 mi west of Longwood.		1944,1961 1972-00	05-22-01	12
284740081251701 Wekiva Springs Resort Flowing Borehole	Wekiva River	Lat 28°47'40", long 81°25'17", in NW ¹ / ₄ sec. 33, T.19 S., R.29 E., Lake County, Hydrologic Unit 03080101, at swimming area of Wekiva Falls Resort, 0.3 mi upstream from Wekiva River, and about 9 mi. west of Sanford.		1997, 1999	05-17-01 08-16-01	18 22
285038081270100 Palm Springs	Blackwater Creek	Lat 28°50'38", long 81°27'01", in SW¹/ ₄ sec. 7, T.19 S., R.29 E., Lake County, Hydrologic Unit 03080101, in Seminole State Forest 20 ft below culvert, 0.3 mi upstream from Blackwater Creek, and 5.7 mi northeast of Mount Plymouth.		1997	05-17-01	0.24
285102081263900 Blueberry Springs	Blackwater Creek	Lat 28°51'02", long 81°26'39", in SE ¹ / ₄ sec. 7, T.19 S., R.29 E., Lake County Hydrologic Unit 03080101, in Seminole State Forest, 20 ft downstream from sprin outlet, 300 ft upstream from Blackwater C and 6.1 mi northeast of Mount Plymouth.		1997	05-17-01	0.00

$\underline{Discharge\ measurements\ made\ at\ miscellaneous\ sites\ during\ water\ year\ 2001--Continued}$

			Desire	Measured	Measur	
Stream	Tributary to	Location	Drainage area (mi ²)	previously (Water years)	Date	Dis- charge (ft ³ /s)
	ST. JOH	NS RIVER BASIN ABOVE OCKLAWAHA I	RIVERCont	inued		
285105081263800 Moccasin Springs	Blackwater Creek	Lat 28°51′05", long 81°26′38", in SW ¹ / ₄ sec. 8, T.19 S., R.29 E., Lake County, Hydrologic Unit 03080101, in Seminole State Forest, 100 ft downstream from spring outlet, 400 ft upstream from Blackwater Creek, and 6.2 mi northeast of Mount Plymoutless of the state of the stat		1997	05-17-01	0.28
285224081262400 Sharks Tooth Springs	Blackwater Creek	Lat 28°52'24", long 81°26'24", in SE¹/ ₄ sec. 32, T.18 S., R.29 E., Lake County, Hydrologic Unit 03080101, in Seminole State Forest, at spring outlet, 200 ft north of Grade R. and 7.2 mi northeast of Mount Plymoutl		1997	05-17-01	0.10
285702081322400 Camp La-no-chee Springs	Lake Norris	Lat 28°57'02", long 81°32'24", in SW ¹ / ₄ sec. 5, T.18 S., R.28 E., Lake County, Hydrologic Unit 03080101, 60 ft downstream from spring outlet, 200 ft north of Lake Norris, and 2.4 mi south of Paisley	f	1955, 1972 1997	05-16-01	0.52
290220081260400 Mosquito Springs Run	St. Johns River	Lat 29°02'20", long 81°26'04", in SE ¹ / ₄ sec.37, T.17 S., R.29 E., Lake County, Hydrologic Unit 03080101, 0.5 mi upstr from St. Johns River, 0.5 mi northwest of intersection of Forest Service Rd. 541 unmarked Forest Service Rd, and 7.4 mi northeast of Paisley.	and	1997-98, 2000	05-16-01	1.1
02236095 Alexander Springs	St. Johns River	Lat 29°04′50", long 81°34′30", in Levy Land Grant, T.16 S., R.27 E., Lake County, Hydrologic Unit 03080101, at head of Alexander Springs Creek, 1.5 mi upstream from bridge on State Highway 445, and 6.5 mi southwest of Astor.		1931,1933 1935-36 1946,1956 1961 1966-67 1969,1972 1977 1981-00	05-22-01 09-12-01	96 94
02236110 Ponce DeLeon Springs	Spring Garden Creek	Lat 29°08′02", long 81°21′47", in land grant 42, T.16 S., R.29 E., Volusia County, Hydrologic Unit 03080101, at weir outlets to Spring Garden Lake, 1.8 mi upstream from Deep Creek, and 8.1 mi northwest of De Land.		1929,1932 1946-47 1956,1961 1965-80 [†] 1981-00	05-22-01 09-12-01	22 27
02236130 Juniper Springs	Lake George	Lat 29°11′01", long 81°42′45", in SE¹/ ₄ sec.17, T.15 S., R.26 E., Marion County, Hydrologic Unit 03080101, at head of Juniper Creek, 4.3 mi west of the intersection of State Highways 19 and 40, 9.3 mi upstream from Lake George, and 26.1 mi east of Ocala.		1929 1935-37 1946,1956 1961,1972 1981-00	05-25-01 09-11-01	8.3 7.0
02236132 Fern Hammock Springs ^a	Juniper Creek	Lat 29°11′00", long 81°42′29", in SE¹/ ₄ sec.17, T.15 S., R.26 E., Marion County, Hydrologic Unit 03080101, 0.4 mi downstream from Juniper Springs, 9.0 mi upstream from Lake George, and 26.3 mi east of Ocala.		1935-37, 1946,1956 1961,1972 1981-00	05-25-01 09-11-01	9.6 10

Discharge measurements made at miscellaneous sites during water year 2001--Continued

			Drainage	Measured previously	Measurements Dis-		
Stream	Tributary to	Location	area (mi ²)	(Water years)	Date	charge (ft ³ /s)	
	ST. JO	HNS RIVER BASIN ABOVE OCKLAWAH	A RIVERCont	inued			
02236147 Sweetwater Springs	Juniper Creek	Lat 29°13′07" long 81°39′36", in NE¹/4 of F. M. Arredondo Grant, T.15 S., R.26 E., Marion County, Hydrologic Unit 03080101, near left bank of Juniper Creek, 0.5 mi upstream from State Highway 19, and 7.2 mi northwest of Astor Park.		1981-00	05-23-01 09-14-01	12 8.5	
02236152 Morman Branch	Juniper Creek	Lat 29°11'30", long 81°39'20", in F.M Arredondo Grant, T.15 S., R.26 Marion County, Hydrologic Unit 03080101, at culvert on SR 19, and 8.2 mi west of Astor.	S.,	1929, 2000	05-18-01	1.1	
291200081390601 Morman Branch	Juniper Creek	Lat 29°12'00", long 81°39'06", in sec of F.M. Arredondo Grant, T.15 S., R Marion County, Hydrologic Unit 030 at culvert on dirt trail, 0.4 mi upstrea Juniper Creek, 0.4 mi east of State H and 8.0 mi northwest of Astor.	26 E., 080101, .m from	1981, 1997, 2000	05-18-01	5.9	
291136081380100 Unnamed Tributary	Juniper Creek	Lat 29°11'36", long 81°38'01", in sec F.M. Arredondo Grant, T.15 S., R.27 Lake County, Hydrologic Unit 0308t at culvert on dirt trail, 0.6 mi upstrea Juniper Creek, 1.6 mi east of State H and 6.8 mi northwest of Astor.	7 E., 0101, .m from	1981,1997, 2000	05-18-01	3.7	
02236160 Silver Glen Springs	Lake George	Lat $29^{\circ}14'40"$, long $81^{\circ}38'34"$, in $SE^{1}/_{4}$ sec.25, T.14 S., R.26 E., Marion County, Hydrologic Unit 03080101, 0.5 mi upstream from Lake George, and 9.1 mi northwest of Astor.		1931-33 1935-36 1946,1956 1961,1972 1981-82 1984-00	05-24-01 09-13-01	115 109	
02236205 Salt Springs	Lake George	Lat 29°21'00", long 81°43'40", in sec. 42, Joseph M. Hernandez Grant, T.13 S., R.26 E., Marion County, Hydrologic Unit 03080101, 4.0 mi upstream from Lake George, and 10.9 mi east of Eureka.		1929-33 1935-36 1946,1956 1961 1966-67 1972 1981-00	05-24-01 09-13-01	82 67	

[†] Operated as a periodic station.

a Also known as "The Aquarium".

ELEVATION OF LAKES

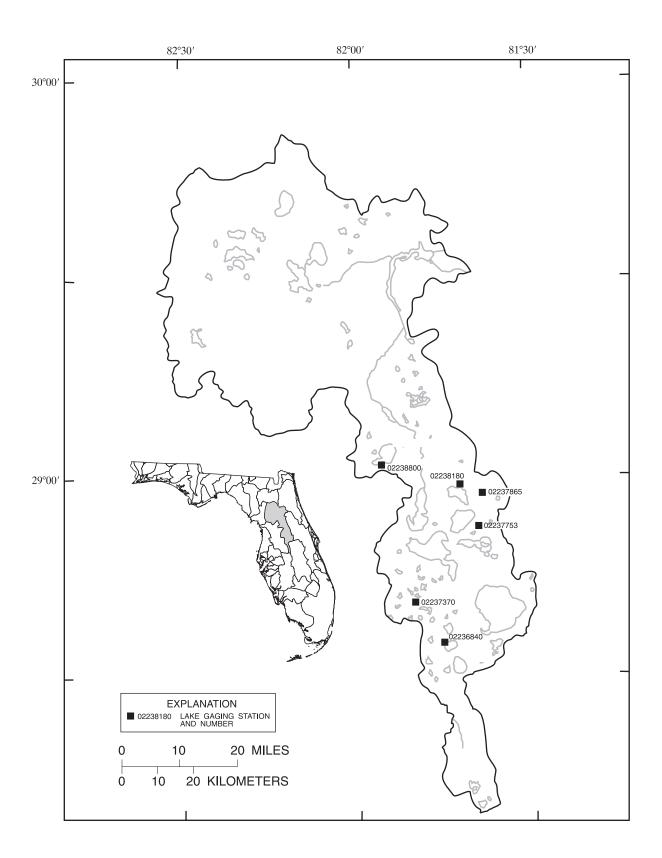


Figure 11.--Location of lake gaging stations in the Ocklawaha River basin.

02236840 LAKE MINNEHAHA AT CLERMONT, FL

LOCATION.--Lat $28^{\circ}32^{\circ}13^{\circ}$, long $81^{\circ}47^{\circ}02^{\circ}$, in $NN^{\frac{1}{2}}_{4}$ sec.26, T.22 S., R.25 E., Lake County, Hydrologic Unit 03080102, on northwest side of lake in Cypress Cove, on private pier, 500 ft east of State Highway 561, and 1.2 mi southwest of Clermont.

SURFACE AREA.--2,410 acres $(3.77 \ \mathrm{mi}^{2})$.

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD. -- May 1945 to September 1995, October 1998 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area, surface area.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to June 5, 1946, nonrecording gage, and June 5, 1946, to Dec. 8, 1969, water-stage recorder, at site 1.8 mi east on north shore of lake. Gage at datum 91.32 ft higher May 31, 1945 to Aug. 20, 1955. Dec. 9, 1969 to Sept. 30, 1995, water-stage recorder at site 0.2 mi north at present datum.

REMARKS.--Lake is one of the Palatlakaha River headwaters chain of lakes. Since 1956, lake level partly controlled by earthen dam and concrete spillway with radial lift gates at outlet of Cherry Lake.

EXTREMES FOR PERIOD OF RECORD. -- Maximum daily elevation, 99.04 ft, Apr. 5, 1960; minimum daily, 88.89 ft, July 8, 2001.

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 2 3 4 5	90.90 90.88 90.88 90.87 90.87	90.61 90.60 90.58 90.58 90.57	90.36 90.36 90.35 90.32 90.31	90.07 90.06 90.04 90.03 90.03	89.94 89.93 89.92 89.92	89.73 89.73 89.71 89.74 89.70	89.85 89.86 89.84 89.82 89.82	89.32 89.30 89.30 89.30 89.28	88.92 88.93 88.95 89.05	88.96 88.96 88.94 88.93 88.90	89.13 89.14 89.14 89.14 89.19	89.27 89.26 89.24 89.23 89.23
6 7 8 9 10	90.86 90.84 90.81 90.74 90.71	90.57 90.56 90.55 90.53 90.51	90.30 90.29 90.29 90.29 90.28	90.02 90.02 90.02 90.01 90.01	89.91 89.91 89.92 89.90 89.89	89.68 89.66 89.65 89.64 89.65	89.83 89.81 89.79 89.78 89.78	89.26 89.24 89.22 89.19 89.17	89.05 89.07 89.08 89.06 89.03	88.92 88.91 88.89 88.97 88.98	89.23 89.24 89.23 89.25 89.32	89.23 89.28 89.33 89.40 89.54
11 12 13 14 15	90.69 90.68 90.66 90.74 90.82	90.49 90.48 90.47 90.47 90.47	90.29 90.29 90.29 90.29 90.29	90.00 89.99 89.99 89.99	89.89 89.89 89.88 89.87	89.63 89.63 89.63 89.64 89.62	89.76 89.74 89.71 89.69 89.67	89.16 89.13 89.11 89.12 89.10	89.02 88.99 88.96 88.99 88.97	88.98 88.98 88.98 88.98 88.95	89.30 89.31 89.34 89.45 89.45	89.56 89.58 89.60 89.82 90.08
16 17 18 19 20	90.80 90.79 90.78 90.78 90.77	90.46 90.45 90.43 90.42 90.40	90.28 90.24 90.22 90.20 90.18	89.99 89.98 89.98 89.98	89.86 89.84 89.83 89.81 89.80	89.62 89.61 89.60 89.68 89.82	89.64 89.60 89.56 89.55 89.54	89.07 89.04 89.02 89.00 88.98	88.95 88.94 88.96 89.05 89.03	88.93 88.96 89.08 89.09 89.07	89.45 89.46 89.44 89.44	90.12 90.12
21 22 23 24 25	90.76 90.75 90.73 90.71 90.69	90.38 90.36 90.35 90.35 90.35	90.17 90.16 90.15 90.14 90.12	89.97 89.95 89.93 89.93	89.79 89.77 89.77 89.77	89.79 89.77 89.77 89.76 89.75	89.51 89.50 89.48 89.46 89.44	88.98 89.04 89.02 89.01 89.00	89.01 88.99 89.01 89.01	89.07 89.11 89.14 89.13 89.11	89.48 89.47 89.45 89.43 89.41	
26 27 28 29 30 31	90.69 90.68 90.67 90.66 90.64 90.63	90.37 90.40 90.40 90.38 90.37	90.12 90.12 90.11 90.11 90.09 90.08	89.91 89.90 89.89 89.90 89.89	89.74 89.74 89.75 	89.73 89.72 89.71 89.76 89.88 89.87	89.42 89.40 89.37 89.37 89.33	88.98 88.95 88.95 88.96 88.94 88.93	88.99 88.99 88.97 88.97	89.10 89.11 89.14 89.13 89.10 89.09	89.39 89.37 89.36 89.34 89.32 89.30	
MEAN MAX MIN	90.76 90.90 90.63	90.46 90.61 90.35	90.23 90.36 90.08	89.98 90.07 89.89	89.85 89.94 89.74	89.71 89.88 89.60	89.63 89.86 89.33	89.10 89.32 88.93	89.00 89.08 88.92	89.02 89.14 88.89	89.34 89.48 89.13	89.52 90.12 89.23

CAL YR 2000 MEAN 91.63 MAX 93.56 MIN 90.08 WTR YR 2001 MEAN 89.72 MAX 90.90 MIN 88.89

02237370 CHURCH LAKE NEAR GROVELAND, FL

LOCATION.--Lat $28^{\circ}38^{\circ}40^{\circ}$, long $81^{\circ}50^{\circ}47^{\circ}$, in $SE^{1/}_{4}$ sec.19, T.21 S., R.25 E., Lake County, Hydrologic Unit 03080102, on west shore of lake, 0.8 mi south of U.S. Highway 27, and 5.7 mi north of Groveland.

SURFACE AREA.--155 acres (0.24 mi^2).

DRAINAGE AREA.--1.66 mi².

PERIOD OF RECORD. -- March 1970 to current year (weekly).

REVISED RECORD.--WDR FL-72-3: Drainage area, surface area.

GAGE.--Nonrecording gage. Datum of gage is at sea level (Florida Department of Transportation bench mark).

REMARKS.--There is some pumpage from lake for irrigation purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 87.66 ft, Aug. 26, 1970; minimum observed, 77.96 ft, June 23, 2001.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 83.16 ft, Sept. 23; minimum observed, 77.96 ft, June 23.

DAILY INSTANTANEOUS VALUES

OCT NOV DEC JAN FEB MAR APR MAY JUN

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2									78.29			
3												80.54
4									78.30		79.10	
5					80.24			78.64				
6												
7							79.55			77.99		
8			81.24									
9									78.10			81.00
10												
11							79.48				79.40	
12					80.04			78.52				
13					80.02							
14							79.31			78.20		
15				80.60								
16									77.98			82.50
17												
18			81.01								79.90	
19					79.84			78.45				
20												82.49
21		81.26					79.08			78.40		
22				80.42		79.46						
23									77.96			83.16
24	81.74					79.39						
25											80.56	
26	81.72				79.62			78.29				
27												
28							78.96			79.10		82.88
29			80.86	80.19								
30									77.97	79.10		
31						79.60						
MAX	81.74	81.26	81.24	80.60	80.24	79.60	79.55	78.64	78.30	79.10	80.56	83.16
MIN	81.72	81.26	80.86	80.19	79.62	79.39	78.96	78.29	77.96	77.99	79.10	80.54

02237753 WEST CROOKED LAKE NEAR EUSTIS, FL

LOCATION.--Lat $28^{\circ}49^{\circ}49^{\circ}$, long $81^{\circ}40^{\circ}20^{\circ}$, in SW^{1}_{4} sec.13, T.19 S., R.26 E., Lake County, Hydrologic Unit 03080102, on east shore of southeast bay of lake, 1.7 mi southeast of Eustis.

SURFACE AREA.--107 acres (0.17 mi^2).

DRAINAGE AREA.--0.67 mi², includes East Crooked Lake.

PERIOD OF RECORD. -- February 1970 to current year (weekly).

REVISED RECORDS.--WDR FL-72-3: Drainage area, surface area.

GAGE.--Nonrecording gage. Datum of gage is at sea level.

REMARKS.--Lake is interconnected with East Crooked Lake above an elevation of about 69 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 71.48 ft, Apr. 11, 1970; minimum observed, 58.16 ft, June 21, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 74.74 ft was reached in 1960 from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 61.96 ft, Oct. 5; minimum observed, 58.16 ft, June 21.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												58.78
3										58.40		
4		61.34										
5	61.96					59.70		58.92				
6					60.08							59.26
7							59.56				58.72	
8									58.24			
9										58.30		
10												
11		61.28										
12	61.82											
13						59.56					58.84	
14							59.48	58.70				
15					59.96				58.22			
16										58.20		60.42
17										58.46		
18							59.28					
19	61.64											
20	61.61					59.70						
21							59.24		58.16			
22				60.12	59.82						58.88	
23										58.60		
24								58.44				60.94
25												
26												
27	61.50											
28					59.74	59.52						
29			60.45	59.98			59.00					
30								58.34		58.66		60.94
31										58.60	58.80	
MAX	61.96	61.34	60.45	60.12	60.08	59.70	59.56	58.92	58.24	58.66	58.88	60.94
MIN	61.50	61.28	60.45	59.98	59.74	59.52	59.00	58.34	58.16	58.20	58.72	58.78

02237865 LAKE UMATILLA AT UMATILLA, FL

LOCATION.--Lat $28^{\circ}55^{\circ}06^{\circ}$, long $81^{\circ}39^{\circ}44^{\circ}$, in SE_{4}^{1} sec.13, T.18 S., R.26 E., Lake County, Hydrologic Unit 03080102, on south shore of lake, 0.8 mi south of Umatilla.

SURFACE AREA.--165 acres (0.26 mi²).

DRAINAGE AREA.--2.46 mi².

PERIOD OF RECORD. -- March 1970 to current year (weekly).

REVISED RECORDS.--WDR FL-72-3: Drainage area, surface area.

GAGE.--Nonrecording gage. Datum of gage is at sea level. Prior to Feb. 4, 1983, at site 1,200 ft west at present datum.

REMARKS.--Lake is landlocked except above an elevation of about 70 ft, when there is overflow to the south into a swamp known as Eustis Meadows, thence through a canal into Lake Eustis.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 68.87 ft, Nov. 16, 1995; minimum observed, 64.20 ft, Dec. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 66.76 ft, Sept. 29, minimum observed, 64.32 ft, June 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2			65.46						64.44			
3					65.16	64.92					65.18	
4		65.74										
5								64.70				
6				65.28								65.48
7							65.20			64.76		
8	66.16								64.45			
9			65.38						64.40	64.71		
10					65.14	64.82						
11		65.68									65.36	
12												
13				65.20								
14	65.98						65.10			64.80		
15					65.10							
16			65.40						64.32			66.58
17					65.06	64.94		64.56				
18		65.58					65.00				65.38	
19												
20	65.90											66.65
21				65.18			64.88			64.88		
22									64.48			66.66
23			65.38									
24					64.98	65.08						
25												
26		65.46										
27				65.12				64.54				
28	65.86						64.78			65.18		
29			65.35									66.76
30			65.32						64.68			
31						65.26				65.16		
MAX	66.16	65.74	65.46	65.28	65.16	65.26	65.20	64.70	64.68	65.18	65.38	66.76
MIN	65.86	65.46	65.32	65.12	64.98	64.82	64.78	64.54	64.32	64.71	65.18	65.48

02238180 HOLLY LAKE NEAR UMATILLA, FL

LOCATION.--Lat $28^{\circ}56'11"$, long $81^{\circ}43'04"$, in SW_{4}^{1} sec.9, T.18 S., R.26 E., Lake County, Hydrologic Unit 03080102, on south shore of lake, at county boat ramp on County Road 450, and 3.1 mi west of Umatilla.

SURFACE AREA.--96 acres (0.15 mi^2).

DRAINAGE AREA. -- 0.78 mi².

PERIOD OF RECORD.--October 1967 to October 1968 (thrice weekly); November 1968 to February 1970 (weekly); August 1982 to March 1983 (fragmentary); April 1983 to current year (weekly).

GAGE. -- Nonrecording gage. Datum of gage is at sea level.

REMARKS.--At high stages Holly, Ella, and Yale Lakes are interconnected and some natural diversion occurs northward to Nicotoon Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 61.43 ft, July 31, 1984; minimum observed, 53.99 ft, June 12, 2001. EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 56.36 ft, Oct. 4; minimum observed, 53.99 ft, June 12.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

					211121 1110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2								54.61				
3												
4	56.36			55.15								
5							55.18		54.12			54.81
6										54.53	54.83	
7			55.38		55.01							
8		55.73							54.10			
9								54.52				
10	56.18											
11							55.08					
12									53.99			
13			55.39								55.12	54.97
14					54.97	54.79						
15					54.96							
16	56.08	55.59								54.54		
17				55.08								
18							54.95					
19							54.89	54.31				
20	56.06		55.30									56.12
21					54.88				54.31		55.03	
22						54.96						
23		55.48										
24				54.99								56.12
25	55.96									54.88		
26							54.67		54.33			
27												
28			55.24		54.82	54.88					54.96	
29		55.51										
30								54.12				56.19
31				54.98						54.87		
MAX MIN	56.36 55.96	55.73 55.48	55.39 55.24	55.15 54.98	55.01 54.82	54.96 54.79	55.18 54.67	54.61 54.12	54.33 53.99	54.88 54.53	55.12 54.83	56.19 54.81

02238800 LAKE WEIR NEAR WEIRSDALE, FL

(Formerly published as Lake Weir at Ocklawaha)

LOCATION.--Lat $29^{\circ}00'13"$, long $81^{\circ}55'16"$, in $NW^{\frac{1}{4}}_{4}$ sec. 21, T.17 S., R.24 E., Marion County, Hydrologic Unit 03080102, on southeast shore of lake, on private pier, 1.5 mi north of Weirsdale.

SURFACE AREA. -- 5,760 acres (9.00 mi²).

DRAINAGE AREA. -- 53.8 mi².

PERIOD OF RECORD.--April 1936 to October 1942 (monthly means only), November 1942 to September 1997, October 2000 to September

REVISED RECORDS.--WDR FL-74-1: Surface area, drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is at sea level (levels by St. Johns River Water Management District). Prior to Oct. 1, 1997 at various locations on the north shore of the lake at different datums. See WDR FL-97-1 for the history of changes.

REMARKS.--Lake level partly controlled by broad-crested weir in outlet canal to the Ocklawaha River; elevation of fixed crest is 57.4 ft. Canal dug and control built in April 1938.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

SEP

52.10

AUG

52.16

EXTREMES FOR PERIOD OF RECORD. -- Maximum monthly elevation, 59.6 ft, Jan. 1938; minimum daily, 51.55 ft, June 6, 2001.

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 51.65 52.79 52.50 52.24 52.10 52.54 52.06 51.91 e53.23

2 3 4 5	53.20 53.18 53.19 53.18	52.77 52.76 52.75 52.74	52.50 52.50 52.48 52.46	52.28 52.29 52.28 52.27	52.25 52.25 52.25 52.26	52.09 52.08 52.10 52.11	52.52 52.51 52.50 52.50	52.05 52.05 52.03 52.02	51.63 51.60 51.58 51.56	51.89 51.88 51.87 51.86	52.16 52.16 52.18 52.29	52.10 52.12 52.10 52.11
6 7 8 9	53.18 53.18 53.16 53.11 53.05	52.73 52.72 52.71 52.70 52.71	52.45 52.43 52.43 52.42 52.42	52.26 52.26 52.26 52.27 52.27	52.25 52.24 52.24 52.24 52.24 52.24	52.06 52.02 51.99 51.98 51.98	52.50 52.49 52.48 52.48 52.47	52.01 52.00 51.98 51.97 51.96	51.55 51.58 51.65 51.63 51.61	51.87 51.94 52.04 52.05 52.09	52.37 52.42 52.42 52.41 52.40	52.15 52.30
11 12 13 14 15	53.03 53.00 52.98 52.97 52.96	52.69 52.67 52.66 52.65 52.64	52.42 52.45 52.44 52.45 52.45	52.25 52.25 52.25 52.25 52.25	52.23 52.23 52.23 52.22 52.19	51.97 51.97 52.03 52.06 52.06	52.46 52.45 52.44 52.44 52.44	51.94 51.93 51.92 51.91 51.90	51.58 51.60	52.11 52.10 52.12 52.14 52.12	52.38 52.37 52.35 52.33 52.31	52.31 52.30 52.32 52.62 52.88
16 17 18 19 20	52.95 52.93 52.92 52.92 52.91	52.62 52.61 52.60 52.58 52.57	52.44 52.45 52.42 52.42	52.25 52.25 52.25 52.24 52.26	52.19 52.18 52.17 52.15 52.14	52.10 52.12 52.12 52.26 52.46	52.43 52.40 52.34 52.29 52.27	51.89 51.88 51.86 51.84 51.82	 51.70 51.81 51.80	52.10 52.10 52.10 52.09 52.12	52.29 52.29 52.27 52.26 52.24	52.87 52.86 52.86 52.85 52.85
21 22 23 24 25	52.89 52.88 52.87 52.86 52.85	52.55 52.52 52.50 52.48 52.49	 	52.25 52.24 52.22 52.20 52.19	52.14 52.14 52.13 52.12 52.12	52.46 52.44 52.42 52.41 52.40	52.25 52.24 52.23 52.22 52.22	51.80 51.79 51.78 51.76 51.74	51.80 51.81 51.83 51.82 51.81	52.18 52.27 52.27 52.26 52.25	52.23 52.23 52.21 52.20 52.20	52.85 52.84 52.84 52.84 52.86
26 27 28 29 30 31	52.85 52.83 52.82 52.82 52.81 52.80	52.53 52.54 52.53 52.52 52.51	 	52.18 52.17 52.17 52.16 52.16 52.20	52.12 52.11 52.11 	52.40 52.38 52.34 52.37 52.51 52.55	52.20 52.16 52.14 52.11 52.08	51.73 51.72 51.70 51.69 51.67 51.66	51.80 51.83 51.86 51.90 51.90	52.23 52.23 52.21 52.20 52.19 52.18	52.20 52.18 52.17 52.16 52.14 52.12	52.85 52.85 52.84 52.89 52.90
MEAN MAX MIN	52.98 53.23 52.80	52.63 52.79 52.48	52.45 52.50 52.42	52.24 52.29 52.16	52.19 52.26 52.11	52.20 52.55 51.97	52.36 52.54 52.08	51.87 52.06 51.66	51.72 51.90 51.55	52.10 52.27 51.86	52.26 52.42 52.12	52.60 52.90 52.10

CAL YR 2000 MEAN 52.72 MAX 53.23 MIN 52.42 WTR YR 2001 MEAN 52.30 MAX 53.23 MIN 51.55

e Estimated

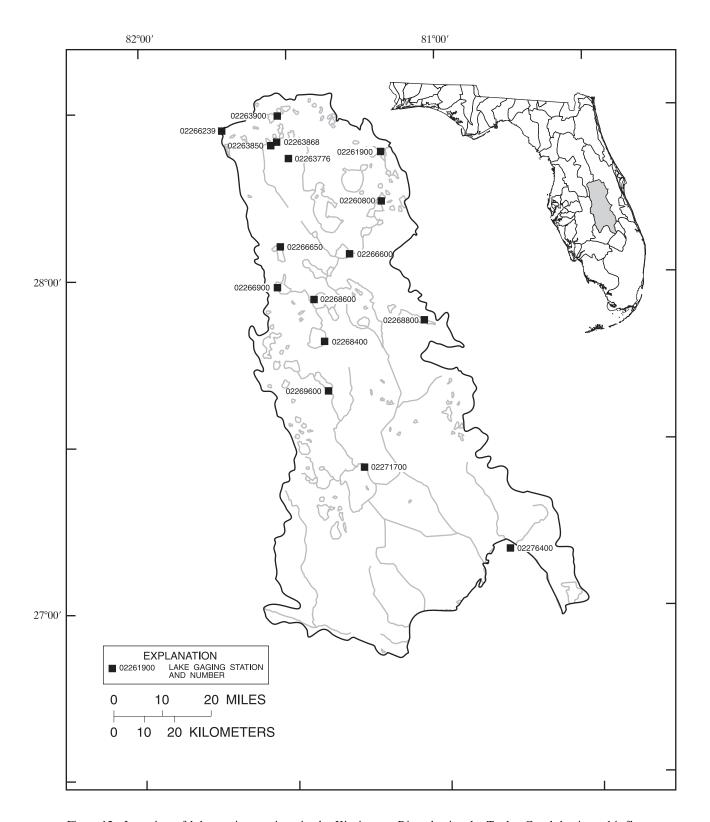


Figure 12.--Location of lake gaging stations in the Kissimmee River basin, the Taylor Creek basin and inflow to Lake Okeechobee from the north, and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

02260800 ALLIGATOR LAKE NEAR ASHTON, FL

LOCATION.--Lat $28^{\circ}13^{\circ}53^{\circ}$, long $81^{\circ}11^{\circ}20^{\circ}$, in SW^{1}_{4} sec.11, T.26 S., R.31 E., Osceola County, Hydrologic Unit 03090101, on northeast shore of lake, at Alligator Lakeside Inn Fish Camp, 0.1 mi south of U.S. Highway 192, and 3.6 mi east of Ashton.

SURFACE AREA.--3,401 acres (5.31 mi^2).

DRAINAGE AREA. -- 26.6 mi².

PERIOD OF RECORD. -- November 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. Prior to Feb. 19, 1975, at several sites at datum 60.74 ft higher. Feb. 19, 1975 to May 5, 1989, at several sites on the north side of lake at present datum. May 6, 1989 to Apr. 24, 1997, nonrecording gage at present site and datum.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Oct. 1, 2000 to Aug. 1, 2001 water level was below the recording gage and the elevations are observer daily staff gage readings. Subsequent to 1962, the improvement of canals and natural drains between these lakes and the construction of dams with gated controls has resulted in the partial regulation of lake elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 66.81 ft, Sept. 25, 1960; minimum observed, 58.31 ft, May 31, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 67.7 ft was reached in June 1934, from information by local resident.

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 2 3 4 5	59.68 59.74 59.78 59.80 59.82	59.52 59.50 59.50 59.48 59.46	59.32 59.32 59.32 59.32 59.32	59.05 59.05 59.06 59.05 59.05	59.00 59.00 59.00 58.98 58.98	58.72 58.70 58.68 58.68 58.68	58.88 58.87 58.86 58.86 58.85	58.59 58.55 58.55 58.53 58.52	 	58.90 	59.66 59.65 59.67 59.70 59.74	60.15 60.14 60.15 60.16 60.18
6 7 8 9 10	59.80 59.76 59.74 59.70 59.70	59.44 59.43 59.41 59.38 59.37	59.32 59.32 59.32 59.32 59.30	59.05 59.05 59.05 59.04 59.04	58.96 58.96 58.96 58.96 58.96	58.68 58.67 58.66 58.67 58.67	58.84 58.83 58.82 58.80 58.80	58.50 58.50 58.49 58.48 58.46	 	 	59.77 59.83 59.88 59.92 59.95	60.24 60.33 60.40 60.47 60.51
11 12 13 14 15	59.70 59.70 59.70 59.70 59.70	59.35 59.35 59.34 59.33 59.34	59.28 59.28 59.25 59.22 59.21	59.04 59.04 59.04 59.04 59.03	58.95 58.94 58.93 58.92 58.92	58.67 58.67 58.66 58.65 58.64	58.79 58.79 58.76 58.75 58.75	58.45 58.45 58.42 58.41 58.40	 	 	59.99 60.03 60.05 60.07 60.06	60.56 60.63 60.67 60.86 60.97
16 17 18 19 20	59.70 59.70 59.70 59.69 59.68	59.33 59.32 59.32 59.31 59.32	59.22 59.20 59.18 59.16 59.15	59.03 59.03 59.03 59.03	58.90 58.89 58.89 58.88 58.87	58.62 58.62 58.60 58.60	58.74 58.73 58.72 58.71 58.70	58.40 58.40 58.38 58.38 58.36	 	 	60.04 60.03 60.03 60.02 60.03	61.03 61.10 61.17 61.24 61.30
21 22 23 24 25	59.68 59.65 59.65 59.64 59.62	59.33 59.33 59.32 59.32 59.32	59.13 59.12 59.12 59.10 59.09	59.03 59.02 59.03 59.03 59.02	58.86 58.84 58.82 58.82 58.80	58.60 58.60 58.60 58.72 58.78	58.70 58.69 58.68 58.67 58.65	58.38 58.38 58.38 58.36 58.35	 	 	60.08 60.13 60.15 60.17	61.36 61.50 61.74 61.83 61.90
26 27 28 29 30 31	59.62 59.60 59.58 59.55 59.54 59.52	59.33 59.32 59.33 59.32 59.32	59.08 59.07 59.07 59.06 59.05	59.02 59.02 59.01 59.01 59.01	58.78 58.76 58.74 	58.82 58.88 58.88 58.90 58.89 58.88	58.64 58.64 58.62 58.60 58.60	58.35 58.34 58.34 58.33 58.32 58.31	 	 	60.17 60.16 60.15 60.14 60.13 60.14	61.92 61.96 62.05 62.13 62.22
MEAN MAX MIN	59.68 59.82 59.52	59.37 59.52 59.31	59.20 59.32 59.05	59.03 59.06 59.01	58.90 59.00 58.74	58.70 58.90 58.60	58.74 58.88 58.60	58.42 58.59 58.31			59.99 60.17 59.65	61.03 62.22 60.14

CAL YR 2000 MEAN 60.08 MAX 64.08 MIN 58.81 WTR YR 2001 MEAN 59.31 MAX 62.22 MIN 58.31

02261900 LAKE MARY JANE NEAR NARCOOSSEE, FL

LOCATION.--Lat $28^{\circ}22^{\circ}46^{\circ}$, long $81^{\circ}11^{\circ}15^{\circ}$, in $SW^{\frac{1}{2}}_{4}$ sec.23, T.24 S., R.31 E., Orange County, Hydrologic Unit 03090101, on west shore of lake, at public park about 1,000 ft south of Mary Jane-Hart Canal, 6.5 mi northeast of Narcoossee, and 11 mi northeast of St. Cloud.

SURFACE AREA.--1,161 acres (1.81 mi^2) .

DRAINAGE AREA. -- 124 mi².

PERIOD OF RECORD. -- November 1949 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 26, 1973, at datum 56.66 ft higher.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Subsequent to 1962, the improvement of canals and natural drains between these lakes and the construction of dams with gated controls has resulted in the partial regulation of lake stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 64.81 ft, Mar. 20, 1960; minimum daily, 56.89 ft, May 31, 1981.

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 2	59.09 59.08	58.75 58.74	58.45 58.45	58.26 58.26	58.15 58.15	57.96 57.95	57.92 57.88	57.40 57.39	57.35 57.31			
3	59.11	58.73	58.44	58.25	58.14	57.94	57.86	57.43	57.30	57.47		
4	59.19	58.71	58.43	58.24	58.13	57.97	57.85	57.43	57.29	57.53		59.20
5	59.19	58.69	58.42	58.23	58.13	58.00	57.84	57.41	57.27	57.57		59.20
6	59.19	58.69	58.40	58.23	58.12	57.94	57.83	57.40	57.25	57.52		59.24
7 8	59.18 59.18	58.69 58.67	58.37 58.37	58.22 58.22	58.12 58.11	57.90 57.87	57.82 57.81	57.38 57.38	57.24	57.47 57.46		59.31 59.44
9	59.18	58.66	58.37	58.22	58.11	57.86	57.81	57.38		57.46		59.44
10	59.13	58.66	58.36	58.22	58.11	57.85	57.79	57.36		57.63		59.72
10	39.10	30.00	30.30	30.22		37.03				37.03		39.72
11	59.08	58.64	58.37	58.21	58.10	57.84	57.76	57.33		57.53		59.77
12	59.06	58.62	58.40	58.22	58.09	57.84	57.75	57.32		57.54		59.88
13	59.04	58.61	58.41	58.21	58.08	57.85	57.74	57.31		57.56		60.00
14	59.03	58.60	58.41	58.21	58.08	57.84	57.73	57.29		57.66		60.30
15	59.02	58.59	58.40	58.21	58.08	57.83	57.71	57.27		57.91		60.61
16	59.01	58.57	58.40	58.20	58.07	57.83	57.69	57.25		57.92		60.71
17	59.01	58.57	58.40	58.20	58.06	57.81	57.66	57.24		57.94		60.76
18	59.00	58.55	58.37	58.20	58.04	57.80	57.61	57.22		57.98		60.71
19	58.99	58.54	58.36	58.20	58.02	57.81	57.57	57.20		58.06		60.61
20	58.96	58.52	58.34	58.23	58.01	57.82	57.55	57.18		58.10		60.51
21	58.95	58.50	58.32	58.22	58.00	57.80	57.53	57.16		58.14		60.41
22	58.93	58.49	58.32	58.21	58.00	57.77	57.52	57.19		58.17		60.39
23	58.89	58.47	58.31	58.21	57.99	57.74	57.50	57.27		58.19		60.46
24	58.85	58.46	58.30	58.19	58.00	57.73	57.49	57.22		58.19		60.38
25	58.84	58.45	58.29	58.18	57.99	57.72	57.48	57.29		58.20		60.34
26	58.83	58.45	58.29	58.16	57.98	57.71	57.50	57.39		58.25		60.26
27	58.82	58.45	58.28	58.16	57.98	57.69	57.47	57.35		58.26		60.18
28	58.80	58.45	58.30	58.15	57.97	57.67	57.44	57.34				60.08
29	58.80	58.45	58.32	58.15		57.76	57.42	57.35				59.99
30	58.78	58.45	58.30	58.15		57.95	57.40	57.34				59.89
31	58.77		58.28	58.15		57.93		57.33				
MEAN	59.00	58.58	58.36	58.21	58.06	57.84	57.66	57.31	57.29	57.83		60.07
MAX	59.19	58.75	58.45	58.26	58.15	58.00	57.92	57.43	57.35	58.26		60.76
MIN	58.77	58.45	58.28	58.15	57.97	57.67	57.40	57.16	57.24	57.46		59.20

CAL YR 2000 MEAN 59.57 MAX 60.92 MIN 58.28 WTR YR 2001 MEAN 58.26 MAX 60.76 MIN 57.16

LOCATION.--Lat $28^{\circ}21^{\circ}46^{\circ}$, long $81^{\circ}29^{\circ}57^{\circ}$, in $SE^{\frac{1}{4}}$ sec.27, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on west shore of lake, 1.1 mi south of intersection of Interstate Highway 4 and State Highway 535, and 2.2 mi south of Vineland.

SURFACE AREA.--210 acres (0.33 mi^2) .

DRAINAGE AREA.--2.70 mi².

PERIOD OF RECORD.--September 1969 to current year (fragmentary).

REVISED RECORDS. -- WDR FL-72-2: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 90.00 ft above sea level (Florida Department of Transportation bench mark). Gage readings have been reduced to elevations above sea level. Prior to June 11, 1997 gage located about 50 ft south at datum 90.00 ft lower.

REMARKS.--Outflow from lake is to Shingle Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 100.33 ft on or about Aug. 11, 1984, from floodmarks; minimum observed, 95.64 ft, May 8, 1981.

ELEVATION, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET) (72020)
OCT		
30	1150	98.34
JAN		
19	1111	97.87
MAR 14	0942	97.55
MAY	0942	91.33
08	0844	97.66
JUL		
03	0843	98.93
AUG		
29	0837	99.41

02263850 BAY LAKE NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}24^{\circ}48^{\circ}$, long $81^{\circ}33^{\circ}28^{\circ}$, in $NW^{\frac{1}{2}}_{4}$ sec.7, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream wingwall of control structure 105A in lateral 105, 200 ft south of natural lake shore line, and 3.5 mi northwest of Vineland.

SURFACE AREA. -- 436 acres (0.68 mi²).

DRAINAGE AREA. -- 14.8 mi².

PERIOD OF RECORD.--February 1967 to September 1969; October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Walt Disney World bench mark). Prior to Feb. 7, 1969, on north shore of lake at datum 90.00 ft higher.

REMARKS.--Outflow from lake is through L-105 to Bonnet Creek since fall of 1968. In the fall of 1968, structure 105A was completed and became the control outlet of the lake. Draining of Bay Lake through S-105A began on Dec. 20, 1968. The headwater elevation at S-105A represented the lake level until Aug. 25, 1969, when a dike was constructed 200 ft upstream from the control structure. The lake elevation was then independent of the headwater elevation at S-105A. The dike was removed in August 1970 as the lake refilled. Since August 1970, lake elevation regulated by pumpage from ground water.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 95.07 ft, Aug. 18, 1967; minimum daily, 92.40 ft, Sept. 9,10, 1999, except when lake was drained in 1970.

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 2 3	93.51 93.48 93.47	93.17 93.16 93.16			93.69 93.69 93.70	93.71 93.70 93.69	93.93 93.91 93.90	93.54 93.53 93.53	93.53 93.57 93.57	93.57 93.55 93.53	94.21 94.25 94.27	94.13 94.19 94.18
4 5	93.49 93.49	93.16 93.16			93.70 93.71	93.71 93.73	93.89 93.89	93.54 93.53	93.60 93.58	93.52 93.54	94.29 94.31	94.16 94.16
6 7	93.48 93.47	93.16 93.17			93.71 93.71	93.70 93.65	93.89 93.88	93.51 93.50	93.57 93.58	93.56 93.55	94.35 94.42	94.18 94.23
8 9 10	93.46 93.41 93.37	93.17 93.17 93.18			93.71 93.71 93.72	93.62 93.61 93.59	93.88 93.87 93.86	93.48 93.47 93.45	93.62 93.61 93.59	93.59 93.77 93.81	94.43 94.41 94.33	94.23 94.25 94.27
11 12	93.34 93.32	93.17 93.17			93.72 93.73	93.58 93.57	93.84 93.83	93.45 93.44	93.57 93.56	93.79 93.80	94.40 94.31	94.31 94.31
13 14	93.30 93.30	93.17 93.17 93.17			93.73 93.73 93.73	93.58 93.59	93.83 93.82 93.81	93.44 93.43 93.41	93.55 93.55 93.57	93.85 93.85	94.26 94.25	94.31 94.34 94.55
15 16	93.28 93.28	93.16 93.16			93.74 93.75	93.59 93.60	93.79 93.77	93.40 93.41	93.62 93.64	93.84 93.82	94.24 94.23	94.61 94.57
17 18	93.26 93.26	93.17 93.16		93.60	93.74 93.72	93.59 93.58	93.75 93.70	93.39 93.38	93.62 93.61	93.86 93.97	94.22 94.24	94.54 94.52
19 20	93.25 93.25	93.16 93.16		93.61 93.63	93.71 93.71	93.61 93.70	93.68 93.66	93.38 93.37	93.64 93.63	94.07 94.06	94.28 94.27	94.51 94.50
21 22 23	93.24 93.24 93.22			93.62 93.60 93.60	93.71 93.71 93.71	93.69 93.66 93.65	93.65 93.63 93.63	93.36 93.36 93.39	93.64 93.66 93.67	94.09 94.15 94.15	94.27 94.26 94.24	94.48 94.50 94.52
24 25	93.21 93.20			93.59 93.59	93.70 93.70	93.64 93.63	93.62 93.62	93.38 93.39	93.66 93.66	94.13 94.12	94.22 94.21	94.56 94.54
26 27	93.20 93.20			93.58 93.58	93.70 93.70	93.62 93.60	93.60 93.59	93.44 93.44	93.64 93.62	94.13 94.13	94.19 94.17	94.52 94.51
28 29	93.19 93.18			93.58 93.58	93.71	93.58 93.67	93.57 93.55	93.46 93.51	93.60 93.59	94.14 94.12	94.15 94.14	94.50 94.47
30 31	93.18 93.17			93.60 93.66		93.90 93.93	93.53	93.51 93.50	93.58	94.11 94.12	94.12 94.11	94.45
MEAN MAX MIN	93.31 93.51 93.17	93.17 93.18 93.16		93.60 93.66 93.58	93.71 93.75 93.69	93.65 93.93 93.57	93.75 93.93 93.53	93.45 93.54 93.36	93.60 93.67 93.53	93.88 94.15 93.52	94.26 94.43 94.11	94.39 94.61 94.13

CAL YR 2000 MEAN 92.84 MAX 93.55 MIN 92.48 WTR YR 2001 MEAN 93.73 MAX 94.61 MIN 93.16

02263868 SOUTH LAKE NEAR VINELAND, FL

LOCATION.--Lat $28^{\circ}24^{\circ}45^{\circ}$, long $81^{\circ}32^{\circ}17^{\circ}$, in SW^{1}_{4} sec.8, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream wingwall of control structure 15 in Canal No. 1, 300 ft south of natural lake shoreline, 1,600 ft west of State Highway 535, and 2.4 mi northwest of Vineland.

SURFACE AREA. -- 128 acres (0.20 mi²).

DRAINAGE AREA.--4.0 mi², approximately.

PERIOD OF RECORD.--April 1969 to current year. Records for South Lake Outlet at S-15, near Vineland (station 02263869).

GAGE.--Water-stage recorder. Datum of gage is at sea level (Walt Disney World bench mark).

REMARKS.--Since January 1969, lake controlled by structure 15. Outflow is to Bonnet Creek through Canal No. 1.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 94.50 ft, Apr. 6, 1987; minimum observed, 88.98 ft, June 27, 2000.

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 2 3 4 5	90.56 90.56 90.55 90.57 90.57	90.26 90.24 90.22 90.20 90.18	89.90 89.89 89.88 89.86 89.85	89.77 89.76 89.74 89.73 89.72	89.64 89.64 89.65 89.65	89.46 89.44 89.43 89.49 89.58	90.19 90.17 90.16 90.15 90.16	89.55 89.52 89.51 89.53 89.50	89.36 89.36 89.36 89.36	89.53 89.50 89.49 89.46 89.48	90.70 90.76 90.82 90.89 90.94	91.20 91.18 91.16 91.14 91.12
6 7 8 9 10	90.57 90.57 90.55 90.52 90.48	90.16 90.15 90.13 90.11 90.10	89.83 89.81 89.80 89.78 89.77	89.71 89.69 89.69 89.70 89.69	89.67 89.67 89.67 89.67	89.57 89.53 89.47 89.43 89.41	90.19 90.18 90.17 90.16 90.15	89.46 89.44 89.42 89.41 89.40	89.36 89.42 89.72 89.73 89.71	89.56 89.54 89.58 89.89 90.06	90.98 91.02 91.09 91.15 91.22	91.14 91.18 91.20 91.25 91.28
11 12 13 14 15	90.46 90.45 90.44 90.43 90.42	90.08 90.06 90.05 90.03 90.02	89.77 89.83 89.86 89.86	89.69 89.68 89.67 89.66 89.66	89.65 89.65 89.64 89.64	89.40 89.39 89.38 89.37	90.12 90.11 90.09 90.07 90.05	89.39 89.39 89.38 89.37 89.37	89.68 89.65 89.61 89.59 89.65	90.06 90.06 90.10 90.15 90.21	91.57 91.64 91.64 91.62 91.59	91.33 91.36 91.39 91.64 91.79
16 17 18 19 20	90.42 90.41 90.40 90.39 90.38	89.99 89.97 89.95 89.93 89.91	89.86 89.88 89.88 89.87	89.65 89.65 89.63 89.62 89.61	89.62 89.61 89.59 89.58 89.57	89.36 89.36 89.35 89.39 89.54	90.02 89.99 89.94 89.90 89.86	89.36 89.36 89.35 89.35	89.74 89.71 89.68 89.70 89.68	90.21 90.28 90.44 90.52 90.53	91.57 91.57 91.53 91.51 91.48	91.79 91.76 91.73 91.69 91.64
21 22 23 24 25	90.37 90.37 90.36 90.34 90.33	89.90 89.88 89.86 89.84 89.83	89.85 89.85 89.83 89.82 89.80	89.61 89.60 89.59 89.58 89.57	89.56 89.55 89.54 89.53 89.51	89.55 89.54 89.52 89.50 89.48	89.82 89.79 89.76 89.73 89.70	89.35 89.35 89.35 89.34 89.35	89.66 89.69 89.70 89.70 89.69	90.55 90.61 90.63 90.63 90.64	91.46 91.44 91.41 91.38 91.35	91.60 91.57 91.58 91.61 91.59
26 27 28 29 30 31	90.33 90.32 90.31 90.30 90.29 90.27	89.86 89.93 89.93 89.92 89.92	89.79 89.78 89.78 89.80 89.80	89.56 89.55 89.54 89.53 89.53	89.49 89.47 89.47 	89.46 89.42 89.38 89.59 90.10 90.16	89.68 89.64 89.61 89.58 89.56	89.39 89.37 89.39 89.45 89.40	89.65 89.62 89.60 89.58 89.55	90.65 90.66 90.66 90.66 90.65 90.65	91.32 91.29 91.27 91.24 91.22 91.20	91.56 91.54 91.51 91.49 91.46
MEAN MAX MIN	90.43 90.57 90.27	90.02 90.26 89.83	89.83 89.90 89.77	89.64 89.77 89.53	89.60 89.67 89.47	89.50 90.16 89.35	89.96 90.19 89.56	89.40 89.55 89.34	89.60 89.74 89.36	90.18 90.66 89.46	91.29 91.64 90.70	91.45 91.79 91.12

CAL YR 2000 MEAN 90.24 MAX 91.38 MIN 88.98 WTR YR 2001 MEAN 90.08 MAX 91.79 MIN 89.34

02263900 LAKE BUTLER AT WINDERMERE, FL

LOCATION.--Lat $28^{\circ}29^{\circ}17^{\circ}$, long $81^{\circ}32^{\circ}01^{\circ}$, in $NW^{1/4}_{4}$ sec.17, T.23 S., R.28 E., Orange County, Hydrologic Unit 03090101, on east shore of lake at Windermere.

SURFACE AREA.--1,665 acres (2.60 mi^2) .

DRAINAGE AREA. -- 14.5 mi².

MIN

96.78

96.50

96.36

96.08

95.97

PERIOD OF RECORD.--January 1933 to October 1941 (weekly); November 1941 to July 1976 (once daily); August 1976 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 90.00 ft above sea level; gage readings have been reduced to elevations above sea level. See WRD FL-99-1A for history of gage locations and datums prior to March 24, 1999.

REMARKS.--Lake is one of the Cypress Creek headwaters chain of lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.78 ft, Sept. 13, 1960; minimum observed, 94.62 ft, July 21,29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 97.29 ft, Oct. 2; minimum observed, 95.50 ft, June 14, July 3.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES DAY OCT VOM DEC JAN FEB MAR APR MAY TITIN JUL ATIG SEP ___ ___ 2 97 29 ---___ 96 24 96.18 96.10 ___ ___ 3 95.50 95.98 ------------------------96.04 ___ ------___ ---___ 96.24 5 ---------6 97.20 96.68 ---------96.18 96.14 96.18 96.10 ------8 ---96.74 95.96 95.79 ---___ 96.48 ---___ ___ ---------------10 96.40 96.16 95.54 95.54 11 97.12 96.66 ___ ___ ___ ___ 96.24 96.78 ------------------12 96.14 ---------13 96.44 ---14 96.62 95 84 ___ 95 50 ___ ___ 97 02 97.02 96.14 15 95.66 97.12 ------16 ------___ ---___ ___ ------17 96.99 ---96.10 95.58 ---96.10 ------96.17 19 ---___ 95.58 ---___ ___ 20 96.97 96.44 95.96 95.58 96.58 21 ___ ___ ___ ___ ___ ---95 60 95 62 ___ ___ 22 ---96.08 ---23 96.90 ---------96.09 95.86 ------96 00 96 34 97 24 24 ---------___ ---25 ---26 96 86 96 53 ---95 98 ___ ___ 95 62 95 54 ___ 27 96.12 ------97.22 28 ------96.36 ---95.97 ---------95.86 ------96.28 29 ---95.80 ---------30 96.78 95.80 ___ 96.50 96.08 31 ---96.18 ---95.58 ---------MAX 97.29 96.74 96.48 96.24 96.18 96.08 96.18 95.79 95.60 95.86 96.34 97.24

95.80

95.80

95.58

95.50

95.50

95.98

96.24

02266239 TROUT LAKE NEAR CLERMONT, FL

LOCATION.--Lat $28^{\circ}27^{\circ}04^{\circ}$, long $81^{\circ}43^{\circ}00^{\circ}$, in SW^{1}_{4} sec.28, T.23 S., R.26 E., Lake County, Hydrologic Unit 03090101, on northwest shore of lake, 7.8 mi southeast of Clermont.

SURFACE AREA.--163 acres (0.25 mi^2) .

DRAINAGE AREA.--1.31 mi².

28

29

30

31

MAX

MIN

89.58

90.08

89.58

89.18

89.48

89.04

88.92

88.92

88.56

88.80

88.52

88.43

88.43

PERIOD OF RECORD. -- March 1970 to current year (weekly).

REVISED RECORDS.--WDR FL-81-1: Drainage area, surface area.

GAGE. -- Nonrecording gage. Datum of gage is at sea level.

REMARKS.--Lake is landlocked except at extremely high stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 98.78 ft, Apr. 9, 1998; minimum observed, 85.98 ft, Dec. 19,26, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

EXTREMES FOR CURRENT YEAR. -- Maximum elevation observed, 90.08 ft, Oct. 10, minimum observed, 86.90 ft, June 14.

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ___ ---2 ---___ ___ ___ ___ ___ ___ ___ ___ ___ 3 ---------------------------87.04 ___ 5 ---------6 ---------------------7 86.98 87.88 8 89.48 ---___ 88.10 88.04 ------87.54 ---87.50 ___ 10 90.08 88.80 88.14 87.30 11 ___ ___ ___ ___ ___ ---------------------------------12 88.43 13 14 ___ ___ ___ ___ ___ ---86.90 ___ ___ 88 24 89.04 15 16 ---88.08 87.92 ---___ ---17 89.98 88.64 87.40 ---87.36 87.68 ---19 ___ ---------___ ___ ___ ---___ ---20 87.69 21 ___ 88.92 ___ ___ ___ ___ ---87.14 ---___ 88 30 22 89.26 ---23 89.70 ---88.04 87.80 ___ 88 52 87.14 87 40 87 84 24 89 78 ---___ ___ ___ 25 26 ___ ___ ___ ___ ___ ---------27 ---------------------

88.30

88.30

88.04

87.64

88.14

87.64

87.06

87.54

87.06

87.18

87.18

86.90

87.48

87.48

87.48

87.30

88.32

88.32

87.69

87.80

87.84

87.50

02266600 CYPRESS LAKE NEAR ST. CLOUD, FL

LOCATION.--Lat $28^{\circ}04^{\circ}29^{\circ}$, long $81^{\circ}18^{\circ}07^{\circ}$, in SW^{1}_{4} sec.2, T.28 S., R.30 E., Osceola County, Hydrologic Unit 03090101, on east shore of lake, near mouth of Canoe Creek, and about 12 mi south of St. Cloud.

SURFACE AREA.--4,085 acres (6.38 mi^2).

DRAINAGE AREA.--1,162 mi^2 , combined drainage area of Cypress Lake and Lake Hatchineha.

PERIOD OF RECORD. -- January 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Prior to June 6, 1950, at site on northwest shore at datum 48.78 ft higher and June 6, 1950 to Dec. 13, 1973, at site 2.3 mi southwest at datum 48.78 ft higher. Dec. 13, 1973 to June 21, 1979, at site 2.3 mi southwest at present datum.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Stage is affected by operation of control structures upstream and downstream. Flow into Short Canal begins at about elevation 53.2 ft. Overflow over the south shore begins at a slightly higher stage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 57.18 ft, Sept. 26, 1960; minimum daily, 47.60 ft, June 4, 1971.

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 2	49.75 49.73	49.43 49.43	49.18 49.21	49.01 49.01	49.03 48.98	48.83 48.82	48.95 48.84	48.65 48.65		48.87 48.85	50.88 51.01	50.91 50.88
3	49.75	49.43	49.19	48.98	48.90	48.86	48.82	48.67		48.82	51.13	50.85
4	49.89	49.42	49.06	49.01	48.94	48.91	48.85	48.68		48.81	51.30	50.84
5	49.84	49.43	49.03	49.03	48.95	49.04	48.80	48.69		48.85	51.43	50.82
6	49.84	49.42	49.09	49.05	48.96	48.91	48.79	48.70		48.93	51.47	50.83
7 8	49.81 49.77	49.44 49.44	49.10 49.13	49.04 49.09	48.95 48.93	48.76 48.67	48.80 48.81			48.92 48.93	51.49 51.48	50.95 51.11
9	49.77	49.44	49.15	49.10	48.95	48.68	48.81			49.06	51.40	51.11
10	49.53	49.46	49.16	48.95	48.98	48.68	48.79			49.14	51.42	51.51
10	15.55	15.10	13.10	10.55	10.50	10.00	10.75			17.11	51.12	31.31
11	49.58	49.37	49.18	48.98	48.95	48.67	48.78			49.14	51.34	51.67
12	49.58	49.33	49.24	49.07	48.92	48.68	48.79		48.79	49.17	51.32	51.79
13	49.59	49.35	49.21	49.01	48.90	48.80	48.80		48.77	49.21	51.30	51.97
14	49.59	49.40	49.24	48.97	48.93	48.75	48.78		48.76	49.18	51.23	52.29
15	49.59	49.32	49.23	49.00	48.96	48.74	48.77		48.73	49.27	51.22	52.66
16	49.61	49.30	49.25	49.00	48.98	48.78	48.75		48.75	49.52	51.16	52.59
17	49.61	49.36	49.34	49.01	49.03	48.73	48.70		48.77	49.78	51.14	52.57
18	49.60	49.28	49.19	49.03	48.84	48.61	48.58		48.79	49.99	51.14	52.55
19	49.58	49.32	49.20	49.07	48.75	48.57	48.49		48.78	50.14	51.13	52.54
20	49.56	49.25	49.14	49.18	48.83	48.70	48.48		48.77	50.37	51.11	52.56
21	49.53	49.19	49.09	49.02	48.88	48.74	48.48		48.80	50.46	51.15	52.56
22	49.51	49.12	49.10	48.97	48.89	48.68	48.45		48.90	50.55	51.13	52.64
23	49.46	49.16	49.03	48.99	48.84	48.59	48.45		48.90	50.64	51.10	52.73
24	49.43	49.18	49.00	48.96	48.78	48.55	48.50		48.88	50.68	51.09	52.83
25	49.44	49.26	48.93	48.99	48.85	48.58	48.60		48.89	50.69	51.08	52.91
26	49.45	49.28	48.95	48.95	48.88	48.56	48.63		48.88	50.74	51.02	52.90
27	49.46	49.26	49.05	49.00	48.83	48.50	48.62		48.87	50.77	51.00	52.86
28	49.48	49.22	49.18	48.99	48.86	48.42	48.64		48.87	50.79	50.99	52.80
29	49.49	49.20	49.17	49.00		48.49	48.62		48.87	50.82	50.96	52.77
30	49.47	49.19	49.13	49.08		48.82	48.64		48.87	50.85	50.94	52.72
31	49.43		49.02	49.08		48.90				50.87	50.92	
MEAN	49.60	49.32	49.13	49.02	48.91	48.71	48.69	48.67	48.82	49.77	51.18	52.03
MAX	49.89	49.46	49.34	49.18	49.03	49.04	48.95	48.70	48.90	50.87	51.49	52.91
MIN	49.43	49.12	48.93	48.95	48.75	48.42	48.45	48.65	48.73	48.81	50.88	50.82

CAL YR 2000 MEAN 49.88 MAX 52.54 MIN 48.53 WTR YR 2001 MEAN 49.58 MAX 52.91 MIN 48.42

02266650 LAKE MARION NEAR HAINES CITY, FL

LOCATION.--Lat $28^{\circ}05^{\circ}56^{\circ}$, long $81^{\circ}31^{\circ}51^{\circ}$, in $SE^{1}/_{4}$ sec.29, T.27 S., R.28 E., Polk County, Hydrologic Unit 03090101, on northeast shore of lake, 4.5 mi east of Haines City.

SURFACE AREA. -2,968 acres (4.64 mi^2) .

DRAINAGE AREA. -- 35.7 mi².

MAX

MIN

66.16

65.70

65.70

65.48

65.50

65.36

65.40

65.36

65.40

65.30

PERIOD OF RECORD. -- February to August 1958 (weekly); September 1958 to current year (once daily).

GAGE.--Nonrecording gage. Datum of gage is at sea level (South Florida Water Management District bench mark). July 21, 1959 to Sept. 8, 1963, at site 500 ft north and Sept. 9, 1963 to Jan. 29, 1974, at present site, at datum 63.22 ft higher.

REMARKS.--Lake is in the headwaters of Kissimmee River. Outflow from lake is through Lake Marion Creek to Lake Hatchineha.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 67.52 ft, Sept. 12, 15, 1960; minimum observed, 64.45 ft, June 21, 2000.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL ATIG SEP 66.16 65.48 65.30 65.30 64.86 65.04 65.70 65.36 65.36 65.06 2 66.10 65.70 65.48 65.36 65.35 65 30 65.36 65.06 64 86 65.04 65.46 ___ 65.06 65.70 65.36 65.35 65.26 65.36 65.04 3 66.10 65.48 64.90 66.00 ---66.10 65.64 65.36 65.26 65.36 65.02 5 66 06 65.64 65.48 65.36 65 36 65 26 65 40 65.02 64.90 65.10 66 10 ___ 65.64 6 66.06 65.50 65.36 65.36 65.26 65.40 65.00 64.90 65.10 66.14 ---7 66.00 65.64 65.50 65.36 65.36 65.26 65.40 65.00 64.90 65.10 66.20 65.36 65.40 8 66.00 65.64 65.50 65.36 65.26 65.00 64.90 65.10 66.26 66.00 65.60 65.50 65.40 65.36 65.26 65.40 65.00 64.90 66.26 ---10 65.96 65.60 65.48 65.40 65.36 65.20 65.40 65.00 64.90 65.20 66.26 11 65 96 65.56 65.48 65 40 65.36 65.20 65.40 65 00 64 90 65.20 66 20 ---12 65.90 65.56 65.48 65.40 65.36 65.20 65.36 64.96 64.96 65.20 66.20 65.90 65.40 65.36 13 65.56 65.48 65.36 65.20 64.96 64.96 65.20 66.20 14 65.90 65.56 65.48 65.40 65.36 65.20 65.30 64.96 64 96 65.26 66.16 ___ ---15 65.90 65.52 65.48 65.40 65.40 65.20 65.30 64.96 65.00 65.30 66.16 16 65 90 65 50 65 48 65 40 65 40 65 20 65 30 64 92 65 00 65 34 66 16 ___ ---17 65.86 65.50 65.44 65.40 65.20 65.22 64.92 65.00 65.34 65.40 66.16 65.40 65.40 65.40 18 65.86 65.44 65.20 65.22 64.92 65.04 66.16 19 65 82 65.50 65.44 65.40 65.36 65 20 65 20 64.92 65 04 65.40 66 16 ___ 20 65.80 65.20 65.20 65.50 65.40 65.40 64.90 65.04 65.40 65.36 66.16 21 65 74 65 50 65 40 65 40 65 36 65 16 65 16 64 90 65 04 65 40 66 16 ___ 22 65.74 65.10 65.50 65.40 65.40 65.32 65.16 64.90 65.04 65.40 66.16 65.74 65.74 23 65.50 65.40 65.36 65.32 65.16 65.10 64.90 65.08 66.10 24 65.50 65 40 65.36 65.32 65 16 65.10 64 90 65 08 65 40 66 10 ___ 65.74 25 65.48 65.40 65.36 65.30 65.16 65.10 64.90 65.04 65.40 66.00 26 65 70 65.48 65 30 65 16 65 10 65 04 65 46 65 40 65 36 64 86 66 00 ___ 27 65.70 65.10 65.48 65.36 65.36 65.30 65.14 64.86 65.04 65.46 66.00 28 65.70 65.48 65.36 65.36 65.30 65.12 65.06 64.86 65.04 65.46 66.00 ---65.70 65.70 65.48 65.48 65.36 65.36 65.46 65.46 29 65 36 65 12 65 06 64 86 65 04 66.00 ___ 30 65.36 65.20 65.96 65.06 64.86 65.04 31 65.70 65.36 65.36 65.30 64.86 65.46 65.96 ---MEAN 65.88 65.44 65.38 65.35 65.21 65.25 64.95 64.98 65.28 66.07 65.55

65.30

65.12

65.40

65.06

65.06

64.86

65.08

64.86

65.46

65.04

66.26

65.46

02266900 LAKE PIERCE NEAR WAVERLY, FL

LOCATION.--Lat $27^{\circ}58^{\circ}37^{\circ}$, long $81^{\circ}32^{\circ}33^{\circ}$, in $NN^{1/4}_{4}$ sec.8, T.29 S., R.28 E., Polk County, Hydrologic Unit 03090101, on west shore of lake, at public boat landing, 4.5 mi east of Waverly, and 5.5 mi northeast of town of Lake Wales.

SURFACE AREA.--3,736 acres (5.84 mi^2).

DRAINAGE AREA. -- 58.9 mi².

PERIOD OF RECORD.--December 1947 to September 1971; October 1971 to current year (fragmentary). Prior to August 1959, records also for Catfish Creek near Lake Wales (station 02267000).

GAGE.--Nonrecording gage. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Prior to Aug. 20, 1959, water-stage recorder on left bank of Catfish Creek 0.2 mi downstream from lake. Aug. 20, 1959, to Sept. 30, 1971, water-stage recorder, and Oct. 1, 1971, to July 13, 1981, nonrecording gage at present site at datum 72.13 ft higher.

REMARKS.--Outflow from lake is through Catfish Creek to Lake Hatchineha, one of the Kissimmee River headwater lakes. The observed reading made on March 26, 1998 has been changed to 77.90 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 78.91 ft Sept. 17,18, 1960; minimum observed, 74.60 ft, June 22, 2000.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET) (72020)
OCT		
24 DEC	1235	75.87
04	1208	75.65
JAN		
31	1105	75.50
APR 05	1310	75.47
MAY		
31	1545	74.82
AUG 03	1250	76.09
SEP		
25	1251	77.79

02268400 LAKE WEOHYAKAPKA AT INDIAN LAKE ESTATES, FL

LOCATION.--Lat $27^{\circ}48^{\circ}50^{\circ}$, long $81^{\circ}23^{\circ}16^{\circ}$, in $NE_{4}^{1/2}$ sec.2, T.31 S., R.29 E., Polk County, Hydrologic Unit 03090101, on east shore of lake, on end of public pier at Indian Lake Estates, and 8.5 mi east of Babson Park.

SURFACE AREA.--7,555 acres (11.8 mi^2).

DRAINAGE AREA.--93.5 mi².

PERIOD OF RECORD.--February 1958 to September 1960 (weekly); October 1960 to September 1961 (fragmentary); October 1961 to current year (weekly).

GAGE.--Nonrecording gage. Prior to May 30, 2000, South Florida Water Management District bench mark, May 30, 2000 to present datum of gage is at sea level (Marion Engineer Associates, Inc. bench mark).

REMARKS.--Lake is at the headwater of Weohyakapka Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 63.43 ft on or about Sept. 30, 1960, from floodmark; minimum observed, 58.90 ft, July 4, 25, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 62.16 ft, Sept. 25; minimum observed, 59.86 ft, May 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				60.45								
2	61.19						60.02			60.56		
3			60.58						60.02		61.10	
4 5					60.35	60.14	60.38		00.02			
5					00.33	00.14	00.30					
6		60.81										
7								60.08				
8				60.42								
9	61.11						60.44			60.70		
10												
11			60.50						60.22			
12					60.33	60.20						
13		60.73										
14								59.96				
15				60.38								
16	61.01						60.40			60.86		
17												
18			60.47						60.34			
19					60.28	60.14						
20		60.67										
21								59.90				
22				60.40								
23							60.36			61.00		
24	60.88											
25			60.44						60.40			62.16
26					60.22	60.08						
27		60.63										
28	60.93							59.86				
29				60.42								
30	60.87						60.28			61.08		
31				60.42				59.88				
MAX	61.19	60.81	60.58	60.45	60.35	60.20	60.44	60.08	60.40	61.08	61.10	62.16
MIN	60.87	60.63	60.44	60.38	60.22	60.08	60.02	59.86	60.02	60.56	61.10	62.16
1.17.14	00.07	00.03	00.11	00.50	00.22	00.00	00.02	32.00	00.02	00.50	01.10	02.10

02268600 LAKE ROSALIE NEAR LAKE WALES, FL

LOCATION.--Lat $27^{\circ}56^{\circ}23^{\circ}$, long $81^{\circ}25^{\circ}14^{\circ}$, in $SE_{4}^{1/2}$ sec.21, T.29 S., R.29 E., Polk County, Hydrologic Unit 03090101, on west side of lake, in boat basin at Monroe Trailer Park, 10.5 mi northeast of town of Lake Wales.

SURFACE AREA.--4,592 acres (7.18 mi^2) .

DRAINAGE AREA. -- 133 mi².

PERIOD OF RECORD.--December 1941 to February 1942 (weekly); March to July 1942; August 1942 to August 1943 (fragmentary); March 1958 to April 1967 (weekly); May 1967 to current year (once daily).

GAGE.--Nonrecording gage. Datum of gage is at sea level (U.S. Army Corps of Engineers bench mark). Prior to Mar. 5, 1942, nonrecording gage at site 1.3 mi northeast at datum 53.19 ft higher. Mar. 5, 1942, to July 27, 1942, and Mar. 20, 1958, to Sept. 19, 1974, recording or nonrecording gages at several sites within 1.5 mi at datum 49.41 ft higher, and Sept. 19, 1974, to Oct. 17, 1979, nonrecording gage at site 400 ft west at present datum.

REMARKS.--Outflow from lake is through diversion canal to Lake Kissimmee, the most downstream of the Kissimmee River headwaters chain of lakes and also through Rosalie Creek to Tiger Lake, thence through Tiger Creek to Lake Kissimmee.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 55.93 ft, Oct. 3, 1960; minimum observed, 50.30 ft, June 2-4, 1967.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN	JUL AUG	SEP
1 51.93 51.65 51.47 51.36 51.31 51.17 51.21 51.00 50	0.73 50.96	51.38
).71 50.95	51.39
	0.69 51.20	51.37
	0.68 51.18	51.38
	0.66 51.22	51.36
5 51.97 51.02 51.45 51.29 51.20 51.10 51.20 50	0.00 51.22	31.30
).77 51.25	51.35
).76 51.32	51.42
8 51.96 51.64 51.42 51.32 51.32 51.10 51.31 50).74 51.32	51.79
9 51.90 51.65 51.42 51.30 51.32 51.10 51.29 50).84 51.33	51.89
10 51.86 51.63 51.43 51.30 51.30 51.08 51.28 50).85 51.34	51.99
11 51.86 51.62 51.44 51.31 51.30 51.08 51.25 50).85 51.33	52.00
12 51.87 51.59 51.46 51.30 51.30 51.08 50).84 51.32	52.00
13 51.86 51.59 51.49 51.30 51.30 51.06 50).83 51.32	52.51
14 51.83 51.57 51.48 51.31 51.28 51.04 50	0.83 51.30	52.55
	0.88 51.29	52.58
16 51.78 51.56 51.47 51.32 51.28 50).88 51.28	52.58
).88 51.28	52.56
	0.90 51.26	52.72
	0.92 51.26	52.74
	0.91 51.25	52.79
20 31.70 31.31 31.43 31.22	7.71 31.23	32.13
21 51.79 51.48 51.30 51.22 50).90 51.36	52.85
22 51.77 51.47 51.40 51.30 51.21 50.76 50).98 51.49	52.90
23 51.76 51.48 51.44 51.28 51.20 51.18 50.74 51	1.00 51.49	52.99
).98 51.48	53.14
).98 51.48	53.20
26 51.75 51.48 51.30 51.21 50.76 50).96 51.46	53.27
27 51.72 51.50 51.30 51.20 50.75 50	0.96 51.44	
28 51.70 51.50 51.29 51.18 50.74 50).99 51.43	
29 51.69 51.59 51.37 51.30 50.74 50).97 51.42	
).97 51.41	
	0.96 51.39	
51.50 51.50 51.50	,.,0 51.55	
MEAN 51.83 51.57 51.44 51.31 51.26 51.11 51.23 50.90 50.74 50	0.86 51.32	52.26
	1.00 51.49	53.27
	0.66 50.95	51.35

02268800 LAKE MARIAN NEAR KENANSVILLE, FL

LOCATION.--Lat $27^{\circ}52^{\circ}22^{\circ}$, long $81^{\circ}03^{\circ}08^{\circ}$, in NE_{4}^{1} sec.18, T.30 S., R.33 E., Osceola County, Hydrologic Unit 03090101, on northeast shore of lake in canal at county boat ramp, 4.5 mi west of Kenansville.

SURFACE AREA.--5,727 acres $(8.95 \ \mathrm{mi}^2)$.

DRAINAGE AREA.--49.6 mi².

PERIOD OF RECORD. -- February 1958 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is at sea level (South Florida Water Management District bench mark). Prior to Nov. 16, 1972, at present site and other nearby sites at datum 57.02 ft higher. Nov. 16, 1972, to Oct. 28, 1980, at site 0.6 mi southeast at present datum.

REMARKS.--Lake is in the headwaters of the Kissimmee River. Outflow is through a canal to Lake Jackson, thence through Jackson Canal to Lake Kissimmee. During high water there is flow through Fodderstack Slough to Jackson Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 61.63 ft, Sept. 27, 1960; minimum observed, 55.86 ft, May 18,25, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 60.14 ft, Sept. 28; minimum observed, 55.86 ft, May 18,25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			57.00						56.01			
2					56.64	56.38						
3		57.28					56.37			55.99	57.16	
4								56.06				
5				56.70								58.50
6	57.76						56.34			56.08		
7						56.39						58.46
8			56.90					55.98	56.08			
9					56.58	56.26						
10		57.28									58.02	
11								56.00				
12				56.71								
13	57.74						56.30			56.40		
14												
15		57.15	56.90						56.00			59.62
16					56.56	56.20						
17		57.16									58.18	
18								55.86				
19				56.64					56.00			
20	57.74						56.00			56.66		
21												59.90
22			56.88						56.18			
23						56.14	56.03					
24		57.16			56.46						58.44	
25								55.86				
26				56.64								
27					56.45		56.00			56.86		
28												60.14
29			56.88						56.06			
30						56.30						
31											58.38	
MAX	57.76	57.28	57.00	56.71	56.64	56.39	56.37	56.06	56.18	56.86	58.44	60.14
MIN	57.74	57.15	56.88	56.64	56.45	56.14	56.00	55.86	56.00	55.99	57.16	58.46

02269600 LAKE ARBUCKLE NEAR AVON PARK, FL

LOCATION.--Lat $27^{\circ}39^{\circ}55^{\circ}$, long $81^{\circ}22^{\circ}38^{\circ}$, in SW_{4}^{V} sec. 25, T.32 S., R.29 E., Polk County, Hydrologic Unit 03090101, on U.S. Air Force recreation pier on south shore of lake, 9.5 mi northeast of Avon Park.

SURFACE AREA. -3,787 acres (5.92 mi^2) .

DRAINAGE AREA. -- 170 mi².

29

30

31

MEAN

MAY

MIN

52.48

52.48

52.46

52.71

52 92

52.46

PERIOD OF RECORD. -- December 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level. June 27, 1945, to Nov. 15, 1950, May 9, 1956, to June 15, 1962, and May 11, 1967, to Dec. 11, 1975, nonrecording gage at site 500 ft northwest near head of Arbuckle Creek at datum 51.53 ft higher.

REMARKS.--Lake is the most downstream of the Arbuckle Creek headwater lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 58.3 ft, Sept. 24, 1948, from floodmark; minimum daily, 51.15 ft, June 10, 1985

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 58.7 ft, was reached in 1926 and 1928, from information by local residents.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAILY MEAN VALUES

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL ATIG SEP 52.91 52.44 52.16 52.06 51.97 51.78 52.08 51.68 51.64 52.12 53.70 53.84 2 52.88 52.42 52 16 52 06 51.98 51 76 52 02 51.67 51.65 52 12 53.75 53 81 52.42 52.89 52.18 51.98 51.99 51.70 51.75 3 52.05 51.74 51.66 52.19 53.87 53.78 52.92 52.40 52.17 52.06 51.97 51.75 52 01 51.65 52.42 53.98 53.74 5 52.92 52.39 52.14 52.03 51.96 51.86 52.01 51.74 51.63 52.52 54.14 53.74 6 52 91 52 12 52 02 51.93 51.84 52 02 51.64 52 55 54 25 53 76 7 52.90 52.35 52.11 52.01 51.93 51.77 52.01 51.70 51.68 52.58 54.31 53.84 8 52.89 52.33 52.10 52.01 51.91 51.72 52.01 51.68 51.80 52.58 54.33 53.93 52 89 52.33 52 10 52 09 51.91 51.70 52.00 51.65 51.88 52 61 54.33 54.12 10 52.81 52.34 52.09 52.02 51.91 51.70 51.99 51.63 51.90 52.69 54.34 54.40 11 52 79 52 33 52 10 52 00 51 91 51 70 51 97 51 62 51 89 52 82 54 49 54 54 12 52.76 51.96 52.30 52.14 52.00 51.91 51.88 52.89 51.66 51.60 54.55 54.62 52.75 52.28 52.13 52.01 51.90 51.97 51.60 52.98 13 51.68 51.88 54.56 54.70 14 52 73 52.28 52 13 52 00 51 89 51.70 51 97 51.58 51 88 53 05 54 55 54 98 52.71 52.12 15 52.29 51.99 51.89 51.67 51.96 51.56 51.87 53.12 54.53 55.36 16 52 69 52 25 52 11 51 99 51 88 51 68 51 95 51 56 51 88 53 15 54 49 55 49 17 52.67 52.25 52.15 51.99 51.89 51.69 51.94 51.55 51.89 53.21 54.46 55.55 51.98 51.90 18 52.66 52.26 52.13 51.88 51.70 51.97 54.42 19 52 64 52 24 52 13 51 96 51.83 51 66 51 83 51.50 52 01 53 50 54.38 55 57 20 52.63 52.27 52.12 52.04 51.82 51.80 52.02 53.56 54.34 51.69 51.49 55.56 21 52 62 52 26 52 08 52 02 51 82 51 69 51 79 51 45 52 03 53 60 54 30 55 53 22 51.77 52.61 52.20 52.08 52.03 51.82 51.68 51.46 52.05 53.65 54.26 55.55 51.82 23 52.60 52.19 52.08 52.05 51.64 51.76 51.60 52.07 53.68 54.22 55.70 51.78 51.78 51.76 24 52.58 52 15 52 10 51.99 51 63 51.61 52 08 53.75 54 19 55 80 52.55 51.76 53.78 25 52.16 52.08 52.01 51.63 52.08 55.88 26 52 54 52 19 52 05 51 98 51 80 51 62 51 78 52 08 53 79 54 11 55 91 51 58 27 52.52 51.97 51.72 53.81 52.21 52.03 51.79 51.62 51.54 52.09 54.05 55.95 28 52.49 52.19 52.07 51.96 51.80 51.57 51.69 51.55 52.11 53.80 54.01 55.99

51.60

51.95

52.04

51.71

52.04

51.57

51.67

51.67

51.89

52.08

51.67

51.57

51.58

51.58

51.60

51.75

51.45

52.11

51.90

52.13

51.63

53.79 53.76

53.74

53.13

53.81

52.12

53.97

53.92

53.88

54.22

54.56

53.70

56.04

54.98

56.06

53.74

51.88

51.98

51.78

CAL YR 2000 MEAN 52.52 MAX 53.93 MIN 51.35 WTR YR 2001 MEAN 52.54 MAX 56.06 MIN 51.45

52.12

52.13

52.09

52.11

52.18

52.03

51.94

51.95

51.96

52.01

52.09

51.94

52.18

52.28

52.44

52.15

KISSIMMEE RIVER BASIN 379

02271700 LAKE ISTOKPOGA NEAR DE SOTO CITY, FL

LOCATION.--Lat $27^{\circ}26^{\circ}27^{\circ}$, long $81^{\circ}15^{\circ}42^{\circ}$, in $NE^{\frac{1}{4}}_{4}$ sec.18, T.35 S., R.31 E., Highlands County, Hydrologic Unit 03090101, in canal on northeast corner of lake, at Palm Estates Retirement Community, 0.6 mi southwest of town of Lorida, and 9.1 mi east of De Soto City.

SURFACE AREA. -- 27,500 acres (43.0 mi²).

DRAINAGE AREA. -- 607 mi².

PERIOD OF RECORD.--August 1936 to current year. July 1965 to September 1989, records for Canal 41A at S-68 at Lake Istokpoga, near Lake Placid (station 02273200).

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by South Florida Water Management District). Prior to May 19, 1937, nonrecording gage at datum 40.54 ft higher and May 19, 1937, to Aug. 17, 1942, at datum 38.54 ft higher, at site on northwest shore of lake 4.0 mi southwest of mouth of Arbuckle Creek. Aug. 20, 1942, to July 6, 1965, water-stage recorder near mouth of Arbuckle Creek at datum 34.07 ft higher. July 7, 1965, to Nov. 27, 1973, water-stage recorder at site 7.5 mi south at datum 30.00 ft higher. Nov. 28, 1973, to Mar. 27, 1990, at present datum at site 7.5 mi south.

REMARKS.--Lake controlled by dam with removable stoplogs in Istokpoga Canal from June 1949 to July 1962. Since July 21, 1962, lake controlled by operation of structure 68 on Canal 41A on southeast shore of lake. Dam on Istokpoga Canal is still in place. Flow occurs at times in this canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 42.9 ft, estimated, Sept. 17, 1945; minimum daily, 35.40 ft, May 30, 1962.

		E	LEVATION	(FEET NGV		YEAR OCT Y MEAN VA	OBER 2000 LUES	TO SEPTE	MBER 2001			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	38.16 38.15 38.21 38.38 38.35	38.10 38.10 38.09 38.09 38.10	37.82 37.83 37.75 37.66 37.70	37.60 37.55 37.55 37.55 37.61	37.50 37.46 37.36 37.43 37.43	36.50 36.49 36.55 36.58 36.43	36.42 36.37 36.47 36.44 36.35	 	 36.09	36.31 36.28 36.26 36.34 36.41	38.31 38.29 38.32 38.26 38.34	38.46 38.45 38.46 38.44 38.44
6 7 8 9 10	38.36 38.36 38.31 38.04 38.21	38.11 38.11 38.11 38.10 38.09	37.74 37.71 37.75 37.75 37.76	37.61 37.60 37.67 37.50 37.45	37.46 37.40 37.30 37.29 37.24	36.33 36.30 36.33 36.41 36.35	36.38 36.40 36.41 36.43 36.41		36.04 36.03 36.03 36.03 36.01	36.43 36.44 36.49 36.56 36.63	38.37 38.42 38.45 38.41 38.35	38.53 38.71 38.96 39.17 39.22
11 12 13 14 15	38.22 38.21 38.24 38.24 38.24	38.00 37.99 38.02 38.05 37.93	37.79 37.79 37.80 37.78 37.76	37.57 37.60 37.51 37.55 37.56	37.18 37.14 37.09 37.07 37.03	36.34 36.41 36.57 36.32 36.45	36.40 36.41 36.37 36.31 36.32	 	36.04 36.05 36.02 35.98 35.96	36.71 36.77 36.85 36.83 36.75	38.31 38.34 38.37 38.40 38.41	39.14 39.10 39.07 39.55 39.36
16 17 18 19 20	38.26 38.27 38.26 38.26 38.24	37.96 38.00 37.91 38.01 37.83	37.81 37.77 37.69 37.70 37.62	37.56 37.57 37.59 37.65 37.56	37.03 36.96 36.71 36.76 36.80	36.44 36.30 36.24 36.26 36.41	36.27 36.24 36.21 	 	36.01 36.00 35.95 35.88 35.97	36.93 37.15 37.25 37.32 37.40	38.42 38.43 38.44 38.45 38.50	39.38 39.43 39.45 39.47 39.39
21 22 23 24 25	38.21 38.16 38.12 38.10 38.13	37.78 37.81 37.83 37.88 37.90	37.63 37.61 37.55 37.49 37.44	37.45 37.45 37.46 37.53 37.48	36.76 36.73 36.65 36.67 36.67	36.33 36.24 36.24 36.24 36.26	 	 	36.08 36.10 36.12 36.12 36.13	37.58 37.78 37.98 37.93 38.00	38.55 38.57 38.55 38.53 38.50	39.31 39.18 39.07 39.00 39.05
26 27 28 29 30 31	38.14 38.15 38.16 38.17 38.14 38.11	37.88 37.85 37.85 37.82 37.80	37.56 37.64 37.72 37.63 37.57 37.56	37.49 37.51 37.52 37.55 37.57 37.54	36.62 36.56 36.57 	36.23 36.22 36.22 36.29 36.46 36.53	 	 	36.14 36.17 36.25 36.28 36.31	38.08 38.16 38.22 38.29 38.35 38.34	38.44 38.41 38.42 38.42 38.43 38.47	39.10 39.18 39.17 39.09 39.04
MEAN MAX MIN	38.21 38.38 38.04	37.97 38.11 37.78	37.69 37.83 37.44	37.55 37.67 37.45	37.03 37.50 36.56	36.36 36.58 36.22	36.37 36.47 36.21		36.07 36.31 35.88	37.19 38.35 36.26	38.42 38.57 38.26	39.05 39.55 38.44

CAL YR 2000 MEAN 38.27 MAX 39.45 MIN 37.43 WTR YR 2001 MEAN 37.51 MAX 39.55 MIN 35.88

380 LAKE OKEECHOBEE

02276400 LAKE OKEECHOBEE, FL

LOCATION.--Center of lake, lat 26°57', long 80°50', in southern Florida, Hydrologic Unit 03090201.

SURFACE AREA.--436,000 acres (681 mi^2) at elevation 14 ft above sea level, from data provided by U.S. Army Corps of Engineers.

DRAINAGE AREA. -- About 5,650 mi².

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WRD FL 1969: Surface area. WDR FL-77-1: capacity table.

GAGE.--Four water-stage recorders at various locations around the lake. From Oct. 1, 2000 to Mar. 14, 2001, ten water-stage recorders at various locations around the rim of the lake. Datum of gages is at sea level (levels by U.S. Army Corps of Engineers). See WDR FL-00-1A for history of changes prior to Oct. 1, 2000.

REMARKS.--Lake is diked to form a reservoir and is regulated by control structure gates at several outlets. It is used for navigation, municipal water supply, irrigation, and flood control. Total usable capacity is 2,860,000 acre-ft between elevations 10.5 and 17.5 ft. Daily elevations are an average of the gage readings from around the lake.

COOPERATION.--Records of elevations and capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 18.77 ft, Nov. 2, 1947; minimum daily, 8.97 ft, May 23, 2001.

Capacity table, (elevation, in feet, and capacity, in acre-feet)

10.0	2,040,000	15.0	3,950,000
11.0	2,370,000	16.0	4,380,000
12.0	2,720,000	17.0	4,830,000
13.0	3,110,000	18.0	5,290,000
14 0	3.530.000		

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 2 3 4 5	12.11 12.07 12.06 12.17 12.25	12.05 12.03 12.01 12.00 11.96	11.60 11.58 11.63 11.63 11.59	11.11 11.13 11.12 11.10 11.02	10.88 10.91 10.97 10.89 10.88	10.53 10.52 10.47 10.47 10.63	10.22 10.22 10.25 10.22 10.20	9.47 9.47 9.49 9.52 9.50	9.01 9.08 9.07 9.03 9.09	9.26 9.25 9.23 9.20 9.20	10.61 10.77 10.88 10.96 11.09	11.96 11.99 11.97 11.98 11.98
6 7 8 9 10	12.29 12.35 12.38 12.50 12.32	11.96 11.95 11.94 11.90 11.87	11.55 11.49 11.45 11.45 11.44	10.99 10.98 10.96 11.04 11.07	10.85 10.82 10.84 10.80	10.59 10.55 10.47 10.40 10.42	10.20 10.18 10.16 10.15 10.13	9.48 9.45 9.41 9.40 9.36	9.09 9.12 9.05 9.05 9.07	9.20 9.22 9.20 9.21 9.23	11.16 11.23 11.30 11.36 11.42	11.98 12.02 12.13 12.22 12.34
11 12 13 14 15	12.30 12.30 12.27 12.25 12.25	11.89 11.86 11.82 11.77 11.84	11.42 11.42 11.42 11.42 11.42	10.97 10.94 10.99 10.97	10.81 10.79 10.80 10.77 10.76	10.41 10.36 10.31 10.21 10.24	10.07 10.06 10.02 9.98 9.97	9.34 9.30 9.26 9.24 9.23	9.15 9.14 9.11 9.13 9.11	9.26 9.30 9.31 9.39 9.48	11.47 11.52 11.55 11.58 11.64	12.45 12.57 12.71 12.87 12.93
16 17 18 19 20	12.22 12.20 12.18 12.19 12.18	11.78 11.73 11.76 11.69 11.78	11.39 11.40 11.37 11.34 11.32	10.94 10.93 10.92 10.87 10.97	10.72 10.73 10.89 10.75 10.71	10.20 10.16 10.16 10.21 10.24	9.92 9.90 9.81 9.77 9.77	9.15 9.11 9.11 9.09 9.01	9.10 9.09 9.05 9.09 9.08	9.55 9.66 9.66 9.82 9.87	11.68 11.71 11.72 11.73 11.73	13.09 13.19 13.30 13.39 13.47
21 22 23 24 25	12.18 12.19 12.18 12.16 12.13	11.87 11.76 11.62 11.59 11.61	11.30 11.28 11.34 11.35 11.33	11.07 11.05 10.99 10.94 10.93	10.67 10.65 10.65 10.62 10.57	10.14 10.11 10.14 10.13 10.15	9.74 9.73 9.71 9.67 9.63	9.02 9.00 8.97 8.99 9.01	9.07 9.08 9.09 9.11 9.15	9.95 10.01 10.07 10.13 10.20	11.76 11.87 11.90 11.90	13.56 13.64 13.69 13.75 13.79
26 27 28 29 30 31	12.11 12.10 12.07 12.05 12.05 12.07	11.63 11.66 11.63 11.60 11.63	11.22 11.19 11.14 11.19 11.21 11.17	10.95 10.90 10.90 10.87 10.85 10.86	10.55 10.53 10.53 	10.12 10.10 10.12 10.18 10.22 10.23	9.55 9.55 9.54 9.53 9.51	9.03 9.05 9.12 9.10 9.05 9.02	9.18 9.24 9.24 9.26 9.27	10.30 10.35 10.41 10.44 10.48 10.53	11.90 11.90 11.92 11.95 11.96 11.98	13.83 13.88 13.97 14.06 14.11
MEAN MAX MIN	12.20 12.50 12.05	11.81 12.05 11.59	11.39 11.63 11.14	10.98 11.13 10.85	10.76 10.97 10.53	10.30 10.63 10.10	9.91 10.25 9.51	9.22 9.52 8.97	9.11 9.27 9.01	9.69 10.53 9.20	11.55 11.98 10.61	12.96 14.11 11.96

CAL YR 2000 MEAN 13.16 MAX 16.14 MIN 11.14 WTR YR 2001 MEAN 10.82 MAX 14.11 MIN 8.97

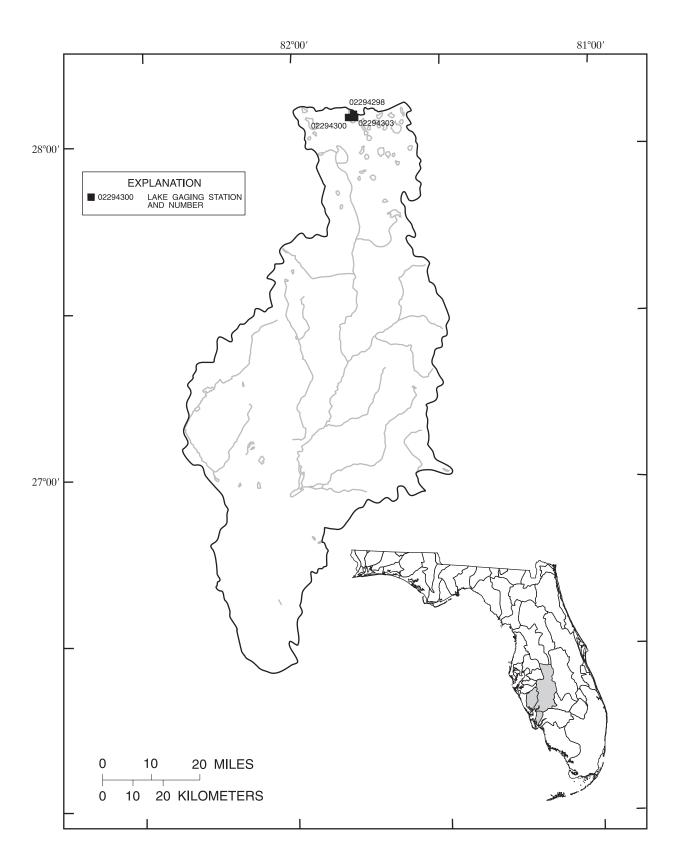


Figure 13.--Location of lake gaging stations in the Peace and Myakka River basins, Charlotte Harbor and coastal area.

PEACE RIVER BASIN 383

02294298 LAKE ARIETTA NEAR AUBURNDALE, FL

LOCATION.--Lat $28^{\circ}05'43"$, long $81^{\circ}47'43"$, in $NE^{1}/_{4}$ sec.34, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on southeast shore of lake, 2.3 mi north of Auburndale.

SURFACE AREA. -- 764 acres (1.19 mi²).

DRAINAGE AREA. -- 3.70 mi².

PERIOD OF RECORD.--August 1970 to September 1976 (once daily); October 1976 to September 1978 (thrice weekly); October 1978 to September 1992 (once daily); October 1992 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above sea level; gage readings have been reduced to elevations above sea level. Prior to Nov. 21, 1972 at site nearby at datum 0.10 ft lower and Nov. 22, 1972 to Sept. 8, 1980 at several sites nearby at present datum.

REMARKS.--Lake is in the Saddle Creek Branch area of Peace River headwaters and level is controlled by structure P-3.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 143.66 ft, Jan. 2, 1998; minimum observed, 136.50 ft, May 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 139.42 ft, Oct. 3; minimum observed, 137.56 ft, June 12.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	139.42 	138.96 	 	 	138.32	 	138.36	 137.82	 137.58	137.78 	138.18 138.26 138.44	 138.46
6 7 8 9	 	138.90	138.58 	 	 	 	138.30	 	 	137.82 	 	 138.76
11 12 13 14 15	139.20 	138.80	138.62	138.38	138.26	138.10	 	137.70 137.70	137.56 	 	 	
16 17 18 19 20		 138.74	138.64	 		138.10 138.12	138.08		 137.68	138.06		139.28
21 22 23 24 25	 139.02		 	138.38				 137.64	 	 138.14 		
26 27 28 29 30 31	138.98 	138.70 138.96	138.48 138.44 138.64	 138.30	138.16 138.20 138.32	138.32	137.98 138.36	137.82	137.70 137.70	 138.14	 138.46	139.28 139.22
MAX MIN	139.42	138.96	138.64	138.38	138.32	138.32	138.36	137.82	137.70	138.14	138.46	139.28

PEACE RIVER BASIN

LOCATION.--Lat $28^{\circ}05^{\circ}18^{\circ}$, long $81^{\circ}48^{\circ}54^{\circ}$, in $SE^{1/4}_{4}$ sec.33, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on west shore of lake, on private pier, 2.2 mi northwest of Auburndale.

SURFACE AREA.--78.0 acres (0.12 mi^2) .

DRAINAGE AREA.--4.33 mi².

PERIOD OF RECORD.--August 1970 to current year (weekly).

REVISED RECORDS. -- WDR FL-80-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above sea level; gage readings have been reduced to elevations above sea level. Prior to Jan. 5, 1972, at site 0.4 mi south at datum 0.08 ft lower; Jan. 5, 1972, to Nov. 20, 1980, at site 0.4 mi south at present datum.

REMARKS.--Lake is in the Saddle Creek Branch area of Peace River headwaters.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 138.12 ft, Apr. 10, 1983; minimum observed, 134.50 ft, May 8, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 136.86 ft, Sept. 27; minimum observed, 134.66 ft, June 6.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		135.94								134.90	135.40	
2								135.00				
3	136.28			135.52								
4							135.44		134.69			
5												
6		135.87	135.66						134.66			135.88
7					135.40	135.26						
8		135.86									135.94	
9							135.40	135.00				
10				135.56								
11	136.14						135.38			135.02		
12												
13			135.70						134.68			136.30
14					135.36	135.20						
15		135.80										
16								134.84			136.02	
17				135.44			135.28					
18	136.08									135.30		
19												136.76
20			135.64						134.78			
21					135.28	135.14						
22		135.70										
23								134.80			136.00	
24				135.42								
25	136.00						135.12					
26			135.58		135.24					135.34		
27			135.56						134.82			136.86
28					135.24	135.08						
29		135.76									135.96	
30								134.70				
31				135.40								
MAX MIN	136.28 136.00	135.94 135.70	135.70 135.56	135.56 135.40	135.40 135.24	135.26 135.08	135.44 135.12	135.00 134.70	134.82 134.66	135.34 134.90	136.02 135.40	136.86 135.88

PEACE RIVER BASIN 385

02294303 ARIANA LAKE AT AUBURNDALE, FL

LOCATION.--Lat $28^{\circ}05^{\circ}16"$, long $81^{\circ}47^{\circ}41"$, in SE^{1}_{4} sec.34, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on north shore of lake, 1,650 ft west of State Highway 559, and 1.7 mi north of Auburndale.

SURFACE AREA.--1,019 acres (1.59 mi²).

DRAINAGE AREA. -- 7.86 mi².

MAX

MIN

133.24

133.22

133.45

PERIOD OF RECORD.--June 1945 to January 1948 (weekly); February 1958 to February 1960 (fragmentary); November 1971 to September 1992 (twice weekly); October 1992 to current year (weekly).

REVISED RECORDS. -- WDR FL-80-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above sea level (levels by Southwest Florida Water Management District); gage readings have been reduced to elevations above sea level. Prior to Mar. 18, 1975, at site 1,000 ft east at datum 31.90 ft higher.

REMARKS.--Lake is in Saddle Creek Branch area of Peace River headwaters.

133.01

132.94

132.92

132.80

132.68

132.60

EXTREMES FOR PERIOD OF RECORD. -- Maximum elevation observed, 137.90 ft, Aug. 28, 1946; minimum observed, 131.28 ft, May 6, 1976.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 133.58 ft, Sept. 27; minimum observed, 131.94 ft, May 30, June 12.

DAILY INSTANTANEOUS VALUES DAY NOV DEC FEB MAY JUN SEP OCT JAN JUL AUG 132.51 ------------------2 ---___ ___ ___ ___ ---3 132.00 5 ___ 6 7 133.45 132.30 ------___ ___ ___ 132.70 ___ ------___ ___ ---------8 132.92 132.78 132.90 133.02 10 133.22 ___ ___ 132 62 ___ ___ ___ 132 58 11 12 ___ ---___ ___ ___ 132 72 ___ 131.94 ___ ___ ___ 13 ___ ------------------132.74 ---132.14 15 ___ 133.24 132.94 ___ ___ ___ ___ ___ ___ ___ 133 35 132.84 16 17 ___ ---___ ___ ---___ ___ ---___ ___ ___ 18 ------___ ___ ---------19 ---20 ___ ___ ___ 132 82 132 60 ___ 132 44 ___ ___ ___ ___ ___ 21 132.00 132.20 132.62 ---___ 132 78 ___ 22 ___ ---___ ___ ___ ___ 23 ---------133.42 24 ------------132.80 133 24 ___ 25 ---___ ___ ___ ___ ___ ___ ___ 26 133.01 ---132.68 27 ---133.26 132.96 ---------132.50 ---133.58 28 ---132.80 ___ ___ 132.39 ___ ___ ___ ---29 ---------------___ ------132.84 131.94 132.20 133.55 30 ------31 132.70

132.84

132.70

132.78

132.39

132.30

131.94

132.20

131.94

132.62

132.50

132.90

132.51

133.58

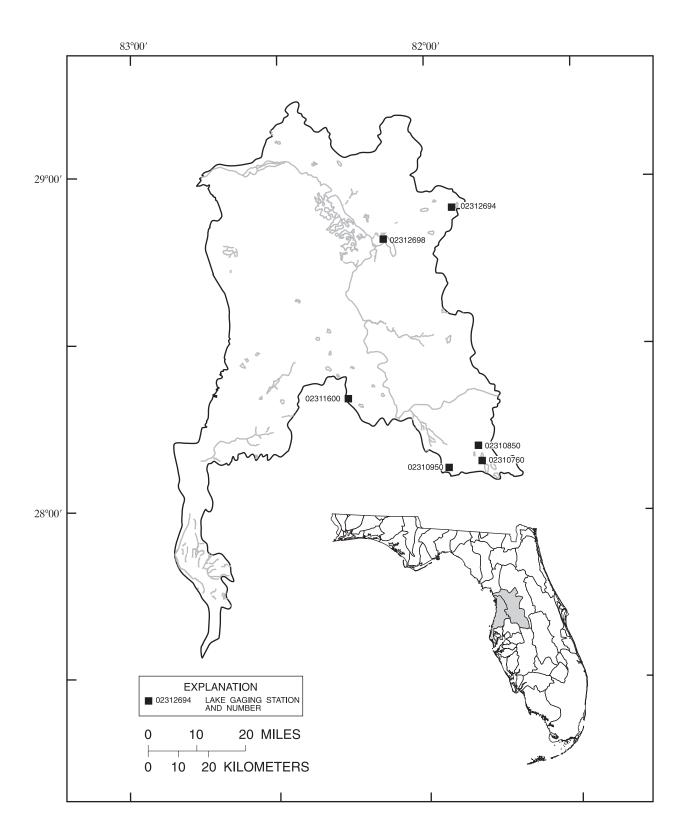


Figure 14.--Location of lake gaging stations in the Withlacoochee River basin and coastal areas.

02310760 LAKE JULIANA NEAR POLK CITY, FL

LOCATION.--Lat $28^{\circ}07^{\circ}51^{\circ}$, long $81^{\circ}47^{\circ}45^{\circ}$, in SE^{1}_{4} sec.15, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100208, on east shore of lake, near concrete-walled pumping station, 4 mi southeast of Polk City.

SURFACE AREA.--919 acres (1.44 mi^2).

DRAINAGE AREA.--5.4 mi^2 , approximately.

PERIOD OF RECORD.--December 1961 to September 1975 (once daily); October 1975 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above sea level; gage readings have been reduced to elevations above sea level. Prior to June 8, 1984, at datum 26.49 ft higher.

REMARKS.--Lake is one of a group of lakes in the southern part of an extensive area of swampy flatlands and sandy ridges at a relatively high elevation, called the Green Swamp. Streams that flow into five major drainage systems originate in or near the Green Swamp area. Lake is connected to Lake Mattie by a canal which tends to equalize the lake elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 134.10 ft, Mar. 21, 1998; minimum observed, 126.20 ft, May 7,14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 129.86 ft, Oct. 1; minimum observed, 127.86 ft, June 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129.86										128.52	128.68
2									127.93			
3			129.16		128.76							
4		129.28				128.72			127.94		128.71	
5								128.26				
6		129.35		128.93								
7	129.79									128.13		
8							128.75					128.82
9							128.72		127.96			
10			129.10		128.76	128.57						
11											128.86	
12		129.27						128.09				
13				128.89								
14	129.63									128.20		
15												
16			129.17				128.63		127.86	128.28		129.38
17					128.66	128.56						
18											128.88	
19		129.21						128.06				
20				128.90								129.43
21												
22	129.54											
23			129.03						127.92			
24		129.11			128.64	128.52						
25											128.78	
26			129.00		128.63			127.99				
27				128.81								129.46
28							128.36					
29										128.46		129.46
30	129.43								127.98			
31			128.99			128.76						
MAX	129.86	129.35	129.17	128.93	128.76	128.76	128.75	128.26	127.98	128.46	128.88	129.46
MIN	129.43	129.11	128.99	128.81	128.63	128.52	128.36	127.99	127.86	128.13	128.52	128.68

02310850 LAKE HELENE NEAR POLK CITY, FL

LOCATION.--Lat $28^{\circ}10^{\circ}25^{\circ}$, long $81^{\circ}48^{\circ}21^{\circ}$, in $SM^{\frac{1}{2}}_4$ sec.34, T.26 S., R.25 E., Polk County, Hydrologic Unit 03100208, next to west shore of lake, on private pier at Camp Gilead, 1.3 mi southeast of Polk City.

SURFACE AREA.--54.4 acres (0.08 mi^2) .

DRAINAGE AREA. -- 0.42 mi².

PERIOD OF RECORD. -- March 1961 to April 1965; May 1965 to current year (thrice weekly).

REVISED RECORDS. -- WRD FL 1962: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above sea level; gage readings have been reduced to elevations above sea level. Prior to Oct. 19, 1961, nonrecording gage, Oct. 19, 1961 to Apr. 13, 1965, water-stage recorder and since Apr. 13, 1965, nonrecording gage at same site at different datums.

REMARKS.--Lake is one of a group of lakes in the southern part of an extensive area of swampy flatlands and sandy ridges at a relatively high elevation, called the Green Swamp. Streams that flow into five major drainage systems originate in or near the Green Swamp area. Lake is landlocked.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 146.48 ft, Mar. 21, 1998; minimum observed, 138.21 ft, June 30, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since 1948, 148.5 ft in September 1960, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 141.15 ft, Oct. 2; minimum observed, 138.21 ft, June 30.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	 141.15	140.57					139.40				138.45	
3									138.47	138.25		
4 5	141.12	140.53	140.18	139.87			139.36		138.51	138.26	138.68	138.54
5			140.10				139.30			130.20		130.34
6	141.10	140.50		139.84	139.55				138.46		138.74	
7			140.14			139.20		138.80		138.27		138.61
8 9		140.46		139.81	139.52	139.15	139.34		138.42	138.27	138.76	138.81
10		140.43		139.85	139.32		139.34		130.42	130.27		
		110.15		133.03			107.02					
11			140.11		139.49	139.12			138.37	138.26		
12				139.82			139.28	138.71				
13		140.39				139.10			138.32	138.27	138.75	138.82
14							139.25	138.68				
15		140.37		139.80	139.45	139.06					138.77	
16	140.84						139.20	138.64	138.29	138.37		
17		140.34	140.12	139.78	139.42	139.02					138.75	139.44
18	140.81							138.58	138.22	138.36		
19					139.35							139.47
20						139.12		138.54	138.27	138.34	138.73	
21	140.78	140.27		139.74								
22					139.33	139.08		138.56	138.24		138.75	
23	140.75	140.22		139.70			139.02			138.36		
24												139.52
25					139.28			138.54	138.27	138.33		
26	140.68	140.22	139.94	139.65	139.28							139.54
27		140.29			139.26			138.50			138.66	139.58
28	140.65								138.23			139.54
29				139.62		138.95					138.63	
30	140.62							138.46	138.21	138.37		
31				139.60		139.32						
MAX	141.15	140.57	140.18	139.87	139.55	139.32	139.40	138.80	138.51	138.37	138.77	139.58
MIN	140.62	140.22	139.94	139.60	139.26	138.95	139.02	138.46	138.21	138.25	138.45	138.54

02310950 LAKE DEESON NEAR LAKELAND, FL

LOCATION.--Lat $28^{\circ}06^{\circ}37^{\circ}$, long $81^{\circ}55^{\circ}51^{\circ}$, in NW $^{1}_{4}$ sec.29, T.27 S., R.24 E., Polk County, Hydrologic Unit 03100208, on south shore of lake, 5.0 mi northeast of intersection of U.S. Highways 92 and 98 in Lakeland.

SURFACE AREA.--116 acres (0.18 mi^2).

DRAINAGE AREA. -- 0.96 mi².

PERIOD OF RECORD. --July 1954 to March 1960 (fragmentary); May 1965 to June 1995; July 1995 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 116.00 ft above sea level; gage readings have been reduced to elevations above sea level. Prior to Nov. 16, 2000, gage at same site at datum 2.21 ft higher. Prior to Oct. 17, 1957, nonrecording gage at same site at datum 20.25 ft higher and Oct. 17, 1957 to March 1960, at datum 20.79 ft higher. May 1965 to June 1995, water-stage recorder at present site and datum.

REMARKS.--Lake is landlocked except at extreme high stages when flow is to the northeast to the headwaters of Gator Creek. Since Dec. 14, 1973, elevation of lake affected by pumpage into lake from nearby deep well.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 135.49 ft, Sept. 28, 1954; minimum daily, 117.60 ft, July 7, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 120.57 ft, Oct. 9; minimum observed, 117.60 ft, July 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											118.08	
2												118.52
3										117.68		
4								118.42	117.72			
5					119.06	118.69	118.88					
6		120.34										
7	120.57		119.73	119.38						117.60	118.44	
8												
9							118.85					
10												119.35
11						118.59	118.82	118.25	117.64			
12												
13					118.94						118.54	
14	120.41	119.73		119.34						117.84		119.80
15			119.58									120.00
16		119.96						118.14				
17												
18		119.92					118.62					
19						118.52						
20									117.64		118.62	
21				119.26								
22								117.94		117.89		
23												120.32
24		119.82								117.97		
25											118.60	
26			119.48		118.74		118.54					
27				119.16							118.58	120.54
28												
29										118.08		
30		119.82						117.72	117.72			
31			119.46			118.92						
MAX MIN	120.57 120.41	120.34 119.73	119.73 119.46	119.38 119.16	119.06 118.74	118.92 118.52	118.88 118.54	118.42 117.72	117.72 117.64	118.08 117.60	118.62 118.08	120.54 118.52

02311600 CLEAR LAKE AT SAN ANTONIO, FL

LOCATION.--Lat $28^{\circ}20^{\circ}20^{\circ}$, long $82^{\circ}16^{\circ}02^{\circ}$, in $SW^{1/4}_{4}$ sec.1, T.25 S., R.20 E., Pasco County, Hydrologic Unit 03100208, on southwest shore of lake, on public pier, 0.5 mi northeast of San Antonio, and 5.0 mi west of Dade City.

SURFACE AREA.--158 acres (0.25 mi^2).

DRAINAGE AREA.--0.92 mi².

PERIOD OF RECORD.--January 1965 to September 1966 (twice weekly); October 1966 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 95.00 ft above sea level (Florida Department of Transportation bench mark); gage readings have been reduced to elevations above sea level. Mar. 31, 1971 to Mar. 13, 1991, at datum 2.00 ft higher. Prior to Mar. 31, 1971, at site 30 ft northwest at same datum.

REMARKS.--Lake has no surface outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 128.92 ft, Oct. 10, 1998; minimum observed, 122.16 ft, May 7, 1994. EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 125.00 ft, Oct. 7; minimum observed, 122.60 ft, June 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												123.20
2			124.28						122.78			
3					124.00	123.78						
4		124.58									123.38	
5								123.03	122.72			
_				123.88								
6 7	125.00			123.88						122.78		
8	125.00									122.78		
9		124.51	124.20						122.80			123.32
10		124.51	124.20			102.76			122.80			123.32
10					123.90	123.76	123.75					
11		124.48									123.36	
12								123.30				
13				123.84								
14	124.26									122.88		
15												124.00
16			124.12						122.60			
17					123.84	123.66						
18		124.36									123.34	
19								122.85				
20				123.80								123.95
21	124.82									123.06		
22								122.85				123.98
23			124.00						122.70			
24					123.80	123.64						
25		124.30									123.22	
26								122.80				
27			124.02	123.76	123.78							
28	124.62									123.10		123.94
29												
30			123.90						122.82			
31						123.72				123.06		
MAX	125.00	124.58	124.28	123.88	124.00	123.78	123.75	123.30	122.82	123.10	123.38	124.00
MIN	124.26	124.30	123.90	123.00	123.78	123.76	123.75	122.80	122.62	123.10	123.30	123.20
TATTA	127.20	14.30	143.50	123.70	143.10	123.04	143.75	144.00	122.00	144.10	143.44	143.40

02312694 LADY LAKE NEAR LADY LAKE, FL

LOCATION.--Lat 28°54'50", long 81°53'43", in NE $\frac{1}{4}$ sec.22, T.18 S., R.24 E., Lake County, Hydrologic Unit 03100208, on south shore of lake, 1.5 mi east of town of Lady Lake.

SURFACE AREA.--190 acres (0.30 mi^2).

DRAINAGE AREA.--4.67 mi².

PERIOD OF RECORD.--February 1970 to September 1973 (weekly); October 1973 to current year (fragmentary).

REVISED RECORDS.--WDR FL-72-3: Drainage area, surface area.

GAGE.--Nonrecording gage. Datum of gage is at sea level.

REMARKS.--Lake is landlocked. There is some pumpage from lake for irrigation purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 66.60 ft, Apr. 16, 1984; minimum unknown, lake observed dry, July 2001.

ELEVATION, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET) (72020)
OCT		
20	1258	61.22
DEC		
28	1357	61.04
FEB		
15	1200	59.96
APR		
18	0955	61.30
SEP		
20	1418	61.44

02312698 LAKE PANASOFFKEE NEAR LAKE PANASOFFKEE, FL

LOCATION.--Lat $28^{\circ}49^{\circ}01^{\circ}$, long $82^{\circ}08^{\circ}40^{\circ}$, in $SE^{1/4}_{4}$ sec.19, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on west shore of lake, 0.8 mi north of outlet, 4.6 mi west of Coleman, and 5.1 mi northwest of town of Lake Panasoffkee.

SURFACE AREA.--4,821 acres (7.53 mi^2) .

DRAINAGE AREA. -- 420 mi², approximately.

PERIOD OF RECORD.--April 1955 to November 1962 (about weekly); December 1962 to current year. Records for Outlet River at Panacoochee Retreats (station 02312700).

REVISED RECORDS. -- WDR FL-72-3: Drainage area, surface area.

GAGE.--Water-stage recorder. Datum of gage is at sea level (Florida Department of Transportation bench mark). Prior to Dec. 18, 1962, nonrecording gage and Dec. 18, 1962, to Oct. 7, 1975, water-stage recorder at sites within 0.8 mi south at same datum.

REMARKS.--Outflow from lake is through Outlet River to Withlacoochee River; lake level affected at times by the stage of Withlacoochee River. Prior to 1962, lake level partially controlled during low water by small rock dams and at times during 1962 to 1964 by a temporary sheet piling dam in Outlet River.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 44.28 ft, Apr. 5, 1960; minimum daily elevation, 36.93 ft, May 31, 2001. ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

SEP

AUG

APR JUL DAY NOV DEC FEB MAR MAY JUN OCT JAN 1 37.63 37.32 37.18 37.11 37.13 37.08 37.63 37.29 37.01 37.19 37.67

2 3 4 5	37.63 37.64 37.61 37.61	37.31 37.30 37.30 37.28	37.17 37.16 37.16 37.15	37.11 37.10 37.08 37.09	37.13 37.13 37.12 37.12	37.03 36.99 37.08 37.06	37.66 37.66 37.63 37.64	37.28 37.26 37.27 37.24	37.04 37.00 37.00 37.04	37.17 37.15 37.11 37.12	37.67 37.71 37.77 37.82	 37.74
6 7 8 9 10	37.60 37.59 37.57 37.50 37.51	37.29 37.27 37.27 37.26 37.23	37.14 37.13 37.12 37.12 37.13	37.09 37.09 37.11 37.08 37.10	37.12 37.12 37.13 37.12 37.10	37.01 36.99 37.01 37.02 37.03	37.63 37.61 37.58 37.57 37.56	37.24 37.21 37.21 37.18 37.18	37.03 37.05 37.03 37.00 36.96	37.16 37.15 37.13 37.12 37.12	37.86 37.87 37.86 37.87 37.88	37.76 37.82 37.86 37.89 37.89
11 12 13 14 15	37.50 37.49 37.48 37.47 37.46	37.22 37.22 37.22 37.21 37.19	37.14 37.17 37.16 37.15 37.15	37.10 37.08 37.09 37.09 37.09	37.10 37.09 37.08 37.07 37.07	37.04 37.05 37.09 37.09 37.07	37.57 37.54 37.52 37.50 37.49	37.18 37.15 37.13 37.14 37.20	37.03 37.15 37.12 37.12 37.12	37.14 37.14 37.20 37.25 37.26	37.87 37.85 37.84 37.83 37.82	37.91 37.95 37.96 38.03 38.39
16 17 18 19 20	37.45 37.45 37.44 37.44 37.43	37.19 37.19 37.19 37.19 37.17	37.15 37.13 37.13 37.13 37.11	37.09 37.09 37.09 37.10 37.03	37.06 37.04 37.04 37.04 37.03	37.08 37.07 37.09 37.22 37.36	37.46 37.41 37.41 37.43 37.42	37.18 37.16 37.15 37.13 37.12	37.09 37.07 37.09 37.14 37.13		37.81 37.82 37.80 	38.57 38.61 38.63 38.65 38.65
21 22 23 24 25	37.43 37.41 37.40 37.38 37.37	37.15 37.16 37.17 37.19 37.19	37.13 37.12 37.11 37.10 37.10	37.05 37.04 37.05 37.10 37.07	37.02 37.01 37.02 37.03 37.01	37.34 37.35 37.37 37.37 37.36	37.41 37.39 37.37 37.33 37.34	37.11 37.09 37.06 37.06 37.05	37.11 37.13 37.15 37.16 37.16	37.42 37.50 37.64 37.61 37.59	37.74 37.62 37.60 37.66	38.65 38.67 38.71 38.73 38.76
26 27 28 29 30 31	37.37 37.35 37.35 37.35 37.34 37.33	37.19 37.19 37.18 37.19 37.19	37.11 37.10 37.12 37.12 37.10 37.10	37.07 37.09 37.08 37.06 37.06 37.11	37.00 37.02 37.03 	37.34 37.34 37.41 37.58 37.65	37.36 37.35 37.34 37.34 37.31	37.02 36.96 37.00 37.02 36.97 36.93	37.16 37.17 37.20 37.18 37.20	37.59 37.61 37.65 37.66 37.65 37.65	37.67 37.62 37.63 37.63	38.80 38.85 38.90 38.97 39.06
MEAN MAX MIN	37.47 37.64 37.33	37.22 37.32 37.15	37.13 37.18 37.10	37.08 37.11 37.03	37.07 37.13 37.00	37.19 37.65 36.99	37.48 37.66 37.31	37.13 37.29 36.93	37.09 37.20 36.96	37.34 37.66 37.11		38.40 39.06 37.74

CAL YR 2000 MEAN 37.63 MAX 38.25 MIN 37.08 WTR YR 2001 MEAN 37.35 MAX 39.06 MIN 36.93

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